



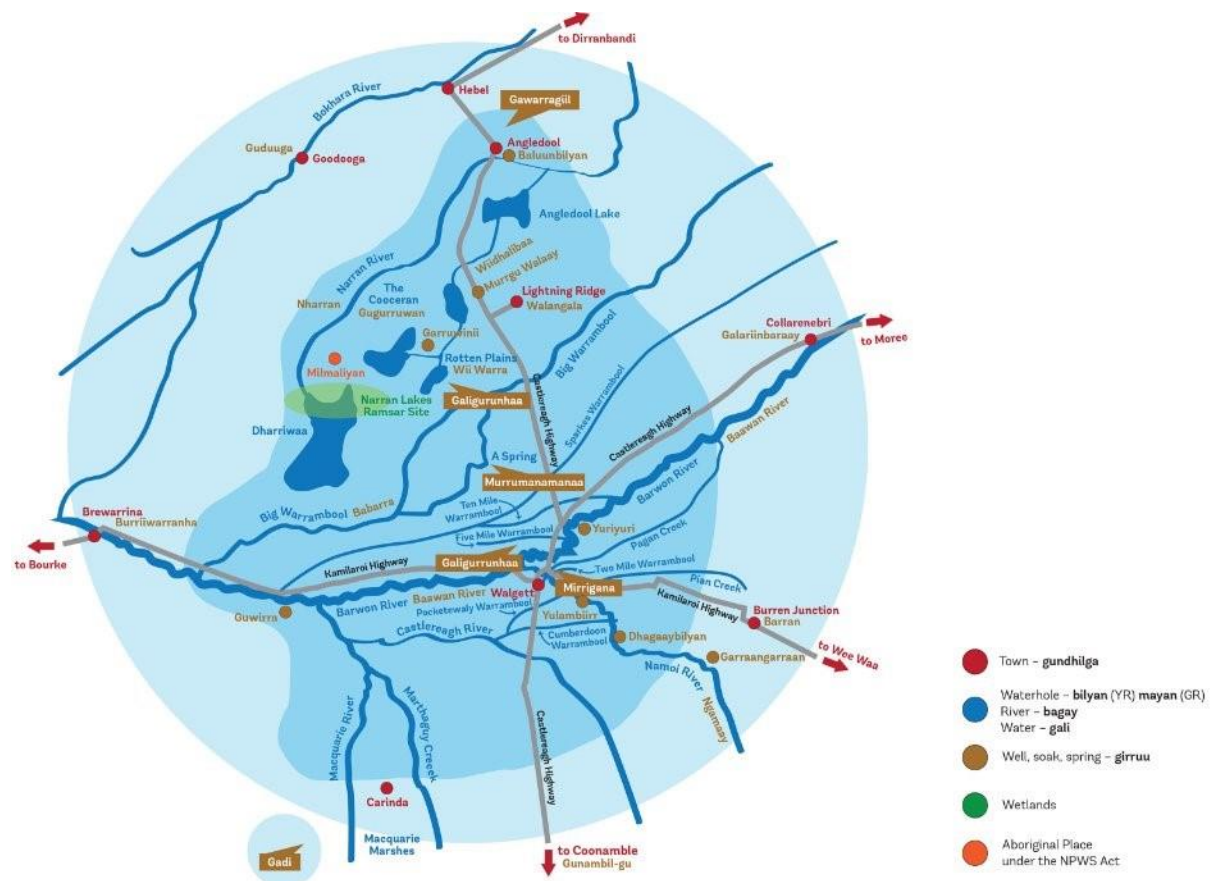
Weekly River Monitoring Report

14/07/2025

Introduction

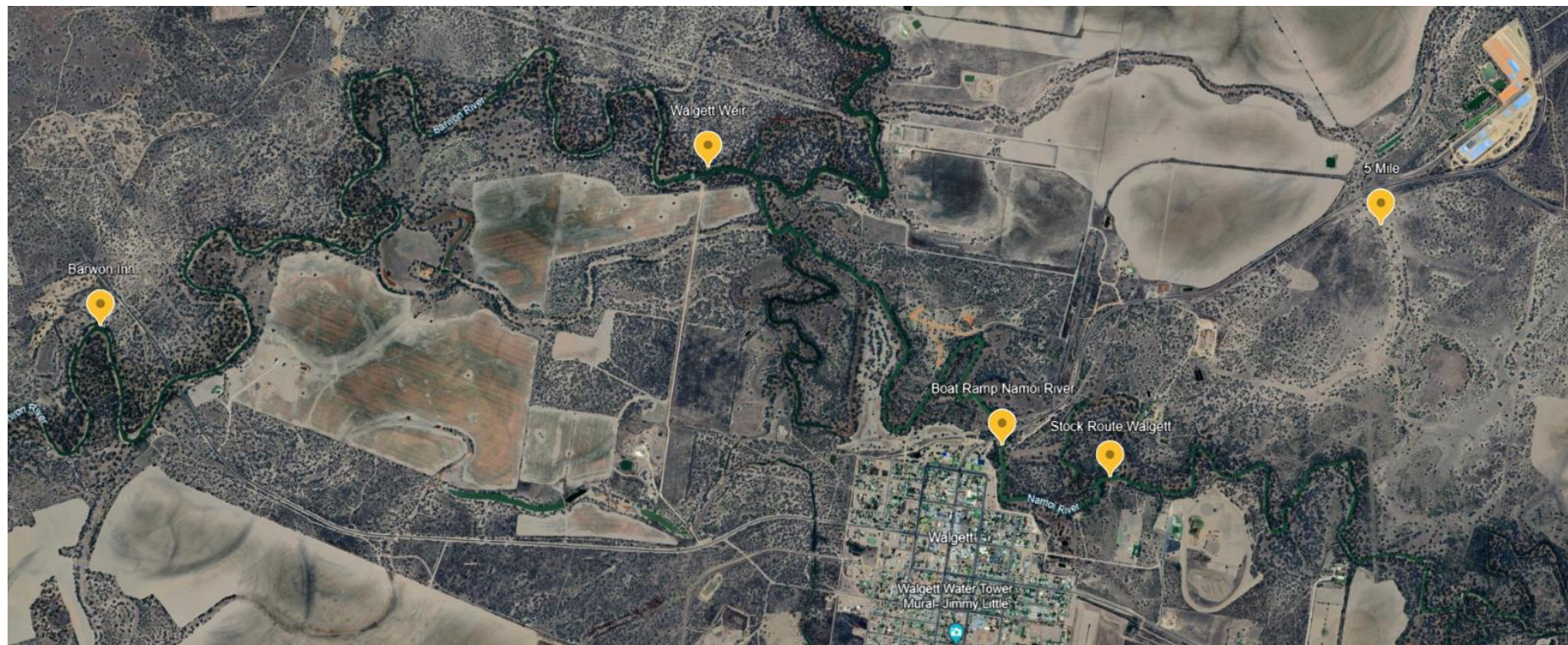
This data was collected on Monday 14th July between 10am and 1pm on the Ngamaay (Namoi) and Baawan (Barwon) River.

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.

