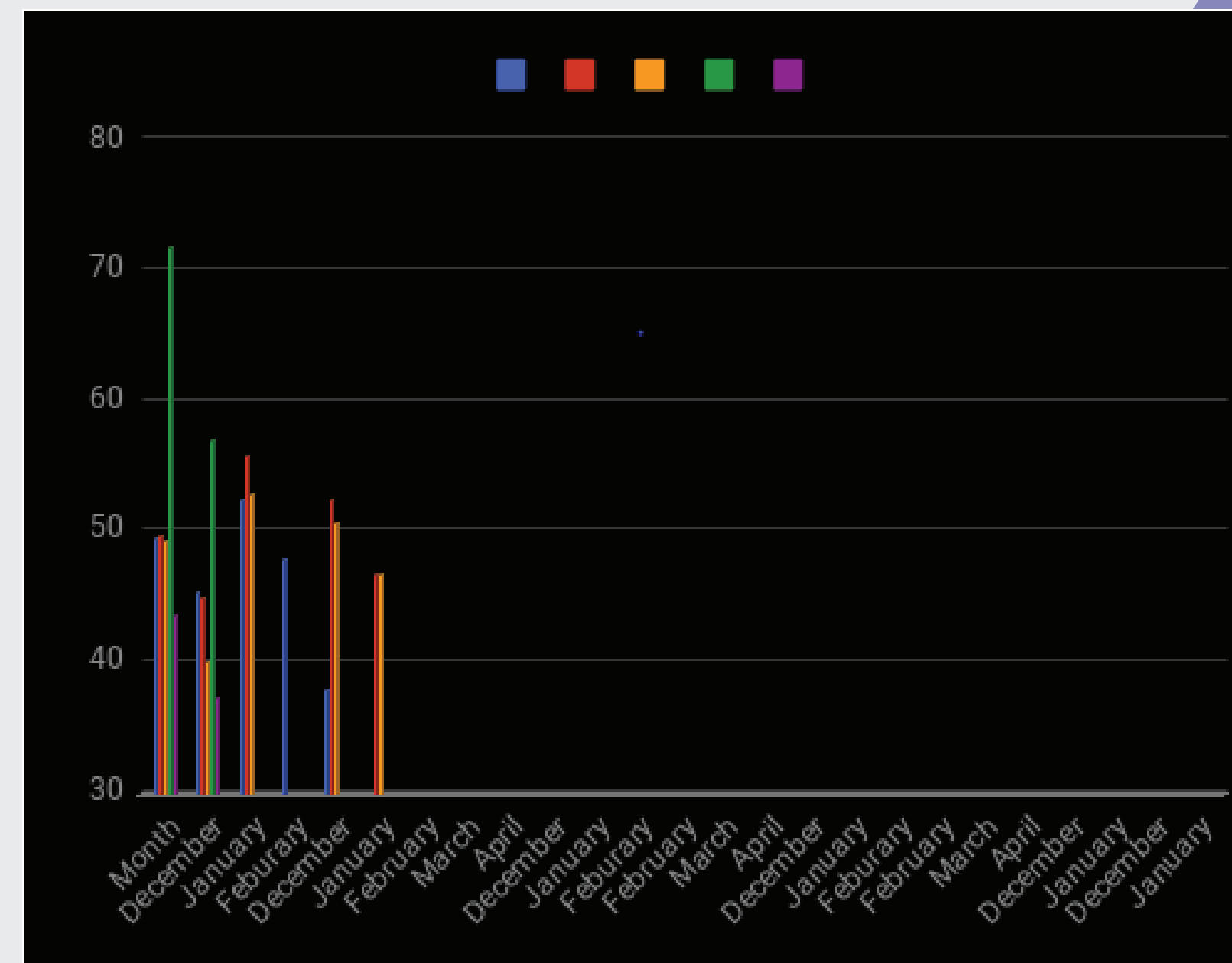


MOHAWK WATER ECOLOGY TEAM

