



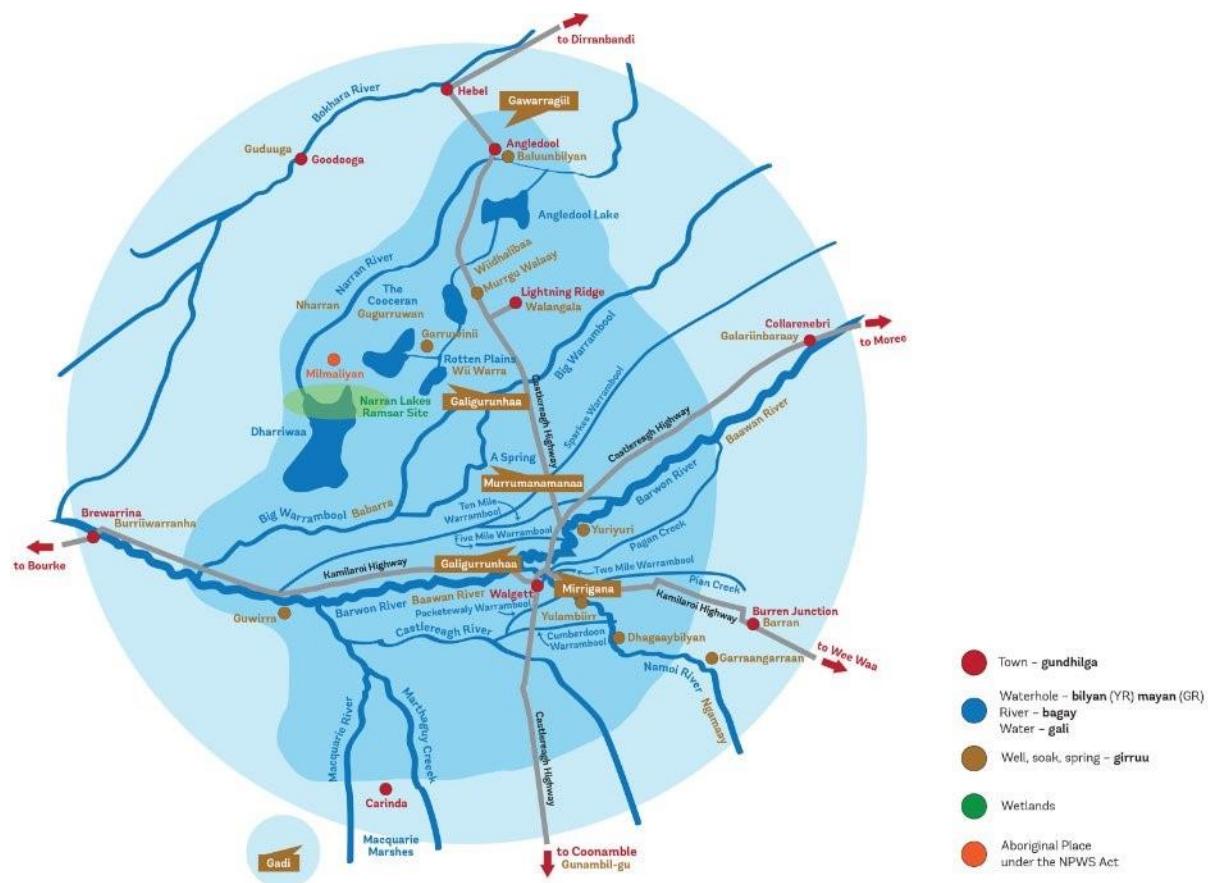
Weekly Water Monitoring Report

29th October 2024

Introduction

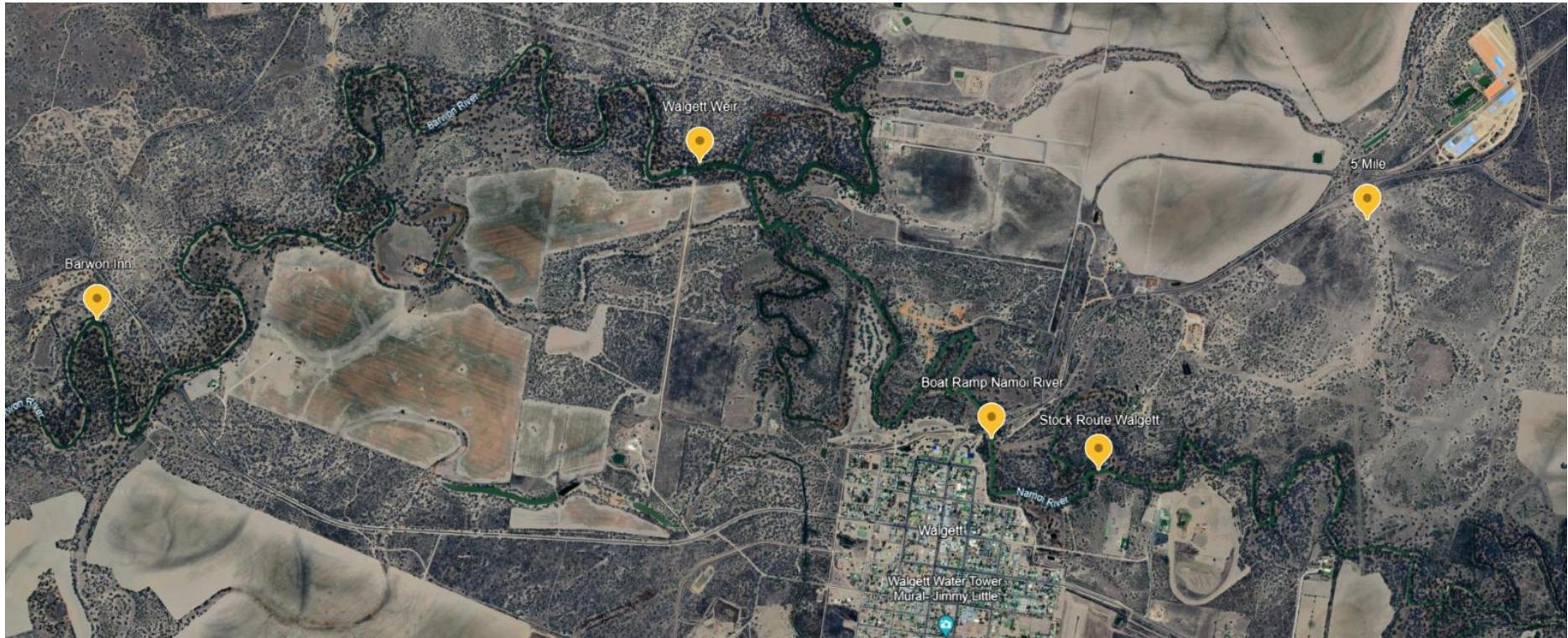
This data was collected on Tuesday 29th October between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

The Dharriwaa Elders Group River Rangers are conducting weekly water quality testing, measuring a range of factors that affect the quality of the river water. Different results affect the health of native animals and plants, and the health of the people that rely on the river for food and water.

