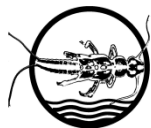


The Stream Team

Gualala River – February 2023 Newsletter



Timmarie Hamill,
Program Director.

Welcome to our 2nd monitoring season! I'm so glad there are citizen scientists like you, who are willing to make sure our waterways are safe for recreation and provide a healthy environment for fish and wildlife.

Your dedication and proven capabilities are critical to the success of The Gualala River Stream Team. I am honored to work with such an active, informed community. The data you collect is so important – it ensures that the right decisions are made to protect the Gualala River into the future. Thank you!

Although it's been a while, as we break for winter, please know you have already made a real difference,

I can't wait to see you all! Mark your calendars for the upcoming season!

Timmarie
timmariehamill@gmail.com

PLEASE JOIN US
For Our First Event
Saturday, April 22, 2023

The Gualala River Stream Team's mission is to gather useful environmental information needed to protect the ecological health of the Gualala River and Estuary, while engaging the local community in effective watershed stewardship.

2023 monitoring and training schedule:

- April 22 - Annual Training (more details to come in March)
- May 20
- June 17
- August 19
- October 21
- November – December (2 storm events – dates TBD)

We'll meet at 9:00 a.m. at the Redwood Coast Land Conservancy, Mill Bend, 46903 Old State Highway, Gualala (take the gravel road 400 feet from Highway 1)

Hope to see you there! If you can come, please sign up on our [FACEBOOK](#) Page.

Our Monitoring Site Locations

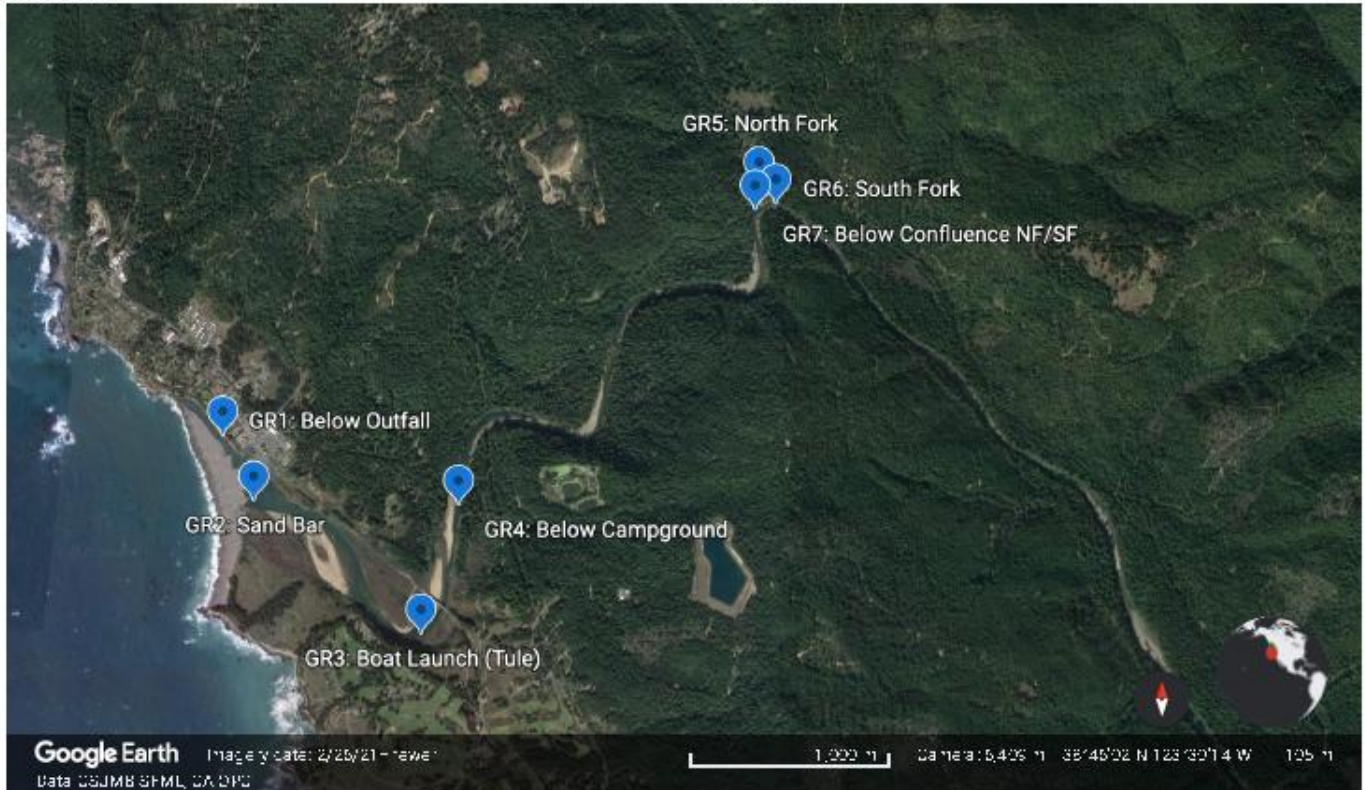
Before looking at the following graphs, it's important to be familiar with our monitoring sites as referenced by "GR1" through "GR7" in the graph tables.