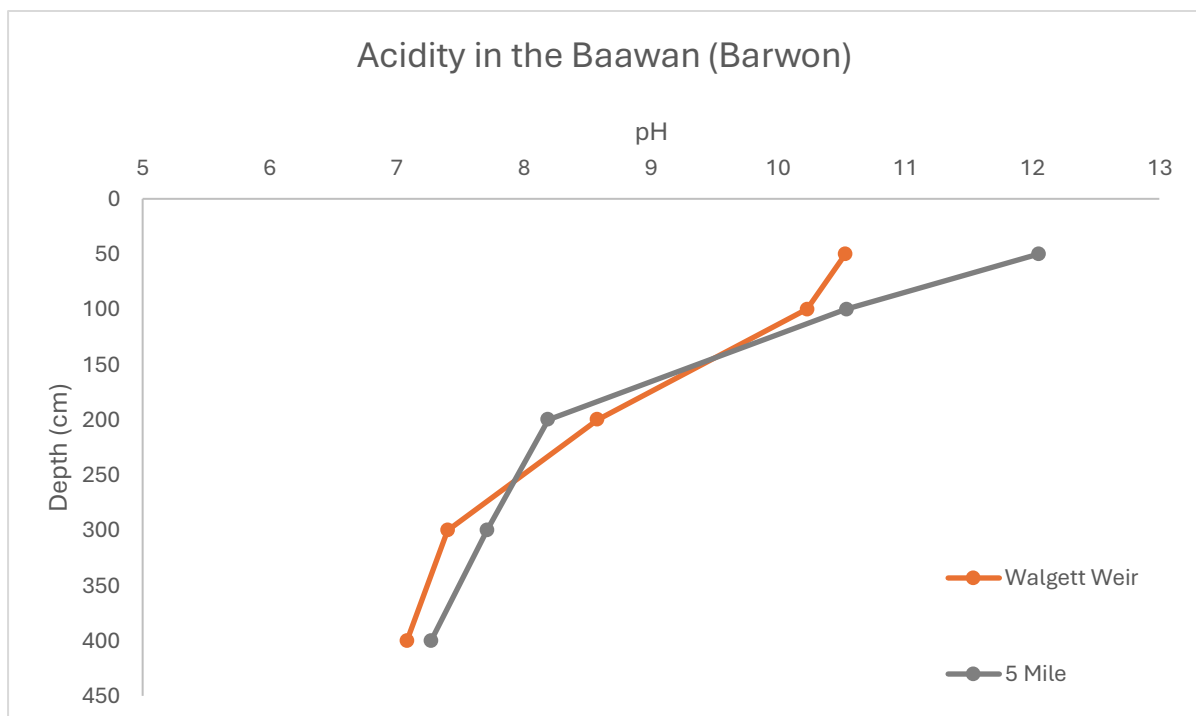
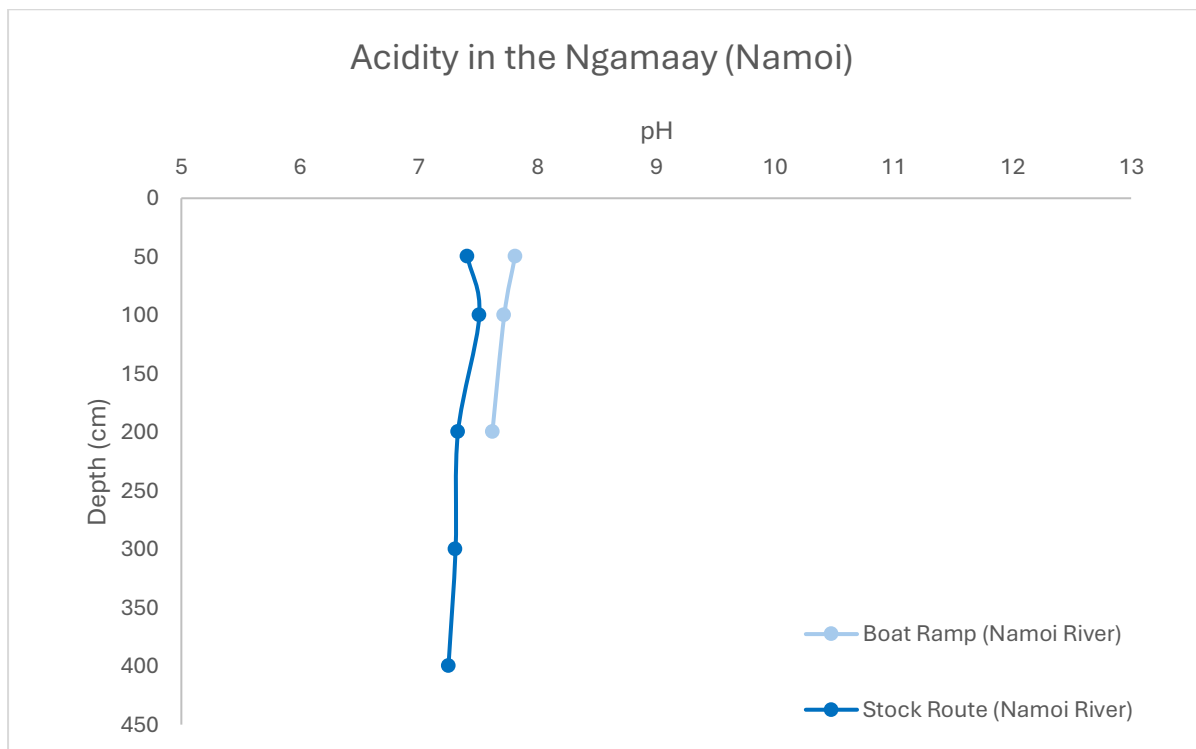


(Picture: Dharriwaa Elders Group area of interest)

