**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **1982** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

## Site Information

**Desc. By:** Barry, Earl
**Date Desc.:** 07/10/93
**Map Ref.:** Sheet No. : 7858 GPS
**Northing/Long.:** 7814834 AMG zone: 55
**Easting/Lat.:** 235989 Datum: AGD66
**Locality:**
**Elevation:** No Data
**Rainfall:** No Data
**Runoff:** Moderately rapid
**Drainage:** Moderately well drained

## Geology

**ExposureType:** No Data
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Undisturbed soil core, No Data

## Land Form

**Rel/Slope Class:** Undulating rises 9-30m 3-10%
**Morph. Type:** Upper-slope
**Elem. Type:** Hillslope
**Slope:** 7 %
**Pattern Type:** Rises
**Relief:** No Data
**Slope Category:** Gently inclined
**Aspect:** No Data

## Surface Soil Condition (dry): Hardsetting

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Bleached-Mottled Eutrophic Brown Chromosol Thick Gravelly Loamy Clayey Deep
**Mapping Unit:** N/A
**Principal Profile Form:** Dy3.43
**ASC Confidence:**
No analytical data are available but confidence is fair.
**Great Soil Group:** Solodic soil

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

## Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Heteropogon contortus, Themeda triandra
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus crebra, Petalostigma pubescens
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra

## Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subangular, Quartz

## Profile Morphology

| | | |
|---|---|---|
| A11 | 0 - 0.08 m | Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.04); Clear change to - |
| A12 | 0.08 - 0.19 m | Brown (10YR5/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.15); Clear change to - |
| A13 | 0.19 - 0.3 m | Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.25); Clear change to - |
| A2e | 0.3 - 0.42 m | Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.4); Abrupt change to - |
| B21 | 0.42 - 0.6 m | Brown (10YR5/3-Moist); Mottles, 10YR46, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Light medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.5); Clear change to - |
| B22 | 0.6 - 0.9 m | Dark yellowish brown (10YR4/6-Moist); Mottles, 10YR53, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Sandy medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.8); |
| B23 | 0.9 - 1.3 m | Dark yellowish brown (10YR4/6-Moist); ; Clay loam, sandy; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.2); |

## Morphological Notes

## Observation Notes

## Site Notes

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## Laboratory Test Results:

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

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

| 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**