**Bug Juice:**

--You will need: a magnetic stirrer, 1000m glass beaker, pH strips, 1.0N NaOH, 30% H2O2, sodium bicarbonate, 63-micron sieve, buffered DI (buffer to pH 8 using 0.1N NaOH)

--Wear gloves

--Process samples in the fume hood

**To make the bug juice:**

1. 500 ml 30% H2O2
2. Add 1.0N NaOH (buffer) to a pH of 7 (~5 mls; add until you reach pH 7.0)
3. Add 4.2 g sodium bicarbonate (Na(HCO3)
4. Add 1.0N NaOH to buffer to a pH of 8 (~7.5 mls; add until you reach pH of ~8)

**To dissolve organics in the sed trap samples** --Use a 63-micron sieve

1. Sieve sample with buffered DI water
2. Dump what’s left in sieve into an 800 mL beaker (a smaller beaker is probably OK with small samples)
3. Dilute with buffered DI to 200 mLs
4. Add 200 mls of Bug Juice
5. Cover with a watch glass
6. Let sit for several hours or overnight

**Filtering:**

--When the sample is done either filter it using a 63 micron mesh, then wet pick the forams from what remains, or filter onto a clear Millipore 0.7 micron polycarbonate filter.

For filtering onto the polycarb filter

1. Dilute to 700-800 mls
2. filter onto clear Millipore membrane attached to a vacuum pump or aspirator
3. Be sure to make sure all of the forams are removed from the side of the glass beaker
4. After filtering, pick the forams off the filter, rinse in buffered DI, transfer to micropaleoslides.

**LABEL EVERYTHING** – Beakers, containers, etc.