



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

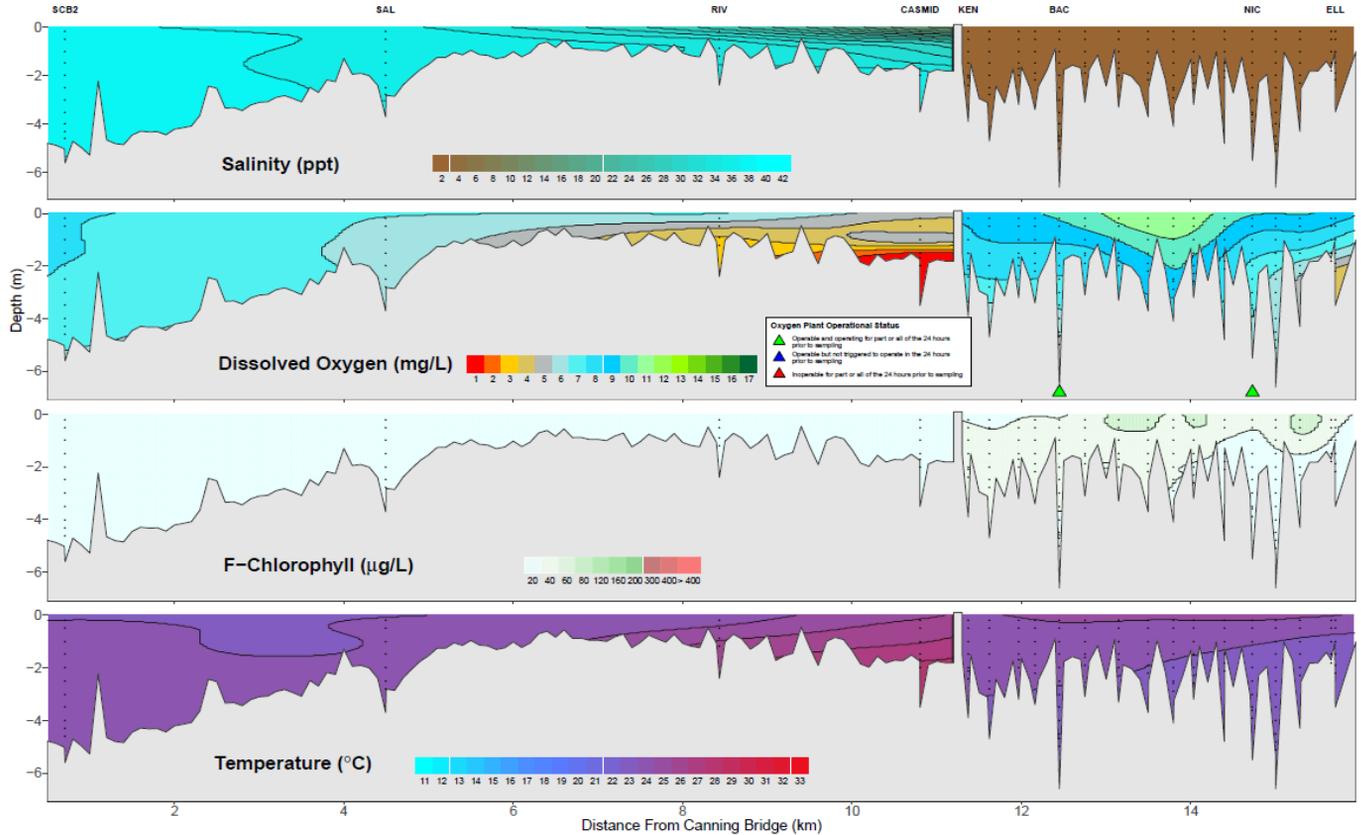
Weekly Profile Report for the Canning Estuary and Lower Canning River

4th March 2020

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



Date: 4th March 2020

Weather & tide conditions: Conditions were clear with a predominantly easterly breeze of up to 7 knots. The predicted tides at Barrack St were 0.57m at 5:42 am (low tide) and 1.06 m at 6:30 pm (high tide) and flow was observed at Kent St Weir. Gosnells recorded 22.8 mm of 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 between SCB2 and RIV and brackish over saline at CASMID. Surface waters were oxygenated or well oxygenated throughout this zone and bottom waters were anoxic at CASMID. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in this area. Water temperature ranged from 22.9 to 27.3 °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 ELL. Chlorophyll fluorescence was highest at PAC indicating higher microalgal activity in this area. Water temperature ranged from 21.6 to 26.0 °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 March 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.