



Department of Biodiversity,
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Swan Canning Estuary Water Quality Monitoring Project

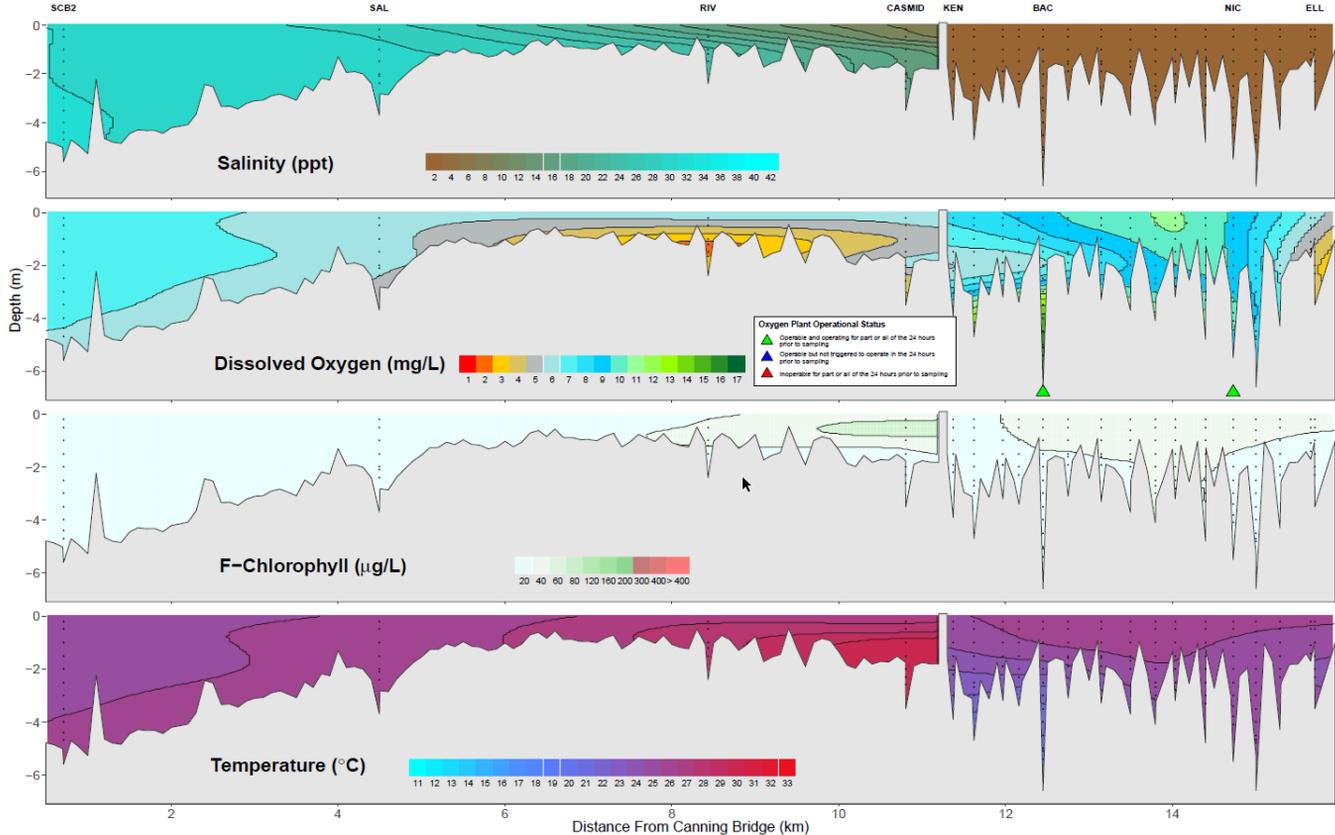
**Weekly Profile Report for the
Canning Estuary and Lower Canning River**

19th November 2019

Prepared by

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Canning River Estuary – Physical-Chemical Profile – 19th Nov 2019



Date: 19th November 2019

Weather & tide conditions: Conditions were overcast with a shifting breeze of up to 6 knots. The tide was ebbing during the sampling period from a high of 0.95 m at 1:54 am to a low of 0.52 m at 1:51 pm and flow was observed at Kent St Weir. Gosnells recorded no rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd 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 at SCB2 and SAL and brackish at RIV and CASMID. Surface waters were well oxygenated at SCB2 and oxygenated between SAL and CASMID. Bottom waters were low in oxygen at RIV and CASMID. Chlorophyll fluorescence was highest at CASMID indicating higher microalgal activity in this area. Water temperature ranged from 24.8 to 29.7 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with well oxygenated surface waters between KEN and KS9. Bottom waters were low in oxygen between PAC and ELL. Chlorophyll fluorescence was elevated between BACD500 and ELL indicating higher microalgal activity in this area. Water temperature ranged from 20.4 to 26.4 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at www.water.wa.gov.au.

Recommended reference

Department of Biodiversity, Conservation and Attractions 2019. *Swan Canning Estuary water quality monitoring weekly profile report, Canning River Estuary, 19th November*. Rivers and Estuaries Science (<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.