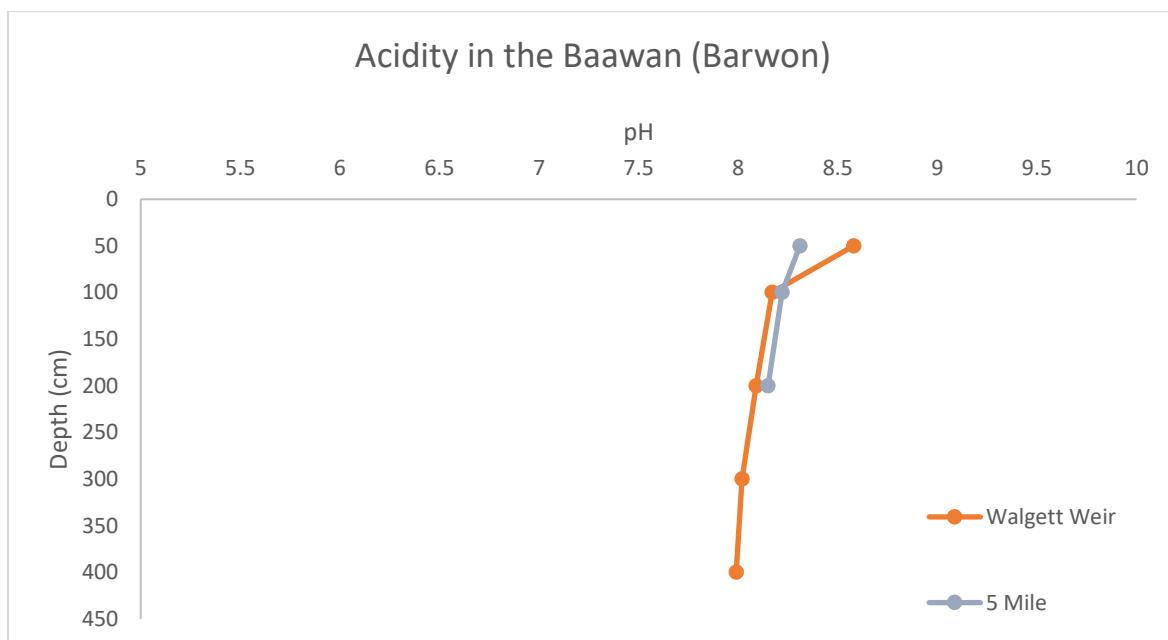
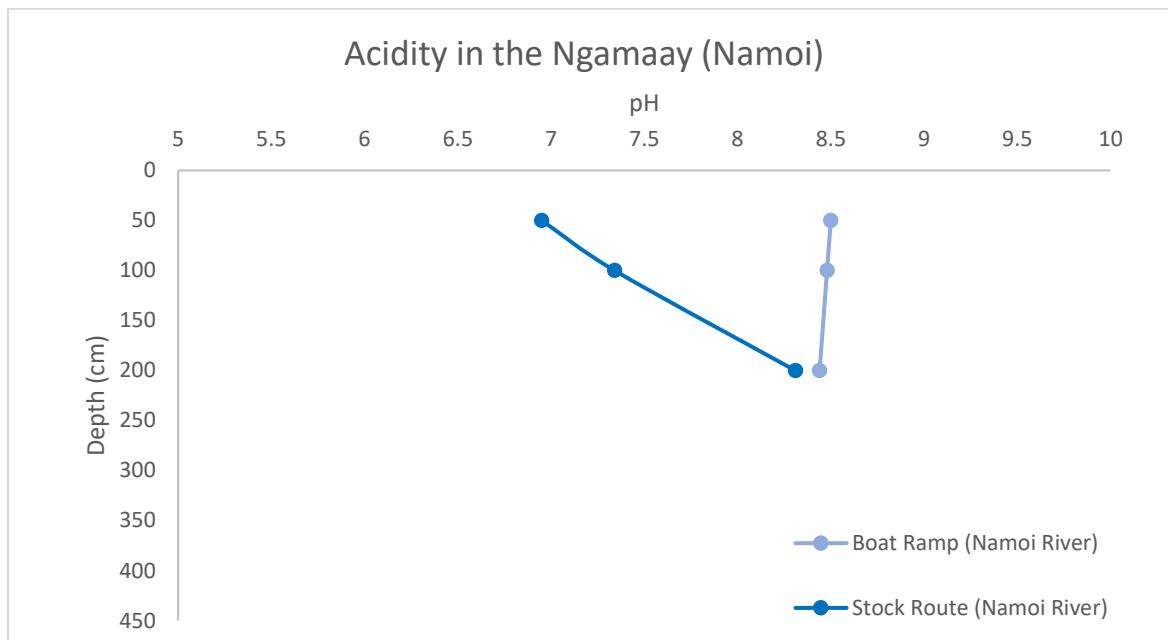


(Picture: Dharriwaa Elders Group area of interest)

Picture: Map of the Baawan (Barwon) River and Ngamaay (Namoi) River where the DEG River Rangers do their water quality monitoring.



