

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 80 **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>	27/07/90	<b>Elevation:</b>	350 metres
<b>Map Ref.:</b>	Sheet No. : 8157 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7770298 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	410588 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</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 rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	280 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Mesotrophic Red Kandosol Medium Non-gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dr2.52
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red earth

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Aristida species, Eriachne species  
Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Acacia species, Erythroxylon australe  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Acacia shirleyi, Eucalyptus crebra, Eucalyptus

erythrophloia

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Ferricrete

#### Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.2 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1c	0.1 - 0.65 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.65 - 0.95 m	Red (2.5YR4/8-Moist); Mottles, 7.5YR78, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Light medium clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 0.9); Common, fine (1-2mm) roots; Clear, Smooth change to -
B/C	0.95 - 1.2 m	Red (2.5YR5/8-Moist); Mottles, 7.5YR88, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.2);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.7A		1.6B	0.58	0.29	0.04				
0.1 - 0.65	6A									
0.65 - 0.95	6.7A		2.2J	1.5	0.2	0.1		3.7I		2.70
0.95 - 1.2	7A		2.9B	1.6	0.08	0.07				

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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