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



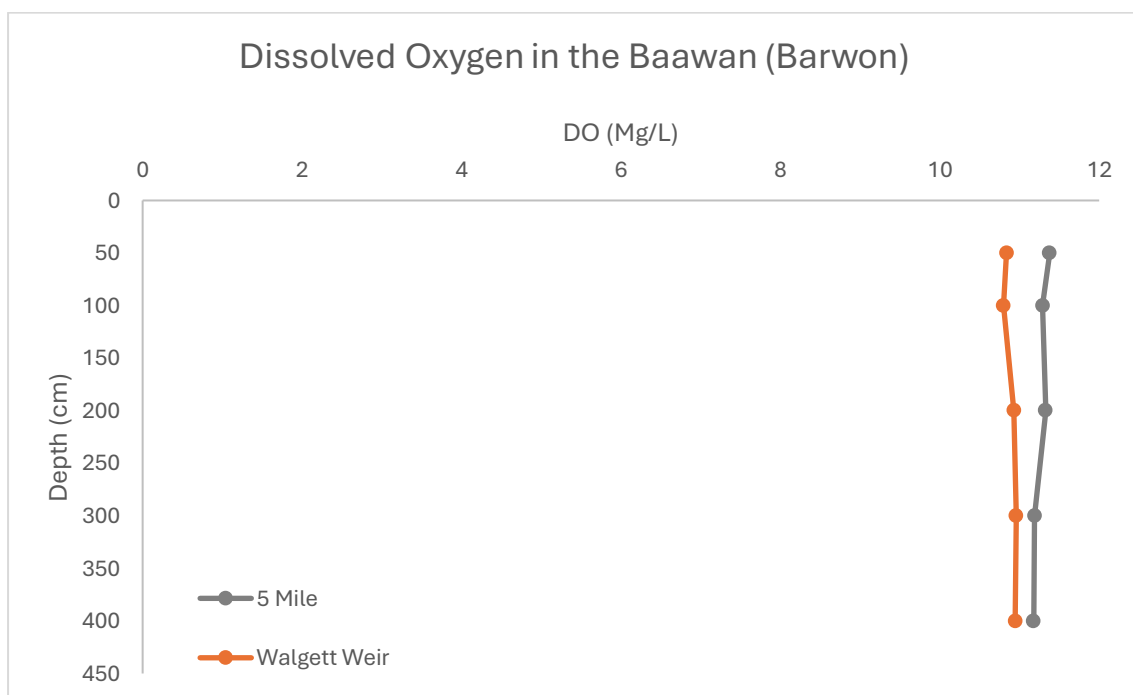
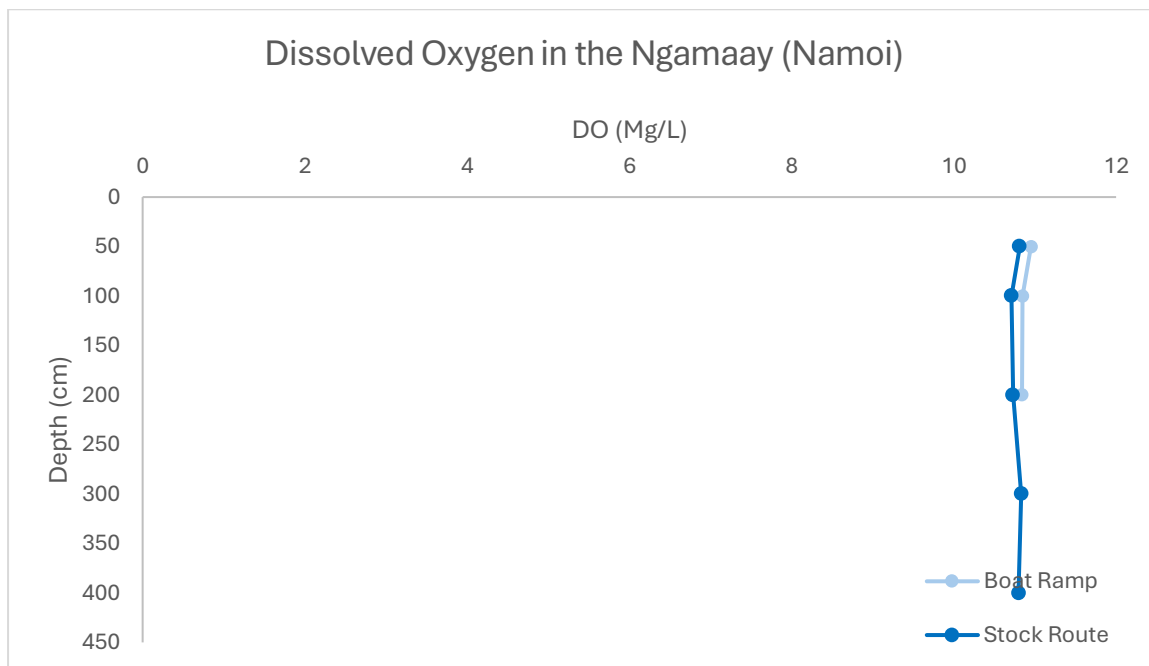
Acidity in the Ngamaay and Baawan Rivers



