



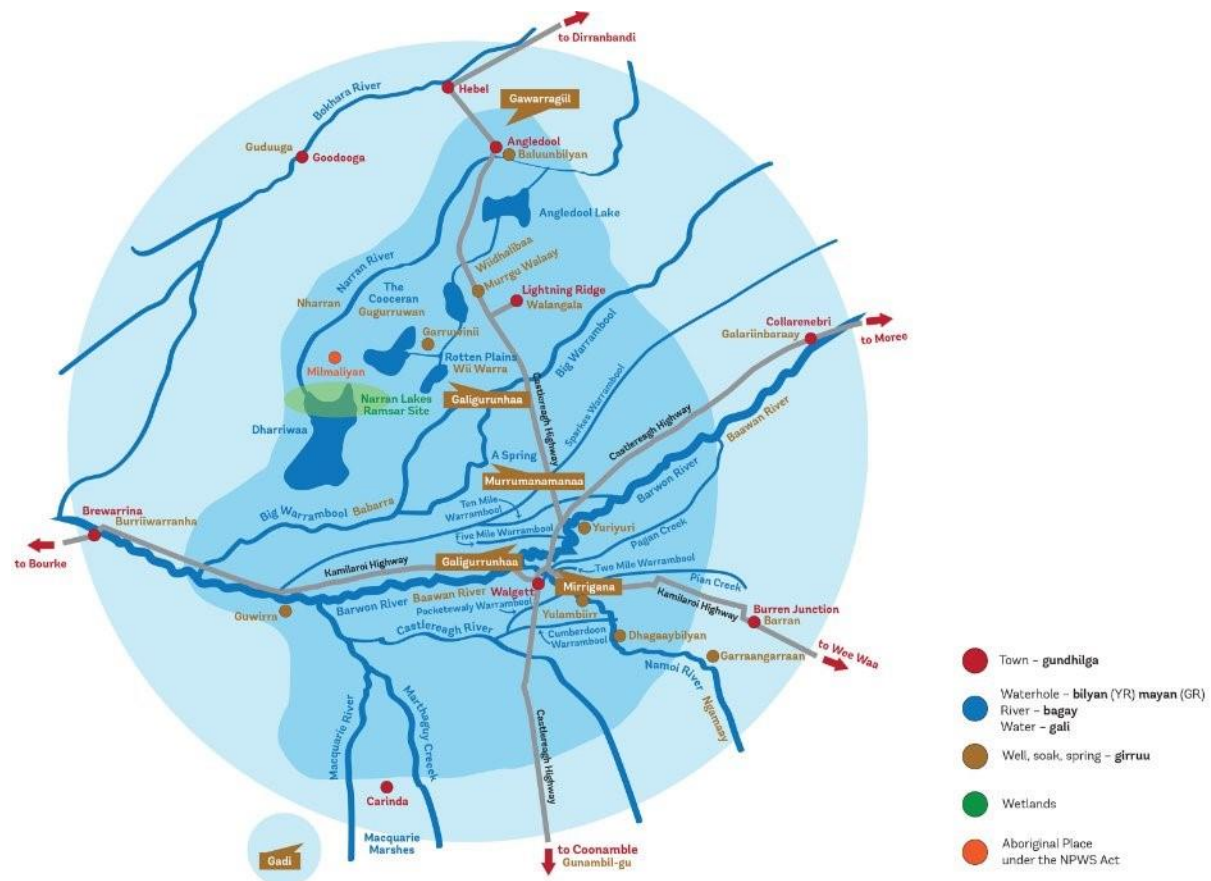
Weekly Water Monitoring Report

15th October 2024

Introduction