You're no doubt familiar with GR1 through GR4 already – these are the four sites where we train and gather data throughout the year.

GR5, GR6 and GR7 have been added to give us additional data on the smaller waters that feed the main river and estuary.

Each of these seven monitoring sites are unique and help us to see the "big picture." As you digest the graph data, ask yourself:

- What trends do I see?
- What environmental and social factors might be contributing to the data differences?
- What, and how much, more data might be needed to justify taking steps to alleviate any negative affects on public or ecological health?



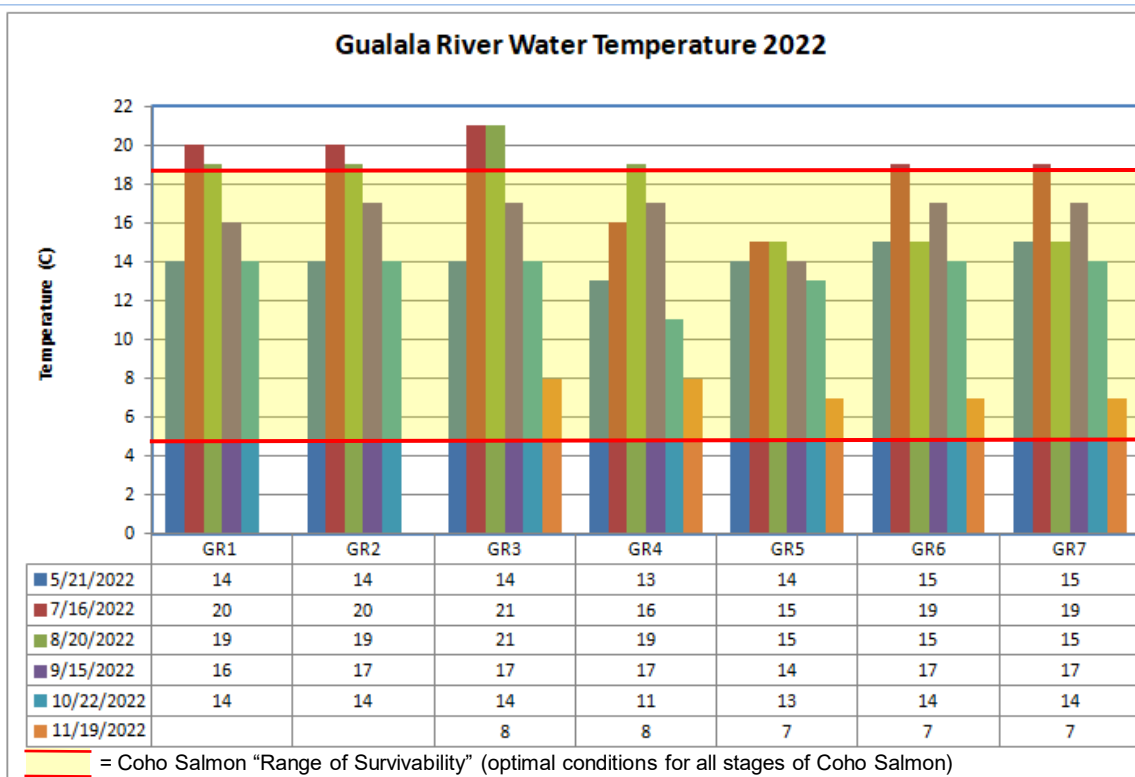
Data, Data, Data!

