

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1079 **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>     | 24/04/92             | <b>Elevation:</b> | 240 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8156 GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7713320 AMG zone: 55 | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 434613 Datum: AGD66  | <b>Drainage:</b>  | No Data    |

#### 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>         | No Data |

#### Land Form

|                         |                     |                        |         |
|-------------------------|---------------------|------------------------|---------|
| <b>Rel/Slope Class:</b> | Level plain <9m <1% | <b>Pattern Type:</b>   | Plain   |
| <b>Morph. Type:</b>     | Flat                | <b>Relief:</b>         | No Data |
| <b>Elem. Type:</b>      | Plain               | <b>Slope Category:</b> | Level   |
| <b>Slope:</b>           | 1 %                 | <b>Aspect:</b>         | No Data |

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

|  |  |                                |             |
|--|--|--------------------------------|-------------|
| <b>Australian Soil Classification:</b>                   |  | <b>Mapping Unit:</b>           | N/A         |
| Epicalcareous Self-Mulching Black Vertosol Non-gravelly  |  | <b>Principal Profile Form:</b> | Ug5.16      |
| Very fine Very fine Very deep                            |  |                                |             |
| <b>ASC Confidence:</b>                                   |  | <b>Great Soil Group:</b>       | Black earth |
| No analytical data are available but confidence is fair. |  |                                |             |

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Eulalia aurea (ex fulva), Aristida species  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - , , . \*Species includes - None Recorded

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

#### Profile Morphology

|     |              |  |
|-----|--------------|--|
| A1  | 0 - 0.05 m   | Dark grey (10YR4/1-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.05); Clear change to -  |
| B21 | 0.05 - 0.4 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Gradual change to - |
| B22 | 0.4 - 0.95 m | Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8 (Raupach, 0.7); Clear change to -   |
| B23 | 0.95 - 1.4 m | Brown (10YR5/3-Moist); ; Medium clay; Moderate grade of structure; Strong grade of structure, 2-5 mm, Polyhedral; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 8.5 (Raupach, 1); Clear change to -          |
| B24 | 1.4 - 2 m    | Light brownish grey (2.5Y6/3-Moist); ; Light medium clay; Strong grade of structure; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 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 |
|------------|------|--------|----------------------|----|---|-------------------|---------|------|-----|
| m          |      | dS/m   | Ca                   | Mg | K | Na<br>Cmol (+)/kg | Acidity |      | %   |
| 0 - 0.05   | 7.2A |        |                      |    |   |                   |         |      |     |
| 0.05 - 0.4 | 8.3A |        |                      |    |   |                   |         |      |     |
| 0.4 - 0.95 | 8.2A |        |                      |    |   |                   |         |      |     |
| 0.95 - 1.4 | 7.7A |        |                      |    |   |                   |         |      |     |
| 1.4 - 2    | 7.5A |        |                      |    |   |                   |         |      |     |

[illegible][illegible]

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension