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Methods

The water samples were centrifuged at 5000 x g for 20 minutes to pellet microbial cells. The Zymo Quick-DNA Fecal/Soil Microbe Miniprep Kit was used to extract the DNA targeting the 16s rRNA gene at the V4 region. A forward primer 515F and reverse primer 806R were used to amplify the V4 region. A PCR test was done using the GoTaq Flexi PCR kit with the water samples, while having a negative and positive control. The PCR tubes were put into a Bio Rad T100 Thermal Cycler and run through the 16s amplification thermocycler program. 7.5 microliters of each individual PCR amplicon were added to a new separate PCR tube. 1.5 microliters of 6X load dye were added and mixed thoroughly to each new PCR tube. 5.0 microliters of each sample were loaded into their separate well in a 2% agarose gel. The gel ran at 100V for approximately 30-40 minutes.