Are there too Many Dissolved Solids in our Stream? By : ALEX, NIKKI, AND LANIE



What is Conductivity?

- Conductivity measures the amount of dissolved solids in the stream.
- We are measuring for conductivity to find how healthy our stream is.
- The Stream has a conductivity from 1500-9000 mg/l which is considered very poor in terms of water quality.
- "The wars of the 21st century will be fought over water" Ismail SerageIdin

Background

Causes

 salt, nitrates and, phosphates

Which Can be Found in....

- Dead Plants and Animals
- Dead Leaves and Animal Waste
- Leaking Septic Tanks
- Fertilizer
- Dirt
- Cleaning supplies

Consequences

- Fresh water organisms struggle to live because of high salt amount
- Imbalanced Life Cycle



PREDICTIONS

We had mixed predictions. Two of us thought that every section would be poor.

Section 1,2,,3- least poor Section 4 and 5- 2nd to least poor Sections 8 and 9- most dissolved solids/worst Someone else in our group

thought....

that would get fair and poor

results

Evidence: Quantitative



Evidence : Qualitative

Some things we noticed @ the stream that contributed to Conductivity were...



Dead leaves



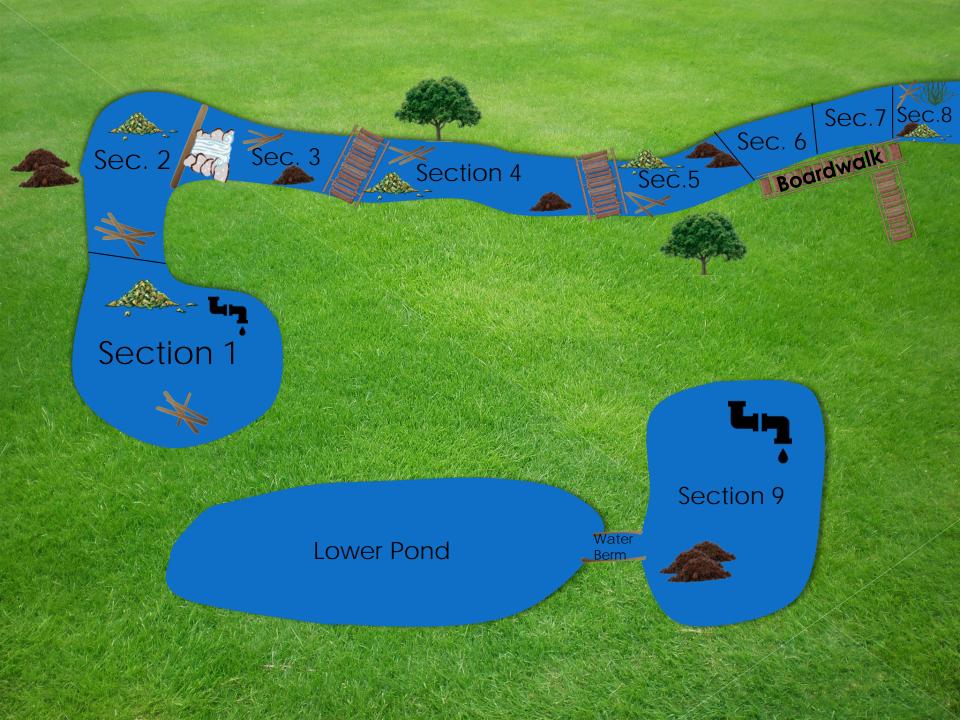


Algae

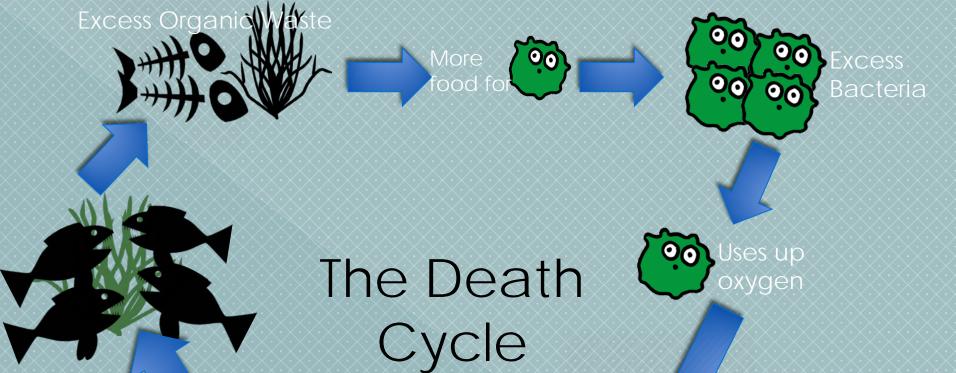


Dirt





Now you may be asking..why are nitrogen, and phosphorus consequential for our stream?







Conclusion

- Therefore, our streams high conductivity is problematic for many aquatic organisms.
- If we do not treat our water with care, clean water could be the main source of wars in the not-so-far future.

In order to prevent high conductivity we must...

- Be more mindful of the amount of salt we lay on the pavement.
- During summer and spring put less fertilizer on lawns near the stream.



Overall, in order to improve the conductivity of our stream we need to be aware of the well-being of our stream and its organisms!

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