

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 809 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	16/10/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8156 GPS	Rainfall:	No Data
Northing/Long.:	7695928 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	415952 Datum: AGD66	Drainage:	No Data

Geology

Exposure Type:	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:	Level plain <9m <1%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endohypersodic Self-Mulching Grey Vertosol Slightly gravelly Very fine Very fine Very deep	Principal Profile Form:	Ug5.24
ASC Confidence: Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Grey clay

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

Vegetation:

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, rounded, Quartz

Profile Morphology

A11	0 - 0.03 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Subangular blocky; , Calcareous, , , , Gypseous, , , ;
A12	0.03 - 0.5 m	Dark grey (10YR4/1-Moist); , 10YR42, 2-10% , Faint; , 2-10% ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.05);
B21	0.5 - 0.85 m	Greyish brown (10YR5/2-Moist); , 10YR54, 2-10% , Faint; , 2-10% ; Heavy clay; Massive grade of structure; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.6);
B22	0.85 - 1.1 m	Brown (10YR5/3-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Angular blocky; Many (20 - 50 %), Manganiferous, Medium (2 - 6 mm), Veins; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.9);
B23	1.1 - 1.6 m	Light brownish grey (10YR6/2-Moist); , 10YR66, 2-10% , Distinct; , 2-10% ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Angular blocky; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Veins; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 1.6);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 809 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0.03 - 0.5	6.7A		9.6B	12	0.74	1			
0.5 - 0.85	7.5A		12B	13	0.51	6.6		27.1l	24.35
			12J	11.5	0.4	2.5			9.23
1.1 - 1.6	5.3A		6.6J	8	0.4	2.4		19.5l	12.31

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0.03 - 0.5
0.5 - 0.85
1.1 - 1.6

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

0.03 - 0.5
0.5 - 0.85
1.1 - 1.6

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 809 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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