

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 2422 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | | | |
|------------------------|-------------------------|-------------------|-------------------------|
| Desc. By: | Rogers, Gary | Locality: | |
| Date Desc.: | 12/05/94 | Elevation: | No Data |
| Map Ref.: | Sheet No. : 8060 GPS | Rainfall: | No Data |
| Northing/Long.: | 7948028 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 362688 Datum: AGD66 | Drainage: | Moderately 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 low hills 30-90m 3-10% | Pattern Type: | Low hills |
| Morph. Type: | Ridge | Relief: | No Data |
| Elem. Type: | Hillcrest | Slope Category: | Gently inclined |
| Slope: | 8 % | Aspect: | No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | | |
|--|--------------------------------|-----------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Mottled Mesotrophic Brown Chromosol Thick Non-gravelly Clay-loamy Clayey Moderately deep | Principal Profile Form: | Gn3.21 |
| ASC Confidence: | Great Soil Group: | Xanthozem |
| No analytical data are available but confidence is fair. | | |

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

Vegetation: Low Strata - Tussock grass, 1.01-3m, Closed or dense. *Species includes - Themeda triandra, Heteropogon triticeus,

Xanthorrhoea species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Casuarina torulosa, Melaleuca species

Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Lophostemon suaveolens, Eucalyptus polycarpa, Eucalyptus grandis

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, angular,

Profile Morphology

| | | |
|-----|--------------|--|
| A11 | 0 - 0.15 m | Very dark greyish brown (10YR3/2-Moist); ; Clay loam, sandy (Light); Moderate grade of structure, 2-5 mm, Granular; Moist; 2-10%, fine gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.1); Gradual change to - |
| A12 | 0.15 - 0.3 m | Brown (10YR5/3-Moist); ; Sandy clay loam; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moist; 2-10%, medium gravelly, 6-20mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.25); |
| B21 | 0.3 - 0.45 m | Dark yellowish brown (10YR4/6-Moist); Substrate influence, 7.5YR58, 0-2% , 5-15mm, Distinct; Substrate influence, 0-2% ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; 10-20%, medium gravelly, 6-20mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.4); Gradual change to - |
| B22 | 0.45 - 0.7 m | Yellowish brown (10YR5/6-Moist); Substrate influence, 7.5YR58, 2-10% , 5-15mm, Distinct; Substrate influence, 2-10% ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; 20-50%, coarse gravelly, 20-60mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.6); Clear change to - |
| BC | 0.7 - 0.9 m | Light grey (10YR7/2-Moist); Substrate influence, 5YR58, 10-20% , 15-30mm, Prominent; Substrate influence, 10-20% ; Light clay (Light); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; 50-90%, coarse gravelly, 20-60mm, angular, Igneous rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.5 |

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | Exchangeable Acidity | | CEC | ECEC | ESP |
|-------|----|--------|----------------------|----|----------------------|-------------|-----|------|-----|
| m | | dS/m | Ca | Mg | K | Na | | | |
| | | | | | | Cmol (+)/kg | | | % |

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

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

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Laboratory Analyses Completed for this profile