

Project: Organic Soils Mapping

Site Id: OSM023

Site Information

Easting: 426508
Northing: 5326642
Describer: R Moreton
Date: 31-January-2019

Runoff: Moderately rapid
Permeability: Very slowly permeable
Drainage: Poorly drained
Observation Type: Hand Auger boring

Depth to Watertable (m): No free water
Depth to Substrate (m): 1.05
Surface Coarse Fragments: No coarse fragments

Landform Information

Landform Element (20m radius)

Element Slope Class: Very gently inclined (1-3%)
Element Morph. Type: No Data
Element Type: Hillslope
Slope: 3 %
Inundation Frequency: No Data
Rainfall: 2218 mm
Erosion: No Data

Landform Pattern (300m radius)


Pattern Type: Low hills
Pattern Slope Class: Gently inclined (3-10%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 90 degrees
Elevation: 814 m
Mapped Geology: 250k Geology: Pleistocene glacial and glaciogene deposits.

Soil Classification

Australian Soil Classification: Peaty, Kandosolic, Redoxic, **Hydrosol**
ASC Family Criteria: Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, deep soil depth
ASC Confidence: Necessary analytical and/or morphological data are incomplete but are sufficient to classify the soil with a reasonable degree of confidence.
ASC Version: 3rd Edition

Morphological Description

| Horizon | Depth | Description |
|---------|-------------|--|
| P1 | 0 - 5 cm | Very dark brown (10YR 2/2) moist, fibric peat; many fine (1-2mm) roots. |
| P2 | 5 - 22 cm | Black (10YR 2/1) moist, clayey peat; moderate, 2-5 mm, moderate subangular blocky structure; no mottles; common (1-5 per 100mm ²), fine (1-2mm) macropores; many fine (1-2mm) roots. EC 0.1 dS/m; pH 4.19. |
| 2B1 | 22 - 30 cm | Very dark greyish brown (10YR 3/2) moist, light clay; moderate, 5-10 mm, moderate subangular blocky structure; very few (<2%), medium (5-15mm), faint brown (7.5YR 4/4) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.06 dS/m; pH 5.35. |
| 2B2 | 30 - 45 cm | Dark grey (10YR 4/1) moist, light medium clay; massive structure; very few (<2%), medium (5-15mm), distinct pale yellow (2.5Y 7/4) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.02 dS/m; pH 5.88. |
| 2B31 | 45 - 65 cm | Greyish brown (2.5Y 5/3) moist, light medium clay; massive structure; common (10-20%), coarse (15-30mm), distinct olive yellow (2.5Y 6/6) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; very few (<2%), very strong, subangular, dispersed quartzite coarse gravel (20-60mm). EC 0.01 dS/m; pH 6.11. |
| 2B32 | 65 - 105 cm | Dark grey (10YR 4/1) moist, silty light medium clay; massive structure; few (2-10%), fine (<5mm), faint light brownish grey (2.5Y 6/3) mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few (2-10%), very strong, subangular, dispersed quartzite medium gravel (6-20mm). EC 0.01 dS/m; pH 6.99. |



Morphological Notes

Horizon: 2B32
Description: Rounded gravels found

Vegetation Notes:

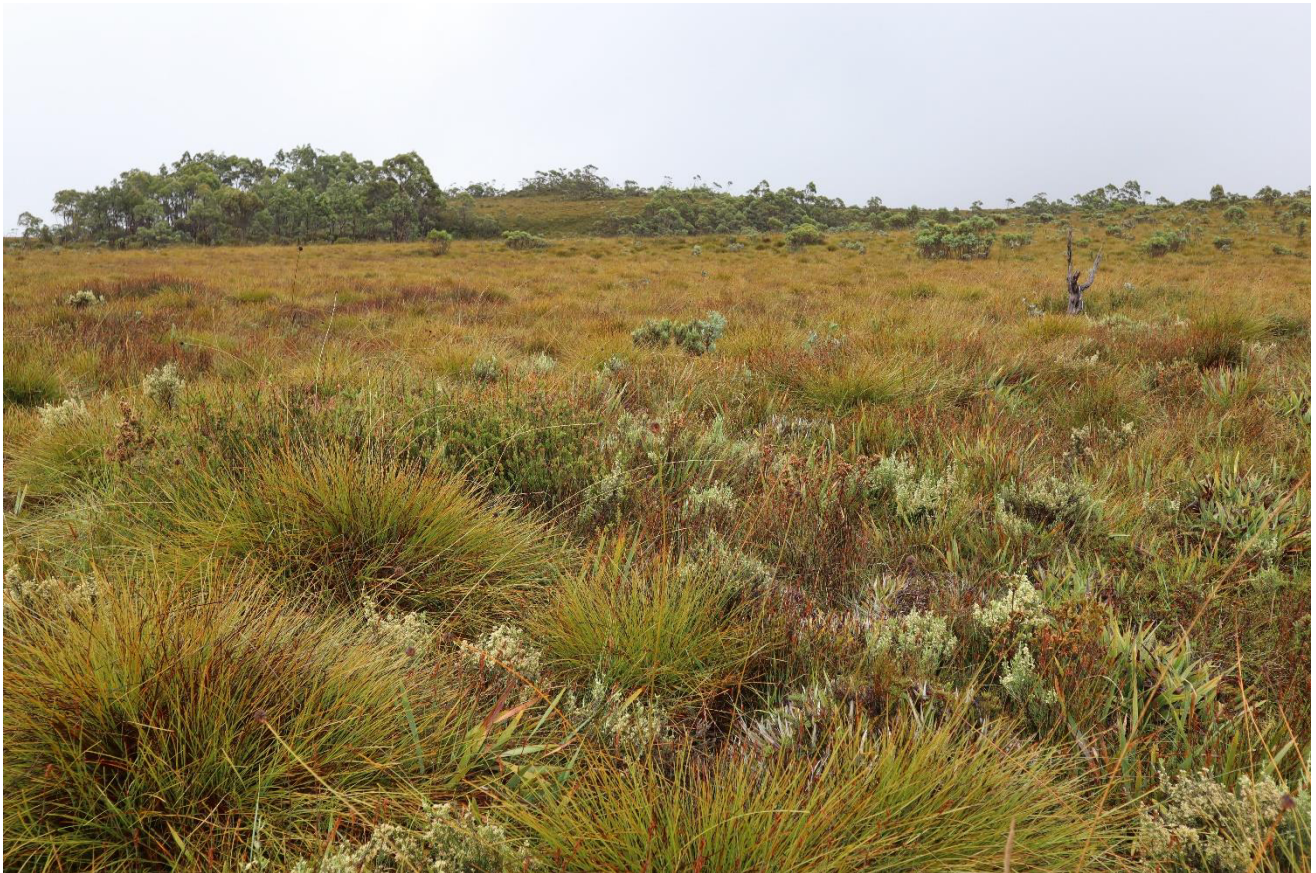
TASVEG code: MDS - Subalpine Diplarrena latifolia rushland.

Vegetation description: Gymnoschoenus sphaerocephalus, Baeckea gunnianna, Gleichenia alpina, Poa sp., Diplarrena latifolia, Eucalyptus coccifera?

Site Notes:

Location: Burns Dam Road (Beehive Canal boom gate)

Site and Observation Notes: High Buttongrass plain, sloping



The prominence of *Diplarrena latifolia* suggests appropriate to classify as MDS- otherwise it matches MBE vegetation unit well.

