**Electrical Conductivity**

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**Problem**

Which type of water has the most electricity, pond water or bottled water?

**Hypothesis**

We think that the bottled water has the most electricity.

**Site Location**

Site location is Cypress Bayou. A bayou in the near an area of Beneke Elementary, Houston, Texas

**Materials**

Conductivity meter

Bottled Water

Glass and Plastic Beakers

Graduated Cylinders

Timer

Pencil & Science Log Notebook

**Steps**

Test #1

Bottled water temperature was 2.7 on the electrical conductivity meter

Test #2

Pond water was 19.2 on the electrical conductivity meter

**Research**

Tap water is a conductor of electricity because there are small amounts of calcium, magnesium and salt dissolved in it. Pure water or bottled water has nothing at all in it that can conduct electricity. Bottled water or pure water is a poor conductor of electricity. It has very few ions.

**Results**

Our hypothesis did not support our results. Why? We decided that bottled water had the most electricity out of pond water but our experiment recorded that the pond water had the most electricity. Our research supports the results.

**Conclusion**

We learned that both types of water samples (bottled and tap water) has some amount of electricity in it but bottled water does not have as must electricity as tap water does because of the filtration process that water goes through in order for humans to drink it without getting sick.