By Miguel Rodriguez

What is nutrient enhancement?

The reason behind it

- 1999 Washington State Recovery Board

- Grants
  1. **ESRP** - Estuary and Salmon Restoration Program
  2. **FFFPP** - Family Forest Fish Passage Program

The reason behind the reason

- Marine Derived Nutrients
- Macro-invertebrates

Implementation

- Netting
- Catching
- Recording

Implementation pt 2

- Throwing

My Research

- Mill Creek above and below carcasses
- Nitrates & phosphates
- Data recorded every other month
- River mileage recorded from confluence point into bougachiel river.

Study Methods

- Salmon were placed at 7.6 miles
- Records kept of river mile 6.7,7.6, & 8.2

Preliminary results

- Fall (Nov. 18) Nitrates and Phosphates
  - 6.7 N. 1.87 P. 2.14
  - 7.6 N. 0.65 P. 0.36
  - 8.2 N. 0.32 P. 0.56

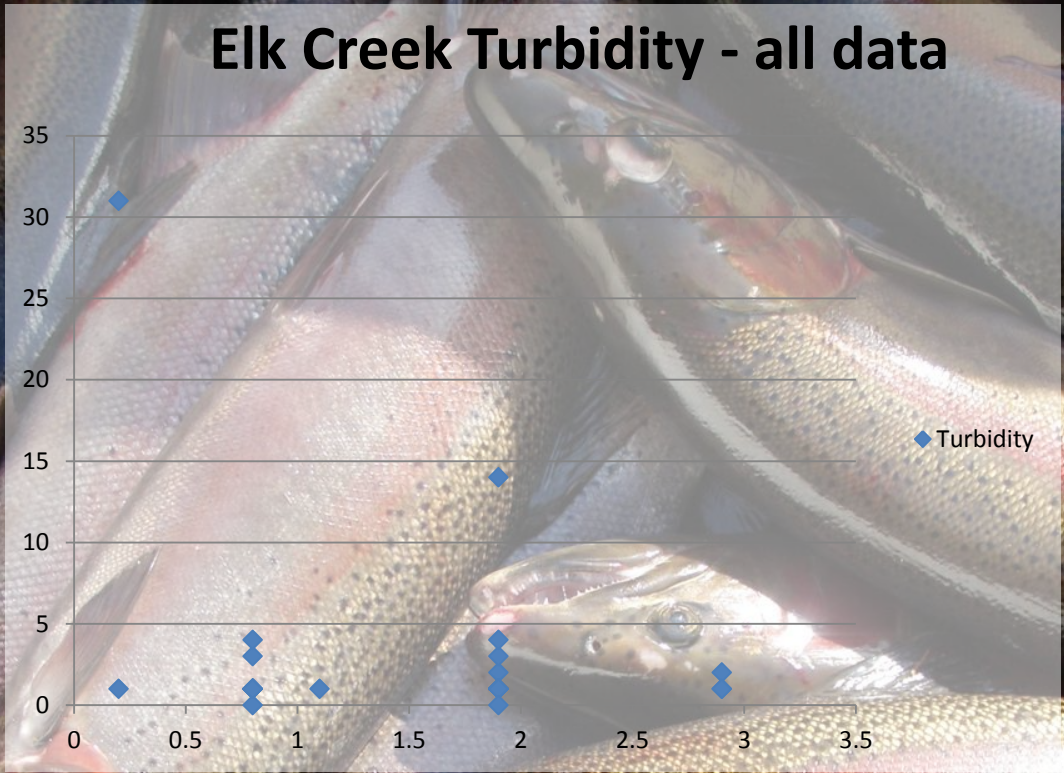
Preliminary results

- Winter (Dec. 30) Nitrates and Phosphates
  - 6.7 N. 2.1 P. 2.09
  - 7.6 N. 0.93 P. 1.2
  - 8.2 N. 0.64 P. 1.03

