



Swan Canning Estuary Water Quality Monitoring Project

Weekly Water Quality Report

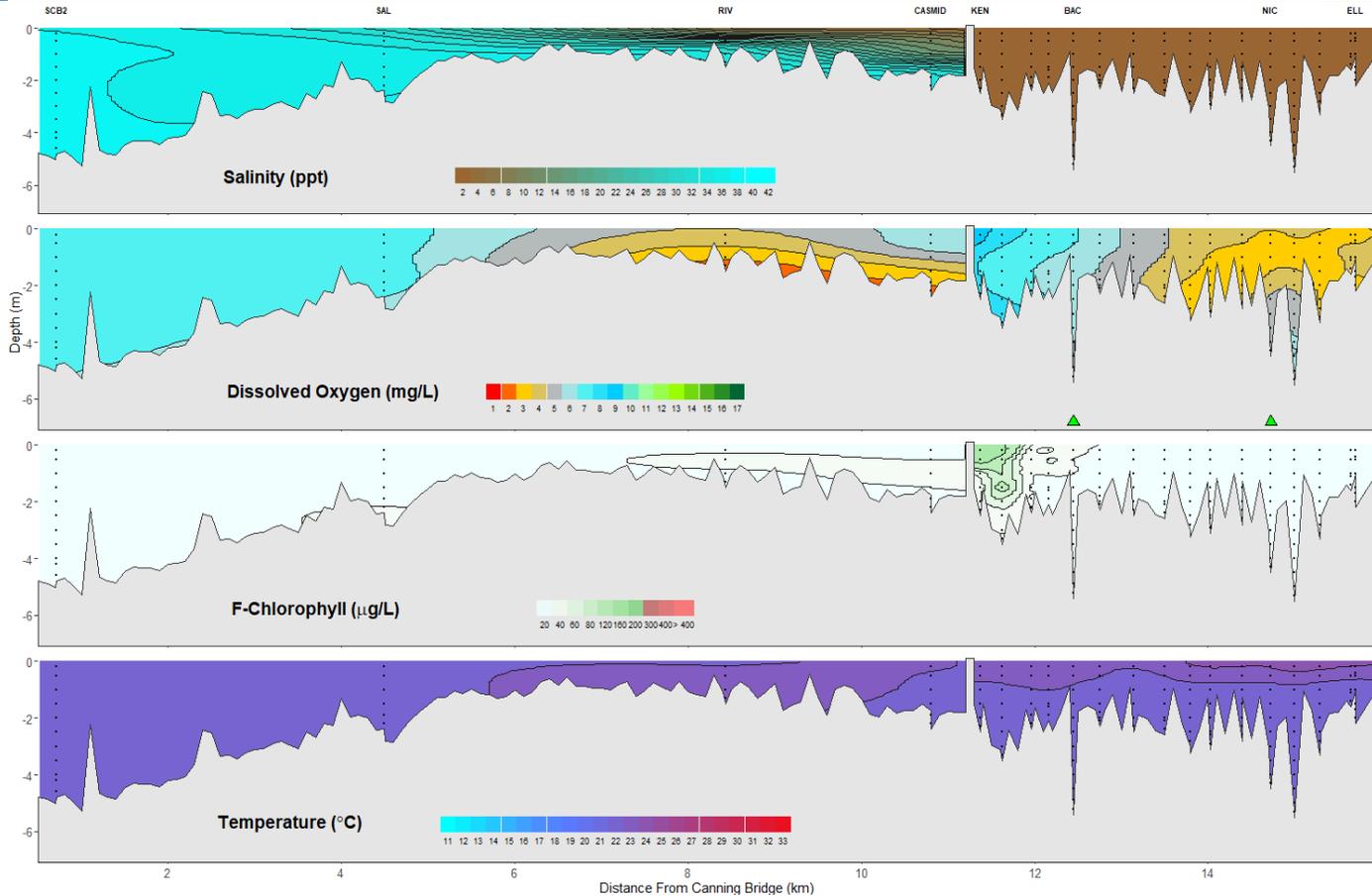
Canning Estuary and Lower Canning River

9th February 2021

Prepared by

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Canning Estuary and Lower Canning River - Water Quality Profiles – 9th February 2021



Distance From Canning Bridge (km)

Date: 9th February 2021

Weather & tide conditions: Conditions were clear with a predominantly westerly breeze of up to 4 knots. The predicted tides at Barrack St were 0.49 m at 07:45 am (low tide) and 1.16 m at 9:31 pm (high tide). Gosnells recorded 25.3 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd 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 between SCB2 and SAL and brackish over saline from RIV to CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were hypoxic between RIV and CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 21.4 to 22.8 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Surface waters were oxygenated or well oxygenated between KEN and PO2 and low in oxygen from GRE to ELL. Bottom waters were low in oxygen between GRE and NICD200 and from PAC to ELL. Chlorophyll fluorescence was highest at KEN indicating higher microalgal activity in that area. Water temperature ranged from 21.2 to 24.2 °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