

Project Name: PRO
Project Code: PRO **Site ID:** H154 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

| | | | |
|------------------------|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------|
| Desc. By: | G.M. Dimmock | Locality: | 16CH north east along road joining Arthur Highway .4KM east of Iron Creek Bridge:2CH upslope of quarry: |
| Date Desc.: | 29/01/57 | Elevation: | 61 metres |
| Map Ref.: | | Rainfall: | 550 |
| Northing/Long.: | 147.605 | Runoff: | Rapid |
| Easting/Lat.: | -42.7783333333333 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|-------------------------------|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Pm | Substrate Material: | Soil pit, 0.6 m deep,Mudstone |

Land Form

| | | | |
|-------------------------|-----------|------------------------|---------------------|
| Rel/Slope Class: | No Data | Pattern Type: | Hills |
| Morph. Type: | No Data | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Moderately inclined |
| Slope: | 0 % | Aspect: | 225 degrees |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|----------------------------------------------|--|--------------------------------|-----------------------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Haplic Eutrophic Brown Kurosol | | Principal Profile Form: | Db1.81 |
| ASC Confidence: | | Great Soil Group: | Grey-brown podzolic soil |
| All necessary analytical data are available. | | | |

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus viminalis

Surface Coarse Fragments: 2-10%, , , Gravel

Profile Morphology

| | | |
|----|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1 | 0 - 0.05 m | Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Dry; Very weak consistence; 2-10%, coarse gravelly, 20-60mm, Mudstone, coarse fragments; Many |
| A1 | 0.05 - 0.13 m | Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Dry; Very weak consistence; 10-20%, cobbly, 60-200mm, Mudstone, coarse fragments; Diffuse change to - |
| A2 | 0.15 - 0.19 m | Grey (10YR6/1-Moist); ; Fine sand; Single grain grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; 20-50%, coarse gravelly, 20-60mm, Mudstone, coarse fragments; Sharp, Irregular change to - |
| B | 0.23 - 0.39 m | Very dark brown (10YR2/2-Moist); ; Heavy clay; Weak grade of structure, Angular blocky; Moderately moist; Very firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; |
| B | 0.39 - 0.62 m | Very dark brown (10YR2/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 20-50%, cobbly, 60-200mm, Gravel, coarse fragments; Gradual change to - |

Morphological Notes

Observation Notes

>63CM ON PARENT MATERIAL (MUDSTONE):

Site Notes

PEMBROKE

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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 | Acidity | | % |
| | | | | | | | (+)/kg | | |
| 0 - 0.05 | 5.6A | 0.054A | 6.2H | 2.4 | 0.62 | 0.27 | 10.1H | | 23.9B |
| 0.05 - 0.13 | 5.6A | 0.042A | | | | | 14.4E | | |
| 0.15 - 0.19 | 5.7A | 0.045A | 3H | 4.9 | 0.28 | 0.58 | 5.4H | | 17B |
| | | | | | | | 8.2E | | |
| 0.23 - 0.39 | 5.5A | 0.068A | 4.8H | 14.8 | 0.34 | 1.9 | 11.7H | | 41.1B |
| | | | | | | | 19.3E | | |
| 0.39 - 0.62 | 5.3A | 0.083A | | | | | | | |

[illegible][illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 15E1_CA | Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble |
| 15E1_K | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_MG | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15E1_NA | Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts |
| 15G_C_H1 | Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B |
| 15G1_H | Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 |
| 15J_H | Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen) |
| 2_LOI | Loss on Ignition (%) |
| 2A1 | Air-dry moisture content |
| 3A1 | EC of 1:5 soil/water extract |
| 4A1 | pH of 1:5 soil/water suspension |
| 5A2 | Chloride - 1:5 soil/water extract, automated colour |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 7A2 | Total nitrogen - semimicro Kjeldahl , automated colour |
| 9A_HCL | Total element - P(%) - By boiling HCl |
| P10_GRAV | Gravel (%) |
| P10_PB_C | Clay (%) - Plummet balance |
| P10_PB_CS | Coarse sand (%) - Plummet balance |
| P10_PB_FS | Fine sand (%) - Plummet balance |
| P10_PB_Z | Silt (%) - Plummet balance |