

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 27 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	28/06/90	Elevation:	200 metres
Map Ref.:	Sheet No. : 8356 GPS	Rainfall:	No Data
Northing/Long.:	7726414 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	510861 Datum: AGD66	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	100 degrees

Surface Soil Condition (dry): Cracking, Other

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous Self-Mulching Black Vertosol Very gravelly	Principal Profile Form:	Ug5.16
Medium fine Very fine Very deep	Great Soil Group:	Black earth

ASC Confidence:

All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Low Strata - , , . *Species includes - Bothriochloa pertusa
 Mid Strata - , , . *Species includes - Acacia species, Terminalia oblongata, Eremophila mitchellii
 Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Acacia harpophylla

Surface Coarse Fragments: 50-90%, coarse gravelly, 20-60mm, angular, Igneous rock (unidentified)

Profile Morphology

A1	0 - 0.02 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Igneous rock (unidentified), coarse fragments; Soil matrix is Very highly calcareous; Clear, Smooth change to -
B1	0.02 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, subangular, dispersed, Igneous rock (unidentified), coarse fragments; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 0.05); Gradual, Smooth change to -
B21k	0.25 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 0.3); Field pH 8.8 (Raupach, 0.6); Clear, Smooth
B22yk	0.6 - 1.1 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Soil matrix is Very highly calcareous; Clear, Smooth change to -
B3k	1.1 - 1.5 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, dispersed, Igneous rock (unidentified), coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Concretions; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.8 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.02	9.7A								
0.02 - 0.25	9.7A		2.7E	2.3	0.08	1.9	8B		23.75
0.25 - 0.6	8.9A		22.1J	6.6	0.6	3.9	30.4I		12.83
0.6 - 1.1	8.9A		93E	23	3.3	5.7			
1.1 - 1.5	9.1A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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