Project: Organic Soils Mapping **Site Id:** OSM031

Site Information

Easting: 427860
Northing: 5341761
Describer: R Moreton
Date: 20-February-2019

Runoff: Moderately rapid
Permeability: Moderately permeable
Drainage: Imperfectly drained
Observation Type: Hand Auger boring

Depth to Watertable (m): No free water
Depth to Substrate (m): 1.00
Surface Coarse Fragments: Very few (<2%), Very strong, Subrounded, Dolerite, Boulders (600mm-2m)

Landform Information

Landform Element (20m radius)
Element Slope Class: Gently inclined (3-10%)
Element Morph. Type: No Data
Element Type: Hillslope
Slope: 10 %
Inundation Frequency: No Data
Rainfall: 2138 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: 110 degrees
Elevation: 838 m
Mapped Geology: 250k Geology: Pleistocene glacial and glacigene deposits.

Soil Classification

Australian Soil Classification: Peaty, Kurosolic, Redoxic, **Hydrosol**
ASC Family Criteria: Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, deep soil depth, non-water repellent surface soil
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
P21	0 - 20 cm	Black (10YR 2/1) moist, sapric peat; weak, 2-5 mm, weak polyhedral structure; no mottles; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; common fine (1-2mm) roots. EC 0.16 dS/m; pH 4.02.
P22	20 - 30 cm	Very dark brown (10YR 2/2) moist, clayey peat; weak, 5-10 mm, weak polyhedral structure; no mottles; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; few fine (1-2mm) roots. EC 0.08 dS/m; pH 4.2.
2B1	30 - 50 cm	Dark brown (10YR 3/3) moist, light clay; massive structure; few (2-10%), medium (5-15mm), distinct dark yellowish brown (10YR 4/6) mottles; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.02 dS/m; pH 4.88.
2B2	50 - 80 cm	Yellowish brown (10YR 5/4) moist, light clay; massive structure; common (10-20%), medium (5-15mm), distinct dark yellowish brown (10YR 4/6) mottles; few (<1 per 100mm^2), very fine (0.075-1mm) macropores; few very fine (<1mm) roots.
2B3	80 - 100 cm	Light olive grey (5Y 6/2) moist, coarse sandy light clay; massive structure; common (10-20%), medium (5-15mm), distinct yellowish brown (10YR 5/4) mottles.
R	100 - 101 cm	

Morphological Notes: Nil.

Vegetation Notes:

TASVEG code: DNI - Eucalyptus nitida dry forest and woodland.
Vegetation description: Eucalyptus nitida, Gymnoschoenus sphaerocephalus

Site Notes:

Location: Cuvier Valley, Lake St Clair
Site and Observation Notes: Slope. Buttongrass with Eucalypts

Pure buttongrass moorland understorey beneath Eucalyptus nitida woodland.

Chip tray and (Laboratory Data arriving soon)

Depth (cm)									
0 - 20 cm									
20 - 30 cm									
30 - 50 cm									
50 - 80 cm									
80 - 100 cm									
100 - 101 cm									