

Lab Report Template

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4.3.5 Drink This

Problem

Which type of drinking water is the most contaminated?

Which type of water is more contaminated pure life bottled water or fountain water?

Hypothesis

Indian Creek water will be the most contaminated.

Fountain water will be more contaminated than pure life bottled water.

Materials

- pH sensor
- Total dissolved solids
- Turbidity sensor
- 4 100 ml. beakers
- 2 250 ml. beakers
- Fountain water
- Pure life bottled water
- Hose water
- Indian Creek water
- Lab tape
- Pencil
- Notebook
- Buffer solution
- Rinse Bottle
- Thermometer
- Chloride strips

Procedures

1. Label the 4 100 ml beakers fountain water, bottled water, Indian Creek water, and aquaculture lab water.
2. Poured 80 ml of each type of water into a correctly labeled 100ml beaker.
3. Use a LabQuest and turbidity sensor to test each sample of water for turbidity.
4. Use a LabQuest and a pH sensor to test each sample of water for pH.
5. Use a LabQuest and dissolved oxygen sensor to test each sample water for dissolved oxygen.
6. Use a thermometer to measure the temperature of each sample of water.
7. Use 5 chloride strips to measure the amount of chloride in each sample of water.
8. Record all data as going
9. Clean up

Data Collection

| | Fountain Water | Hose | Bottled Water | Indian Creek |
|-------------------------|----------------|-------------|---------------|--------------|
| Turbidity | 25.2 | 23.2 | 22.0 | 20.7 |
| PH | 5.90 | 5.44 | 5.87 | 5.75 |
| Dissolved Oxygen | 4.0 | 2.3 | 3.9 | 3.8 |
| Chloride | 1.5 | 3.2 | 1.4 | 3.6 |
| Temperature | 21 | 23 | 24 | 25 |

Analysis of Results

The water with the most turbidity in it was fountain water, and the water with the highest pH level was pure life bottled water. Fountain water had the most dissolved oxygen in it, and Indian Creek had the most chloride in it. Indian Creek was the coldest water and fountain water was the warmest.

Conclusions

My hypothesis was correct for what water would be the most contaminated. Indian Creek was the most contaminated, because people go in it and fish swim in it and there is waste in the creek too. Also my other hypothesis was correct about, which water will be more contaminated fountain water or pure life bottled water. Some mistakes that I could have made was contamination with different types of water and putting the wrong information in the wrong table.