**Project Name:** SOR
**Project Code:** SOR **Site ID:** H211 **Observation ID:** 1
**Agency Name:** CSIRO Division of Soils (TAS)

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | K.D. Nicholls | **Locality:** | Property "Lowes Park":4.2KM E of Midlands H`way on Glen Morey Rd:~2M from H210 (same pit): |
| **Date Desc.:** | 29/03/61 | **Elevation:** | 216 metres |
| **Map Ref.:** | | **Rainfall:** | 480 |
| **Northing/Long.:** | 147.434722222222 | **Runoff:** | Slow |
| **Easting/Lat.:** | -42.1819444444445 | **Drainage:** | Poorly drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Soil pit | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | No Data | **Substrate Material:** | Unconsolidated material (unidentified) |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Gently undulating plains <9m 1-3% | **Pattern Type:** | Alluvial plain |
| **Morph. Type:** | Flat | **Relief:** | No Data |
| **Elem. Type:** | Pediment | **Slope Category:** | Gently inclined |
| **Slope:** | 0 % | **Aspect:** | No Data |

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Eutrophic Mottled-Mesonatric Grey Sodosol
**ASC Confidence:**
All necessary analytical data are available.

**Mapping Unit:** N/A
**Principal Profile Form:** Dd2.33
**Great Soil Group:** Solodized solonetz

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded
Tall Strata - Tree, , . *Species includes - Eucalyptus ovata

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.02 m | Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/3-Dry); ; Sandy loam; Weak grade of structure, <2 mm, Subangular blocky; Dry; Very weak consistence; Diffuse change to - |
| A1 | 0.02 - 0.11 m | Dark brown (7.5YR3/3-Moist); Brown (7.5YR5/3-Dry); ; Sandy loam; Weak grade of structure, 10-20 mm, Angular blocky; Dry; Very weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to - |
| A1A2cb | 0.11 - 0.27 m | Brown (10YR4/3-Moist); Brown (10YR5/3-Dry); , 10YR52; Sand (Heavy); Single grain grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 2-10%, Gravel, coarse fragments; Clear change to - |
| A2 | 0.27 - 0.51 m | ; 2-10%, Gravel, coarse fragments; |
| B | 0.56 - 0.69 m | Very dark grey (10YR3/1-Moist); , 5YR34; , 10YR43; Heavy clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; 2-10%, Gravel, coarse fragments; Few cutans, <10% of ped faces or walls coated; Diffuse change to - |
| B | 0.74 - 0.86 m | Brown (10YR4/3-Moist); , 10YR54; Medium clay; Massive grade of structure; Moist; Very firm consistence; 10-20%, stony, 200-600mm, rounded, Dolerite, coarse fragments; Few (2 - 10 %), Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to - |

## Morphological Notes

## Observation Notes

MICRORELIEF - OCCASIONAL DEPRESSIONS:27-51CM SCRAPED FROM A STEEPLY DIPPING SIDE OF A CLAY DOME:

## Site Notes

INTERLARKEN

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.02 | 6.2A | 0.804A | 7.7H | 4 | 1.1 | 0.27 | 4.3H | | 17.4B | |
| 0.02 - 0.11 | 6.5A | 0.063A | 6.8H | 2.8 | 0.74 | 0.47 | 2.3H | | 13.1B | |
| 0.11 - 0.27 | 7.1A | 0.039A | | | | | | | | |
| 0.27 - 0.51 | 7.8A | 0.071A | 2.1H | 2.1 | 0.36 | 1.3 | | | 4.9B | |
| 0.56 - 0.69 | 8.4A | 0.247A | 6.2H | 6.2 | 0.72 | 4.4 | | | 24.3B | |
| 0.74 - 0.86 | 9.4A | 0.661A | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GV | CS | FS | Silt | Clay |
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.02 | | 3.3D | | 0.019D | 0.247A | | | 0 | 13B | 54 | 11 | 17 |
| 0.02 - 0.11 | | 1.63D | | 0.014D | 0.139A | | | 7 | 13D | 55 | 11 | 18 |
| 0.11 - 0.27 | | 0.59D | | | 0.05A | | | | | | | |
| 0.27 - 0.51 | | 0.29D | | | 0.027A | | | 5 | 16D | 64 | 10 | 8 |
| 0.56 - 0.69 | | 0.76D | | | 0.078A | | | 5 | 6B | 31 | 7 | 55 |
| 0.74 - 0.86 | | | | | | | | | | | | |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat |
|---|---|---|---|---|---|---|---|---|---|
| | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | | |
| m | | g/g - m3/m3 | | | | | | | mm/h | mm/h |
| 0 - 0.02 | | | | | | | | | | |
| 0.02 - 0.11 | | | | | | | | | | |
| 0.11 - 0.27 | | | | | | | | | | |
| 0.27 - 0.51 | | | | | | | | | | |
| 0.56 - 0.69 | | | | | | | | | | |
| 0.74 - 0.86 | | | | | | | | | | |

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**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,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 |
| 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 |
| P10A1_C | Clay (%) - Pipette |
| P10A1_CS | Coarse sand (%) - Pipette |
| P10A1_FS | Fine sand (%) - Pipette |
| P10A1_Z | Silt (%) - Pipette |