**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **124** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | M. DeCorte | **Locality:** | |
| **Date Desc.:** | 03/09/90 | **Elevation:** | 410 metres |
| **Map Ref.:** | Sheet No. : 8057 GPS | **Rainfall:** | No Data |
| **Northing/Long.:** | 7782192 AMG zone: 55 | **Runoff:** | Very slow |
| **Easting/Lat.:** | 351559 Datum: AGD66 | **Drainage:** | Imperfectly 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:** | Level plain <9m <1% | **Pattern Type:** | Plain |
| **Morph. Type:** | Flat | **Relief:** | No Data |
| **Elem. Type:** | Plain | **Slope Category:** | Level |
| **Slope:** | 1 % | **Aspect:** | 130 degrees |

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

**Erosion:**

## Soil Classification

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

**Mapping Unit:** N/A
**Principal Profile Form:** Gn3.72

**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, Sparse. *Species includes - Bothriochloa ewartiana, Aristida species, Heteropogon contortus Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Eucalyptus papuana, Bursaria incana

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus papuana, Eucalyptus crebra, Bursaria incana

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

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.1 m | Dark brown (7.5YR3/3-Moist); ; Clay loam (Heavy); Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0); Common, very fine (0-1mm) roots; Clear, Smooth change to - |
| B1 | 0.1 - 0.53 m | Reddish brown (5YR4/4-Moist); ; Light medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to - |
| B2c | 0.53 - 1.6 m | Strong brown (7.5YR5/8-Moist); Mottles, 7.5YR68, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.2); Few, 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 | | | | | | | % |
| 0 - 0.1 | 7.2A | | 9.7B | 2.9 | 1.2 | 0.06 | | | | |
| 0.1 - 0.53 | 7A | | | | | | | | | |
| 0.53 - 1.6 | 7A | | 5.8B | 3.6 | 0.43 | 0.08 | | 11I | | 0.73 |
| | | | 5.5J | 2.2 | 0.6 | 0.1 | | | | 0.91 |

| 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 | | | % | | |
| 0 - 0.1 | | | | | | | | | | | | |
| 0.1 - 0.53 | | | | | | | | | | | | |
| 0.53 - 1.6 | | | | | | | | | | | | |

| 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 |
| 0 - 0.1 | | | | | | | | | | |
| 0.1 - 0.53 | | | | | | | | | | |
| 0.53 - 1.6 | | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 10B | Extractable sulfur(mg/kg) - Phosphate extractable sulfur |
| 15A2_CA | Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 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 |