



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

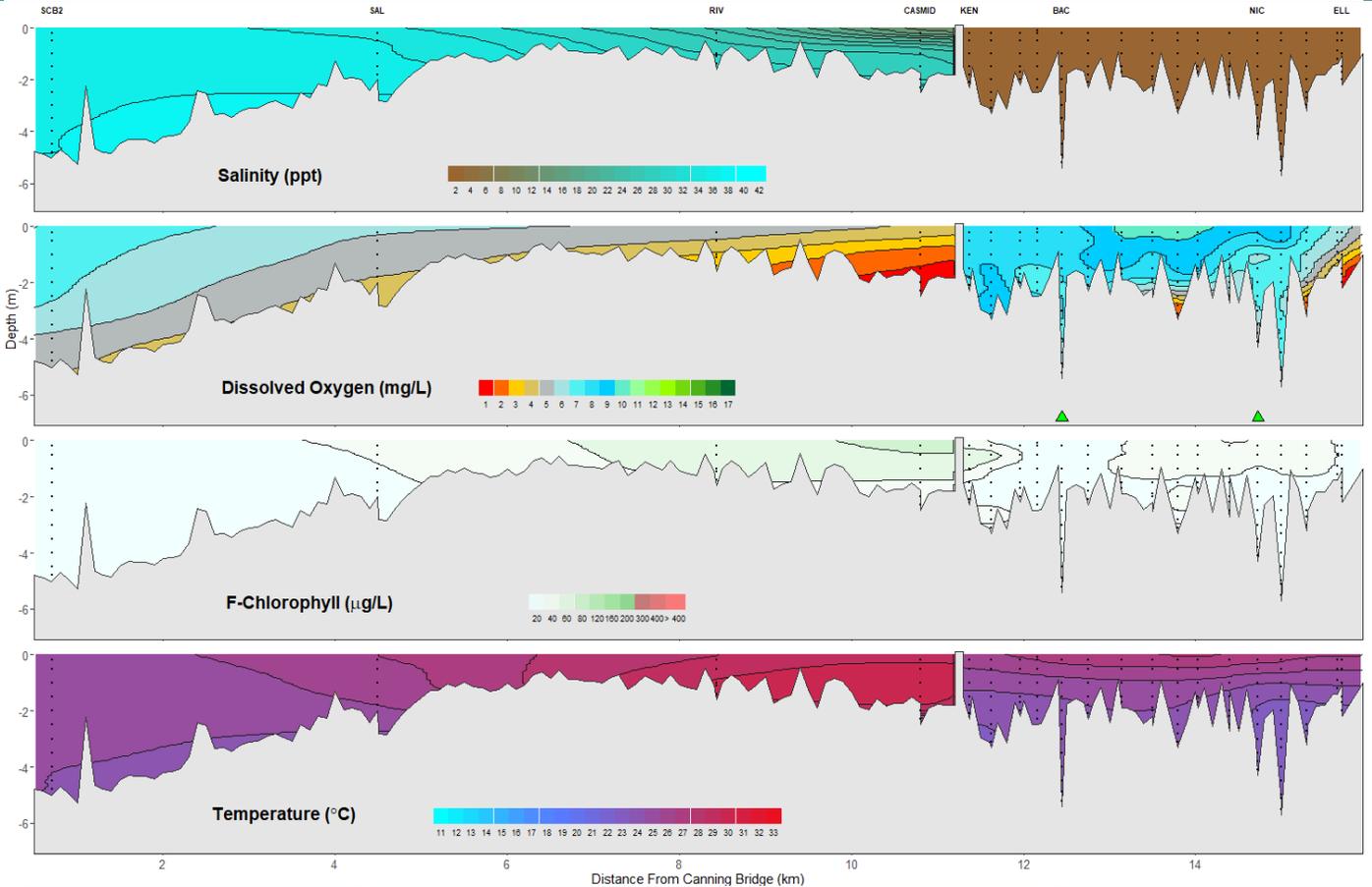
Canning Estuary and Lower Canning River

16th February 2021

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Canning Estuary and Lower Canning River - Water Quality Profiles – 16th February 2021



Date: 16th February 2021

Weather & tide conditions: Conditions were clear with a variable breeze of up to 4 knots. The predicted tides at Barrack St were 0.67 m at 07:37 am (low tide), 0.89 m at 3:09 pm (high tide) and 0.84 m at 7:11 pm (second low tide). Gosnells recorded no 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 from SCB2 to RIV and brackish over saline at CASMID. Surface waters were oxygenated or well oxygenated from SCB2 to RIV and low in oxygen at CASMID. Bottom waters low in oxygen from SAL to RIV and anoxic at CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in that area. Water temperature ranged from 23.9 to 29.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh. Surface waters were oxygenated or well oxygenated and bottom waters were hypoxic at KS7, PAC and ELL. Chlorophyll fluorescence was highest at KENU300 indicating higher microalgal activity in that area. Water temperature ranged from 22.3 to 27.5 °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