The pH in the Ngamaay river is within the healthy range. Majority of the pH readings in the Baawan is outside the healthy range. This is an improvement on the week before, where the levels were particularly high in the Baawan. The lowest reading is 7.08 and the highest reading is 12.05.

Healthy range: 6.5 - 8.5 pH

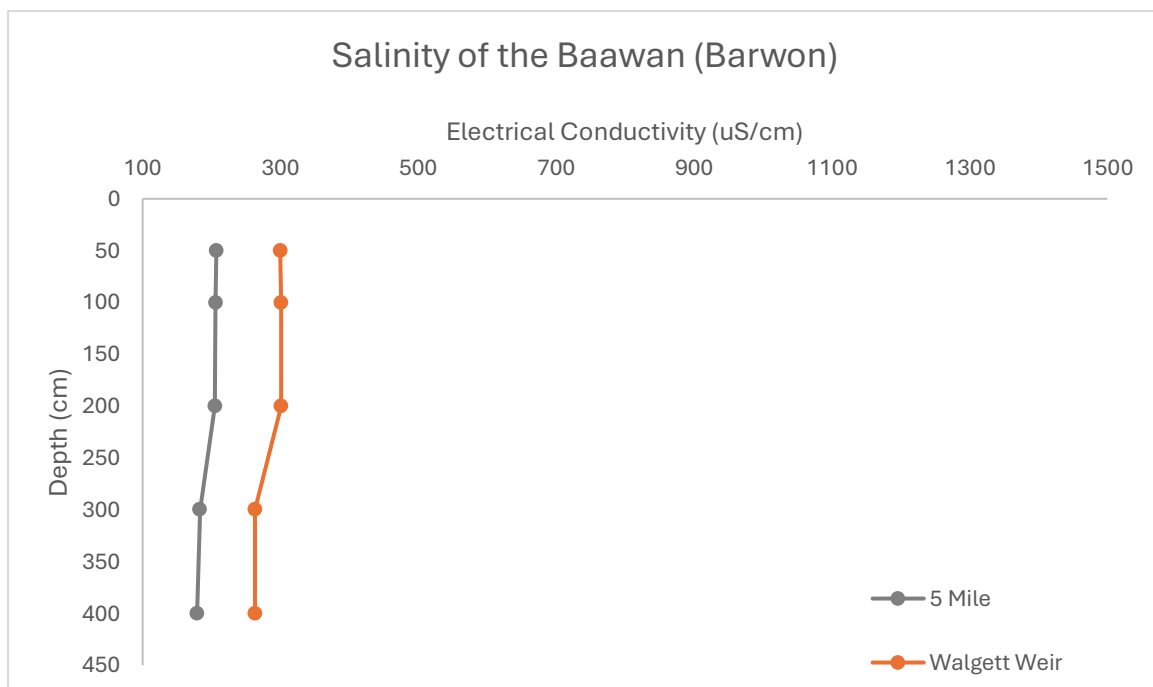
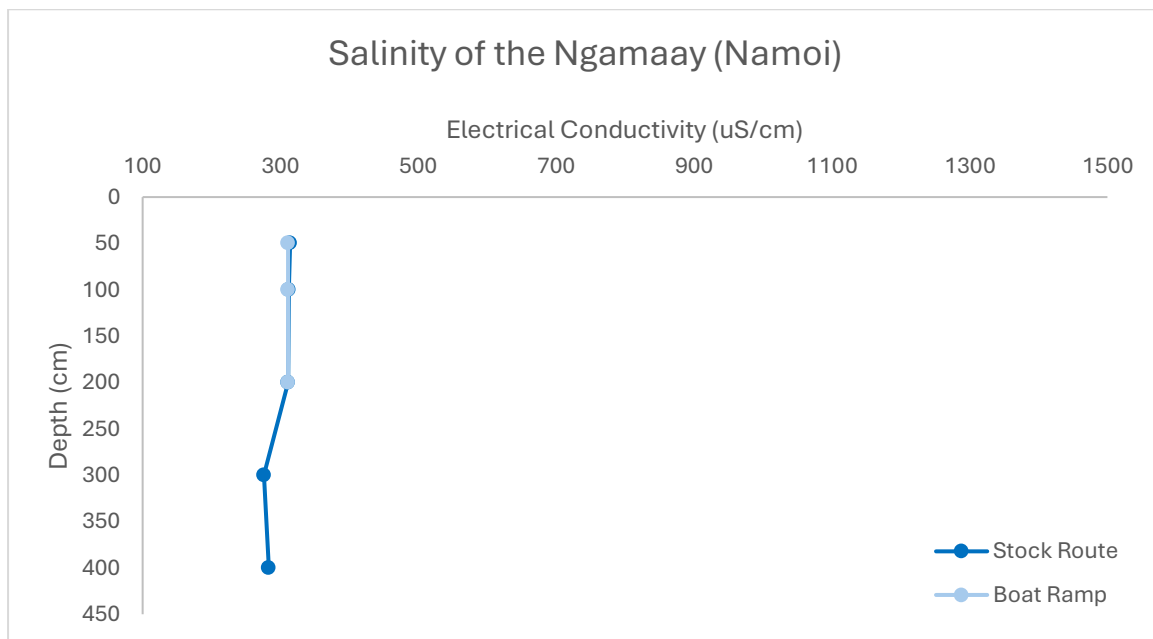
Dissolved Oxygen in the Ngamaay and Baawan Rivers



