



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

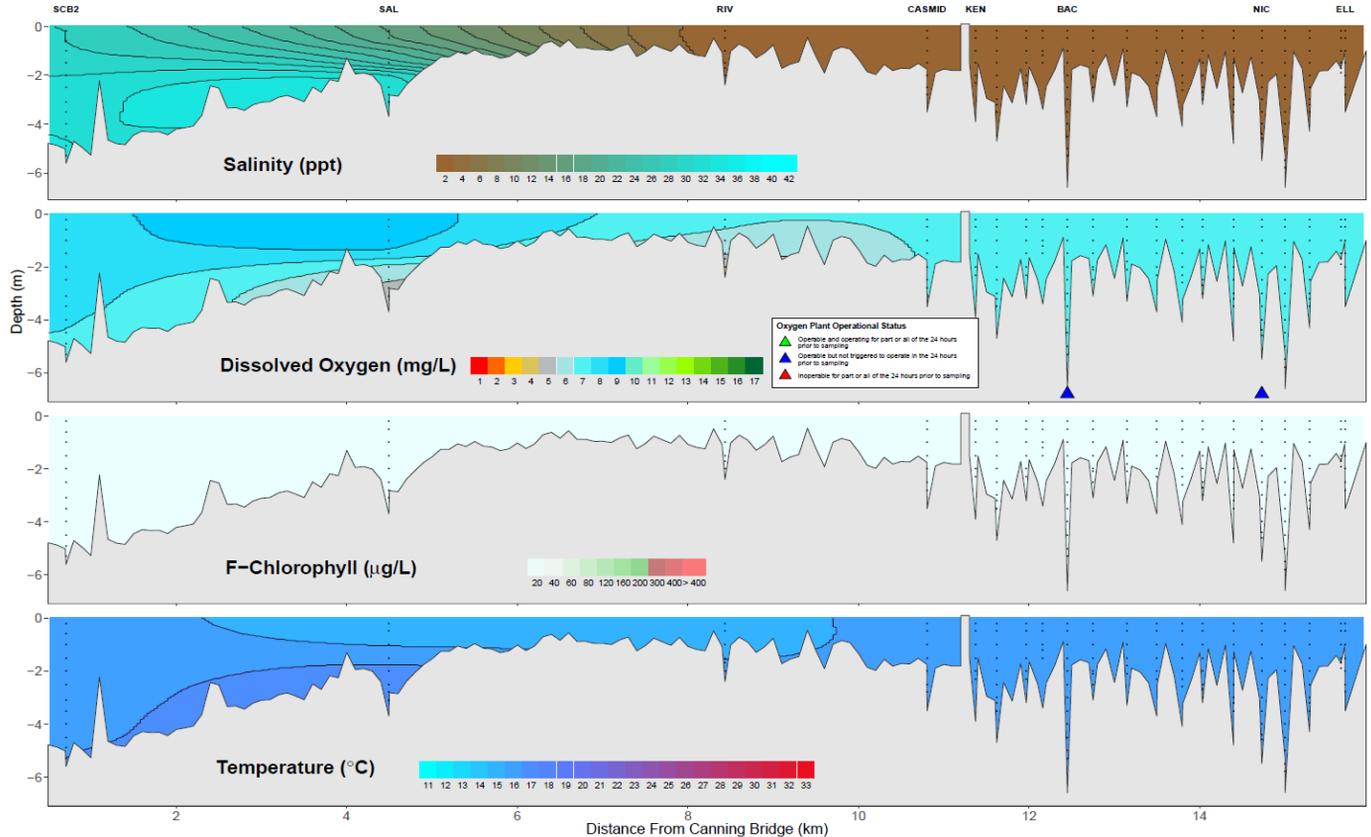
Weekly Profile Report for the Canning Estuary and Lower Canning River

30th June 2020

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Canning River Estuary – Physical-Chemical Profile – 30th Jun 2020



Date: 30th June 2020

Weather & tide conditions: Conditions were overcast with a north-westerly breeze of up to 5 knots. The predicted tides at Barrack St were 1.07 m at 8:07 am (high tide) and 0.81 m at 7:02 pm (low tide). There was a significant storm surge on top of predictions. Flow was observed at Kent St Weir. Gosnells recorded 2.4 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

NB: Multiple gates at Kent Street Weir were opened between 28-29th June 2020 to alleviate flooding in the Canning River upstream of the weir.

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational but not 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 SAL and fresh from RIV to CASMID. Waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 14.5 to 16.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 15.1 to 15.5 °C.

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

Oxygenation Plant Operational Status:

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

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