

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 704 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	01/08/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7825934 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	446736 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Endocalcareous Crusty Brown Vertosol Slightly gravelly	Principal Profile Form:	Ug5.32
Medium fine Very fine Moderately deep	Great Soil Group:	Brown clay
ASC Confidence: No analytical data are available but confidence is fair.		

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa ewartiana, Sporobolus species

Mid Strata - Tree, 3.01-6m, Mid-dense. *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, Igneous rock (unidentified)

Profile Morphology

A1	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Clear change to -
B21	0.05 - 0.3 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Dolerite, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 9.5 (Raupach, 0.3); Gradual change to -
B22	0.3 - 0.6 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Dolerite, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (Raupach, 0.6); Gradual change to -
B/C	0.6 - 0.8 m	Dark reddish grey (5YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Gradual change to -
C	0.8 - 1.2 m	; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9.5 (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
		Ca	Mg	K	Na	Acidity			
m		dS/m				Cmol (+)/kg			%

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			%		

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 - m ³ /m ³						mm/h	mm/h
0.00	0.00	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.05	0.05	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.10	0.10	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.15	0.15	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.20	0.20	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.25	0.25	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.30	0.30	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.35	0.35	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.40	0.40	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.45	0.45	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.50	0.50	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.55	0.55	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.60	0.60	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.65	0.65	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.70	0.70	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.75	0.75	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.80	0.80	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.85	0.85	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.90	0.90	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0.95	0.95	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.00	1.00	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.05	1.05	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.10	1.10	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.15	1.15	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.20	1.20	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.25	1.25	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.30	1.30	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.35	1.35	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.40	1.40	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.45	1.45	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.50	1.50	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.55	1.55	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.60	1.60	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.65	1.65	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.70	1.70	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.75	1.75	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.80	1.80	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.85	1.85	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.90	1.90	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
1.95	1.95	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.00	2.00	98.7	98.7	98.7	98.7	9			

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Laboratory Analyses Completed for this profile