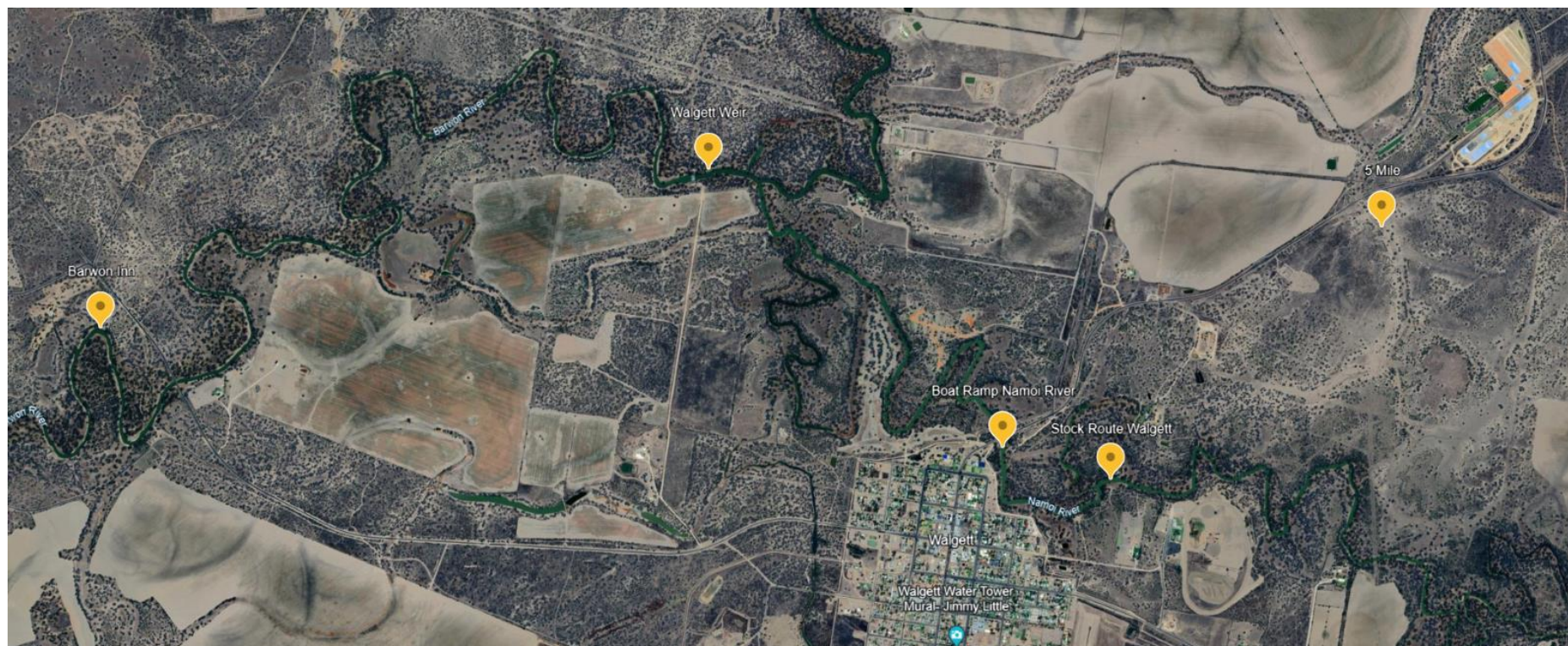
This data was collected on Tuesday 15th October between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

