

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 864 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	05/11/91	Elevation:	260 metres
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7729597 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	449667 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Hypernatric Grey Sodosol Medium Slightly gravelly Loamy Clayey Moderately deep	Principal Profile Form:	Dy3.11

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Soloth

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

Vegetation:

Low Strata - , , . *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subrounded, Detrital sedimentary rock (unidentified)

Profile Morphology

A1	0 - 0.12 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05);
B21	0.12 - 0.3 m	Grey (10YR5/1-Moist); ; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.2);
B22	0.3 - 0.45 m	Greyish brown (10YR5/2-Moist); Mottles, 10YR53, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ;
B23	0.45 - 0.6 m	Grey (10YR6/1-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.6 (Raupach, 0.6);

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 - 0.12	6.3A							
0.12 - 0.3	6.5A		1.3J	10	0.1	5	14I	35.71
0.45 - 0.6	5.1A		0.7J	5.7	0.1	1.5	8.6I	17.44

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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