Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **67** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	25/07/90	**Elevation:**	280 metres
Map Ref.:	Sheet No. : 8158 GPS	**Rainfall:**	No Data
Northing/Long.:	7802500 AMG zone: 55	**Runoff:**	No runoff
Easting/Lat.:	395745 Datum: AGD66	**Drainage:**	Well drained

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:**	Plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Endohypersodic Self-Mulching Grey Vertosol Non-gravelly Medium fine Very fine Very deep

Mapping Unit: N/A
Principal Profile Form: Ug5.24

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Grey clay

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Sporobolus species, Chloris gayana
Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Terminalia oblongata
Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Acacia cambagei

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

A1	0 - 0.08 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.2 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.08 - 1.1 m	Dark grey (10YR4/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Common, medium (2-5mm) roots; Gradual, Smooth change to -
B22	1.1 - 1.6 m	Grey (10YR5/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 1.2); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B23	1.6 - 2.1 m	Light grey (10YR7/1-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 4.5 (Raupach, 1.8);

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 - 0.08	6.7A		18B	7	0.61	0.38				
0.08 - 1.1	8.3A		11.8J	8.6	0.3	6.8		25.7I		26.46
1.1 - 1.6	6A		11B	10	0.18	7.4		27B		27.41
			11E	9.3	0.18	5.2				19.26
1.6 - 2.1	5.3A		9.5J	9.9	0.2	4.5		26.4I		17.05

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												
0.08 - 1.1												
1.1 - 1.6												
1.6 - 2.1												

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 - 1.1									
1.1 - 1.6									
1.6 - 2.1									

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
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
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)
4A1	pH of 1:5 soil/water suspension