Now, on to the graphs...

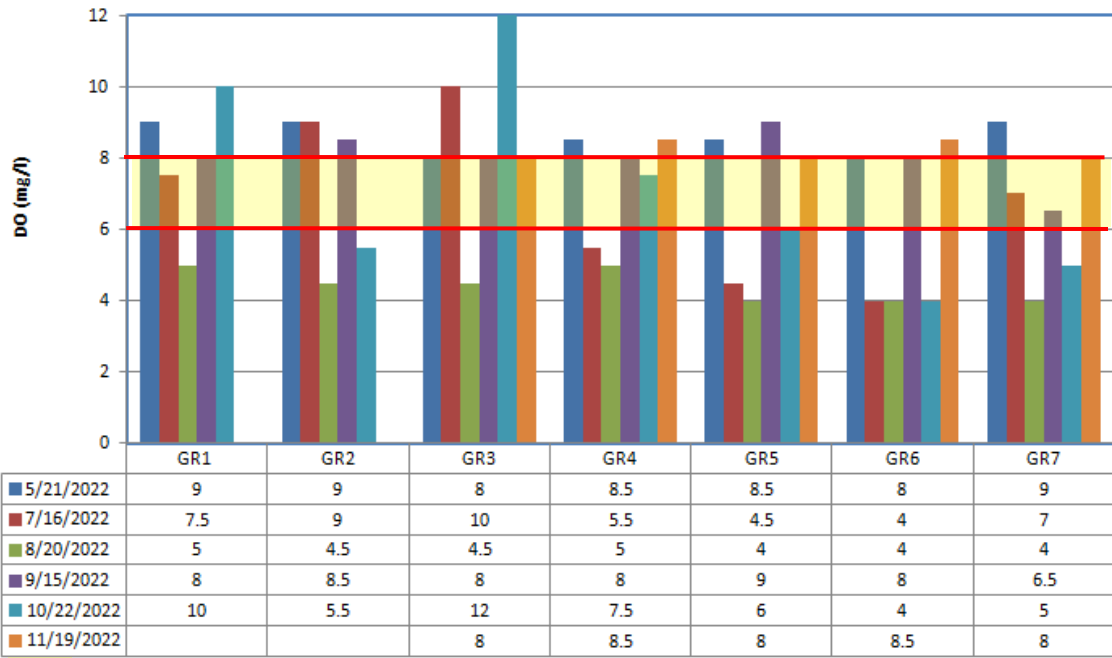
It's no exaggeration that, as a team, we collect inordinate amounts of data. But, what does it all mean? How does each data set compare to the previous? How can (and do) these data sets affect each other? Well..it's a big scientific puzzle but, the simple truth is, all of our diligence in collecting data is really about documenting trends. If these trends negatively affect public or ecological health then, with credible data, we can better take steps to alleviate any issues.

We get public questions all the time about the water quality of the Gualala River and Estuary. Digging deeper, the concerns are usually about ecological health and, more specifically, what the conditions are that affect the diminishing Coho Salmon population.

The graphs that follow show the results of our data collection throughout 2022. In addition, a yellow band indicating the typical Coho Salmon "range of survivability" is shown (delineated with red lines). This shows the typical range of conditions found to be optimal for all stages of Coho Salmon.

