



Swan Canning Estuary Water Quality Monitoring Project

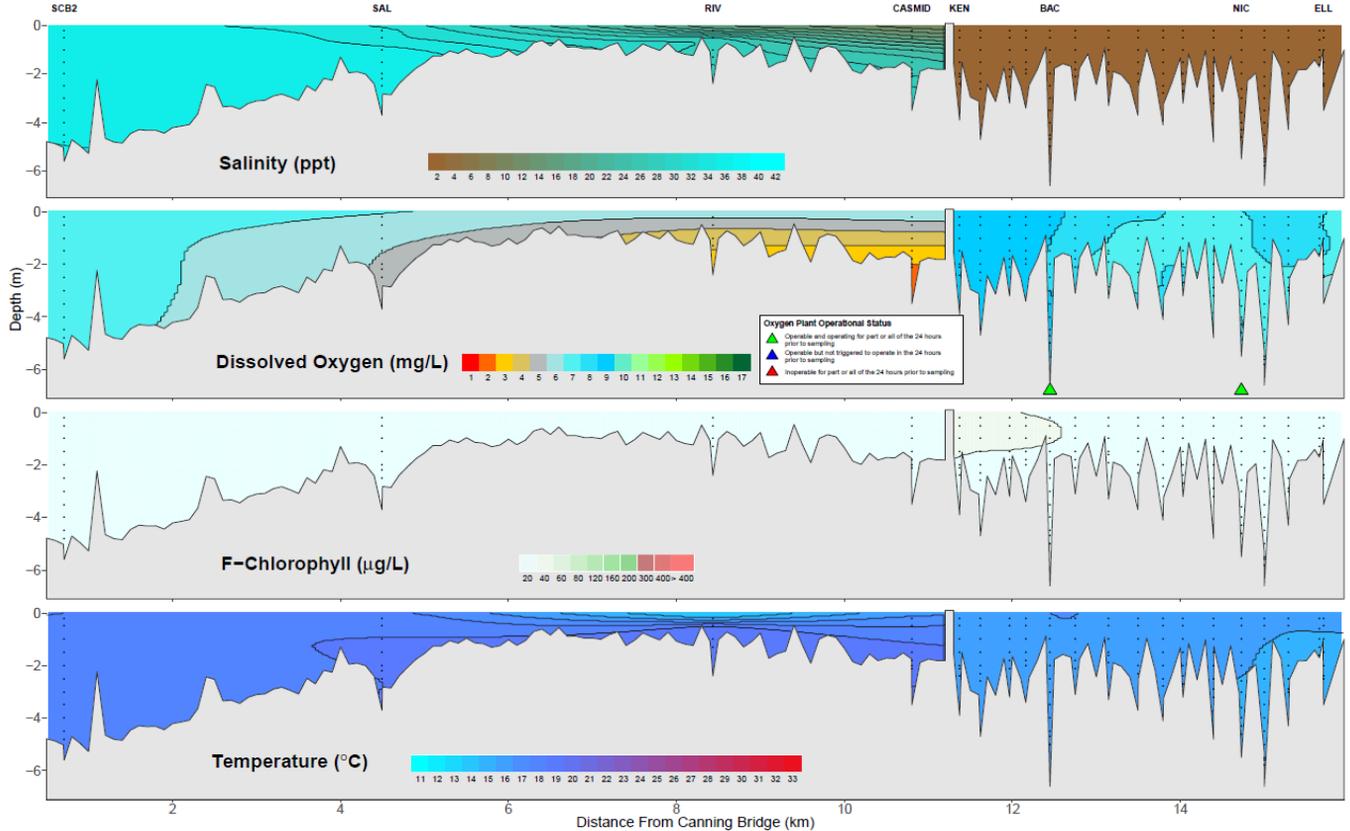
Weekly Profile Report for the Canning Estuary and Lower Canning River

12th May 2020

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Canning River Estuary – Physical-Chemical Profile – 12th May 2020



Date: 12th May 2020

Weather & tide conditions: Conditions were overcast with a predominantly easterly breeze of up to 10 knots. The predicted tides at Barrack St were 0.65 m at 1:09 am (low tide overnight) and 1.18 m at 1:40 pm (high tide) and flow was observed at Kent St Weir. Gosnells recorded 0.5 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Nicholson Rd and Bacon St oxygenation plants were both 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 SAL and brackish over saline between RIV and CASMID. Surface waters were oxygenated or well oxygenated. Bottom waters were low in oxygen at RIV and hypoxic at CASMID. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 17.1 to 18.5 °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 BACD300 indicating higher microalgal activity in that area. Water temperature ranged from 14.6 to 16.1 °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