

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 30 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	28/06/90	Elevation:	170 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7740250 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	496672 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:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Pedal Hypercalcic Calcarosol Non-gravelly Clayey Clayey Shallow		Principal Profile Form:	Uf6.34
ASC Confidence:		Great Soil Group:	No suitable

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - , , . *Species includes - Bothriochloa pertusa, Bothriochloa bladhii, Chrysopogon fallax
Mid Strata - , , . *Species includes - Eucalyptus erythrophloia
Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra,

Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.15 m	Dark brown (10YR3/3-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Weak consistence; Field pH 7.8 (Raupach, 0.05); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.15 - 0.3 m	Dark yellowish brown (10YR3/4-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Weak consistence; 2-10%, coarse gravelly, 20-60mm, angular, dispersed, Igneous rock (unidentified), coarse fragments; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Smooth change to -
Ck	0.3 - 1 m	Yellowish brown (10YR5/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, angular, dispersed, Igneous rock (unidentified), coarse fragments; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.6);
2Ck	1 - 1.05 m	; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 1.05);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.15	8.6A		24B	3.1	0.64	0.05			
0.15 - 0.3	9.1A		20E	1.8	0.18	0.63		20B	3.15
			23.7J	1.5	0.1	0.3		22.5I	2.80
									1.50
									1.33
0.3 - 1	9.5A								
1 - 1.05	9.7A		32B	2	0.06	0.18			

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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