

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 696 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	31/07/91	Elevation:	360 metres
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7824802 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	438940 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Supracalcic Mottled-Subnatric Grey Sodosol Medium Gravelly Loamy Clayey Deep	Principal Profile Form:	Dy3.43
ASC Confidence:	Great Soil Group:	Solodized solonetz

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Themeda triandra
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 10-20%, , rounded, Sandstone

Profile Morphology

A11	0 - 0.06 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5
A21j	0.06 - 0.18 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ;
A22e	0.18 - 0.22 m	Brown (10YR5/3-Moist); ; Fine sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ;
B21	0.22 - 0.43 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10YR54, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Heavy clay; Strong grade of structure, 100-200 mm, Columnar; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.3);
B22	0.43 - 0.8 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Massive grade of structure; Earthy fabric; Moderately moist; Strong consistence; 0-2%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.6);
B23k	0.8 - 1.3 m	Pale brown (10YR6/3-Moist); ; Medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site 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 Cmol (+)/kg	Acidity		%
0 - 0.06	7A								
0.22 - 0.43	8.1A		9.7J	6.5	0.1	2.1		20.2I	10.4O
0.43 - 0.8	8.7A								
0.8 - 1.3	9.2A								

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Laboratory Analyses Completed for this profile

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