

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 128 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 04/09/90	Elevation: 465 metres
Map Ref.: Sheet No. : 7957 GPS	Rainfall: No Data
Northing/Long.: 7734413 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 323416 Datum: AGD66	Drainage: Well drained

Geology

ExposureType: No Data	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: Undisturbed soil core, Granodiorite

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Crest	Relief: No Data
Elem. Type: Hillslope	Slope Category: Very gently sloped
Slope: 3 %	Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Haplic Eutrophic Red Chromosol Medium Very gravelly Clay-loamy 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: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Phynchelytrum repens
 Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Eucalyptus quadricostata, Bursaria incana, Acacia
 Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus quadricostata, Eucalyptus erythrophloia, Eucalyptus crebra

Surface Coarse Fragments: 50-90%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam; Single grain grade of structure; Earthy fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A3	0.08 - 0.13 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 50-90%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.13 - 0.65 m	Red (2.5YR4/8-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.65 - 0.8 m	Red (10R4/8-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to -
B/C	0.8 - 0.98 m	Red (2.5YR4/8-Moist); ; Medium clay; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.9); Abrupt, Smooth change to -
C	0.98 - 1.18 m	; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to -
D	1.18 - 1.25 m	; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.25);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	6.5A		4.3B	1.4	0.52	0.03				
0.13 - 0.65	6.7A		5.9J	1.9	0.4	0.1		9.6I		1.04
0.8 - 0.98	7.2A		6.4B	2.3	0.3	0.14				
1.18 - 1.25	7.7A		13B	4.3	0.18	0.21				

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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