



Department of Biodiversity,
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Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

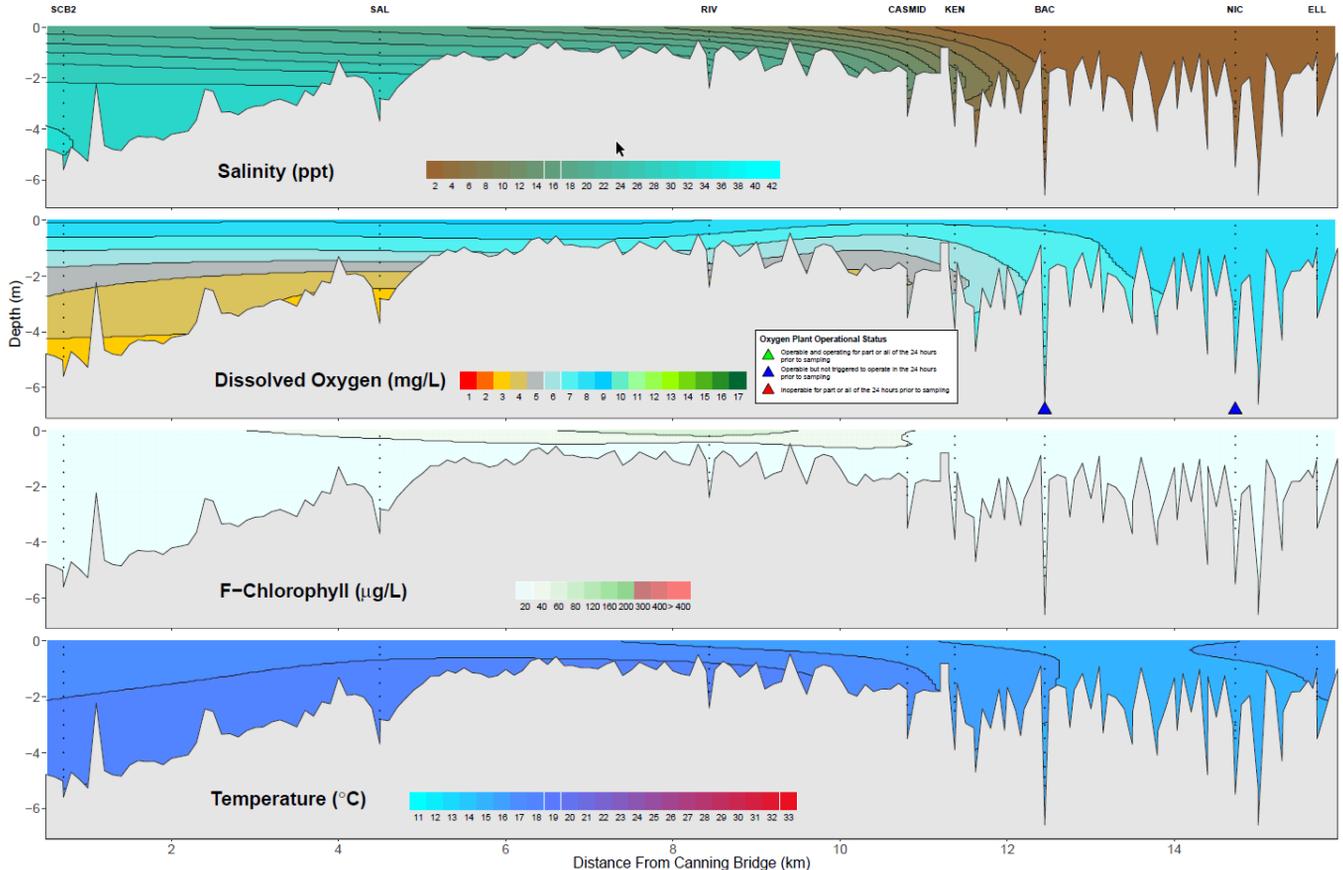
Weekly Profile Report for the Canning Estuary and Lower Canning River

13 August 2019

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Canning River Estuary – Physical-Chemical Profile – 13th Aug 2019



Date: 13 August 2019

Weather & tide conditions: Conditions were overcast with up to 100% cloud cover and predominantly north-westerly breezes of up to 6 knots. The tide was in flood during the sampling period. Gosnells recorded 8.7mm of rainfall during the week prior to the morning of sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational but not triggered on during the week 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 well oxygenated from SCB2 to CASMID with low oxygen bottom waters at most sites. Chlorophyll fluorescence was highest between SAL and CASMID indicating higher microalgal activity at these sites. Water temperature ranged from 15 to 17.6° C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout the profile at all sites except KEN. Some overtopping of the weir during a storm-surge had occurred at KEN and that site was fresh over brackish. All sites were oxygenated. Water temperature ranged from 14.7 to 15.7° C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary, 13 August 2019*. Rivers and Estuaries Science Program
(<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)

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.