

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** T587 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	17/08/93	Elevation:	360 metres
Map Ref.:	Sheet No. : 8058 GPS	Rainfall:	No Data
Northing/Long.:	7791058 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	359470 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:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Fan	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Petroferric Yellow Kandosol Thin Non-gravelly Loamy Clay-loamy Deep	Principal Profile Form:	Gn2.22
ASC Confidence:	Great Soil Group:	Yellow earth

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, Very sparse. *Species includes - Aristida species, Unknown species, Unknown
species Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Petalostigma pubescens, Erythroxylon australe

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus melanophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.04 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0); Few, fine (1-2mm) roots; Clear change to -
	0.04 - 0.11 m	Brown (10YR5/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.08); Few, fine (1-2mm) roots; Diffuse change to -
B1	0.11 - 0.26 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 0.2); Few, fine (1-2mm) roots; Diffuse change to -
B21	0.26 - 0.47 m	Light red (2.5YR6/6-Moist); Mottles, 10YR66, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 0.4); Few, very fine (0-1mm) roots; Diffuse change to -
B22c	0.47 - 0.66 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Diffuse change to -
	0.66 - 0.95 m	Light yellowish brown (10YR6/4-Moist); ; Clay loam; Massive grade of structure; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.9); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Kaylene Site 20

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				CMol (+)/kg				%
0 - 0.04	5.2C 6.9A	0.03A	1.8B	0.77	0.3	0.04				
0.04 - 0.11	4.9C 6.9A	0.03A								
0.11 - 0.26	4.7C 6.3A	0.03A								
0.26 - 0.47	5.4C 6.4A	0.02A	1.9B	1.2	0.04	0.04				
0.47 - 0.66	5.8C 6.4A	0.02A								
0.66 - 0.95	5.9C 6.3A	0.02A	1.8B	1.3	0.04	0.08				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04		0.53A		0.02A	0.02A	0.24A			48A	30	5	17
0.04 - 0.11												
0.11 - 0.26												
0.26 - 0.47		0.33A		0.018A	0.01A	0.26A			39A	14	2	45
0.47 - 0.66												
0.66 - 0.95				0.023A		0.26A			40A	12	3	45

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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 (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
17A1	Total potassium - X-ray fluorescence
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
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