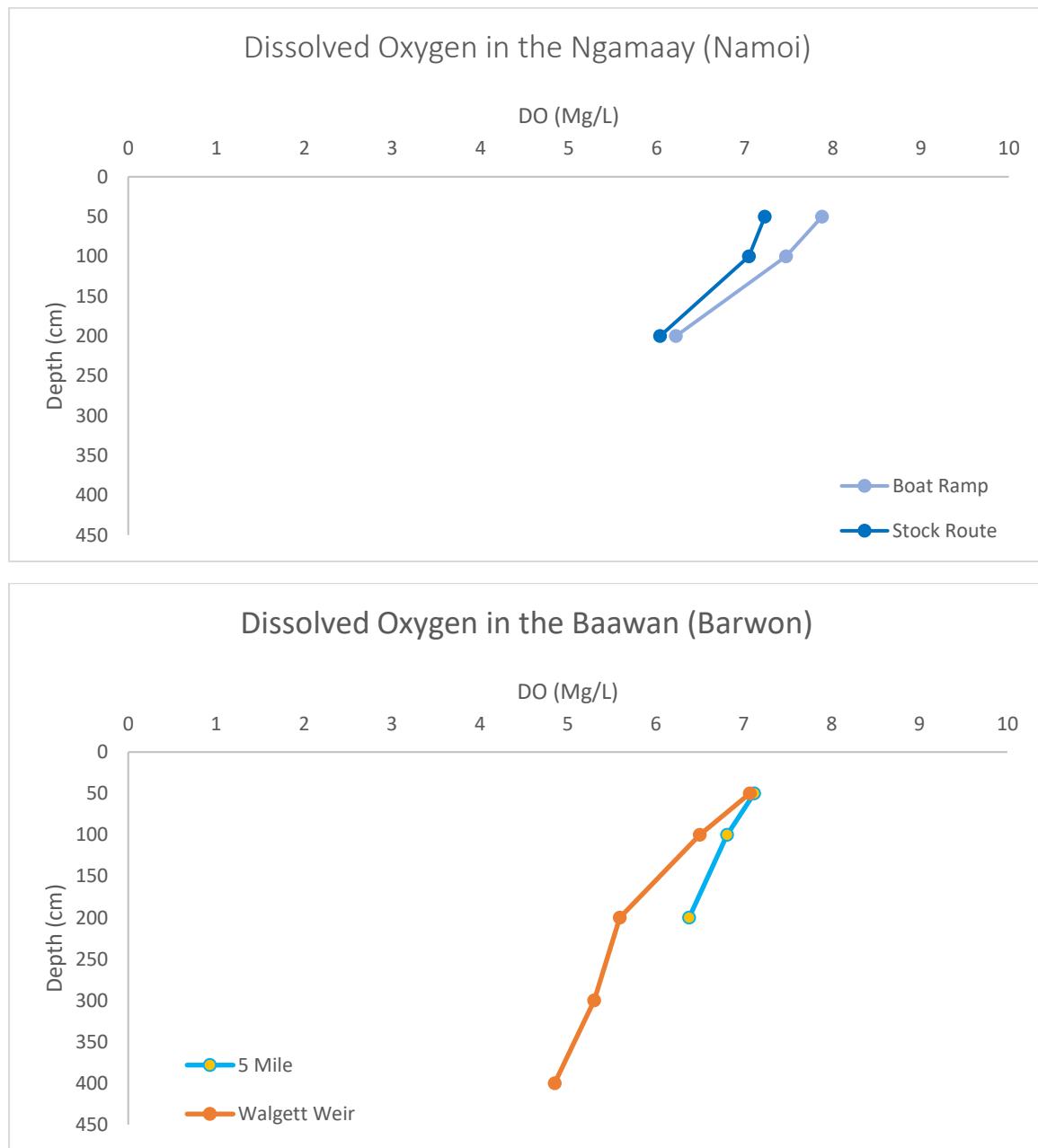
Acidity in the Ngamaay and Baawan River



The pH readings in the Ngamaay River at both sites (Boat Ramp and Stock Route) are within the healthy range. The first pH reading at the Walgett Weir is outside the healthy range, but the rest of the readings at the Walgett Weir (Baawan River) are within the healthy range. At the 5 Mile (Baawan River) the pH readings are within the healthy range. The maximum reading is 8.58 and the minimum reading is 6.95.

