

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1328                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Site Information**

|                        |                         |                   |                         |
|------------------------|-------------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | Rogers, Gary            | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 05/08/92                | <b>Elevation:</b> | No Data                 |
| <b>Map Ref.:</b>       | Sheet No. : 8059    GPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 7897871 AMG zone: 55    | <b>Runoff:</b>    | Moderately rapid        |
| <b>Easting/Lat.:</b>   | 364287    Datum: AGD66  | <b>Drainage:</b>  | Moderately well drained |

**Geology**

|                       |         |                                    |                                |
|-----------------------|---------|------------------------------------|--------------------------------|
| <b>Exposure Type:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                        |
| <b>Geol. Ref.:</b>    | No Data | <b>Substrate Material:</b>         | Undisturbed soil core, No Data |

**Land Form**

|                         |                                       |                        |                 |
|-------------------------|---------------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Gently undulating rises 9-30m<br>1-3% | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Upper-slope                           | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Hillslope                             | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 5 %                                   | <b>Aspect:</b>         | No Data         |

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

**Erosion:**

**Soil Classification**

|  |  |                                |                   |
|--|--|--------------------------------|-------------------|
| <b>Australian Soil Classification:</b>   |  | <b>Mapping Unit:</b>           | N/A               |
| Sodic Eutrophic Black Dermosol Thick Slightly gravelly Clay-loamy Clayey Moderately deep |  | <b>Principal Profile Form:</b> | Dd1.13            |
| <b>ASC Confidence:</b>   |  | <b>Great Soil Group:</b>       | No suitable group |

All necessary analytical data are available.

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

**Vegetation:**    Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Bothriochloa decipiens, Heteropogon contortus

Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus

**Surface Coarse Fragments:** 2-10%, coarse gravelly, 20-60mm, angular, Quartz sandstone

**Profile Morphology**

|     |               |   |
|-----|---------------|---|
| A11 | 0 - 0.11 m    | Dark brown (10YR3/3-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Mudstone, coarse fragments; , Calcareous, , , ; Gypseous, , ; Field pH 6.5 (pH meter, 0.05); Clear change to -   |
| A12 | 0.11 - 0.35 m | Brown (10YR5/3-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Mudstone, coarse fragments; , Calcareous, , , ; Gypseous, , ; Field pH 5.5 (pH meter, 0.2); Abrupt change to -   |
| B2  | 0.35 - 0.55 m | Very dark greyish brown (2.5Y3/2-Moist); ; Sandy light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; 20-50%, medium gravelly, 6-20mm, angular, Mudstone, coarse fragments; , Calcareous, , , ; Gypseous, , ; Field pH 9 (pH meter, 0.45); |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

| Depth<br>m  | pH   | 1:5 EC<br>dS/m | Ca   | Exchangeable<br>Mg | Cations<br>K | Na<br>Cmol (+)/kg | Exchangeable<br>Acidity | CEC | ECEC | ESP<br>% |
|-------------|------|----------------|------|--------------------|--------------|-------------------|-------------------------|-----|------|----------|
| 0 - 0.11    | 6.2A |                | 2.2B | 1.3                | 0.56         | 0.12              |                         |     |      |          |
| 0.11 - 0.35 | 6.8A |                |      |                    |              |                   |                         |     |      |          |
| 0.35 - 0.55 | 9.5A |                | 9.1B | 5.5                | 0.26         | 7.7               |                         |     |      |          |

[illegible][illegible]

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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                     |
| 15N1    | Exchangeable sodium percentage (ESP)   |
| 4A1     | pH of 1:5 soil/water suspension  |