Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **163** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 19/09/90
Map Ref.: Sheet No. : 7958 GPS
Northing/Long.: 7811648 AMG zone: 55
Easting/Lat.: 327148 Datum: AGD66
Locality:
Elevation: 485 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Calcic Black Dermosol Medium Non-gravelly Clayey Not recorded Very shallow
Mapping Unit: N/A
Principal Profile Form: Ug5.13

ASC Confidence:
No analytical data and little or no knowledge of this soil.
Great Soil Group: Black earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Dichanthium sericeum, Heteropogon contortus, Ophiurous exaltatus Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Melaleuca bracteata

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Melaleuca bracteata

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, angular, Basalt

Profile Morphology

A1	0 - 0.18 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
Ck	0.18 - 0.7 m	Yellowish brown (10YR5/8-Moist); Substrate influence, 5YR46, 20-50% , 5-15mm, Prominent; Substrate influence, 20-50% ; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Concretions; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Veins; , Gypseous, , ; Field pH 9 (Raupach, 0.3);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
Project Code: DLR **Site ID:** 163 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

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 - 0.18	8A		17B	15	0.62	0.2		41.3I		0.48
			16.3J	26.7	0.4	0.3				0.73
0.18 - 0.7	8.3A									

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 - 0.18												
0.18 - 0.7												

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 - 0.18									
0.18 - 0.7									

Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **163** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

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
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