



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

*We're working for
Western Australia.*

Swan Canning Estuary Water Quality Monitoring Project

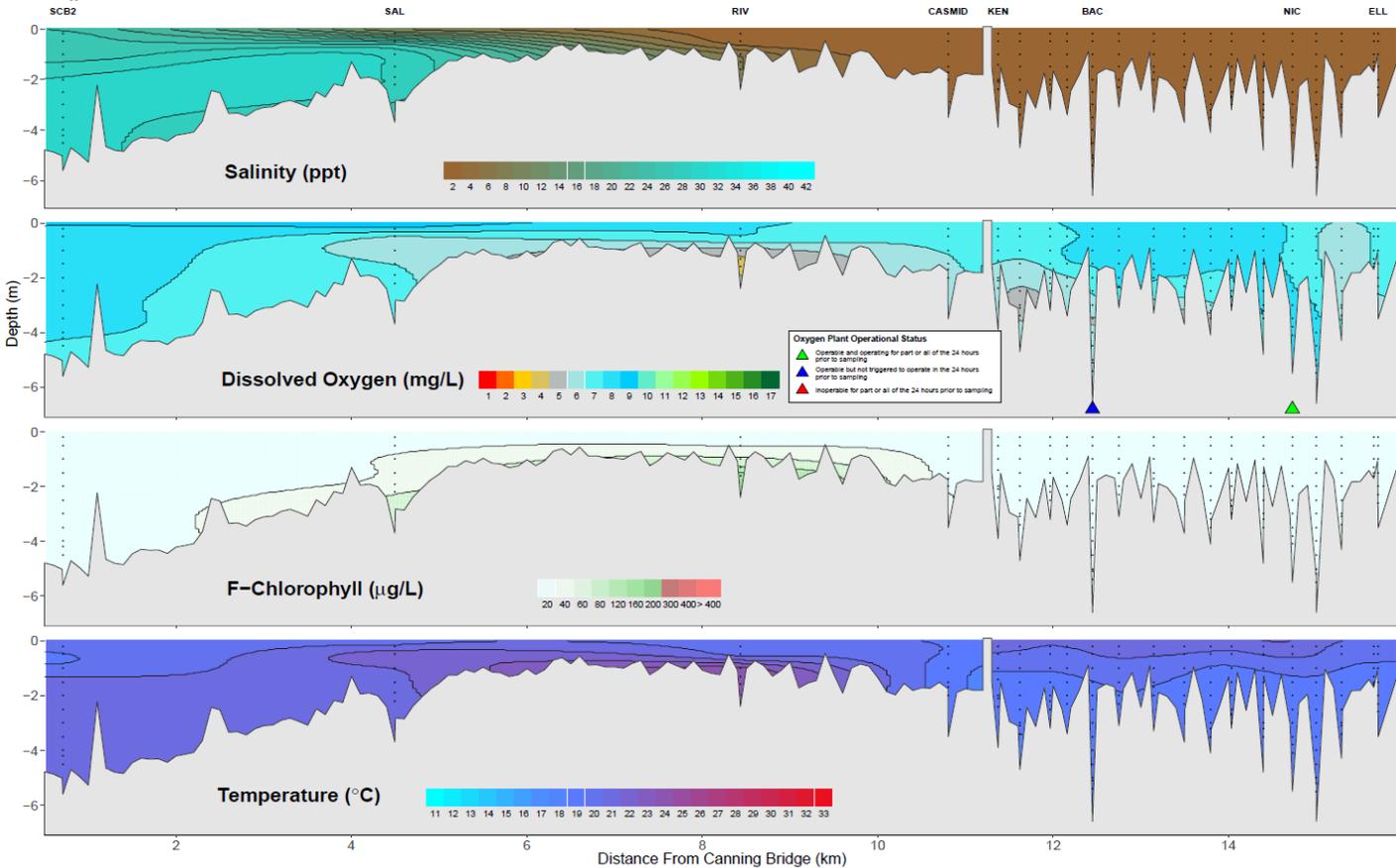
Weekly Profile Report for the Canning Estuary and Lower Canning River

5th November 2019

Prepared by

River and Estuaries Science Program,
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning River Estuary – Physical-Chemical Profile – 5th Nov 2019



Date: 5th November 2019

Weather & tide conditions: Conditions were clear with no cloud cover and a southerly breeze of up to 5.5 knots. The tide was ebbing during the sampling period from a high of 0.88m at 1:39am to a low of 0.58m at 2:40pm and flow was observed at Kent St Weir. Gosnells recorded 29.8mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St oxygenation plant was not operational and the Nicholson Rd oxygenation plant was 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 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 RIV. Chlorophyll fluorescence was highest at RIV indicating higher microalgal activity in this area. Water temperature ranged from 17.9 to 21.8 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout with well oxygenated surface waters. Bottom waters were low in oxygen between KENU300 and KS7. Chlorophyll fluorescence was low throughout this zone. Water temperature ranged from 17.9 to 21.3 °C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at wir.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, 5th November*. 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.