

# Project: Organic Soils Mapping

Site Id: OSM020

## Site Information

**Easting:** 431889  
**Northing:** 5326555  
**Describer:** R Moreton  
**Date:** 30-January-2019

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

**Depth to Watertable (m):** No free water  
**Depth to Substrate (m):** 0.95  
**Surface Coarse Fragments:** No coarse fragments

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Level (<1%)  
**Element Morph. Type:** No Data  
**Element Type:** Plain  
**Slope:** 0 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1902 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)


**Pattern Type:** Alluvial plain  
**Pattern Slope Class:** Very gently inclined (1-3%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 70 degrees  
**Elevation:** 771 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, fibric 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
P1	0 - 8 cm	Greyish brown (10YR 5/2) moist, fibric peat; massive structure; no mottles; few (<1 per 0.01m <sup>2</sup> ), medium (2-5mm) macropores; abundant fine (1-2mm) roots. EC 0.27 dS/m; pH 3.87.
P21	8 - 28 cm	Very dark grey (10YR 3/1) moist, hemic peat; massive structure; no mottles; few (<1 per 0.01m <sup>2</sup> ), medium (2-5mm) macropores; many medium (2-5mm) roots. EC 0.12 dS/m; pH 3.80.
P22	28 - 58 cm	Black (10YR 2/1) moist, sapric peat; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; common medium (2-5mm) roots. EC 0.18 dS/m; pH 4.09.
2B2	58 - 83 cm	Brown (10YR 4/3) moist, sandy light clay; massive structure; common (10-20%), medium (5-15mm), distinct strong brown (7.5YR 5/6) mottles; few fine (1-2mm) roots; few (2-10%), very strong, rounded, dispersed quartzite medium gravel (6-20mm).
2B3	83 - 95 cm	Grey (5Y 5/1) moist, silty light clay; massive structure; few (2-10%), medium (5-15mm), prominent brown (7.5YR 4/3) mottles; few (2-10%), very strong, rounded, dispersed quartzite medium gravel (6-20mm).
2B/C	95 - 96 cm	



**Morphological Notes:** Nil.

**Vegetation Notes:**

**TASVEG code:** MBP - Pure moorland.

**Vegetation description:** *Gymnoschoenus sphaerocephalus*

**Site Notes:**

**Location:** Mary Ann Creek, Lake St Clair area

**Site and Observation Notes:** Buttongrass Plain



Buttongrass is over 75% cover - (often more than 90%) hence classified as pure buttongrass moorland.

