

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** T554 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	05/03/92	Elevation:	372 metres
Map Ref.:	Sheet No. : 8256 GPS	Rainfall:	No Data
Northing/Long.:	7684794 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	466645 Datum: AGD66	Drainage:	Imperfectly drained

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Clh	Substrate Material:	Undisturbed soil core, 0.6 m deep, Sandstone

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion: 5 m, 90 m;

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Mottled Eutrophic Brown Chromosol Thick Slightly gravelly	Principal Profile Form:	Dy3.72
Sandy Clayey Moderately deep	Great Soil Group:	No suitable

ASC Confidence:
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 - Chrysopogon fallax, Bothriochloa species
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Albizia
basaltica

Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: 0-2%, cobbly, 60-200mm, subangular platy, Sandstone

Profile Morphology

A11	0 - 0.05 m	Brown (10YR4/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.02); Few, fine (1-2mm) roots; Clear, Wavy change to -
A21	0.05 - 0.2 m	Yellowish brown (10YR5/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.1); Common, fine (1-2mm) roots; Gradual, Wavy change to -
A22j	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.25); Common, fine (1-2mm) roots; Clear change to -
B1	0.3 - 0.4 m	Light olive brown (2.5Y5/4-Moist); ; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, subangular platy, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.8 (Raupach, 0.35); Few, fine (1-2mm) roots; Clear change to -
B2	0.4 - 0.64 m	Olive yellow (2.5Y6/6-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Mottles, 2.5YR48, 10-20% ; Light medium clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, subangular platy, reoriented, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.5); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

DLR1060:B HORIZON DISPERSES IN WATER;

Site Notes

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Laboratory Test Results:

[illegible]

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 - 0.05		1.2B		0.019A	0.06A	0.422A			42A	42	9	7
0.05 - 0.2		0.4B							42A	45	6	7
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.64				0.016A		1.84A			14A	30	8	47

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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
15D2_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
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)
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method