



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

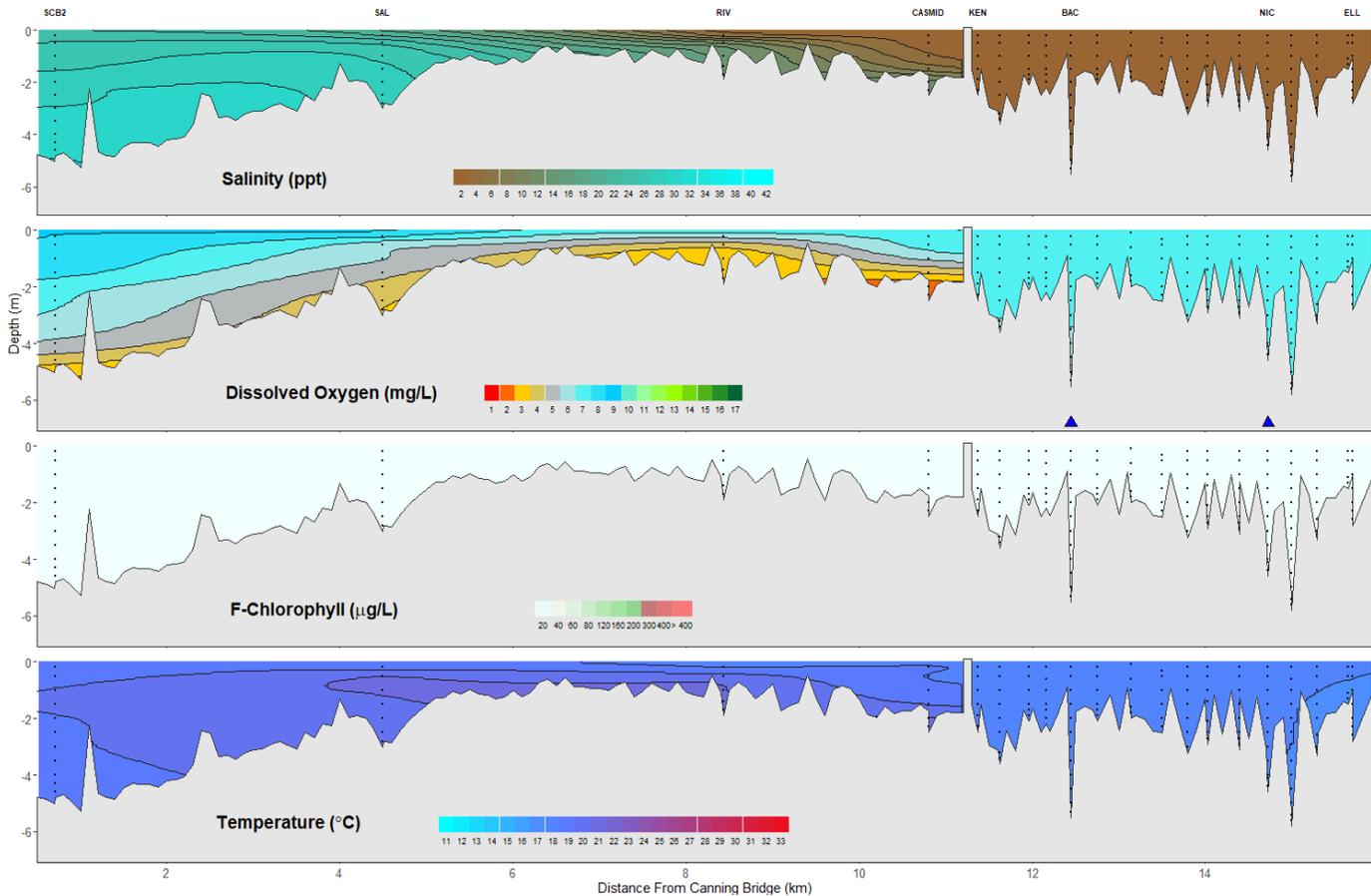
Canning Estuary and Lower Canning River

30th September 2020

Prepared by

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Canning Estuary and Lower Canning River- Water Quality Profiles- 30th September 2020



Date: Wednesday 30th September 2020

Weather & tide conditions: Conditions were cloudy with a variable breeze of up to 6 knots. The predicted tides at Barrack St were 0.7 m at 3:52 am (low tide), 0.89 m at 10:33 am (high tide) and 0.66 m at 5:41 pm (second low tide). Gosnells recorded 10.1 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

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 brackish over saline at SCB2 and SAL, brackish at RIV and fresh over brackish at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen between SCB2 and SAL and hypoxic from RIV to CASMID. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 18.4 to 20.0 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and waters were oxygenated or well oxygenated. Chlorophyll fluorescence was highest at NICD200 indicating higher microalgal activity in that area. Water temperature ranged from 16.8 to 17.9 °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