

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 89 **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> 07/08/90	<b>Elevation:</b> 255 metres
<b>Map Ref.:</b> Sheet No. : 8156 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7730906 AMG zone: 55	<b>Runoff:</b> No runoff
<b>Easting/Lat.:</b> 403994 Datum: AGD66	<b>Drainage:</b> Well 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> Alluvial 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> 60 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Sodic Eutrophic Brown Chromosol Medium Non-gravelly	<b>Principal Profile Form:</b> Db1.33
Loamy Clayey Very deep	
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> No suitable

No analytical data are available but confidence is fair.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Aristida species, Chrysopogon fallax  
 Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus polycarpa  
 Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

polycarpa

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

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Abundant, medium (2-5mm) roots; Clear, Smooth
A2j	0.1 - 0.28 m	Brown (10YR4/3-Moist); ; Loamy fine sand; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , Many, fine (1-2mm) roots; Abrupt, Smooth change to -
B1	0.28 - 0.42 m	Yellowish brown (10YR5/4-Moist); ; Fine sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.2 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth
B21	0.42 - 0.68 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 6.8 (Raupach, 0.6); Clear, Smooth change to -
B22	0.68 - 0.82 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 10YR63, 0-2% , 5-15mm, Distinct; Mottles, 0-2% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Abrupt, Smooth change to -
B23	0.82 - 1.03 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR43, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.9); Clear, Smooth change to -
B24	1.03 - 1.5 m	Strong brown (7.5YR4/6-Moist); ; Sandy loam (Heavy); Massive grade of structure, 20-50 mm; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 1.2); Gradual, Smooth change to -
B25	1.5 - 2.1 m	Brown (7.5YR5/4-Moist); ; Sandy loam; Earthy fabric; Moderately moist; , Calcareous, , , , Gypseous, , , Field pH 7.8 (Raupach, 1.8);

#### Morphological Notes

#### Observation 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 - 0.1	6.6A								
0.28 - 0.42	6.6A		5B	1.7	0.57	0.06			
0.42 - 0.68	6.8A		6.7B	3.4	0.32	0.25	8.8l		2.84
			5.2J	2.4	0.4	0.2			2.27
0.82 - 1.03	7.5A		5.4B		0.26	0.21			
1.03 - 1.5	7.6A								
1.5 - 2.1	8.1A								

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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