

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1754 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|---------|
| Desc. By: | Barry, Earl | Locality: | |
| Date Desc.: | 13/05/93 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 8055 GPS | Rainfall: | No Data |
| Northing/Long.: | 7659776 AMG zone: 55 | Runoff: | No Data |
| Easting/Lat.: | 396064 Datum: AGD66 | Drainage: | No Data |

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: | No Data |

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

Erosion:

Soil Classification

| | | |
|---|--------------------------------|-----------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Mottled Self-Mulching Brown Vertosol Non-gravelly Medium fine Medium fine Very deep | Principal Profile Form: | Ug5.28 |
| ASC Confidence: | Great Soil Group: | Grey clay |
| Confidence level not specified | | |

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Paspalidium species, Sporobolus caroli,
Dichanthium species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia harpophylla
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Casuarina cristata, Acacia harpophylla

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, subangular, Limestone

Profile Morphology

| | | |
|-----|--------------|---|
| A11 | 0 - 0.05 m | Greyish brown (2.5Y5/2-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Granular; Rough-ped fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.03); |
| B21 | 0.05 - 1.2 m | Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 9.9 (Raupach, 0.2); |
| B22 | 1.2 - 1.4 m | Greyish brown (2.5Y5/2-Moist); Mottles, 2.5Y5/3, 20-50% , 0-5mm, Faint; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), , , , Calcareous, , ; , Gypseous, , ; Field pH 9.9 (Raupach, 1.4); |

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 | | | % |
| | | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt | Clay |
|-------|-------|-----------|----------|---------|---------|---------|--------------|-------------|---------|-------------|------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| | | | | | | | | | | | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat | |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| | | | | | g/g - | m3/m3 | | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile