Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **T588** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 17/08/93
Map Ref.: Sheet No. : 8058 GPS
Northing/Long.: 7798313 AMG zone: 55
Easting/Lat.: 376309 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Morph. Type: Lower-slope
Elem. Type: Fan
Slope: 2 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Ferric Eutrophic Brown Chromosol Very thick Slightly gravelly Sandy Clayey Very deep

ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy5.81
Great Soil Group: Lateritic podzolic soil

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Eriachne species, Chrysopogon fallax, Aristida

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus crebra, Petalostigma pubescens, Eremophila mitchellii

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Single grain grade of structure; Smooth-ped fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear change to -
A12j	0.08 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.15); Few, fine (1-2mm) roots; Diffuse change to -
A21e	0.2 - 0.44 m	Light yellowish brown (10YR6/4-Moist); ; Sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; 2-10%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.4); Few, fine (1-2mm) roots; Diffuse change to -
A22e	0.44 - 0.65 m	Very pale brown (10YR7/3-Moist); ; Clayey sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; 10-20%, fine gravelly, 2-6mm, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.5); Few, very fine (0-1mm) roots; Abrupt change to -
B22c	0.65 - 0.92 m	Yellowish brown (10YR5/4-Moist); Mottles, 10YR66, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Clay loam, sandy (Heavy); Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, dispersed, Quartz, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.8); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

Kaylene Site 21

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							%
0 - 0.08	5.1C 7.1A	0.06A	1.5B	0.44	0.16	0.03				
0.08 - 0.2	5.3C 7.5A	0.05A								
0.2 - 0.44	5.1C 7.7A	0.04A								
0.44 - 0.65	5.3C 7.6A	0.03A	0.83B	0.42	0.18	0.04				
0.65 - 0.92	5.5C 7.1A	0.03A	2B	1.3	0.3	0.05				

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		0.35A		0.016A	0.01A	1.6A			64A	26	4	6
0.08 - 0.2												
0.2 - 0.44												
0.44 - 0.65		0.24A		0.016A	0.01A	1.63A			56A	30	5	9
0.65 - 0.92		0.19A		0.19A	0.01A	1.46A			53A	19	6	21

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 - 0.08									
0.08 - 0.2									
0.2 - 0.44									
0.44 - 0.65									
0.65 - 0.92									

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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