## Hydrogen Peroxide method for removing organics from fine grained samples.

- 1. Use 30% concentration hydrogen peroxide.
- 2. Put ~1 tablespoon of sediment in a test tube or beaker and add about 10-15 mL of hydrogen peroxide.
- 3. If using a test tube, briefly cap the tube to shake the mixture and then remove the cap.
- 4. If samples are rich in organics, then use glass beakers and add a bit more hydrogen peroxide, making sure to stir the mixture.
- 5. To speed this process along, you can place the test tube/beakers in a hot water bath. The key is that the product of the reaction will cause a gas release so if you're not careful, the sample will bubble over the beaker/test tube. To get a clean sample, it may be necessary to add more hydrogen peroxide and repeat this entire process.
- The reaction of hydrogen peroxide and the organic material will essentially leave behind the sediment, water, and CO2 dissolves out during the process.
- 7. After the sediments have gone through the treatment process with hydrogen peroxide, it's important to rinse out the sample (3x with DI water).
- 8. Dry samples in a drying oven at 80°C or less until all water is evaporated.
- 9. If using a test tube, you can concentrate the sediments using a centrifuge before using a drying oven.