

# Project: Organic Soils Mapping

Site Id: OSM038

## Site Information

**Easting:** 427684  
**Northing:** 5328094  
**Describer:** R Moreton  
**Date:** 19-February-2019

**Runoff:** Moderately rapid  
**Permeability:** Slowly permeable  
**Drainage:** Poorly drained  
**Observation Type:** Hand Auger boring

**Depth to Watertable (m):** No free water  
**Depth to Substrate (m):** 0.90  
**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:** Plain  
**Slope:** 3 %  
**Inundation Frequency:** No Data  
**Rainfall:** 2133 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:** 60 degrees  
**Elevation:** 2133 m  
**Mapped Geology:** 250k Geology: Pleistocene glacial and glaciogene deposits.

## Soil Classification

**Australian Soil Classification:** Terric, Acidic, Sapric, **Organosol** (Definition 1)  
**ASC Family Criteria:** Thick uppermost organic materials, non-gravelly surface horizon, sapric peat surface organic materials overlying clayey textured material, moderate soil depth  
**ASC Confidence:** All necessary analytical and/or morphological data are available for the profile being classified  
**ASC Version:** 3<sup>rd</sup> Edition

## Morphological Description

Horizon	Depth	Description
P21	0 - 20 cm	Very dark grey (10YR 3/1) moist, sapric peat; moderate, 2-5 mm, moderate polyhedral structure; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; many fine (1-2mm) roots. EC 0.13 dS/m; pH 4.52.
P22	20 - 45 cm	Black (10YR 2/1) moist, sapric peat; weak, 5-10 mm, weak subangular blocky structure; few (<1 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; many fine (1-2mm) roots; very few (<2%), very strong, angular, dispersed quartzite fine gravel (2-6mm). EC 0.06 dS/m; pH 4.29.
2B2	45 - 60 cm	Very dark greyish brown (10YR 3/2) moist, sandy light clay; weak, 10-20 mm, weak subangular blocky structure; very few (<2%), fine (<5mm), distinct dark yellowish brown (10YR 4/6) mottles; few very fine (<1mm) roots; few (2-10%), very strong, angular, dispersed quartzite fine gravel (2-6mm). EC 0.04 dS/m; pH 4.71.
2B3	60 - 90 cm	Reddish brown (2.5YR 5/3) moist, sandy light clay; weak, 10-20 mm, weak subangular blocky structure; few very fine (<1mm) roots; very few (<2%), very strong, angular, dispersed quartzite fine gravel (2-6mm). EC 0.04 dS/m; pH 5.22.
R	90 - 91 cm	



**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** MBE - Eastern buttongrass moorland.

**Vegetation description:** *Gymnoschoenus sphaerocephalus*, *Astelia alpina*, Grasses

**Site Notes:**

**Location:** Eastern end of Beehive Canal.

**Site and Observation Notes:** Sloping plain below Eucalypts.



The lack of overtopping shrubs and the confinement of the buttongrass to the poorly drained flats, classifies this as an MBE vegetation unit.

