

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 768 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | |
|---|------------------------------|
| Desc. By: M.G. Cannon | Locality: |
| Date Desc.: 01/10/91 | Elevation: 310 metres |
| Map Ref.: Sheet No. : 8156 GPS | Rainfall: No Data |
| Northing/Long.: 7731023 AMG zone: 55 | Runoff: No Data |
| Easting/Lat.: 407144 Datum: AGD66 | Drainage: No Data |

Geology

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

Land Form

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

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

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|--|---------------------------------------|
| Australian Soil Classification: | Mapping Unit: N/A |
| Eutrophic Hypernatric Yellow Sodosol Thick Non-gravelly Loamy Clayey Deep | Principal Profile Form: Dy3.43 |
| ASC Confidence: | Great Soil Group: Solodic soil |

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species
 Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii, Eremophila mitchellii
 Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

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| A11 | 0 - 0.05 m | Dark yellowish brown (10YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to - |
| A12 | 0.05 - 0.22 m | Strong brown (7.5YR5/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Clear change to - |
| A2e | 0.22 - 0.4 m | Brown (7.5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Abrupt change to - |
| B21 | 0.4 - 0.6 m | Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 0.6); Gradual change to - |
| B22 | 0.6 - 0.9 m | Light brown (7.5YR6/4-Moist); Substrate influence, 7.5YR54, 10-20% , 5-15mm, Distinct; Substrate influence, 10-20% ; Light medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Rigid consistence; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 0.9); Gradual change to - |
| B23 | 0.9 - 1.2 m | Light brown (7.5YR6/4-Moist); Substrate influence, 7.5YR54, 10-20% , 5-15mm, Distinct; Substrate influence, 10-20% ; Light medium clay; Massive grade of structure; Earthy fabric; Moderately moist; Rigid consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, |

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 Cmol (+)/kg | Acidity | | % |
| 0 - 0.05 | 6A | | 1.1B | 0.89 | 0.26 | 0.07 | | | |
| 0.4 - 0.6 | 7.9A | | 1.6B | 9.2 | 0.14 | 7.5 | | 16.2l | 46.30 |
| | | | 2.1J | 9.1 | 0.1 | 4 | | | 24.69 |
| 0.9 - 1.2 | 6.2A | | | | | | | | |

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Laboratory Analyses Completed for this profile

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|---------|--|
| 10B | Extractable sulfur(mg/kg) - Phosphate extractable sulfur |
| 15A2_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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 |