Waterwatch

2018 Water Quality Site Summary

Objectives

- Create a longitudinal data set of water quality
- Monitor water quality at both the inlet and outlet of the wetland to measure if it is removing pollutants and sediment from stormwater runoff
- Engage the community
- Monitor water quality to ensure that it is fit for irrigation purposes

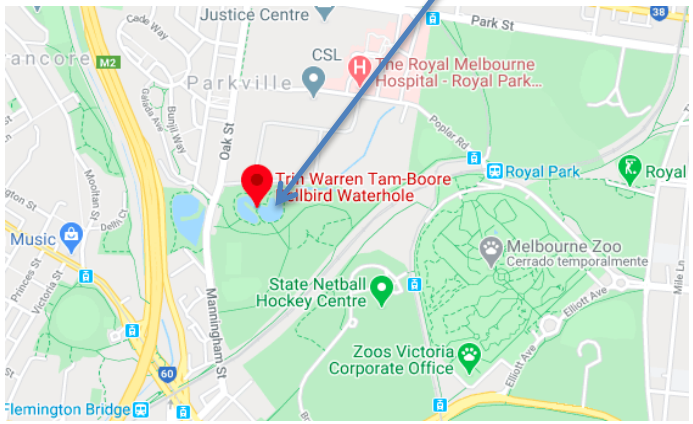
Monthly Parameters

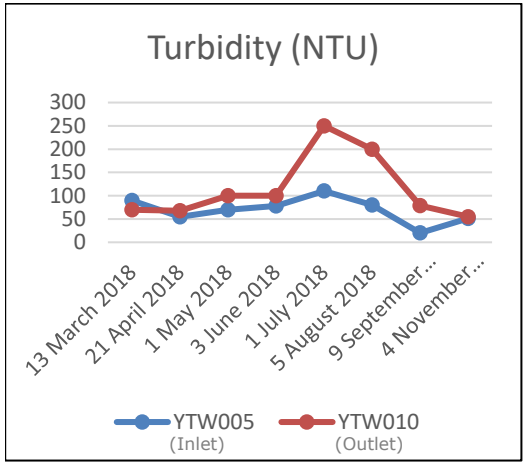
- Temperature
- Dissolved Oxygen
- pH
- Electrical conductivity
- Turbidity
- Reactive Phosphate
- Ammonium

To look at further water quality data, visit the Waterwatch online database using the site code YTW005. For the outlet site, use code YTW010.

Site Name and Description

YTW005 – Trin Warren Tamboore Wetlands, Inlet, Royal Park, Parkville
Monitors: Friends of Royal Park Waterwatch Group led by Maria Krelle





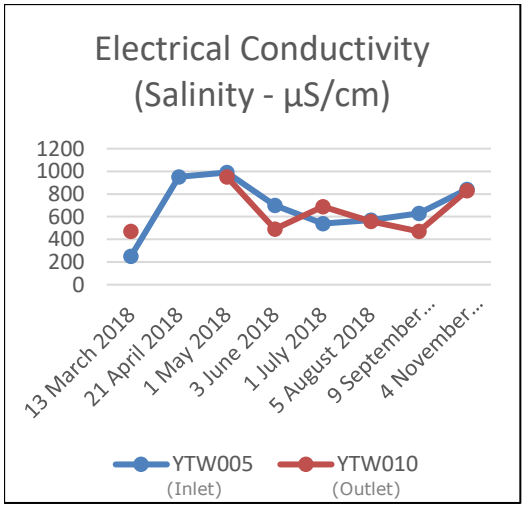


Image: City of Melbourne 2020

Site Induction

Located in the northwest corner of Royal Park, Trin Warren Tamboore (Bellbird Waterhole), is part of the Moonee Ponds Creek Catchment.

The wetlands have been designed to treat water from the surrounding area through natural biological processes. It provides water to irrigation systems for the golf course and other sporting grounds in Royal Park.

The wetland is home to a wide variety of water plants that in turn provide food and shelter for many different animals.

More information about the wetland, including its design and management, can be found on the City of Melbourne website.

Summary

Electrical Conductivity, used to measure salinity, sat between 250 and 990µS/cm. Waterwatch guidelines categorize between 250-500µS/cm as 'fair' and 500-750µS/cm as 'poor'. Anything greater than 750µS/cm is considered to be 'degraded', this occurred three times throughout the year. There was no clear correlation between the inlet and outlet sites.

Turbidity, which measures muddiness or opaqueness of the water, was higher at the outlet site on all visits except in March. The wetland is supposed to reduce suspended solids so this was an unexpected result.

The pH levels fluctuated between 6.3 and 7.5 at both the inlet and outlet sites which falls into the 'excellent' and 'good' categories in the Waterwatch guidelines. There was one spike in turbidity at the outlet in November at 9.2 which is classed as 'degraded'.

Dissolved Oxygen fluctuated between 3-10 mg/L with no clear relationship between the two sites.

For further water quality information about the inlet and outlet sites please see the 2018 report for the outlet site YTW010 here.