



Department of Biodiversity,
Conservation and Attractions



Biodiversity and
Conservation Science

*We're working for
Western Australia.*

Swan Canning Estuary Water Quality Monitoring Project

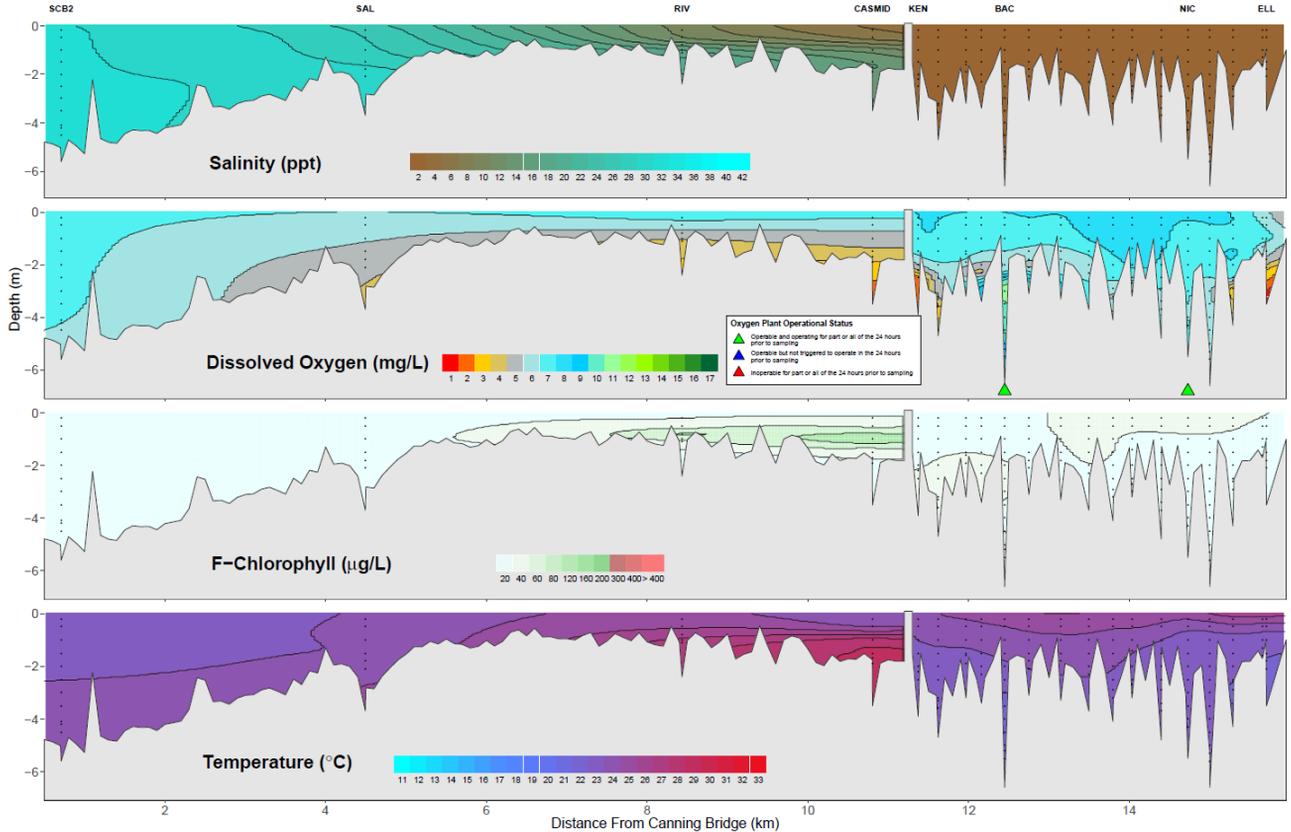
Weekly Profile Report for the Canning Estuary and Lower Canning River

26th November 2019

Prepared by

Rivers and Estuaries Science
Biodiversity and Conservation Science
Department of Biodiversity, Conservation and Attractions

Canning River Estuary – Physical–Chemical Profile – 26th Nov 2019



Date: 26th November 2019

Weather & tide conditions: Conditions were overcast with a shifting breeze of up to 5 knots. The predicted tides at Barrack St were 0.5 m at 08:05 am (low tide) and 1.06 m at 10:39 pm (high tide) 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, brackish at RIV and fresh over brackish at CASMID. Surface waters were oxygenated or well oxygenated throughout this zone. Bottom waters were low in oxygen at SAL and RIV and hypoxic at CASMID. Chlorophyll fluorescence was elevated between RIV and CASMID indicating higher microalgal activity in this area. Water temperature ranged from 22.8 to 28.1 °C.

Lower Canning River (upstream of Kent St Weir): The Lower Canning River was fresh throughout. Surface waters were well oxygenated between KEN and PAC and low in oxygen between MACD50 and ELL. Bottom waters were low in oxygen or hypoxic throughout this zone except at BAC which was well oxygenated. Chlorophyll fluorescence was slightly elevated throughout this zone indicating moderate microalgal activity. Water temperature ranged from 21.6 to 25.3 °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, 26th 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.