

# Project: Organic Soils Mapping

Site Id: OSM025

## Site Information

**Easting:** 431103  
**Northing:** 5330838  
**Describer:** R Moreton  
**Date:** 31-January-2019

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

**Depth to Watertable (m):** No free water  
**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:** Drainage depression  
**Slope:** 0 %  
**Inundation Frequency:** No Data  
**Rainfall:** 1886 mm  
**Erosion:** No Data

### Landform Pattern (300m radius)

**Pattern Type:** Plain  
**Pattern Slope Class:** Very gently inclined (1-3%)  
**Pattern Relief Class:** No Data  
**Relief Modal Slope:** No Data  
**Aspect:** 170 degrees  
**Elevation:** 731 m  
**Mapped Geology:** 250k Geology: Pleistocene glacial and glaciogene deposits.

## Soil Classification

**Australian Soil Classification:** Eutrophic, Kandosolic, Redoxic, **Hydrosol**  
**ASC Family Criteria:** Moderately thick, non-gravelly, peaty organic horizon, clayey B horizon, moderately deep soil depth  
**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; massive structure; no mottles; few (<1 per 100mm <sup>2</sup> ), fine (1-2mm) macropores; common fine (1-2mm) roots. EC 0.18 dS/m; pH 4.72.
2B1	18 - 55 cm	Very dark grey (10YR 3/1) moist, fine sandy light clay; massive structure; no mottles; few fine (1-2mm) roots. EC 0.03 dS/m; pH 5.76.
2B2	55 - 80 cm	Brown (10YR 5/3) moist, fine sandy light clay; massive structure; few (2-10%), fine (<5mm), faint reddish yellow (7.5YR 6/8) mottles; few fine (1-2mm) roots; few (2-10%), very strong, subangular, dispersed quartzite medium gravel (6-20mm). EC 0.01 dS/m; pH 6.34.
2B/C	80 - 95 cm	Light brownish grey (2.5Y 6/2) moist, sandy light clay; massive structure; few (2-10%), medium (5-15mm), distinct reddish yellow (7.5YR 6/8) mottles; few fine (1-2mm) roots; few (2-10%), very strong, subangular, dispersed quartzite medium gravel (6-20mm). EC 0.01 dS/m; pH 6.61.

**Morphological Notes:** Nil.

**Vegetation Notes:**

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

**Vegetation description:** *Gymnoschoenus sphaerocephalus*, *Sprengelia* sp.

**Site Notes:**

**Location:** Adjacent Lyell Hwy, Lake St Clair area.

**Site and Observation Notes:** Very low Buttongrass plain



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

