

# Project: Organic Soils Mapping

Site Id: OSM049

## Site Information

**Easting:** 455265  
**Northing:** 5376056  
**Describer:** R Moreton  
**Date:** 1203-April-2019

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

**Depth to Watertable (m):** 0.23  
**Depth to Substrate (m):** 0.23  
**Surface Coarse Fragments:** 1. Few (2-10%), Very strong, Subrounded, Dolerite, Cobbles (60-200mm)  
2. Few (2-10%), Very strong, Subangular, Dolerite, Coarse gravel (20-60mm)

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Very gently inclined (1-3%)  
**Element Morph. Type:** No Data  
**Element Type:** Drainage depression  
**Slope:** 3 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1387 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:** 3 degrees  
**Elevation:** 1245 m  
**Mapped Geology:** 250k Geology: Dolerite (tholeiitic) with locally developed granophyre.

## Soil Classification

**Australian Soil Classification:** Modic, Folic, Hemic, **Organosol** (Definition 2)  
**ASC Family Criteria:** Moderately thick uppermost organic materials, non-gravelly surface horizon, hemic peat surface organic materials overlying clay loamy textured material, very shallow 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 - 8 cm	Very dark brown (7.5YR 2.5/2) moist hemic peat; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; many very fine (<1mm) roots. EC 0.52 dS/m; pH 5.71.
P22	8 - 13 cm	Black (7.5YR 2.5/1) moist sapric peat; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common very fine (<1mm) roots. EC 0.31 dS/m; pH 5.65.
2A1	13 - 23 cm	Black (7.5YR 2.5/1) moist clay loam; weak, 2-5 mm, weak polyhedral structure; few (2-10%), medium (5-15mm), distinct dark yellowish brown (10YR 4/6) mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few very fine (<1mm) roots; few (2-10%), moderately strong, subangular, dispersed dolerite fine gravel (2-6mm). EC 0.05 dS/m; pH 5.11.
R	23 - 24 cm	Common (10-20%), very strong, subangular, undisturbed dolerite boulders (600mm-2m).

**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** DCO - Eucalyptus coccifera forest and woodland.

**Vegetation description:** Eucalyptus coccifera, Orites revoluta, Coprosma nitida, Leucopogon sp.

**Site Notes:**

**Location:** Lake Field

**Site and Observation Notes:** Ridge



Open woodland canopy (>5% cover of Eucalypts) over shrubby ground cover- Orites revoluta the dominant shrubland