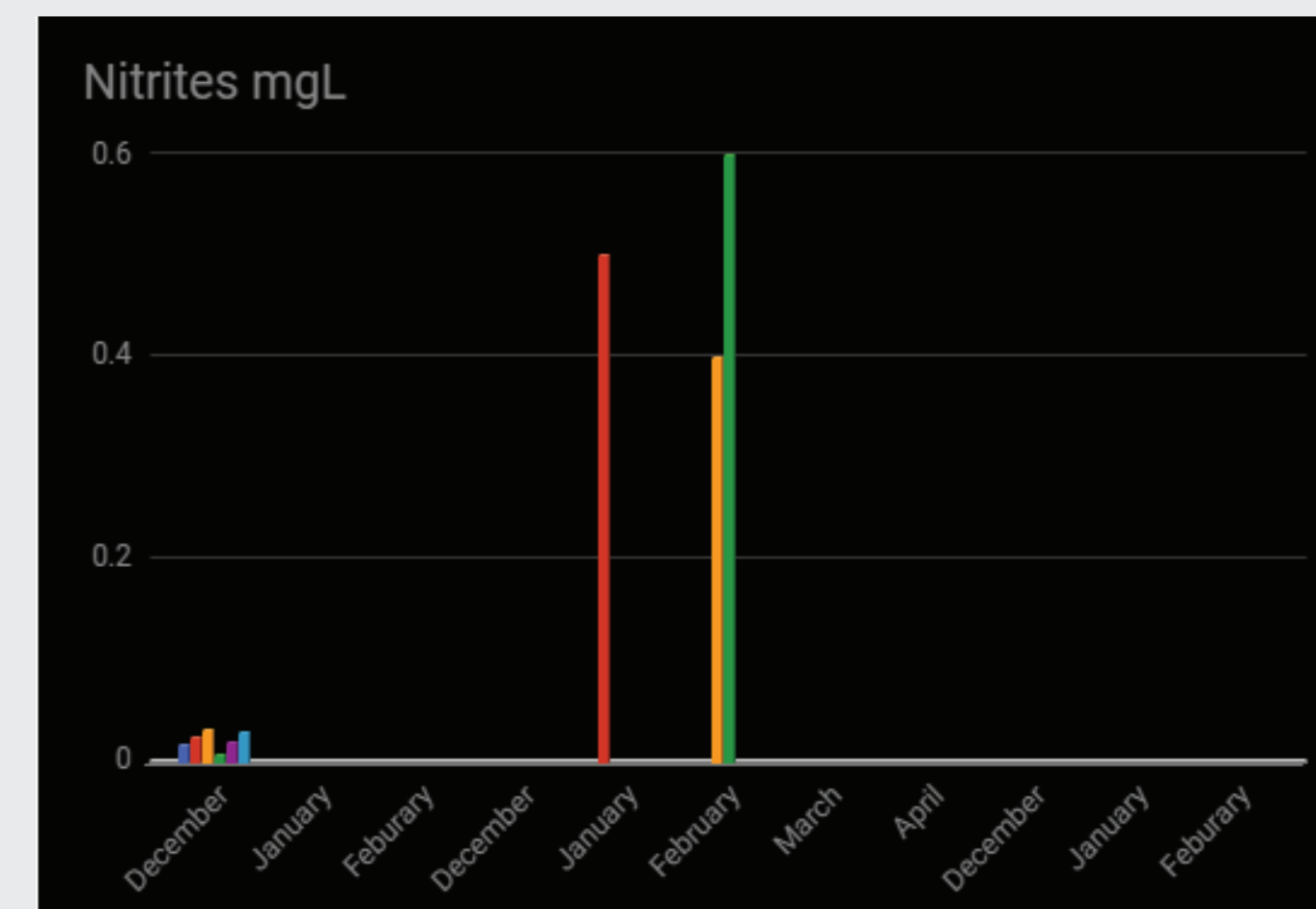
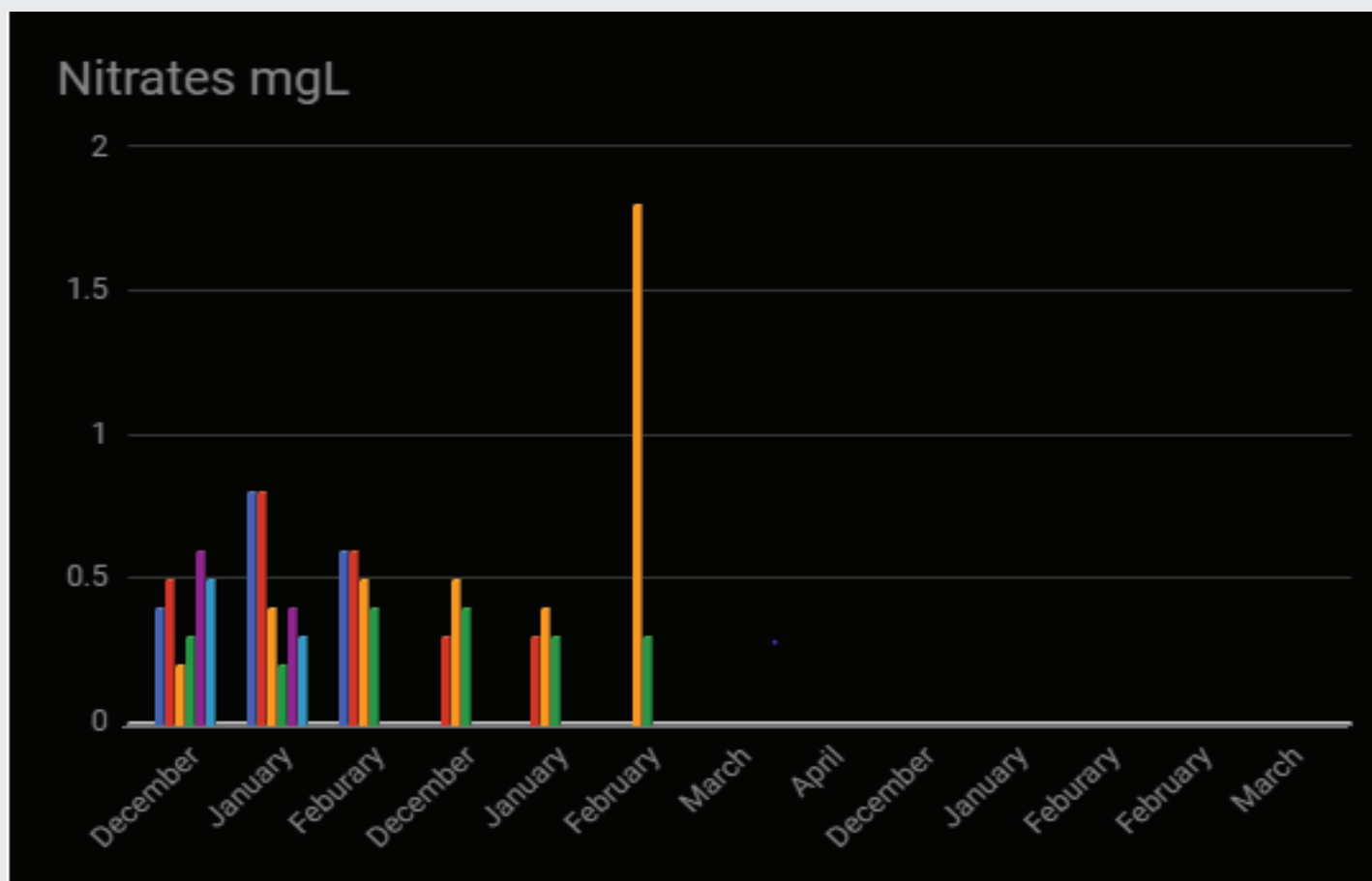
NITRATE & NITRITES

