

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 4 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	19/06/90	Elevation:	290 metres
Map Ref.:	Sheet No. : 8258 GPS	Rainfall:	No Data
Northing/Long.:	7796780 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	467442 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 rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Crest	Relief:	No Data
Elem. Type:	Hillcrest	Slope Category:	Very gently sloped
Slope:	2.5 %	Aspect:	110 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol Medium Non-gravelly Sandy Clayey Moderately deep		Principal Profile Form:	Dr2.12
ASC Confidence:		Great Soil Group:	Non-calci brown soil
Analytical data are incomplete but reasonable confidence.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - , , . *Species includes - Heteropogon contortus, Bothriochloa pertusa, Digitaria species
Mid Strata - , , . *Species includes - Eucalyptus erythrophloia, Acacia species
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Eucalyptus

tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.2 m	Brown (10YR4/3-Moist); ; Loamy coarse sand (Heavy); Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Fine, (0 - 5) mm crack; Many (>5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Weak consistence; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Sharp, Smooth change to -
B21t	0.2 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm ²) Very fine (0.075-1mm) macropores, Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Field pH 6.8 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to -
B3	0.5 - 0.72 m	Strong brown (7.5YR4/6-Moist); ; Coarse sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Very firm consistence; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
C	0.72 - 0.9 m	Strong brown (7.5YR5/6-Moist); ; Coarse sandy clay loam; Massive grade of structure; Moist; Weak consistence; 50-90%, fine gravelly, 2-6mm, angular, dispersed, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.8);

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 - 0.2	7.9A		2.8B	1	0.34	0.04			
0.2 - 0.5	8.3A		11.1J	2.7	0.2	0.1		15.6I	0.64
0.5 - 0.72	7.9A		11B	2.7	0.1	0.22			
0.72 - 0.9	8.6A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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