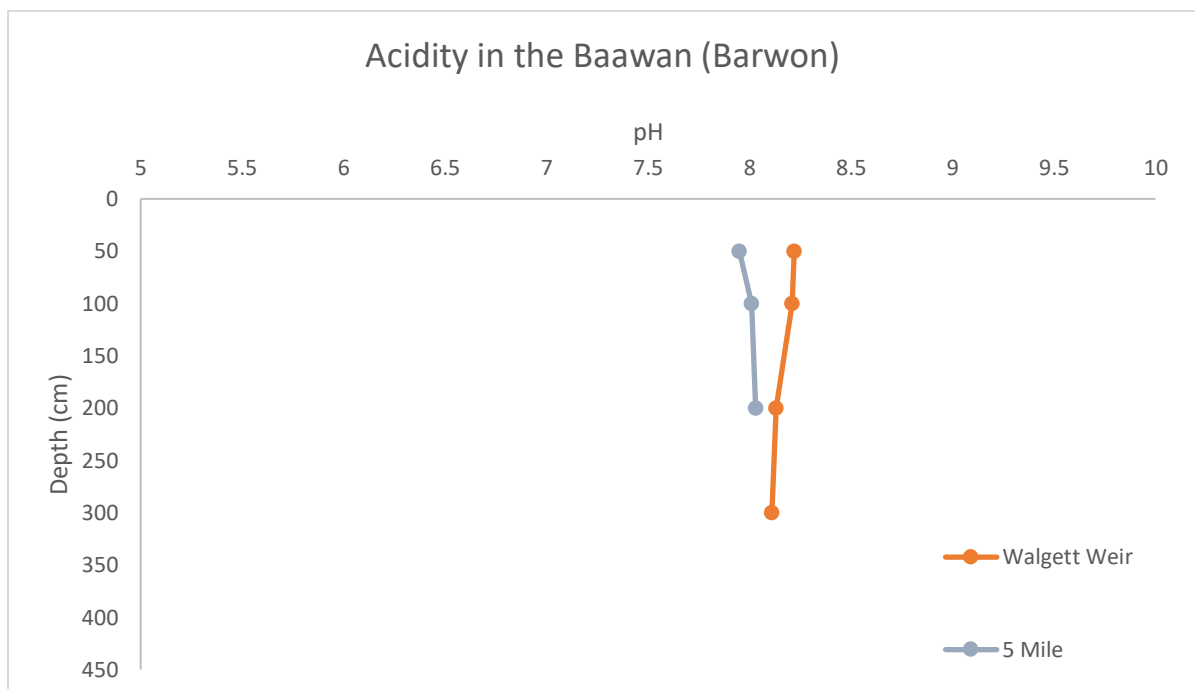
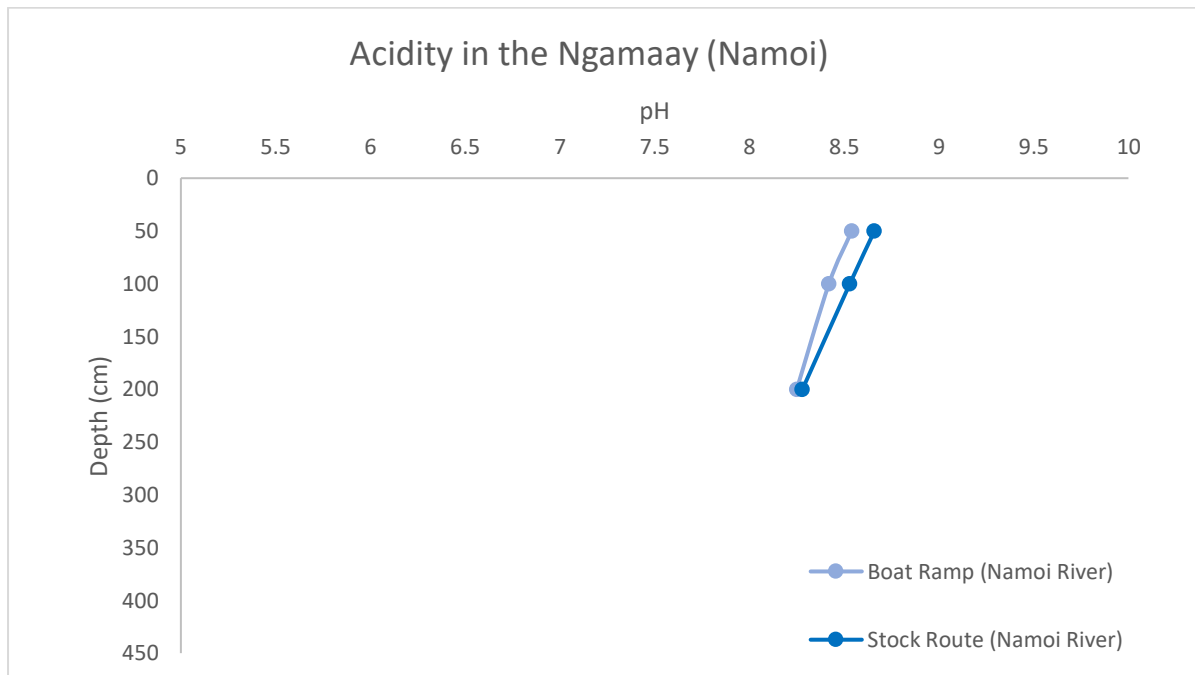


(Picture: Dharriwaa Elders Group area of interest)

