

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 314                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	16/07/91	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 8155    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7674052 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	440368    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>Exposure Type:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	220 degrees

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Sodic Eutrophic Brown Kandosol Medium Non-gravelly Clay-loamy Clayey Deep		<b>Principal Profile Form:</b>	Gn2.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	No suitable

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - None recorded  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia argyrodendron

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A1	0 - 0.12 m	Yellowish brown (10YR5/4-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 5.8 (Raupach, 0.05); Abrupt, Smooth change to -
B1	0.12 - 0.4 m	Dark yellowish brown (10YR4/4-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.3); Gradual, Smooth change to -
B21	0.4 - 0.74 m	Yellowish brown (10YR5/6-Moist); ; Light clay (Light); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Dry; Very firm consistence; Common (10 - 20 %), Manganiferous, Very coarse (20 - 60 mm), Veins; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.6); Clear, Smooth change to -
B22	0.74 - 1.2 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.9); Clear, Smooth
B3	1.2 - 1.8 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR6/3, 20-50% , 5-15mm, Faint; Mottles, 20-50% ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Medium (2-5mm) macropores, Moderately moist; Firm consistence; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 1.5);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0.01 - 0.12	5.4A		1.9B	2.2	0.28	0.55			
0.12 - 0.4	7.9A		2J	4.3	0.1	2.6		10.7l	24.30
0.4 - 0.74	8A		1.3B	5.6	0.12	11		9.8l	112.24
			1.5J	5	0.1	3.5			35.71
0.74 - 1.2	8.4A								
1.2 - 1.8	8.6A								

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension