

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 32 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	28/06/90	Elevation:	180 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7744246 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	498987 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, Granodiorite

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Pedal Calcic Calcarosol Non-gravelly Clayey Medium Clayey Shallow		Principal Profile Form:	Uf6.31
ASC Confidence:		Great Soil Group:	No suitable

All necessary analytical data are available.

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

Vegetation: Low Strata - , , . *Species includes - Bothriochloa pertusa, Stylosanthes scabra, Bothriochloa bladhii
Mid Strata - , , . *Species includes - Eucalyptus erythrophloia, Acacia farnesiana
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra,

Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.15 m	Dark yellowish brown (10YR3/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.8 (Raupach, 0.05); Clear, Smooth change to -
B2k	0.15 - 0.3 m	Dark yellowish brown (10YR3/4-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 0.3); Clear, Smooth change to -
Ck	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, subangular, dispersed, Granodiorite, coarse fragments; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 0.6); Clear, Smooth change to -
2C	0.6 - 0.7 m	; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.15	8.3A		22B	3	0.51	0.08			
0.15 - 0.3	9.2A		23.2J	1.4	0.2	0.2	21.8I		0.92
0.3 - 0.6	9.2A		16E	1.8	0.11	0.24	17B		1.41

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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