The dissolved oxygen levels are very high in the Ngamaay and Baawan Rivers. These levels are similar to those tested on the 3rd of July. As noted then, this can be typical for winter, because colder water holds higher levels of dissolved oxygen. However, these levels should be monitored. High levels of dissolved oxygen paired with high pH levels can also indicate algal blooms. The lowest reading is 10.71 and the highest reading is 11.38.

Healthy Range: 6 - 8 (Mg/L)

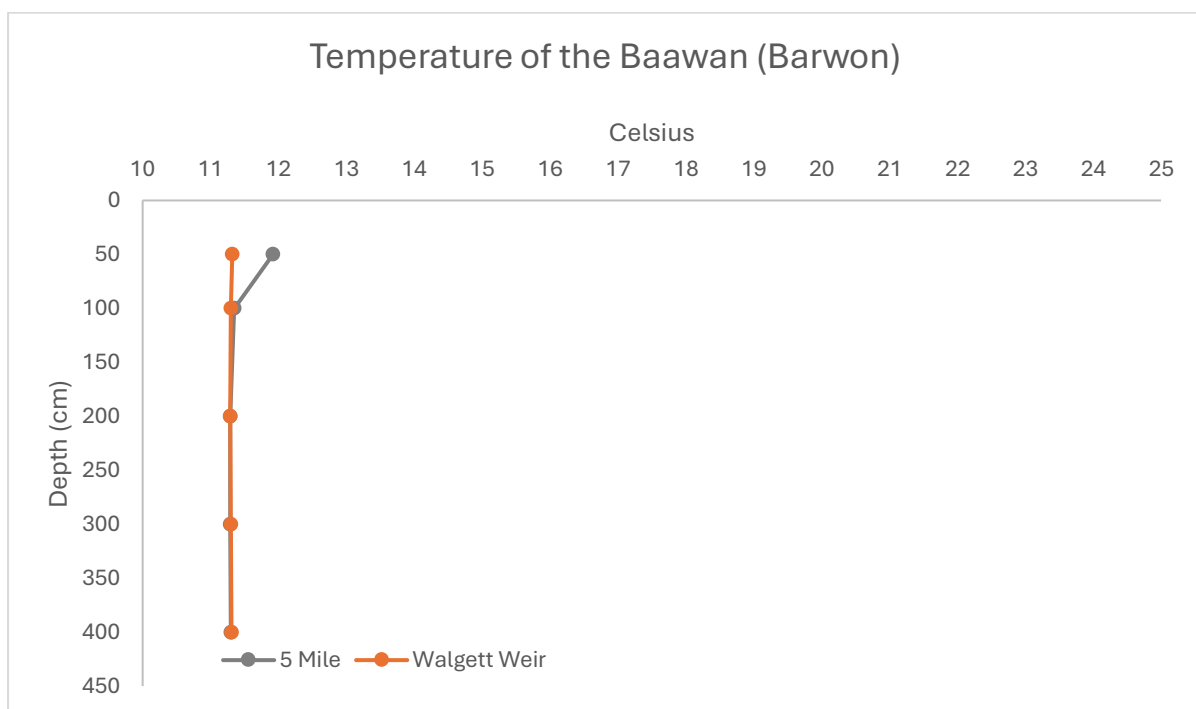
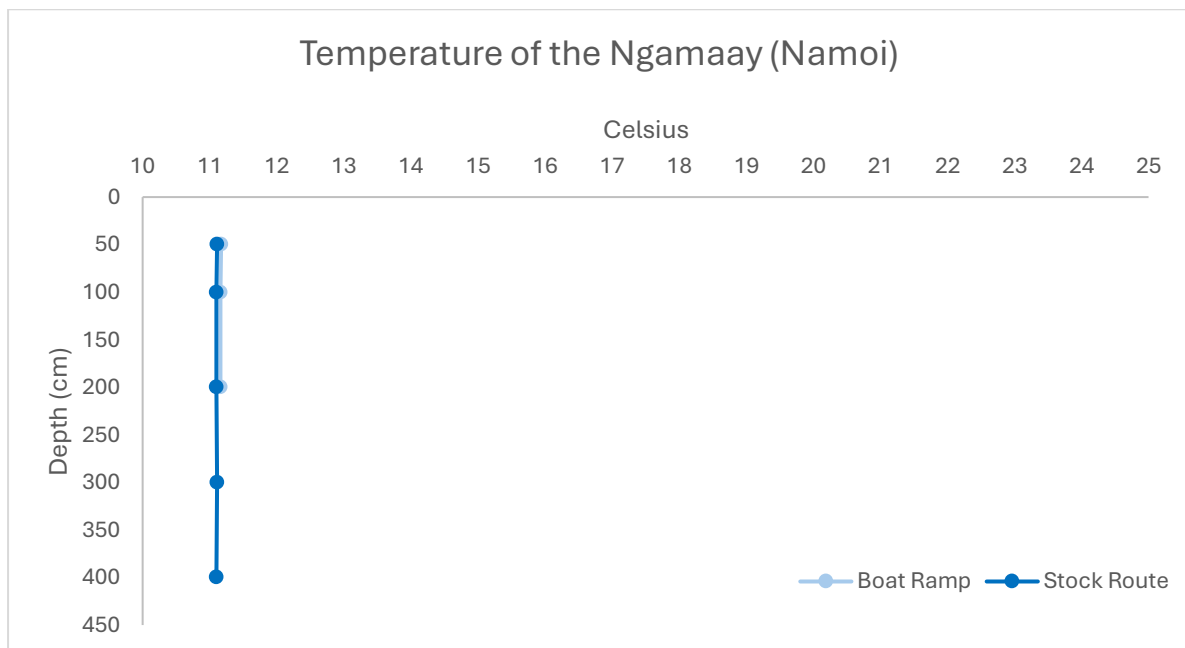
Salinity in the Ngamaay and Baawan Rivers



The salinity levels in both rivers are within the healthy range. The minimum reading is 179 and the maximum reading is 314.

Healthy Range: 125 - 2,200 uS/cm

Temperature in the Ngamaay and Baawan Rivers



The temperature in both rivers is very low. This may be due to the time of the year that the tests were performed. The levels may not be cause for alarm but should be monitored to see if they increase as temperatures become warmer.

Healthy Range: 18-28 degrees

Conclusion

The pH is within a normal range in the Ngamaay but outside the healthy range in the Baawan. The dissolved oxygen levels are also extremely high, similar to the last test. The temperature of the water is also extremely low, which could explain the high dissolved oxygen, but combined with high pH levels this could indicate an algal bloom. These levels should be monitored and recorded with photographs to look for signs of algal blooms.

The salinity is within the healthy range across both rivers.

The temperature in the rivers is very low. This is probably indicative of the low external temperatures on land.