Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **73** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	26/07/90	**Elevation:**	335 metres
Map Ref.:	Sheet No. : 8057 GPS	**Rainfall:**	No Data
Northing/Long.:	7746912 AMG zone: 55	**Runoff:**	No runoff
Easting/Lat.:	360556 Datum: AGD66	**Drainage:**	Imperfectly 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:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	1 %	**Aspect:**	30 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mesotrophic Mottled-Mesonatric Grey Sodosol Very thick Non-gravelly Sandy Clay-loamy Very deep

Mapping Unit: N/A

Principal Profile Form: Dy3.43

ASC Confidence: Analytical data are incomplete but reasonable confidence.

Great Soil Group: Solodic soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, <0.25m, Mid-dense. *Species includes - Heteropogon contortus, Chrysopogon fallax

Mid Strata - Tree, 3.01-6m, Isolated clumps. *Species includes - Eucalyptus tereticornis, Eucalyptus platyphylla, Eucalyptus brownii

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus tereticornis, Eucalyptus platyphylla, Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Weak grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, medium (2-5mm) roots; Gradual, Smooth change to -
A2e	0.1 - 0.8 m	Very pale brown (10YR7/3-Moist); Biological mixing, 7.5YR34, 2-10% , 5-15mm, Distinct; Biological mixing, 2-10% ; Sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Abrupt, Tongued change to -
B21	0.8 - 1 m	Pale brown (10YR6/3-Moist); Biological mixing, 7.5YR34, 20-50% , 5-15mm, Distinct; Biological mixing, 20-50% ; Sandy clay loam; Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 0.9); Abrupt, Smooth change to -
B22	1 - 1.2 m	Pale brown (10YR6/3-Moist); Biological mixing, 7.5YR34, 10-20% , 5-15mm, Distinct; Biological mixing, 10-20% ; Sandy clay loam (Light); Strong grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 1.2); Abrupt, Smooth change to -
D	1.2 - 1.8 m	Light brown (7.5YR6/4-Moist); ; Coarse sand; Single grain grade of structure; Earthy fabric; Wet; Loose consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.1A		1.9B	0.79	0.65	0.07				
0.1 - 0.8	7.1A									
0.8 - 1	9A		3.1J	1.7	0.3	1.6		7.2I		22.22
1 - 1.2	9.6A		6.3B	2.5	0.11	3.5		11B		31.82
			5.1E	3.1	0.1	3.5				
1.2 - 1.8	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 - 0.1												
0.1 - 0.8												
0.8 - 1												
1 - 1.2												
1.2 - 1.8												

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 - 0.1									
0.1 - 0.8									
0.8 - 1									
1 - 1.2									
1.2 - 1.8									

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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