Healthy range: 6.5 - 8.5 pH

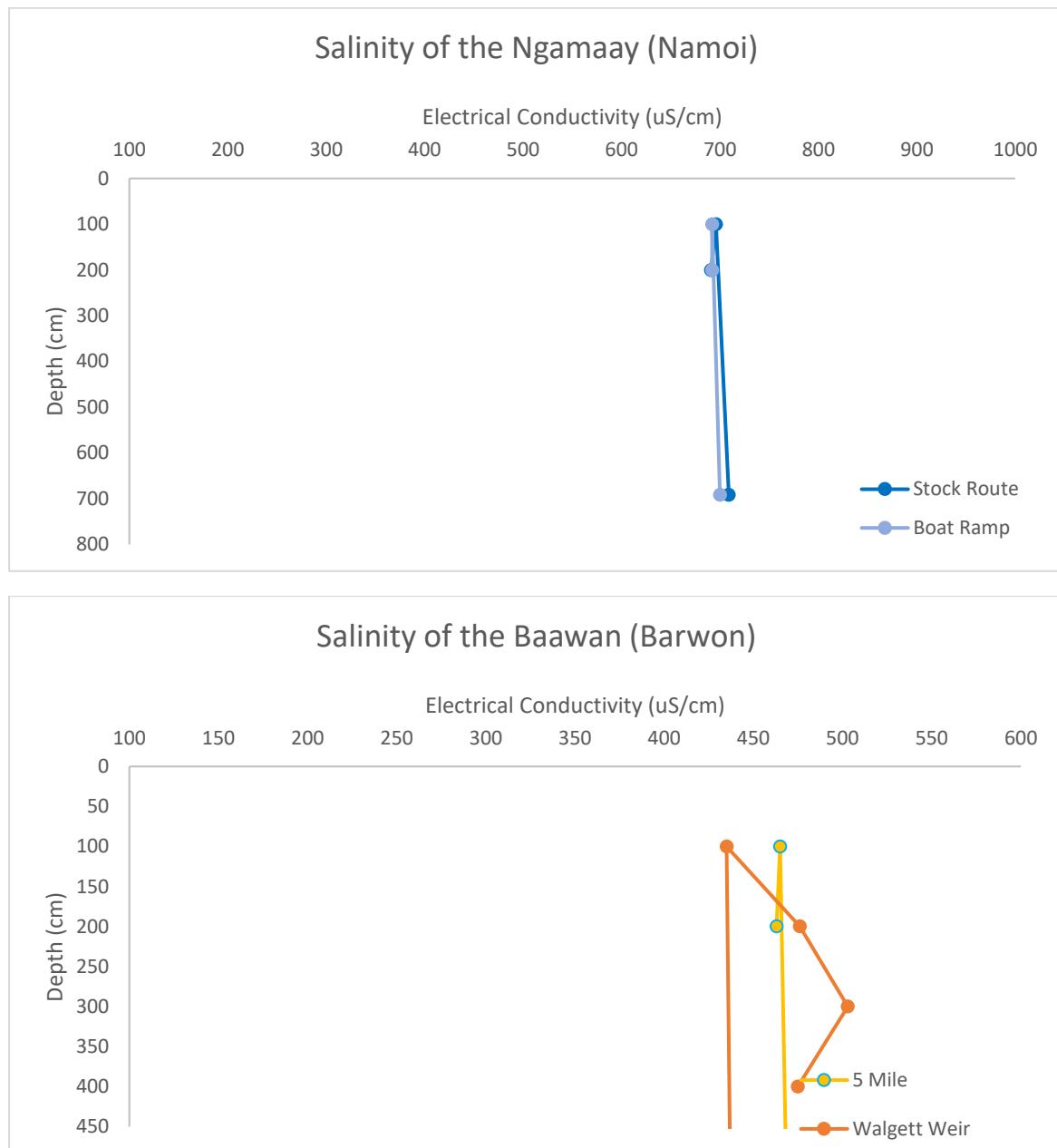
Dissolved Oxygen in the Ngamaay and Baawan River



The dissolved oxygen readings at the Boat Ramp, Stock Route (Ngamaay River) and the 5 Mile (Baawan River) are within the healthy range. The first two dissolved oxygen readings at the Walgett Weir (Baawan River) are within the healthy range but the last three readings are outside the healthy range. The maximum reading is 7.88 and the minimum reading is 4.85.

Healthy Range: 6 - 8 (Mg/L)