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



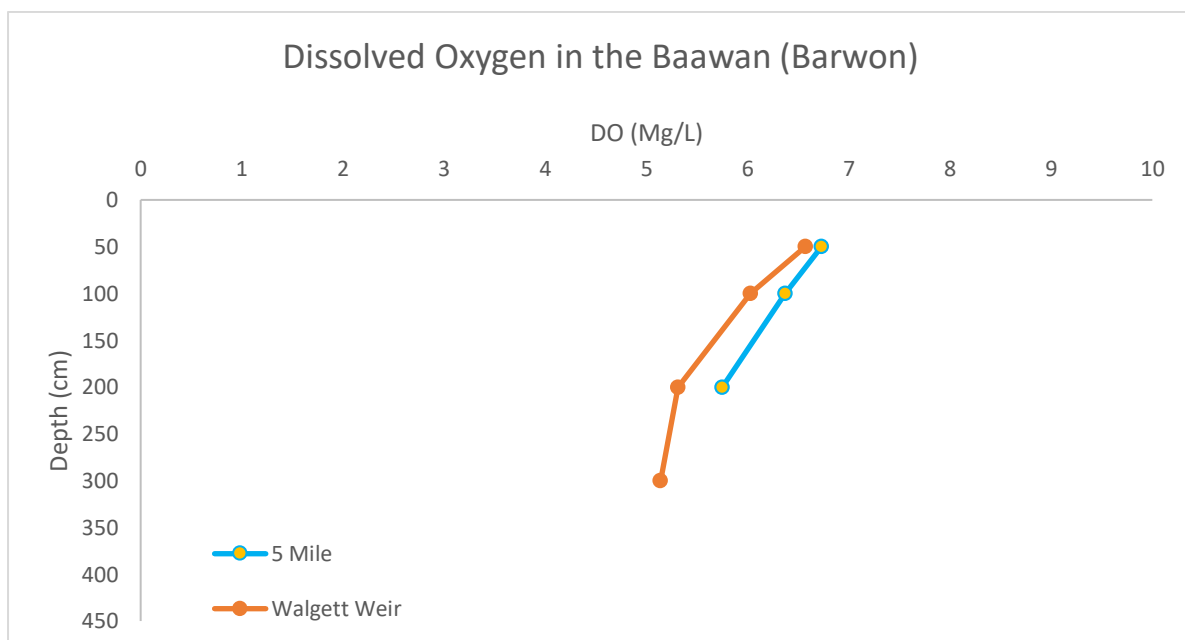
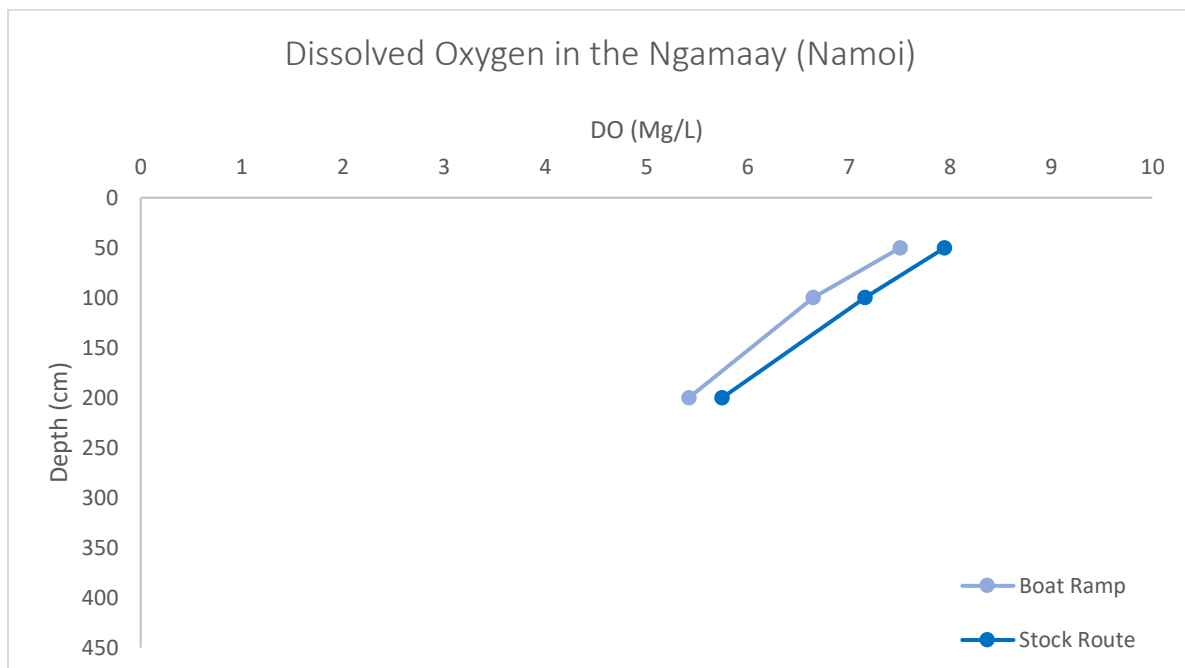
Acidity in the Ngamaay and Baawan Rivers



