



# Swan Canning Estuary Water Quality Monitoring Project

## Weekly Water Quality Report

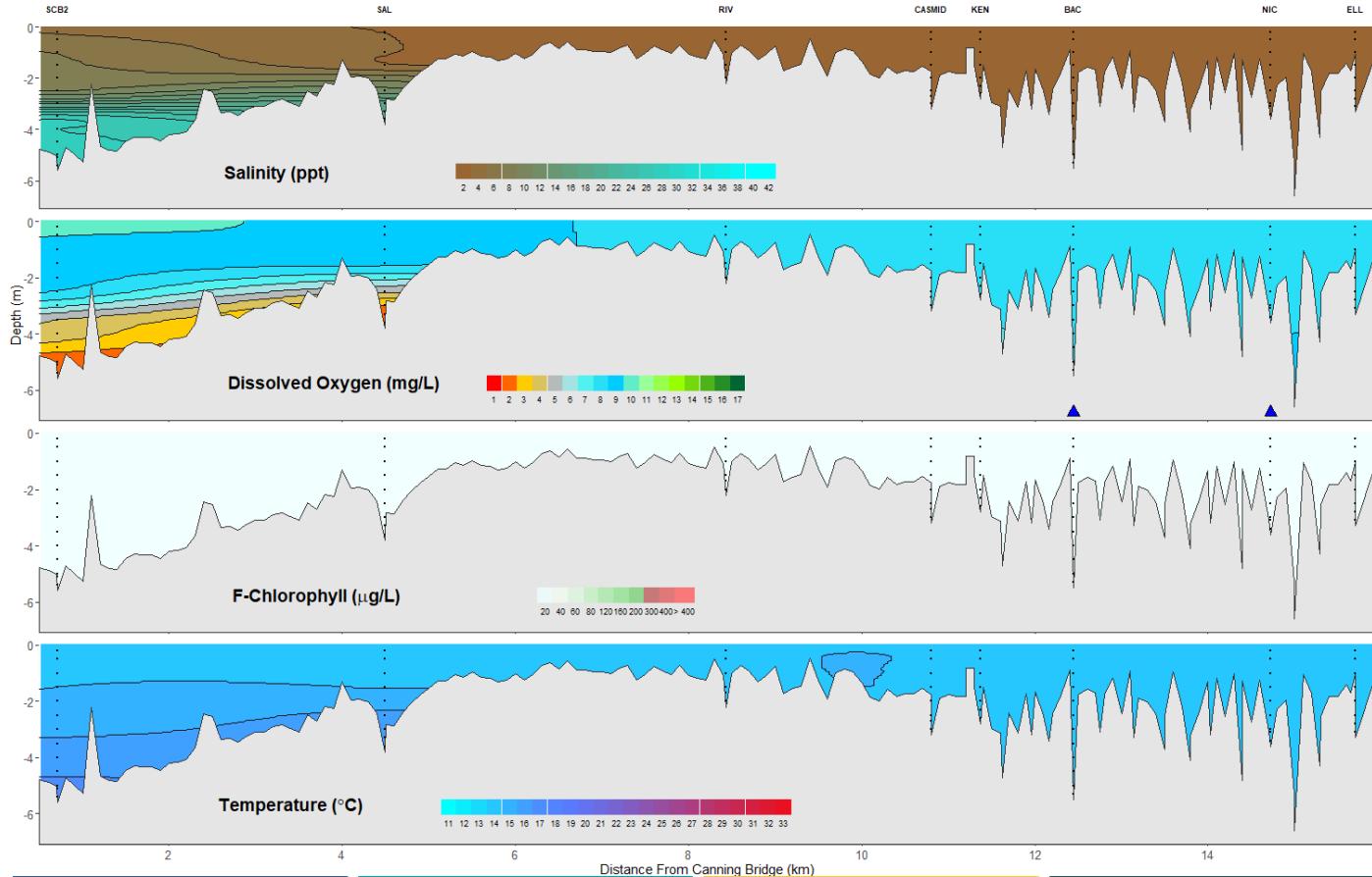
### Canning Estuary and Lower Canning River

9 August 2022

Prepared by

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

## Canning Estuary and Lower Canning River - Water Quality Profiles – 9 August 2022





Date: 9 August 2022

**Weather & tide conditions:** Conditions were stormy with a light easterly breeze of up to 3 knots. The predicted tides at Barrack St were 1.22 m at 8:33 am (high tide) and 0.59 m at 7:38 pm (low tide). Perth recorded 82.8 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

**Oxygenation:** The Bacon St and Nicholson Rd oxygenation plants were both operable but not triggered in the 24 hours prior to sampling.

**Canning Estuary (SCB2 to CASMID):** Waters were fresh over saline at SCB2, fresh over brackish at SAL and fresh from RIV to CASMID. Surface waters were well oxygenated throughout and bottom waters were hypoxic between SCB2 and SAL. Chlorophyll fluorescence was low and water temperatures ranged from 13.2 to 16.2 °C at the time of sampling.

**Lower Canning River (KEN to ELL):** The Lower Canning River was fresh and waters were well oxygenated throughout. Chlorophyll fluorescence was low and water temperatures ranged from 13.3 to 13.8 °C at the time of sampling..

**NB:** Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://wir.water.wa.gov.au).

**Oxygenation Plant Operational Status:**

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

**Definitions:**

**Salinity** – fresh <5, brackish 5-25, saline 25-35, hypersaline >35  
**Dissolved oxygen** – well oxygenated >6 mg L<sup>-1</sup>, oxygenated >4-6 mg L<sup>-1</sup>, low oxygen >2-4 mg L<sup>-1</sup>, hypoxic 0.5-2 mg L<sup>-1</sup>, anoxic <0.5 mg L<sup>-1</sup>  
**Chlorophyll fluorescence (mod/high flow)**: low < 60 µg L<sup>-1</sup>, moderate 60-160 µg L<sup>-1</sup>, high 160-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>

**Recommended reference:** Department of Biodiversity, Conservation and Attractions 2022. *Swan Canning Estuary water quality profile report, Canning Estuary and Lower Canning River 9 August 2022. Rivers and Estuaries Science* (<https://www.dpaw.wa.gov.au/management/swan-canning-riverpark>)