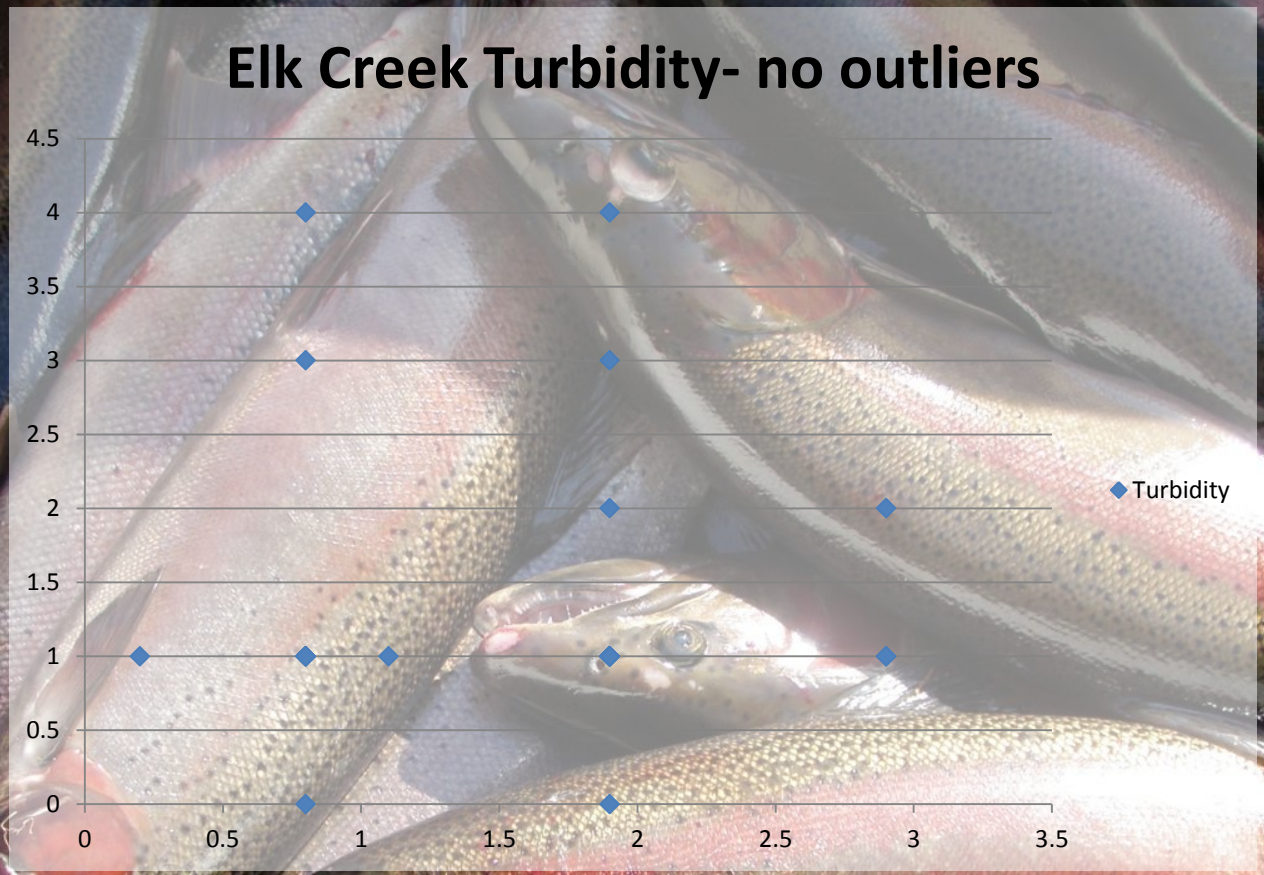
Thank you for your time

Turbidity at Elk Creek

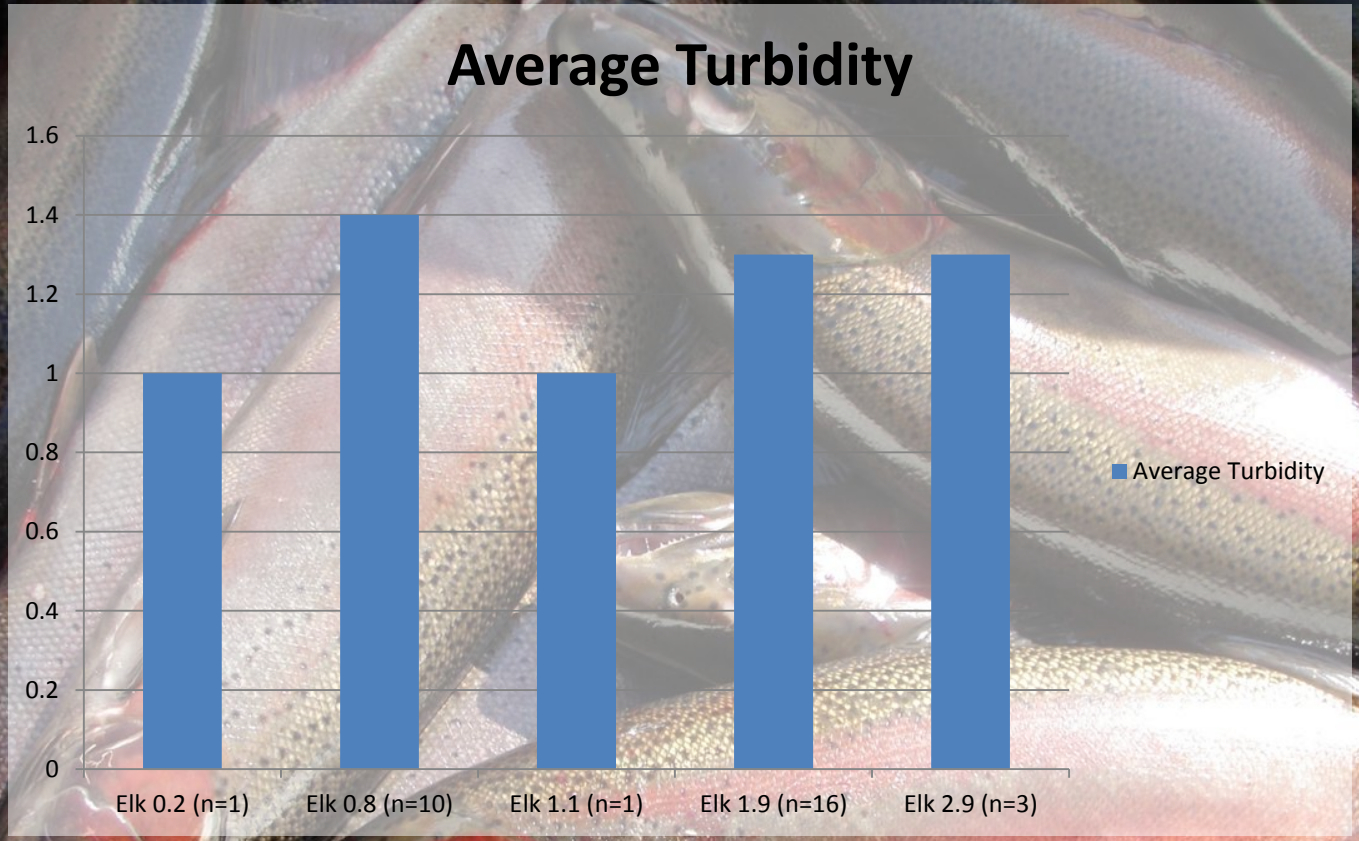
By Romario Bello



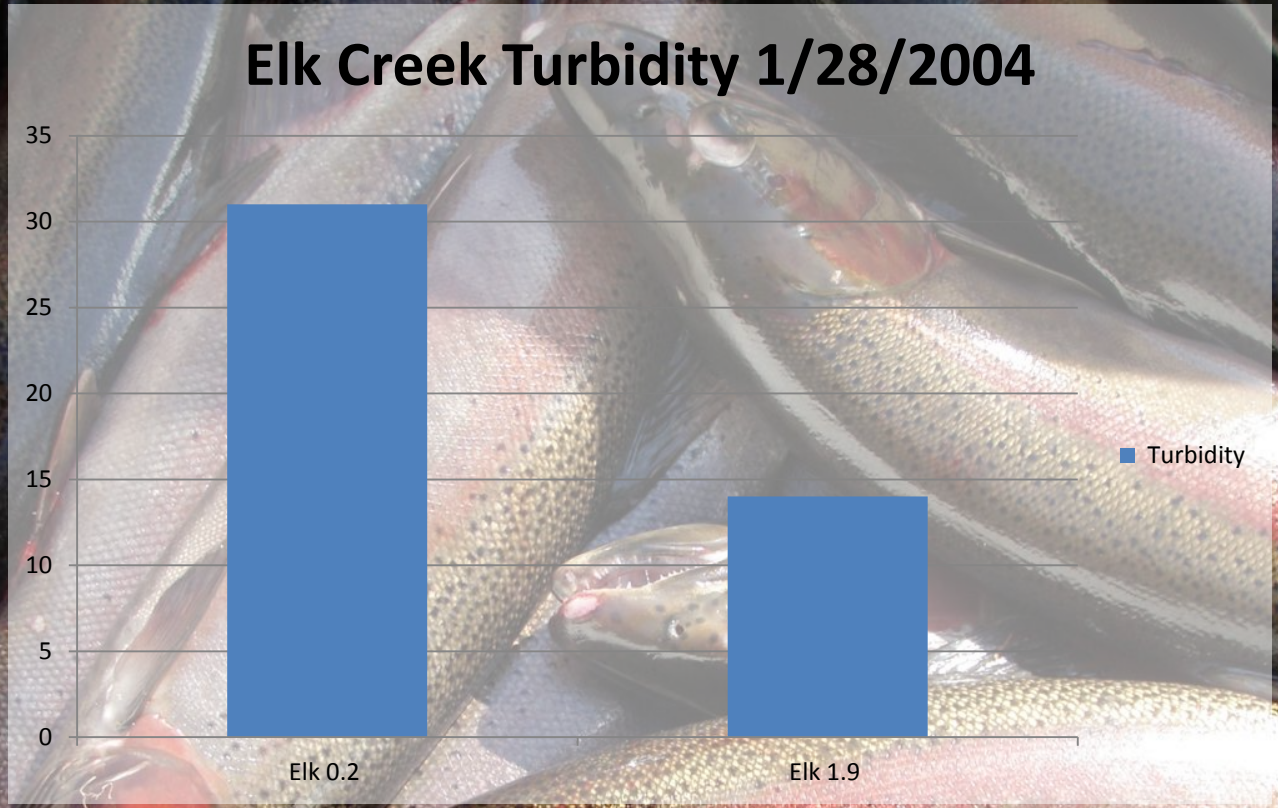
What this graph shows is the high turbidity downstream on a day with rains. During other days without rain the turbidity was lower. In midstream it had rained one day and the turbidity was high again, while the other days did not have rain and the turbidity was low.



On days when it did not rain the turbidity remained fairly steady.



This graph shows the turbidity averages in each section of the creek. Turbidity is not very different in the different sections tested.



This graph shows that average turbidity on one given day (1/28/2004) is higher in the lower section of the stream (river mile 0.2) compared to the upper stream (river mile 1.9).