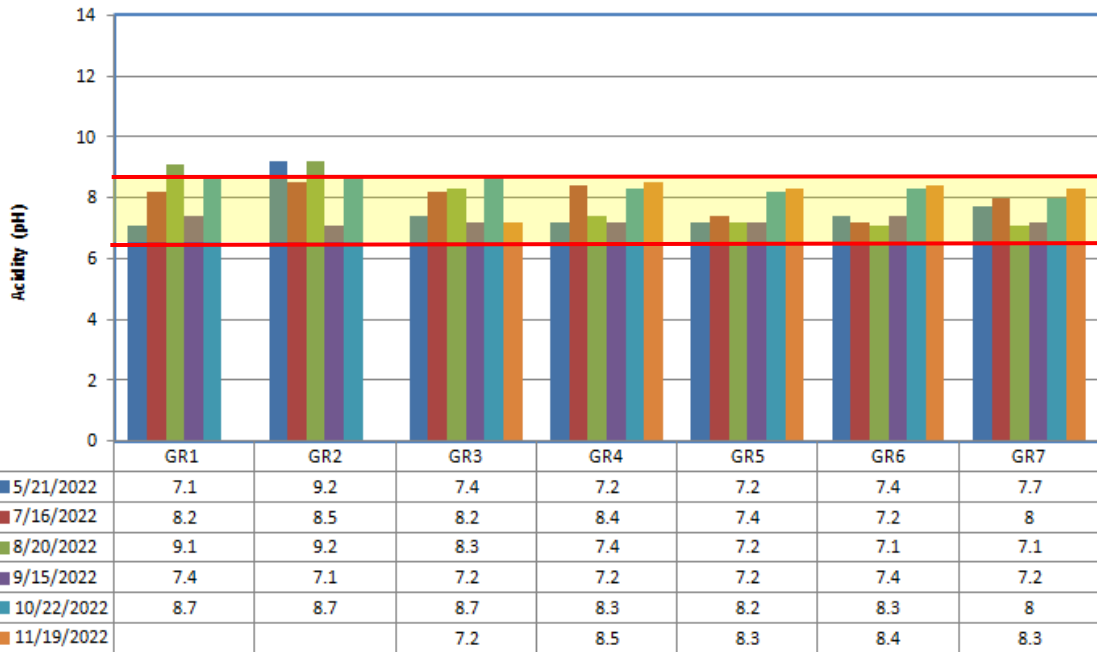


Gualala River Water Dissolved Oxygen 2022



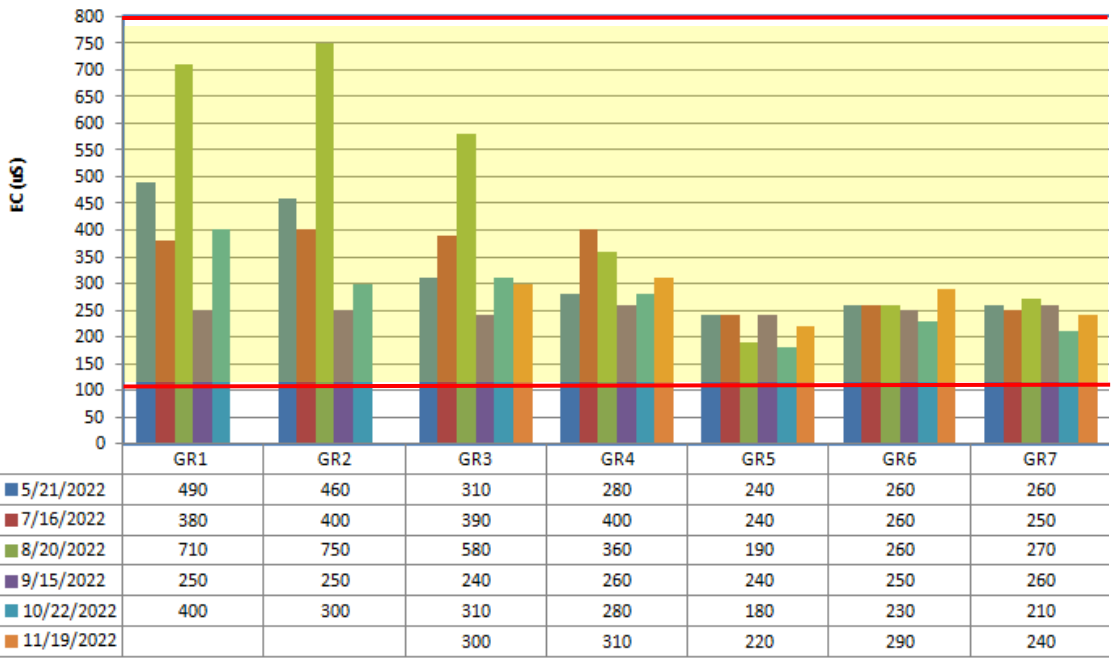
= Coho Salmon "Range of Survivability" (optimal conditions for all stages of Coho Salmon)

