



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

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Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

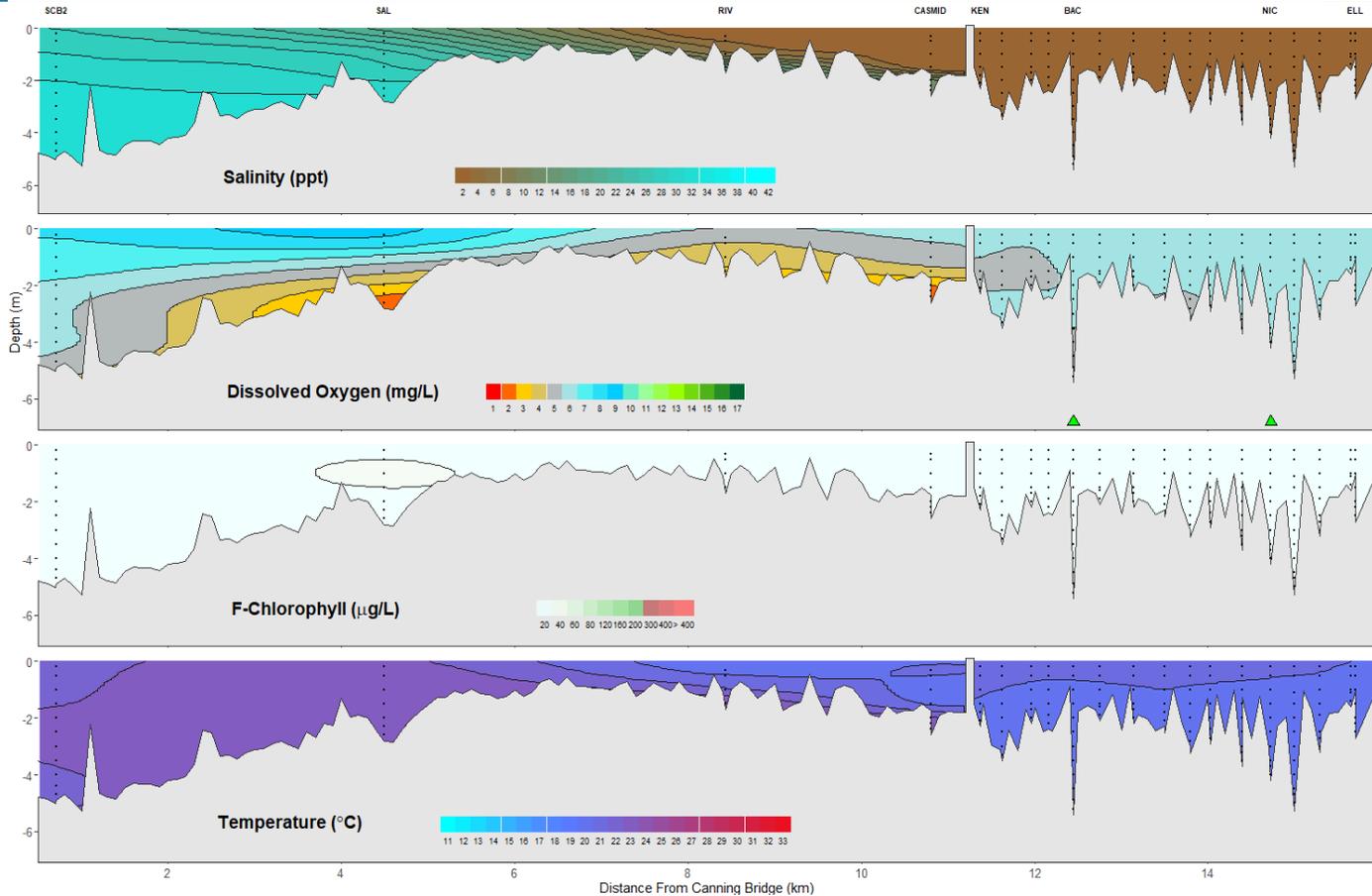
Canning Estuary and Lower Canning River

3rd November 2020

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Canning Estuary and Lower Canning River- Water Quality Profiles – 3rd November 2020



Date: 3rd November 2020

Weather & tide conditions: Conditions were cloudy with a predominantly easterly breeze of up to 6 knots. The predicted tide at Barrack St was 0.55 m at 9:07 am (low tide). Gosnells recorded 28.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was saline at SCB2, brackish over saline at SAL and fresh over brackish from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen at RIV and hypoxic at SAL and CASMID. Chlorophyll fluorescence was highest at SAL indicating higher microalgal activity in that area. Water temperature ranged from 19.3 to 23.5 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh, waters were oxygenated or well oxygenated and chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 19.2 to 21.1 °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