

# Project: Organic Soils Mapping

Site Id: OSM050

## Site Information

**Easting:** 455319  
**Northing:** 5375902  
**Describer:** R Moreton  
**Date:** 03-April-2019

**Runoff:** Very slow  
**Permeability:** Slowly permeable  
**Drainage:** Very poorly drained  
**Observation Type:** Hand Auger boring

**Depth to Watertable (m):** 0.25  
**Depth to Substrate (m):** Not reached  
**Surface Coarse Fragments:** No coarse fragments

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Level (<1%)  
**Element Morph. Type:** No Data  
**Element Type:** Swamp  
**Slope:** 0 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1375 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Low hills  
**Pattern Slope Class:** Moderately inclined (10-32%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 174 degrees  
**Elevation:** 1224 m  
**Mapped Geology:** 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

## Soil Classification

**Australian Soil Classification:** Regolithic, Acidic, Fibric, **Organosol** (Definition 1)  
**ASC Family Criteria:** Very thick uppermost organic materials, non-gravelly surface horizon, fibric peat surface organic materials, organics directly overlying rock, very deep 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
P11	0 - 8 cm	Dark brown (7.5YR 3/2) moist fibric peat; massive structure; no mottles; common (1-5 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.35 dS/m; pH 5.03.
P12	8 - 28 cm	Black (10YR 2/1) moist fibric peat; massive structure; no mottles; common (1-5 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.2 dS/m; pH 4.71.
P13	28 - 52 cm	Very dark grey (5YR 3/1) moist fibric peat; weak, 2-5 mm, weak polyhedral structure; no mottles; common (1-5 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; common very fine (<1mm) roots. EC 0.16 dS/m; pH 4.41.
2P1b	52 - 68 cm	Black (5YR 2.5/1) moist fibric peat; massive structure; no mottles; common (1-5 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few very fine (<1mm) roots. EC 0.11 dS/m; pH 4.66.
2P2b	68 - 113 cm	Very dark greyish brown (10YR 3/2) moist sapric peat; massive structure; few (2-10%), medium (5-15mm), distinct brown (10YR 4/3) mottles. EC 0.39 dS/m; pH 4.35.



## Morphological Notes

**Horizon:** 2P2b  
**Description:** Ashy/Fusic appearance when dried

## Vegetation Notes:

**TASVEG code:** ASP - Sphagnum peatland.

**Vegetation description:** Sphagnum sp., *Gleichenia alpina*, *Richea gunnii/scoparia*?

## Site Notes:

**Location:** West of Lake Field

**Site and Observation Notes:** Cushion plant, sphagnum bog with pools



Sphagnum bog with *Gleichenia alpina* (coral ferns) and *Richea* shrub overstorey.

