

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 354 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 01/08/91 | Elevation: | 300 metres |
| Map Ref.: | Sheet No. : 8157 GPS | Rainfall: | No Data |
| Northing/Long.: | 7741510 AMG zone: 55 | Runoff: | Very slow |
| Easting/Lat.: | 408307 Datum: AGD66 | Drainage: | Moderately well drained |

Geology

| | | | |
|-----------------------|---------|------------------------------------|---------|
| Exposure Type: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|---------------------|------------------------|-----------|
| Rel/Slope Class: | Level plain <9m <1% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | 0 degrees |

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|--------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Eutrophic Mottled-Mesonatric Brown Sodosol Thick Non-gravelly Clay-loamy Clayey Deep | | Principal Profile Form: | Db1.43 |
| ASC Confidence: | | Great Soil Group: | Solodic soil |

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Cenchrus ciliaris, Sporobolus species
Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Lysiphillum carronii, Eremophila mitchellii
Tall Strata - Tree, 6.01-12m, Isolated clumps. *Species includes - Eucalyptus cambageana, Eucalyptus brownii

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

| | | |
|------|---------------|--|
| A11 | 0 - 0.22 m | Dark brown (7.5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear, Smooth change to - |
| A12 | 0.22 - 0.25 m | Dark brown (7.5YR3/3-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to - |
| A21 | 0.25 - 0.41 m | Brown (7.5YR4/4-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.3); Clear, Smooth change to - |
| A22e | 0.41 - 0.42 m | Brown (7.5YR5/3-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to - |
| B1 | 0.42 - 0.72 m | Strong brown (7.5YR4/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Clear, Smooth |
| B21 | 0.72 - 1.1 m | Brown (7.5YR4/4-Moist); Mottles, 10YR5/3, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Light clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 9.9 (Raupach, 0.9); |

Morphological Notes

Observation Notes

Site 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 - 0.22 | 6.1A | | | | | | | | | |
| 0.25 - 0.41 | 7.3A | | | | | | | | | |
| 0.42 - 0.71 | 8.1A | | | | | | | | | |
| 0.72 - 1.1 | 8.9A | | 5.1J | 8 | 0 | 3.1 | | 16.4I | | 18.90 |

[illegible][illegible]

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Laboratory Analyses Completed for this profile

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| 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 |