Gualala River Acidity (pH) 2022



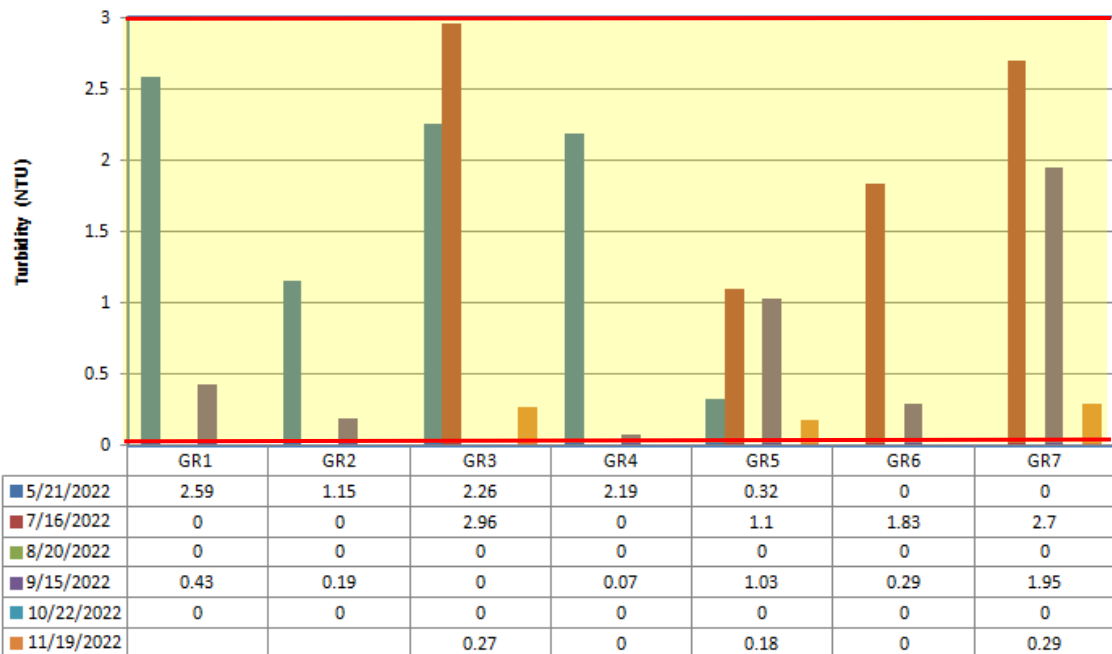
= Coho Salmon "Range of Survivability" (optimal conditions for all stages of Coho Salmon)

Gualala River Conductivity (EC) 2022



= Coho Salmon "Range of Survivability" (optimal conditions for all stages of Coho Salmon)

Gualala River Turbidity 2022



= Coho Salmon "Range of Survivability" (optimal conditions for all stages of Coho Salmon)

