

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1930 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

| | |
|---------------------------------------------|--------------------------------------|
| Desc. By: Rogers, Gary | Locality: |
| Date Desc.: 22/09/93 | Elevation: No Data |
| Map Ref.: Sheet No. : 7858 GPS | Rainfall: No Data |
| Northing/Long.: 7830691 AMG zone: 55 | Runoff: Very slow |
| Easting/Lat.: 275437 Datum: AGD66 | Drainage: Imperfectly drained |

Geology

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

Land Form

| | |
|------------------------------------------------------|----------------------------------------|
| Rel/Slope Class: Undulating rises 9-30m 3-10% | Pattern Type: No Data |
| Morph. Type: Lower-slope | Relief: No Data |
| Elem. Type: Drainage depression | Slope Category: Gently inclined |
| Slope: 3 % | Aspect: No Data |

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

Erosion:

Soil Classification

| | |
|--------------------------------------------------------------------------------------------|---------------------------------------|
| Australian Soil Classification: | Mapping Unit: N/A |
| Epicalcareous Self-Mulching Black Vertosol Slightly gravelly Medium fine Very fine Deep | Principal Profile Form: Ug5.11 |
| ASC Confidence: | Great Soil Group: Black earth |

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Very sparse. *Species includes - Unknown species, Unknown species, Unknown species
Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Melaleuca bracteata

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Melaleuca bracteata

Surface Coarse Fragments: 2-10%, stony, 200-600mm, angular, Basalt

Profile Morphology

| | | |
|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1 | 0 - 0.03 m | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.02); Clear change to - |
| B21 | 0.03 - 0.15 m | Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.1); Gradual change to - |
| B22 | 0.15 - 0.95 m | Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 5-10 mm, Lenticular; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Gradual change to - |
| BC | 0.95 - 1.2 m | Brown (10YR5/3-Moist); ; Light clay; Moderate grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Basalt, coarse fragments; Very many (50 - 100 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 9 (Raupach, 1); |

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 | | | % |
| | | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt | Clay |
|-------|-------|-----------|----------|---------|---------|---------|--------------|-------------|---------|-------------|------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| | | | | | | | | | | | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat | |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| | | | | | g/g - | m3/m3 | | | mm/h | mm/h |

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Laboratory Analyses Completed for this profile