



Swan Canning Estuary Water Quality Monitoring Project

Weekly Profile Report for the Canning Estuary and Lower Canning River

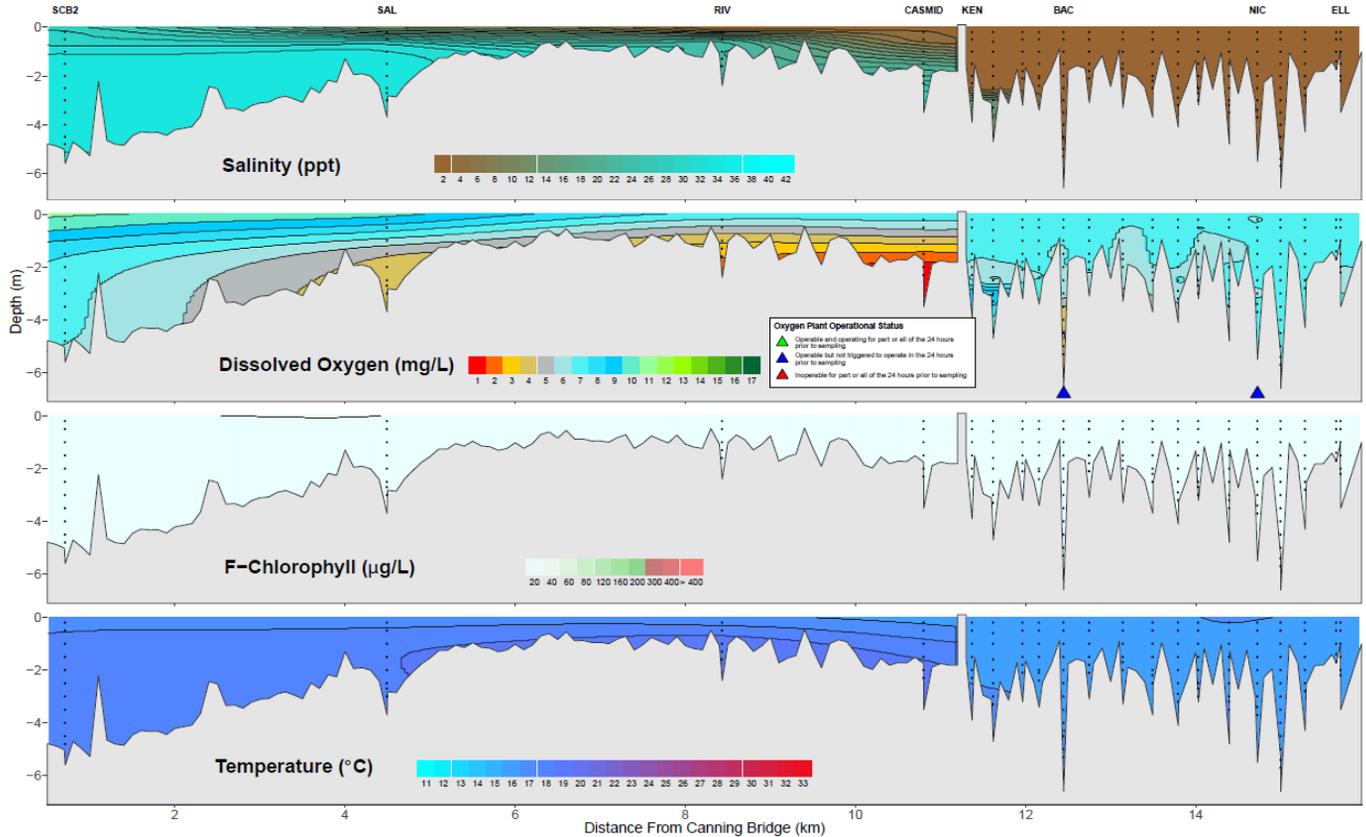
16th June 2020

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Canning River Estuary – Physical-Chemical Profile – 16th Jun 2020



Date: 16th June 2020

Weather & tide conditions: Conditions were clear with a variable breeze of up to 3 knots. The predicted tides at Barrack St were 1.12 m at 7:16 am (high tide) and 0.87 m at 6:21 pm (low tide). Flow was observed at Kent St Weir. Gosnells recorded 8 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and the 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 saline at SCB2, brackish over saline from SAL to RIV and fresh over brackish at CASMID. Surface waters were oxygenated or well oxygenated and bottom waters were low in oxygen between SAL and RIV and anoxic at CASMID. Chlorophyll fluorescence was highest at SAL indicating higher microalgal activity in that area. Water temperature ranged from 15.6 to 19.0 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout except at KENU300 which was fresh over brackish. Waters were oxygenated or well oxygenated except bottom waters at BAC which were low in oxygen. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 15.5 to 16.5 °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