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

Project Code: DLR Site ID: 94 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.: Elevation: 08/08/90 225 metres Map Ref.: Sheet No.: 8156 GPS Rainfall: No Data Northing/Long.: 7684382 AMG zone: 55 Runoff: No runoff Easting/Lat.: Poorly drained 413505 Datum: AGD66 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/AEndohypersodic Epipedal Grey Vertosol Non-gravelly MediumPrincipal Profile Form:Ug5.24

fine Very fine Very deep

ASC Confidence: Great Soil Group: Grey clay

No analytical data are available but confidence is fair.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa ewartiana, Sporobolus caroli

Mid Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Acacia argyrodendron, Acacia cambagei Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Acacia argyrodendron, Acacia cambagei

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.05 m Grey (10YR6/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular;

Smooth-ped fabric; Medium, (5 - 10) mm crack; Moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.7 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change

to -

B21 0.05 - 0.8 m Grey (10YR6/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular

blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Wet; Very firm consistence;

Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.6); Common, very fine (0-1mm) roots;

Clear, Smooth change to -

B22 0.8 - 1.9 m Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm,

Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, prominent; Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach,

1.2);

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 94 Observation ID: 1

Project Name: Project Code: Agency Name: DLR Site ID: 94
QLD Department of Primary Industries

Laboratory Test Results:

10001111	, , , , , , , , , , , , , , , , , , , 								
рН	1:5 EC						CEC	ECEC	ESP
	dS/m		9						%
7.3A 8.9A 8A		14B 11.8J 12B 12E	9.6 9.5 12 11	0.8 0.6 0.89 0.93	0.28 1.7 7.1 4.5		28.2I 27B		6.03 26.30 16.67
CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		Size FS	Analysis Silt Clay
%	%	mg/kg	%	%	%	Mg/m3		%	
COLE		Grav	imetric/Vo	olumetric V	Vater Cont	tents	к	sat	K unsat
	Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15		m/h	mm/h
	7.3A 8.9A 8A CaCO3	pH 1:5 EC dS/m 7.3A 8.9A 8A CaCO3 Organic C %	pH 1:5 EC Ca Ca dS/m 7.3A 14B 8.9A 11.8J 8A 12B 12E CaCO3 Organic Avail. C P mg/kg COLE Grav	PH 1:5 EC Ca My dS/m 7.3A 14B 9.6 8.9A 11.8J 9.5 8A 12B 12 12E 11 CaCO3 Organic Avail. Total C P P P mg/kg % COLE Gravimetric/Vo Sat. 0.05 Bar 0.1 Bar decided as a constant of the consta	pH 1:5 EC dS/m Exchangeable Cations Mg Cations K 7.3A 14B 9.6 0.8 8.9A 11.8J 9.5 0.6 8A 12B 12 0.89 12E 11 0.93 CaCO3 Organic C P P P N mg/kg Avail. Total Total Total N mg/kg % % %	PH 1:5 EC Exchangeable Cations R Ca Mg K Na Cmol (+) 7.3A 14B 9.6 0.8 0.28 8.9A 11.8J 9.5 0.6 1.7 8A 12B 12 0.89 7.1 12E 11 0.93 4.5 CaCO3 Organic C P P N K mg/kg % % % COLE Gravimetric/Volumetric Water Control	PH 1:5 EC Exchangeable Cations Exchangeable And Acidity Racidity Cmol (+)/kg 7.3A 14B 9.6 0.8 0.28 8.9A 11.8J 9.5 0.6 1.7 8A 12B 12 0.89 7.1 12E 11 0.93 4.5 CaCO3 Organic CaCO3 Organic C P P P N K Density mg/kg % % % % Mg/m3 COLE COLE Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15	PH	PH

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 94 Observation ID: 1

DLR Site ID: 94
QLD Department of Primary Industries

Project Name: Project Code: Agency Name:

Laboratory Analyses Completed for this profile

10B 15A2_CA	Extractable sulfur(mg/kg) - Phosphate extractable sulfur Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K 15A2_MG 15A2_NA 15C1_CA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC 15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts 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 15F1_K 15F1_MG 15F1_NA 15F3 15N1 4A1	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ Exchangeable sodium percentage (ESP) pH of 1:5 soil/water suspension