

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 169 **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>	21/09/90	<b>Elevation:</b>	650 metres
<b>Map Ref.:</b>	Sheet No. : 7860 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7951563 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	274784 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>	Level plain <9m <1%	<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>	150 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Eutrophic Brown Ferrosol Thin Non-gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Gn3.25
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Xanthozem

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, Sparse. \*Species includes - Heteropogon contortus, Themeda triandra, Dichanthium species  
Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus platyphylla, Eucalyptus brownii

Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus platyphylla, Eucalyptus brownii

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

#### Profile Morphology

A1c	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam (Heavy); Strong grade of structure, 5-10 mm, Cast; Strong grade of structure, <2 mm, Granular; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very weak consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A3c	0.05 - 0.2 m	Dark yellowish brown (10YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Granular; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very weak consistence; Common (10 - 20 %), Manganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , , Gypseous, , ; Common, fine (1-2mm) roots; Gradual, Smooth change to -
B21c	0.2 - 0.55 m	Dark yellowish brown (10YR4/6-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Moderately moist; Weak consistence; Many (20 - 50 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.55); Common, fine (1-2mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site 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 - 0.05	6.7A		13B	6.1	1.4	0.06				
0.2 - 0.55	7A		4B	4.4	0.32	0.14		12.4I		1.13
			6.4J	4.9	0.4	0.1				0.8I

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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