The first two pH readings at the Boat Ramp (Ngamaay River) are outside the healthy range, the last reading at the Boat Ramp is within the healthy range. The first pH reading at the Stock Route (Ngamaay River) is outside the healthy range, the last two readings are within the healthy range. All pH readings at both the Walgett Weir and 5 Mile (Baawan River) are within the healthy range. The maximum reading is 8.66 and the minimum reading is 7.95.

Healthy range: 6.5 - 8.5 pH

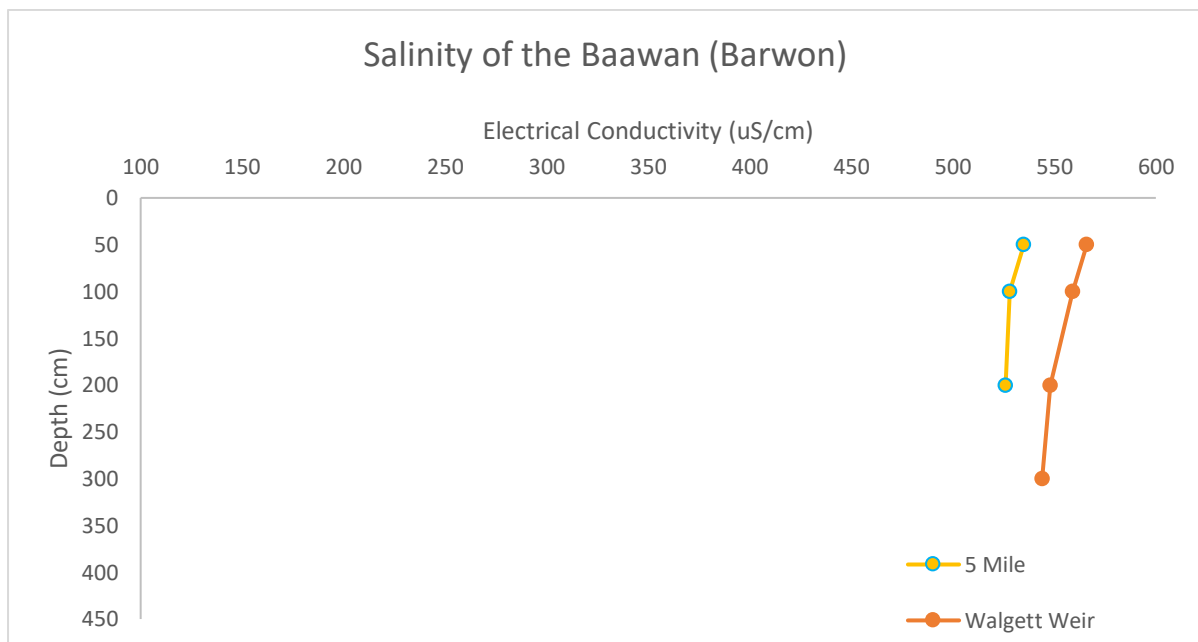
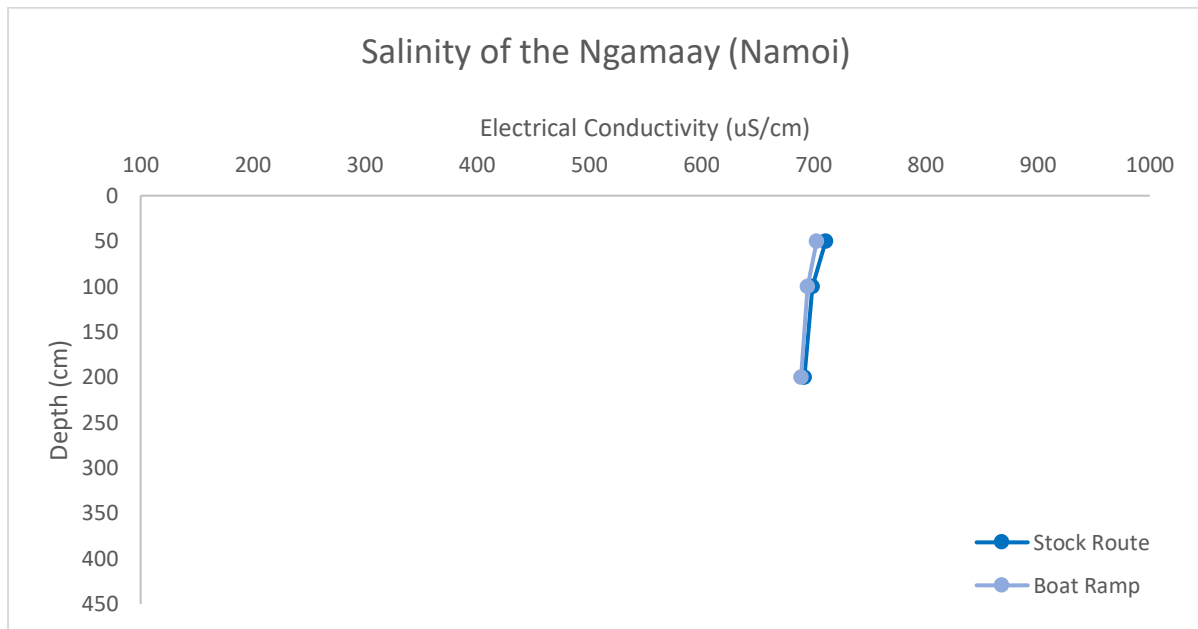
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The first two dissolved oxygen readings at both the Boat Ramp and Stock Route (Ngamaay River) are within the healthy range, the last two readings at both sites are outside the healthy range. The first two dissolved oxygen readings at the Walgett Weir (Baawan River) are within the healthy range, the last two readings are outside the healthy range. The first two readings at the 5 Mile (Baawan River) are within the healthy range, the last reading is outside the healthy range. The maximum reading is 7.95 and the minimum readings is 5.14.

