Name_____

CASE

Lab Report Project 4.3.5- Drink This

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Project 4.3.5- Drink This

Problem

Is drinking water meeting EPA drinking water standards?

Hypothesis

There will be a significant difference between the Indian Creek water and other water.

Materials

- Indian Creek Water
- Dasani Water
- Hose Water
- Classroom Sink Water
- Temperature Sensor
- Dissolved Oxygen Sensor
- pH Sensor
- Turbidity Sensor
- Nitrate Sensor
- Four 50 ML beakers

Procedures

1. Collect the materials listed above.
2. Label Beakers
3. Fill each beaker to 30 ML with a different kind of water for each beaker.
4. Test Temperature
5. Test Dissolved Oxygen
6. Test pH
7. Test Turbidity
8. Test Nitrate
9. Repeat steps 4-8 for other types of water.

Data Collection

Table 1- Data

Type of Water	Temperature	Dissolved Oxygen	pH	Turbidity	Nitrate
Indian Creek	23.3°C	83.6%	7.14	3.8 MTU	1.5 ppm

Dasani	22.3°C	63.6%	5.30	2.9 MTU	2 ppm
Hose Water	21.6°C	35.8%	6.69	1.7 MTU	3 ppm
Classroom Sink	22.8°C	76.4%	7.39	-3 MTU	2 ppm

Analysis of Results

According to the results, the temperatures range from 21.6°C to 23.3°C. The dissolved oxygen ranges from 35.8% to 83.6%. The pH ranges from 5.30 to 7.39. The turbidity ranges from –3MTU to 3.8MTU. The Nitrate ranges from 1.5ppm to 3ppm.

Conclusions

Based on the results, in a way, the prediction was proven, there was a difference between the Indian Creek water and the other water. However, the difference is not as significant as predicted. There was a malfunction with the LabQuest when finding the turbidity for the Classroom Sink. The turbidity should not have been a negative number.