



Environmental Monitoring and Reporting Swan River Estuary ~ Weekly profile

by

Aquatic Science Branch, Department of Water and Environmental Regulation

Date: Monday 9th July 2018

Weather & tide conditions: Conditions were fine with 0% cloud cover and a north-easterly breeze of up to 7 knots. The predicted tides at Guildford were 1.14 m (high tide) at 08:49 and 0.76 m (low tide) at 19:34. Perth recorded 46.2 mm of rainfall during the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Caversham oxygenation plant was operational the week prior to sampling, while the Guildford oxygenation plant was operational up to 4/7/18.

Lower Swan/Canning Estuary (FP1 to NAR): The Lower Swan Estuary was hypersaline to saline from FP1 to FP7 and brackish over saline from BLA to NAR. Water was well oxygenated to oxygenated throughout. Water temperature ranged from 13.4 to 17.5 °C.

Middle Swan Estuary (NIL to RON): The Middle Swan Estuary was mostly brackish throughout with the exception of saline bottom water at STJ. Water was mostly well oxygenated to oxygenated throughout with the exception of near anoxic bottom water at STJ. Water temperature ranged from 12.5 to 17.0 °C.

Upper Swan Estuary (BWR10 to POL): The Upper Swan Estuary was brackish throughout. Water was well oxygenated at all sites. Water temperature ranged from 11.8 to 12.9 °C.

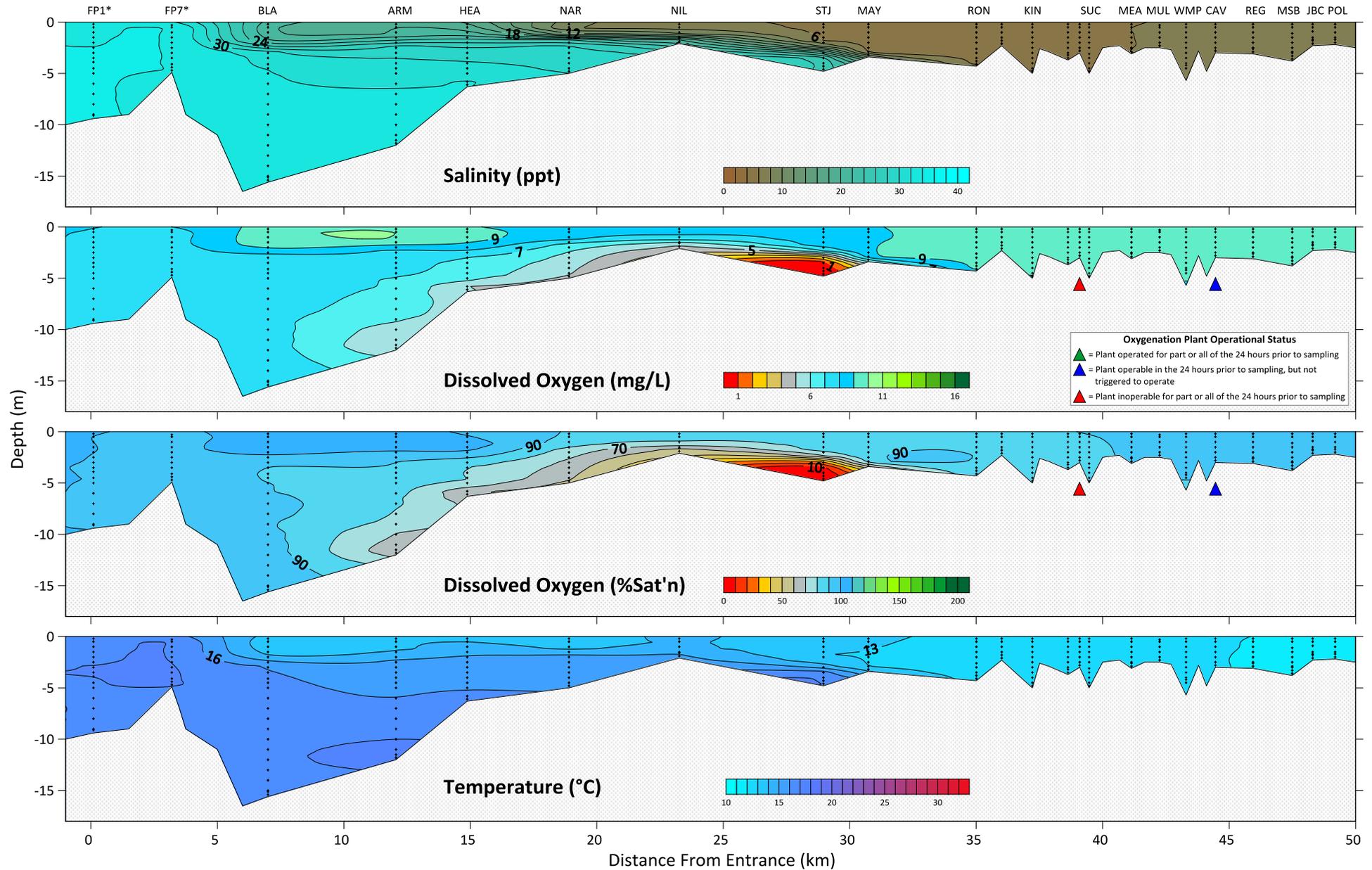
Definitions:

Salinity – fresh <5ppt, brackish 5-25ppt, saline 25-35ppt, hypersaline >35ppt

Dissolved oxygen – well oxygenated >6 mg/L
oxygenated >4 to 6 mg/L, low oxygen >2 to 4 mg/L,
hypoxic >0.5 to 2.0 mg/L, near anoxic <0.5 mg/L

Swan River Estuary - Physical-Chemical Profile - 9th July 2018

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*Data for sites FP1 (Harbour Entrance) and FP7 (Fremantle Bridge) are supplied courtesy of the Fremantle Port Authority