



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

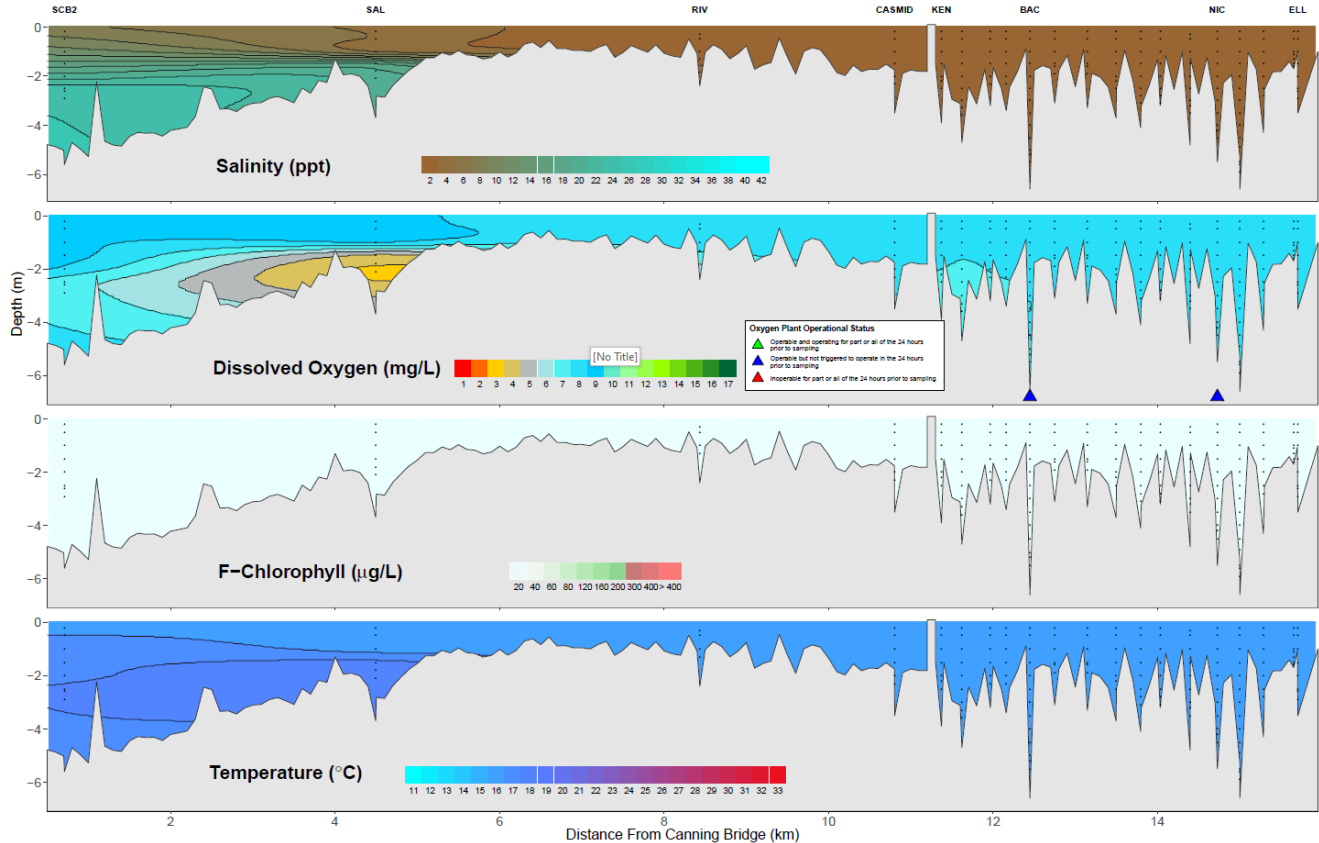
Weekly Profile Report for the Canning Estuary and Lower Canning River

3rd September 2019

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Canning River Estuary – Physical-Chemical Profile – 3rd Sep 2019



Date: 3rd September 2019

Weather & tide conditions: Conditions were overcast with up to 90 % cloud cover and a shifting breeze of up to 7 knots. The tide was ebbing and the river was flowing during the sampling period. Gosnells recorded 54.6 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operational but were not triggered to provide oxygen during the week prior to sampling.

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish at SCB2, fresh over brackish at SAL and fresh at RIV and CASMID. Surface waters were well oxygenated from SCB2 to CASMID with low oxygen bottom waters at SAL. Chlorophyll fluorescence was low throughout this zone, suggesting limited microalgal activity. Water temperature ranged from 15.3 to 17.6 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and well oxygenated throughout the water column at all sites. Chlorophyll fluorescence was low, suggesting limited microalgal activity in this zone. Water temperature ranged from 15.3 to 15.8 °C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary, 3 September 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.