Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD

Project Code: DLR Site ID: 161 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.: 19/09/90 Elevation: 3256 metres Sheet No.: 8058 GPS Map Ref.: Rainfall: No Data Northing/Long.: 7808972 AMG zone: 55 Runoff: No runoff 374904 Datum: AGD66 Well drained Easting/Lat.: Drainage:

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%</th>Pattern Type:PlainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:1 %Aspect:0 degrees

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

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEndocalcareous Self-Mulching Black Vertosol GravellyPrincipal Profile Form:Uq5.13

Medium fine Very fine Deep

ASC Confidence: Great Soil Group: Black earth

All necessary analytical data are available.

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

Vegetation: Low Strata - , , . *Species includes - Sporobolus species, Bothriochloa decipiens

Mid Strata - Tree, 1.01-3m, Very sparse. *Species includes - Acacia species, Acacia farnesiana

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Acacia cana

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, rounded, Quartz

Profile Morphology

A1 0 - 0.05 m Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Granular;

Smooth-ped fabric; Coarse, (10 - 20) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.05); Few,

very fine (0-1mm) roots; Clear, Smooth change to -

B21 0.05 - 0.5 m Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular

blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 20-50%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, prominent; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Few, very

fine (0-1mm) roots; Clear, Smooth change to -

B22k 0.5 - 1 m Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Angular

blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, prominent; Few (2 - 10 %),

Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Few, very fine

(0-1mm) roots; Clear, Smooth change to -

B3 1 - 1.1 m ; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

	<u>Laboratory rest results.</u>									
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	- Ju	9	.,	Cmol (%
0 - 0.05 0.05 - 0.5 0.5 - 1 1 - 1.1	7.9A 8.7A 8.5A 8.6A		17B 13.8J 7.6B	12 12.8 9.4	0.52 0.2 0.26	0.64 2.3 6.3		30.4I 18B		7.57 35.00
1 - 1.1	0.0A		6E	8.3	0.22	4.1		100		22.78
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	l Bulk Density Mg/m3	Partic GV C	cle Size S FS	Analysis Silt Clay
0 - 0.05 0.05 - 0.5 0.5 - 1 1 - 1.1							٠			
Depth m	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	olumetric V 0.5 Bar 'g - m3/m	1 Bar		Bar	K sat mm/h	K unsat

0 - 0.05 0.05 - 0.5 0.5 - 1

1 - 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
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