



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
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Swan Canning Estuary Water Quality Monitoring Project

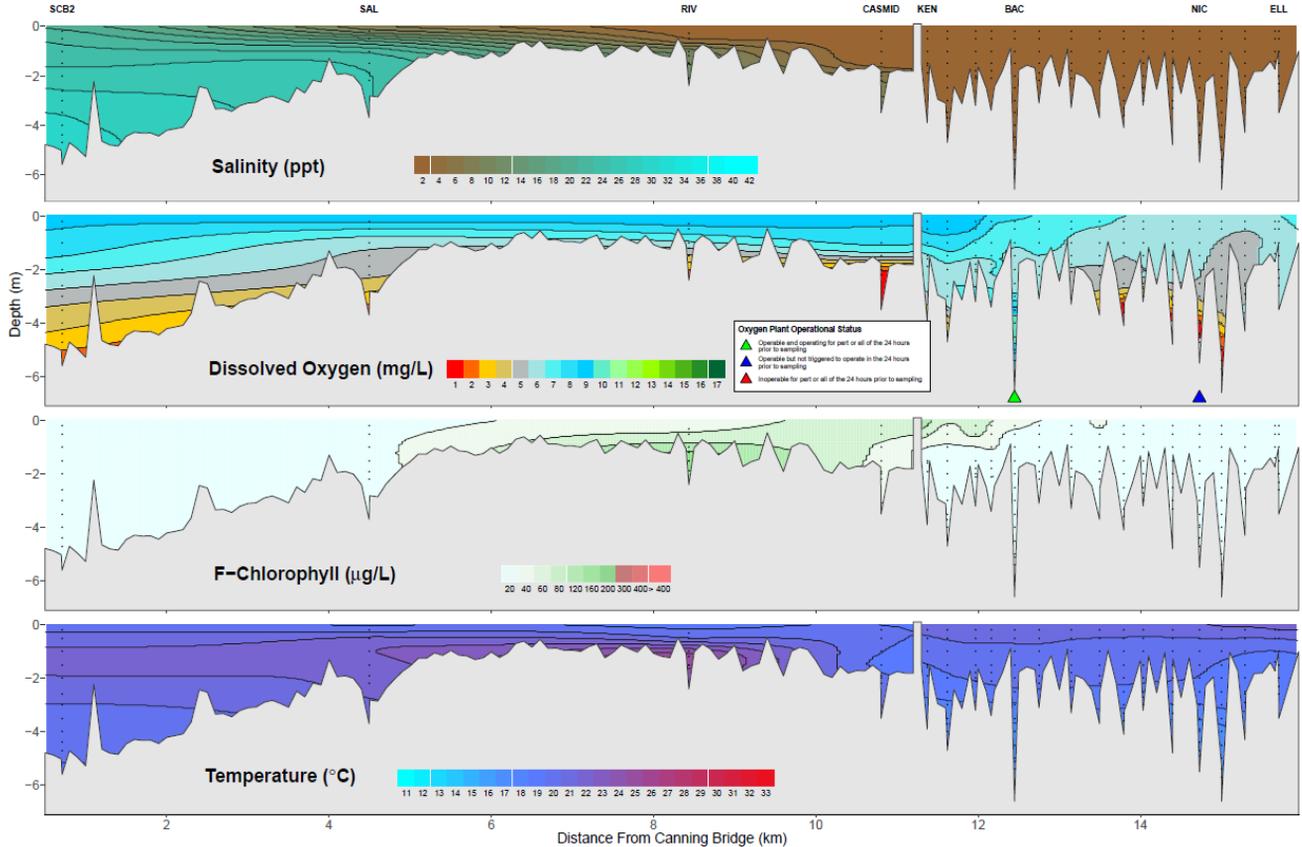
Weekly Profile Report for the Canning Estuary and Lower Canning River

2nd October 2019

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Canning River Estuary – Physical-Chemical Profile – 2nd Oct 2019



Date: 2nd October 2019

Weather & tide conditions: Conditions were overcast with up to 75% cloud cover and a shifting breeze of up to 4 knots. The tide was ebbing and the river had minimal flow during the sampling period. Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was triggered to provide oxygen and the Nicholson Rd oxygenation plant was operational but not triggered to provide oxygen the week prior to sampling

Canning Estuary (downstream of Kent St Weir): The Canning Estuary was brackish over saline at SCB2, brackish at SAL, fresh over brackish at RIV and fresh at CASMID. Surface waters were well oxygenated throughout this zone with bottom waters being low in oxygen at SCB2, SAL and RIV and hypoxic at CASMID. Chlorophyll fluorescence was high at RIV and CASMID indicating higher microalgal activity in those areas. Water temperature ranged from 18.5 to 24.2 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh and had well oxygenated surface waters with bottom waters being low in oxygen at KENU300 and hypoxic at KS7, MASD50, NIC and KS9. Chlorophyll fluorescence was high at KEN and BACD500 indicating higher microalgal activity in those areas. Water temperature ranged from 16.0 to 22.4 °C.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning estuary water quality monitoring weekly profile report, Canning River Estuary, 2nd October 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.