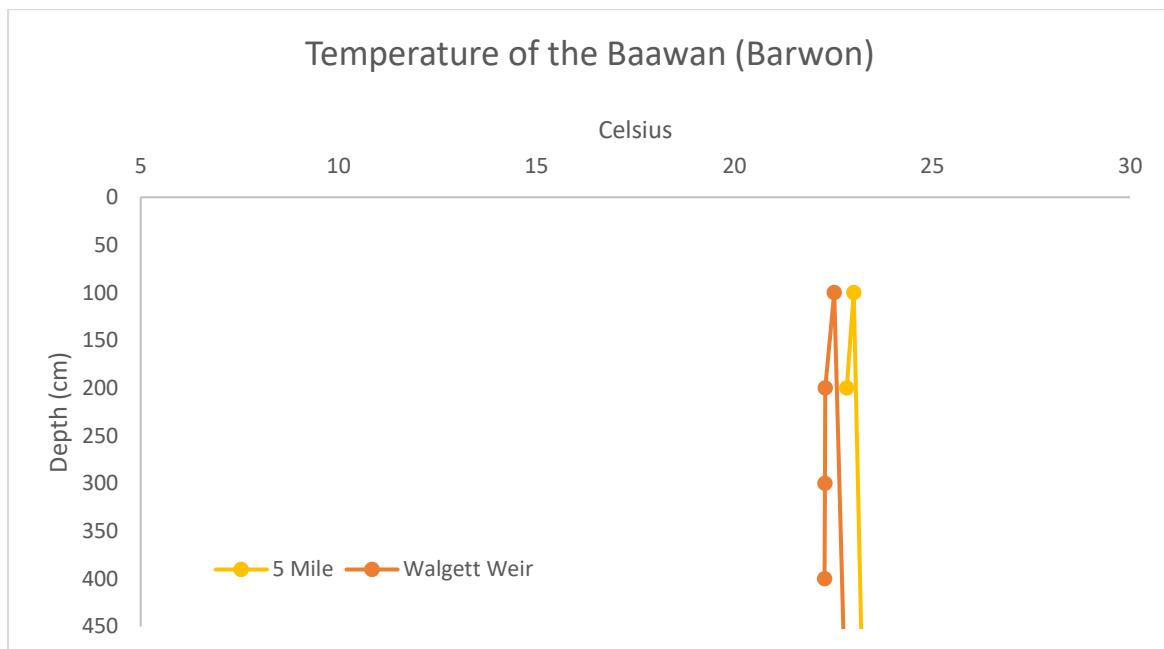
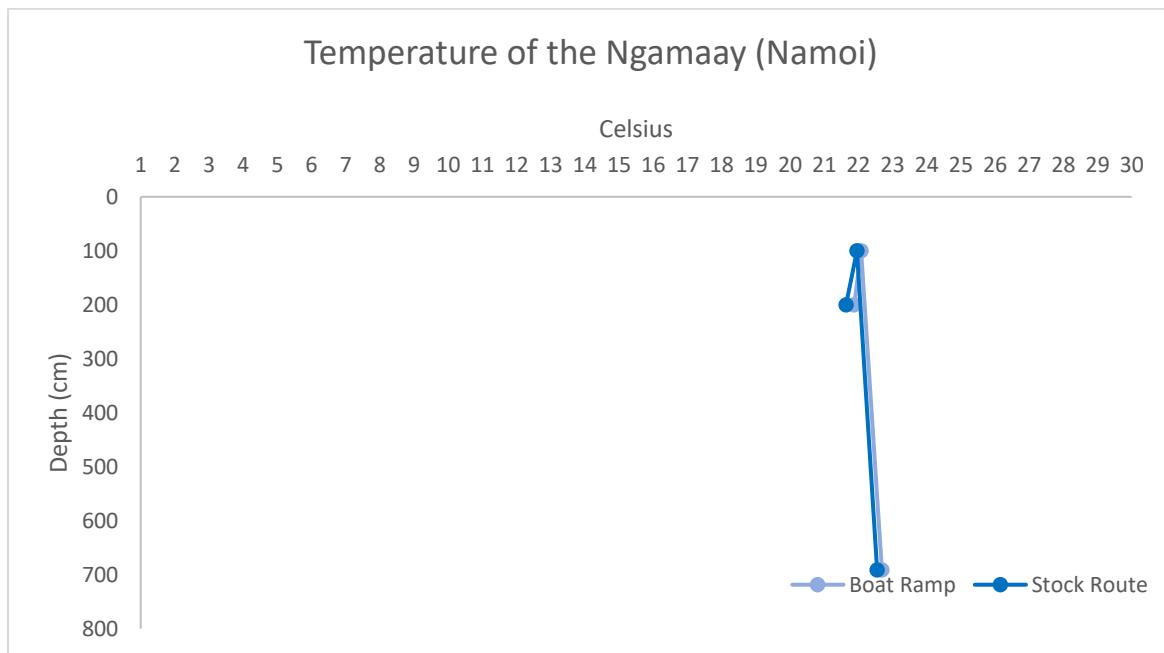
Salinity in the Ngamaay and Baawan River



The salinity at all sites in both Rivers is within a healthy range. The maximum reading is 709 and the minimum reading is 435.

Healthy Range: 125 - 2,200 uS/cm

Temperature in Ngamaay and Baawan River



The temperatures measured at all sites in both Rivers are within the healthy range. The maximum reading is 23.02 and the minimum reading is 21.64.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

The pH at both sites in the Ngamaay River is within the healthy range. Majority of the pH readings at the Walgett Weir (Baawan River) are within the healthy range. The pH readings at the 5 Mile (Baawan River) are within the healthy range.

The dissolved oxygen readings at both sites in the Ngamaay River are within the healthy range. The dissolved oxygen readings at the 5 Mile (Baawan River) are also within the healthy range. Majority of the dissolved oxygen readings at the Walgett Weir (Baawan River) are outside the healthy range.

The salinity and temperature at all sites in the Ngamaay and Baawan River are within the healthy range.