Ballentine Elementary-Wake County School District
Fuquay Varina, NC
Mrs. Wall's 4th grade class
April 19, 2014

- Number of students in the class: 18 students
- Staff members from Ballentine Elementary and volunteers brought in the supplies to collect and identify our macroinvertebrates.
- Students worked in groups of 3, 4 or 5.

Project Question: Will macroinvertebrates be the same in pond water all over the United States?

Class Hypothesis: Because of the type of water and algae at Bass Lake , we expect that most of the organisms we find here will be different from those in other ponds, but there will be some organisms common to all ponds.

Investigation:
• Pond water brought from off campus at a local park, we collected some data about the pond. We discussed how these non-living factors can have an impact on the living organisms in the pond.

Time	2:15 p.m.
Conditions	Sunny, clear day; little wind; algae was covering the surface of the pond
Air Temperature	83 degrees F
Water Temperature	53 degrees F
pH	7
Dissolved Oxygen	

- Then we gathered our materials for the investigation: kitchen strainer, pond water, spoon, Macroinvertebrate Identification Chart.
• We used our materials to find the macroinvertebrates and examine them closely.
• We identified the macroinvertebrate and tallied each on our identification sheets.

Results:

Macroinvertebrate Indicator of Good Water Quality	**Total Found**
Mayfly larvae	
Caddisfly larvae	
Stonefly larvae	
Grill Snails	

Macroinvertebrate Indicator of Fair Water Qu	**Total Found**
Scuds	4
Damselfly Nymph	2
Crayfish	
Cranefly Larvae	
Giant Water beetle	1
Snails	
Water Spider	4

Macroinvertebrate Indicators of Poor Water Qualities	**Total Found**
Midge fly Larvae	
Black fly larvae	
Leeches	
Aquatic worms	1

Microinvertebrates Others	**Total Found**
Cyclops	4
Cypris	2
Diatoms	5
vorticella	1
algea	Floating
Paraniceum	19
Hydra	1
spyrogyra	8
Duck Weed	4
Rotifer	1
Protozoa	2
Euglena	9
ostricod	5