



Department of Biodiversity,
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Swan Canning Estuary Water Quality Monitoring Project

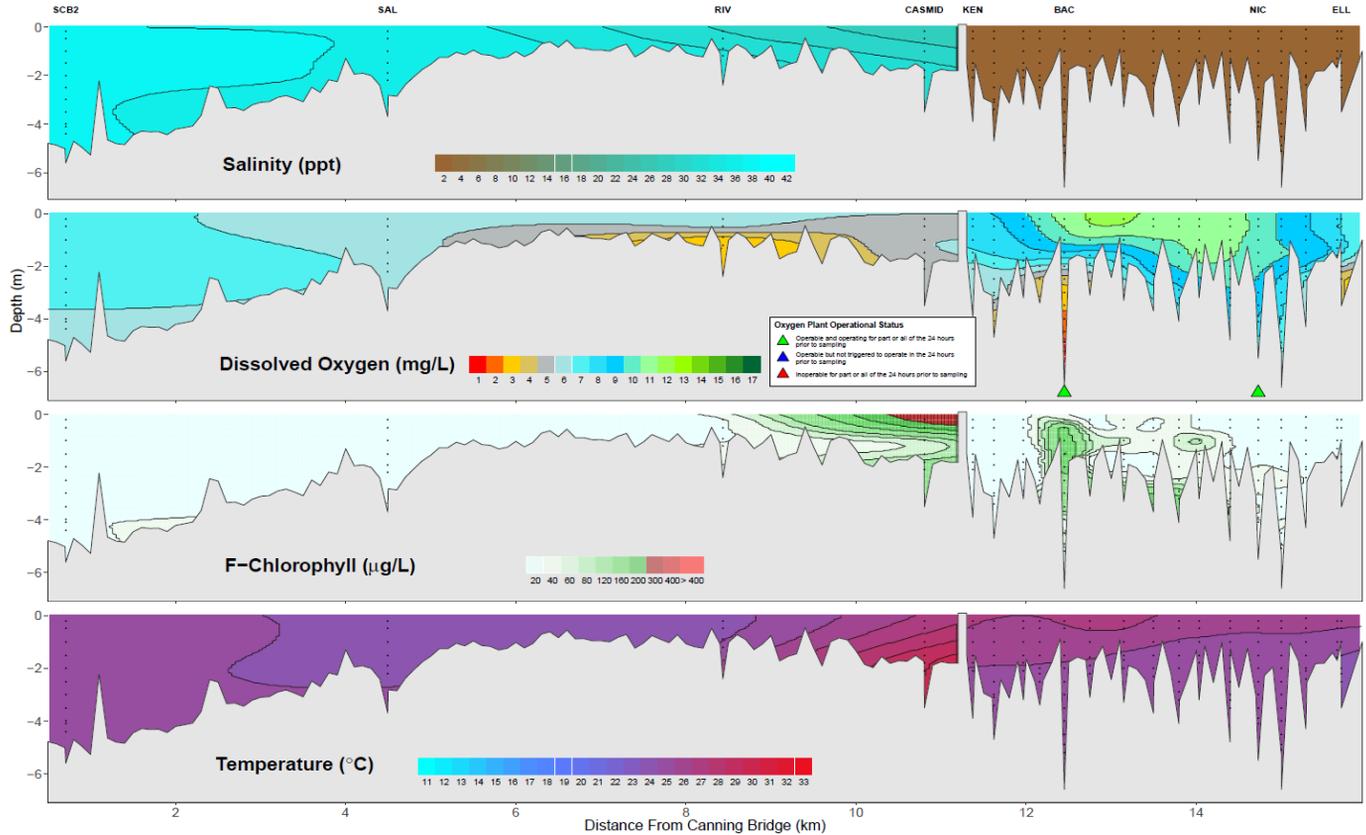
Weekly Profile Report for the Canning Estuary and Lower Canning River

4th February 2020

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Canning River Estuary – Physical-Chemical Profile – 4th Feb 2020



Date: 4th February 2020

Weather & tide conditions: Conditions were clear with a predominantly westerly breeze of up to 11 knots. The predicted tides at Barrack St were 0.56 m at 06:51 am (low tide) and 1.04 m at 07:26 pm (high tide) and flow was not observed at Kent St Weir. Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St oxygenation plants were both triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline and surface waters were oxygenated or well oxygenated throughout this zone. Bottom waters were well oxygenated between SCB2 and SAL, low in oxygen at RIV and oxygenated at CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in this area. Water temperature ranged from 23.7 to 28.9 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and surface waters were oxygenated or well oxygenated throughout this zone. Bottom waters were low in oxygen at BACD300 and ELL and hypoxic at BAC. Chlorophyll fluorescence was highest BAC indicating higher microalgal activity in this area. Water temperature ranged from 23.5 to 26.4 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at wir.water.wa.gov.au.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning Estuary water quality monitoring weekly profile report, Canning River Estuary, 4th February 2020*. Rivers and Estuaries Science (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)

Definitions:

Salinity – fresh <5, brackish 5-25, saline 25-35, hypersaline >35
Dissolved oxygen – well oxygenated >6mg/L, oxygenated >4-6mg/L, low oxygen >2-4mg/L, hypoxic 0.5-2mg/L, anoxic <0.5mg/L.