

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 376 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|----------------------|-------------------|-------------------------|
| Desc. By: | M. DeCorte | Locality: | |
| Date Desc.: | 13/08/91 | Elevation: | 260 metres |
| Map Ref.: | Sheet No. : 8257 GPS | Rainfall: | No Data |
| Northing/Long.: | 7740596 AMG zone: 55 | Runoff: | Rapid |
| Easting/Lat.: | 474004 Datum: AGD66 | Drainage: | Moderately well drained |

Geology

| | | | |
|----------------------|---------|------------------------------------|---------------------------------------|
| ExposureType: | No Data | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Existing vertical exposure, Siltstone |

Land Form

| | | | |
|-------------------------|---------------------------------------|------------------------|-----------------|
| Rel/Slope Class: | Gently undulating rises 9-30m 1-3% | Pattern Type: | Rises |
| Morph. Type: | Lower-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Gently inclined |
| Slope: | 3 % | Aspect: | No Data |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | |
|--|--------------------------------|--------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Eutrophic Mesonatric Brown Sodosol Thick Very gravelly Silty Clayey Moderately deep | Principal Profile Form: | Dy3.43 |
| ASC Confidence: | Great Soil Group: | Solodic soil |

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - None recorded
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 50-90%, medium gravelly, 6-20mm, angular, Siltstone

Profile Morphology

| | | |
|-----|---------------|---|
| A1 | 0 - 0.15 m | Dark yellowish brown (10YR4/4-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Clear, Smooth change to - |
| A2 | 0.15 - 0.3 m | Yellowish brown (10YR5/4-Moist); ; Silty loam; Massive grade of structure; Earthy fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Abrupt, Smooth change |
| B1 | 0.3 - 0.42 m | Yellowish brown (10YR5/4-Moist); Mottles, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , , , Gypseous, , , Gradual, Smooth change to - |
| B21 | 0.42 - 0.75 m | Yellowish brown (10YR5/6-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 9.5 (Raupach, 0.6); Clear, Smooth change to - |
| C | 0.75 - 0.9 m | ; , Calcareous, , , , Gypseous, , , |

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 | | | | % |
| 0.42 - 0.75 | 8.7A | | 0.8J | 4.4 | 0.2 | 1.7 | | 6.5I | | 26.15 |

| 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 | | | % | | |
| 0.42 - 0.75 | | | | | | | | | | | | |

| 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 | mm/h | mm/h |
| 0.42 - 0.75 | | | | | g/g - | m3/m3 | | | | |

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Laboratory Analyses Completed for this profile

| | |
|---------|--|
| 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 |