**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **171** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | M. DeCorte | **Locality:** | |
| **Date Desc.:** | 08/10/90 | **Elevation:** | 320 metres |
| **Map Ref.:** | Sheet No. : 8058 GPS | **Rainfall:** | No Data |
| **Northing/Long.:** | 7823852 AMG zone: 55 | **Runoff:** | Very slow |
| **Easting/Lat.:** | 370720 Datum: AGD66 | **Drainage:** | Moderately 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:** | Level plain <9m <1% | **Pattern Type:** | Plain |
| **Morph. Type:** | Flat | **Relief:** | No Data |
| **Elem. Type:** | Plain | **Slope Category:** | Level |
| **Slope:** | 1 % | **Aspect:** | 0 degrees |

**Surface Soil Condition (dry):** Hardsetting, Surface crust

**Erosion:**

## Soil Classification

**Australian Soil Classification:**
Manganic Eutrophic Red Ferrosol Medium Non-gravelly Clay-loamy Clayey Moderately deep

**Mapping Unit:** N/A
**Principal Profile Form:** Gn3.12

**ASC Confidence:**
Analytical data are incomplete but reasonable confidence.

**Great Soil Group:** Euchrozem

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Bothriochloa ewartiana, Dichanthium species

Mid Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Bursaria incana

Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** No surface coarse fragments

## Profile Morphology

| | | |
|---|---|---|
| A11 | 0 - 0.02 m | Dark yellowish brown (10YR3/4-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Platy; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to - |
| A12 | 0.02 - 0.2 m | Dark reddish brown (5YR3/3-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, very fine (0-1mm) roots; Diffuse, Smooth change to - |
| B21ct | 0.2 - 0.5 m | Dark reddish brown (5YR3/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Many, very fine (0-1mm) roots; Clear, Smooth change to - |
| B22c | 0.5 - 0.6 m | Yellowish red (5YR4/6-Moist); ; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Very many (50 - 100 %), Manganiferous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Many, very fine (0-1mm) roots; |

## 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**