Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **T586** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	18/08/93	**Elevation:**	390 metres
Map Ref.:	Sheet No. : 8058 GPS	**Rainfall:**	No Data
Northing/Long.:	7792002 AMG zone: 55	**Runoff:**	No Data
Easting/Lat.:	351759 Datum: AGD66	**Drainage:**	No Data

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Lava plain
Morph. Type:	Open depression (vale)	**Relief:**	No Data
Elem. Type:	Drainage depression	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mesotrophic Kandosolic Oxyaquic Hydrosol Medium Non-gravelly Clay-loamy Clay-loamy Very deep

Mapping Unit: N/A
Principal Profile Form: Um5.52

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Humic gley

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

Vegetation: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - Cynodon dactylon
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.07 m	Black (10YR2/1-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.05); Many, fine (1-2mm) roots;
A12	0.07 - 0.16 m	Black (2.5Y2/0-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.1); Many, fine (1-2mm) roots;
A3	0.16 - 0.34 m	Dark grey (2.5Y4/1-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.3); Many, fine (1-2mm) roots;
B1	0.34 - 0.57 m	Grey (10YR5/1-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.5); Few, very fine (0-1mm) roots;
B21	0.57 - 0.88 m	Dark grey (10YR4/1-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.8); Few, very fine (0-1mm) roots;
B22	0.88 - 1.23 m	Light grey (10YR7/1-Moist); ; Massive grade of structure; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 1.2); Few, very fine (0-1mm) roots;
	1.23 - 1.44 m	Light grey (10YR7/1-Moist); ; Massive grade of structure; Earthy fabric; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 1.4); Few, very fine (0-1mm) roots;

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							%
0 - 0.07	9.3A	1.1A								
0.07 - 0.16	7.7C	0.41A								
	8.5A									
0.16 - 0.34	7.4C	0.17A								
	7.9A									
0.34 - 0.57	7.2C	0.07A								
	7.3A									
0.57 - 0.88	7.5A	0.06A								
0.88 - 1.23	7.1C	0.04A								
	7.4A									
1.23 - 1.44	7.2C	0.03A	1.5E	2	0.2	0.09		8B		1.13
	7.5A									

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 - 0.07		3.8A		0.062A	0.61A	0.25A			5A	9	38	48
0.07 - 0.16												
0.16 - 0.34												
0.34 - 0.57												
0.57 - 0.88		0.7A		0.01A	0.04A	0.08A			0A	9	43	48
0.88 - 1.23												
1.23 - 1.44				0.008A		0.04A			0A	7	36	56

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 - 0.07										
0.07 - 0.16										
0.16 - 0.34										
0.34 - 0.57										
0.57 - 0.88										
0.88 - 1.23										
1.23 - 1.44										

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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