Healthy Range: 6 - 8 (Mg/L)

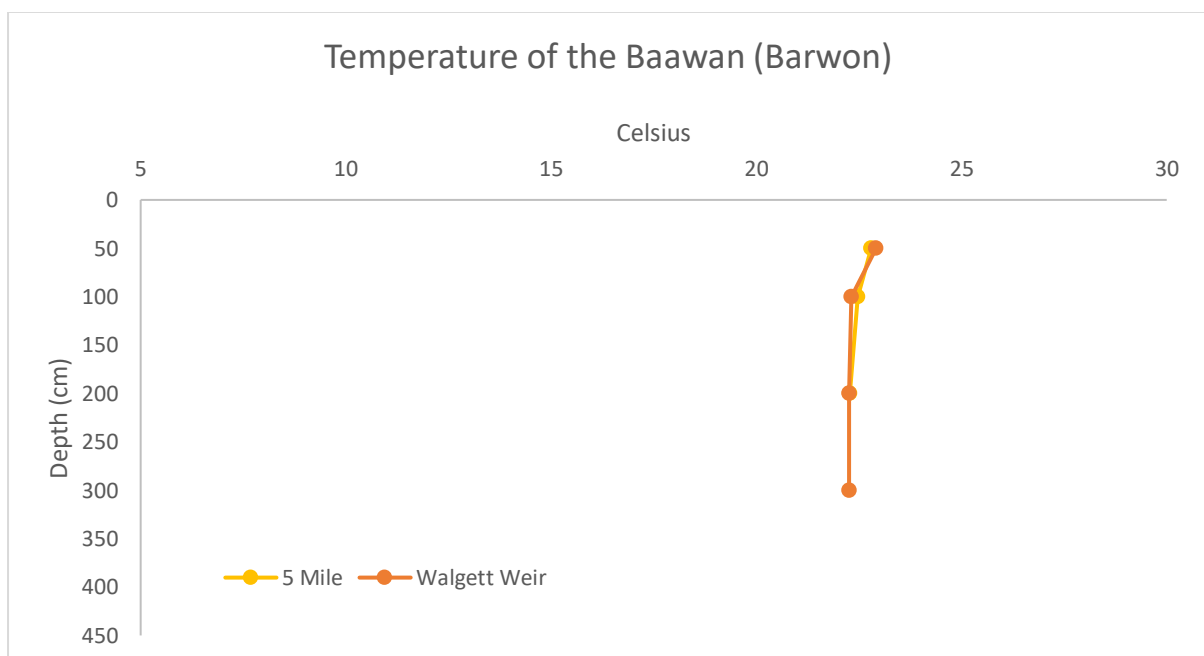
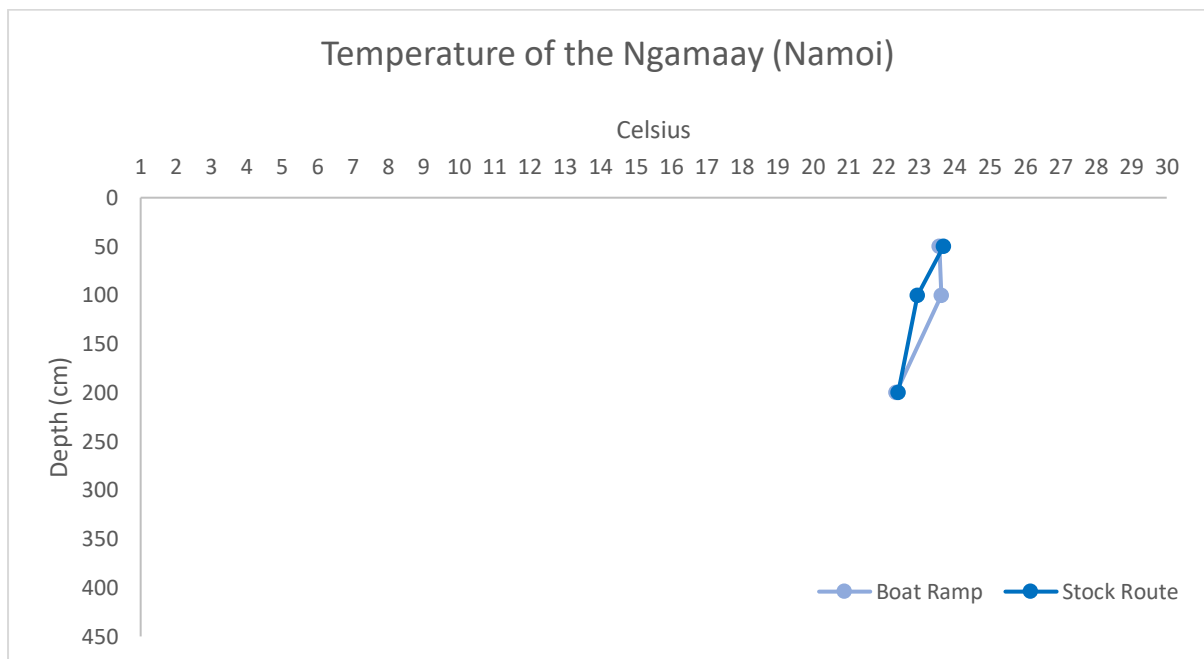
Salinity in the Ngamaay and Baawan River



The salinity in both the Ngamaay and Baawan Rivers at all sites are within the healthy range. The maximum reading is 711 and the minimum reading is 526.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan River



The temperature at all sites on the Ngamaay and Baawan Rivers are within the healthy range. The maximum reading is 23.69 and the minimum reading is 22.26.

Healthy Range: 18-28 degrees (Celsius)

Conclusion

At the Boat Ramp (Ngamaay River) majority of the pH readings are outside the healthy range, they are more on the alkaline side. At the Stock Route (Ngamaay River) majority of the readings are within the healthy range. In the Baawan River at all sites the pH readings are within the healthy range.

In the Ngamaay River at both sites the dissolved oxygen readings are within the healthy range.

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