- Essential source of nutrients for plants
- Occurs naturally
 - Caused by fertilizers and cesspool
- Acceptable levels: less than 10 mg N/L
- We've been getting around 10 mg N/L
- Can cause Baby Blue Syndrome
- Results are found through colorimeters after adding different reagents to the water



TURBIDITY

- How clear the water is
- Turbidity affects how warm or cool the water is, which affects how much DO is in the water
- If there is too much turbidity in a body of water, it looks murky and can become a Eutrophication Zone which isn't safe for animals to live in or for you to swim in
- Safe levels for turbidity is 20 NTU and under
- We've been getting around 7 NTU
- To test Turbidity, you just put it in a colorimeter



CONDUCTIVITY

- How well the water transfers electricity
- Calculated as the ratio of the density to the electric field
- Shows how much salinity is in the water
- Can be affected by nitrates, sulfates, chloride, and more
- Acceptable levels: less than 150 $\mu\text{mhos/cm}$
- We've been getting around 50 $\mu\text{mhos/cm}$ (with a few outliers)

PHOSPHORUS

- Is a nutrient for living things
- Naturally occurring in minerals and organic matter
- Necessary for life, but it can cause a Eutrophication zone
- Acceptable levels: < 0.3 mg/l
- We've been getting around 0.3 mg/l

