

# Project: Organic Soils Mapping

Site Id: OSM032

## Site Information

**Easting:** 428764  
**Northing:** 5341323  
**Describer:** R Moreton  
**Date:** 20-February-2019

**Runoff:** Slow  
**Permeability:** Very slowly permeable  
**Drainage:** Poorly drained  
**Observation Type:** Hand Auger boring

**Depth to Watertable (m):** 0.35  
**Depth to Substrate (m):** 0.80  
**Surface Coarse Fragments:** No coarse fragments

## Landform Information

### Landform Element (20m radius)

**Element Slope Class:** Very gently inclined (1-3%)  
**Element Morph. Type:** No Data  
**Element Type:** Hillslope  
**Slope:** 3 %  
**Inundation Frequency:** No Data  
**Rainfall:** 2059 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Plain  
**Pattern Slope Class:** Gently inclined (3-10%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 190 degrees  
**Elevation:** 811 m  
**Mapped Geology:** 250k Geology: Pleistocene glacial and glaciogene deposits.

## Soil Classification

**Australian Soil Classification:** Peaty, Kurosolic, Redoxic, **Hydrosol**  
**ASC Family Criteria:** Thick, non-gravelly, peaty organic horizon, clayey B horizon, deep soil depth, non-water repellent  
**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:** 3<sup>rd</sup> Edition

## Morphological Description



| Horizon | Depth      | Description  |
|---------|------------|--|
| P21     | 0 - 18 cm  | Black (10YR 2/1) moist, sapric peat; weak, 2-5 mm, weak polyhedral structure; no mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; common fine (1-2mm) roots. EC 0.1 dS/m; pH 4.47.   |
| P22     | 18 - 35 cm | Very dark brown (10YR 2/2) moist, clayey peat; weak, 2-5 mm, weak polyhedral structure; r mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few medium (2-5mm) roots. EC 0.09 dS/m; pH 4.38.  |
| 2B21    | 35 - 45 cm | Dark greyish brown (10YR 4/2) moist, light clay; massive structure; few (2-10%), fine (<5mm), distinct yellowish brown (10YR 5/6) mottles; few (<1 per 100mm <sup>2</sup> ), very fine (0.075-1mm) macropores; few medium (2-5mm) roots. EC 0.04 dS/m; pH 5.1. |
| 2B22    | 45 - 60 cm | Brown (10YR 4/3) moist, light clay; massive structure; common (10-20%), medium (5-15mm), distinct yellowish brown (10YR 5/8) mottles.  |
| 2B/C    | 60 - 80 cm | Light brownish grey (10YR 6/2) moist, coarse sandy light clay; massive structure; common (10-20%), medium (5-15mm), distinct strong brown (7.5YR 5/8) mottles; very few (<2%), very strong, rounded, dispersed dolerite coarse gravel (20-60mm).               |
| R       | 80 - 81 cm |  |

**Morphological Notes:** Nil.

**Vegetation Notes:**

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

**Vegetation description:** *Gymnoschoenus sphaerocephalus*, *Gleichenia alpina*

**Site Notes:**

**Location:** Cuvier Valley, Lake St Clair

**Site and Observation Notes:** Low Buttongrass plain. Site burnt but not recently.



Lack of overtopping shrubs and the confinement of the buttongrass to the poorly drained flats, makes this an MBE vegetation unit.

