

Project: Organic Soils Mapping

Site Id: OSM044

Site Information

Easting: 465400
Northing: 5366447
Describer: R Moreton
Date: 21-March-2019

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

Depth to Watertable (m): No free water
Depth to Substrate (m): 0.37
Surface Coarse Fragments: No coarse fragments

Landform Information

Landform Element (20m radius)

Element Slope Class: Level (<1%)
Element Morph. Type: No Data
Element Type: Drainage depression
Slope: 0 %
Inundation Frequency: No Data
Rainfall: 1176 mm
Erosion: No Data

Landform Pattern (300m radius)

Pattern Type: Low hills
Pattern Slope Class: Steep (32-56%)
Pattern Relief Class: No Data
Relief Modal Slope: No Data
Aspect: 290 degrees
Elevation: 1141 m
Mapped Geology: 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

Soil Classification

Australian Soil Classification: Terric, Acidic, Fibric, **Organosol** (Definition 2)
ASC Family Criteria: Moderately thick uppermost organic materials, non-gravelly surface horizon, fibric peat surface organic materials, organics directly overlying rock, shallow soil depth
ASC Confidence: All necessary analytical and/or morphological data are available for the profile being classified
ASC Version: 3rd Edition

Morphological Description



Horizon	Depth	Description
P1	0 - 11 cm	Dark yellowish brown (10YR 3/4) moist loamy peat; weak, <2 mm, weak subangular blocky structure; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.17 dS/m; pH 5.36.
2A1	11 - 21 cm	Very dark grey (7.5YR 3/1) moist fibric loam; weak, <2 mm, weak subangular blocky structure; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.07 dS/m; pH 5.28.
3P2	21 - 37 cm	Black (7.5YR 2.5/1) moist loamy peat; weak, 2-5 mm, weak subangular blocky structure; no mottles; few (<1 per 100mm ²), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.06 dS/m; pH 5.24.
R	37 - 38 cm	Many (20-50%), very strong, subrounded, stratified dolerite cobbles (60-200mm).

Morphological Notes:

P1- Hydrophobic, OC% 15.3%

2A1- does not qualify as a peat horizon (dominated by organic materials) due to 10.7% OC but meets humose horizon definition.

2A1- may have lost OC% through fire - burning down to and stopping due to moisture at the underlying 3P2 horizon

3P2 has a higher OC% than overlying 2A1 and qualifies as a peat horizon OC% - 13.9%

Vegetation Notes:

TASVEG code: HHE - Eastern alpine heathland.

Vegetation description: *Richea acerosa*, *Poa* sp., *Empodisma minus*, *Orites acicularis*

Site Notes:

Location: Lake Augusta Road

Site and Observation Notes: Drainage depression



Shrubland/alpine heathland - with grassy understorey- mapped as HHE

