

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1311 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Rogers, Gary	Locality:	
Date Desc.:	03/08/92	Elevation:	No Data
Map Ref.:	Sheet No. : 8160 GPS	Rainfall:	No Data
Northing/Long.:	7903628 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	399225 Datum: AGD66	Drainage:	Imperfectly drained

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:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	5 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Brown Chromosol Thick Non-gravelly Clay-loamy Clayey Deep		Principal Profile Form:	Dy2.12
ASC Confidence:		Great Soil Group:	Yellow podzolic soil

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa species, Heteropogon contortus,
Sporobolus species Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus moluccana

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, subangular, Metamorphic rock (unidentified)

Profile Morphology

A11	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -
A12	0.1 - 0.3 m	Dark grey (10YR4/1-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 10-20%, coarse gravelly, 20-60mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.2); Abrupt change to -
B21	0.3 - 0.7 m	Yellowish brown (10YR5/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.5); Gradual change to -
B22	0.7 - 0.85 m	Olive brown (2.5Y4/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Weak grade of structure, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; Common cutans, 10-50% of ped faces or walls coated; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.8); Abrupt change to -
B3	0.85 - 1 m	Olive grey (5Y4/2-Moist); ; Clay loam, sandy; Weak grade of structure, 20-50 mm, Subangular blocky; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1);

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	Acidity	%
						Cmol (+)/kg		
0 - 0.1	5.7A		3.7B	1.7	0.38	0.08		
0.1 - 0.3	5.6A							
0.3 - 0.7	6A		12B	17	0.07	1.7		
0.7 - 0.85	6.7A							
0.85 - 1	7.2A							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.3												
0.3 - 0.7												
0.7 - 0.85												
0.85 - 1												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat		K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
m					g/g -	m3/m3			mm/h		mm/h	
0 - 0.1												
0.1 - 0.3												
0.3 - 0.7												
0.7 - 0.85												
0.85 - 1												

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension