Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:174Observation ID:1Agency Name:QLD Department of Primary Industries

Site Information

Desc. E Date De Map Re Northin Easting	esc.: ef.: ng/Long.: ŋ/Lat.:	n M. DeCorte 08/10/90 Sheet No. : 7959 GPS 7855766 AMG zone: 55 326280 Datum: AGD66		Locality: Elevation: Rainfall: Runoff: Drainage:		405 metres No Data Rapid Imperfectly drained		ed		
<u>Geology</u> ExposureType: Geol. Ref.:		No D No D		Conf. Sub. is Parent. Mat.: Substrate Material:			No Data Undisturbed soil core, Siltstone			
Land F Rel/Slo Morph. Elem. T Slope:	pe Class: Type:	Undu Flat Plain 1 %	ulating rises 9-30m 3-10%	Pattern Type: Relief: Slope Category: Aspect:		Rises No Data Level 120 degre	ees			
<u>Surfac</u>	e Soil Co	onditio	on (dry): Hardsetting, Surf	ace crust						
Erosio		_								
Soil Classification										
Australian Soil Classific Sodic Eutrophic Brown Ch Clayey Moderately deep			cation: Chromosol Thin Non-gravelly S	Silty		lapping Unit: rincipal Profile Form:		N/A Db1.33		
	onfidence				Great Soil Group:			No suitable group		
	,		vailable but confidence is fair.		av boofo	d onimolo				
Vegeta				0 0	•		des - Sn	orobolus species, Enteropogon species		
10901			id Strata - Tree, 1.01-3m, Isol							
	-		all Strata - Tree, 6.01-12m, Mi	•	pecies in	cludes - Eu	ucalyptus	s brownii		
-		_	ments: No surface coarse f	fragments						
	Morpho		Dark brown (10VP2/2 Maint		loom: M		do of otr	ustura: Earthy fabric: Many (> E		
AIJ	A1j 0 - 0.03 m Dark brown (10YR3/3-Moist); ; Silty clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -							ice; , Calcareous, , ; ,		
A2j	0.03 - 0.2	2 m Brown (10YR4/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, very fine (0- 1mm) roots; Abrupt, Smooth change to -					res, Dry; Very firm			
B21	0.2 - 0.4	m Dark yellowish brown (10YR3/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Smooth change to -								
B22	0.4 - 0.55	m Strong brown (7.5YR4/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -								
B3	0.55 - 0.7	⁷ m Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6); Clear, Smooth change to -								
С	0.7 - 1.1	m	; , Calcareous, , ; , Gypseou	ıs, , ; Field pł	H 9 (Rau	pach, 1.1)	;			
Morphological Notes										
Obser	vation No	otes								
Cite NI	- 1									

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC			e Cations K	Ex Na	changeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca i	Иg	ĸ	Cmol (+)/k				%
0.03 - 0.2 0.2 - 0.4 0.55 - 0.7 0.7 - 1.1	6.1A 6.6A 7.5A 8.9A		5.7B 8.9J	4 9.4	0.49 0.2	0.16 0.5		19.2I		2.60
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Partic GV C		Analysis Silt Clay
m	%	%	mg/kg	г %	%	%	Mg/m3	GV C	%	Sint Clay
0.03 - 0.2 0.2 - 0.4 0.55 - 0.7 0.7 - 1.1										
Depth	COLE		Gravimetric/Volumetric Water Contents K sat					K unsat		
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar ı	nm/h	mm/h
0.03 - 0.2 0.2 - 0.4										

0.2 - 0.4 0.55 - 0.7 0.7 - 1.1

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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
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