

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 118 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|--------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 23/08/90 | Elevation: | 500 metres |
| Map Ref.: | Sheet No. : 7860 GPS | Rainfall: | No Data |
| Northing/Long.: | 7928766 AMG zone: 55 | Runoff: | No runoff |
| Easting/Lat.: | 266700 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, Basalt |

Land Form

| | | | |
|-------------------------|--------------------------------------|------------------------|-------------|
| Rel/Slope Class: | Gently undulating plains <9m 1-3% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | No Data |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 1 % | Aspect: | 330 degrees |

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

| | | |
|--|--------------------------------|-----------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Endocalcareous Self-Mulching Grey Vertosol Gravelly Medium fine Very fine Very deep | Principal Profile Form: | Ug5.28 |
| ASC Confidence: | Great Soil Group: | Grey clay |

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Ophiurus exaltatus, Bothriochloa
ewartiana,
Heteropogon contortus Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Erythroxylon australe
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Eucalyptus brownii, Eucalyptus crebra

Surface Coarse Fragments: 10-20%, stony, 200-600mm, subrounded, Basalt

Profile Morphology

| | | |
|-----|--------------|--|
| A1 | 0 - 0.08 m | Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Very firm consistence; Field pH 6.5 (Raupach, 0.05); Abundant, medium (2-5mm) roots; Clear, Smooth change to - |
| B21 | 0.08 - 1 m | Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated; Field pH 7.5 (Raupach, 0.3); Many, medium (2-5mm) roots; Diffuse, Smooth change to - |
| B22 | 1 - 1.45 m | Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9 (Raupach, 1.2); Common, coarse (>5mm) roots; Diffuse, Smooth change to - |
| B3 | 1.45 - 1.8 m | Grey (2.5Y5/1-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Basalt, coarse fragments; Many cutans, >50% of ped faces or walls coated; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9 (Raupach, 1.5); |

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 - 0.08 | 6.9A | | 15B | 17 | 1.8 | 0.21 | | | |
| 0.08 - 1 | 7.8A | | 17.6J | 16.2 | 0.3 | 1.4 | | 37.4I | 3.74 |
| 1 - 1.45 | 8.6A | | 21B | 23 | 0.33 | 3.1 | | 44B | 7.05 |
| | | | 18E | 24 | 0.35 | 3 | | | 6.82 |
| 1.45 - 1.8 | 8.5A | | | | | | | | |

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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 |
| 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 |