

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 39 **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> 17/07/90	<b>Elevation:</b> 330 metres
<b>Map Ref.:</b> Sheet No. : 8057 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7785647 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 380583 Datum: AGD66	<b>Drainage:</b> Poorly 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> 140 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Mesotrophic Mottled-Hypernatric Brown Sodosol Thick Non-gravelly Loamy Clayey Deep	<b>Principal Profile Form:</b> Dy2.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Solodic soil

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 - Aristida species, Chrysopogon fallax, Eragrostis

Mid Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Acacia species, Casuarina leuhmannii, Eucalyptus melanophloia

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus melanophloia

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

#### Profile Morphology

A1	0 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6.8 (Raupach, 0.04); Few, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.15 - 0.38 m	Brownish yellow (10YR6/6-Moist); ; Sandy clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.25); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B21	0.38 - 0.68 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.5); Few, fine (1-2mm) roots; Clear, Smooth change to -
B22c	0.68 - 0.9 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR58, 2-10% , 15-30mm, Prominent; Mottles, 2-10% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.8); Abrupt, Smooth change to -
B3c	0.9 - 1.01 m	Very pale brown (10YR7/4-Moist); Mottles, 7.5YR68, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , Abrupt, Smooth change to -
2A2ecb	1.01 - 1.06 m	Light grey (10YR7/2-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Wet; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , , Gypseous, , , Abrupt, Smooth change to -
2B2b	1.06 - 1.4 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR68, 10-20% , 15-30mm, Prominent; Mottles, 10-20% ; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 - 6 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 1.1);

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**Observation Notes**

**Site Notes**

**Morphological Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC		Exchangeable Cations		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg			%
0 - 0.15	7.8A		2B	1.2	0.5	0.02			
0.15 - 0.38	6.7A								
0.38 - 0.68	6.5A		1.4J	0.1	0.1	2.6	2.6I		100.00
0.68 - 0.9	7.7A		1.2B	1.7	0.05	0.51			
1.06 - 1.4	8.8A								

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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