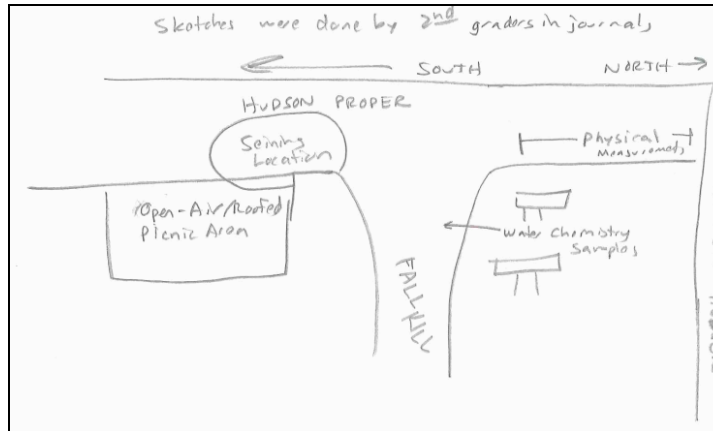


**Day in the Life of the Hudson River 10/12/17 Data
(Salt Front ~ RM 65)
RIVER MILE 75**

**Fall Kill/Hudson intersection in Poughkeepsie, NY
Brent Boscarino 10th graders & Lynn Fordin 2nd graders, Poughkeepsie Day School
18 students 2nd, 9-12th and 8 adults
41°42'32.80"N and 73°56'25.19"**



Location: Fall Kill/Hudson intersection

Surrounding Land Use: 50% rocky beach, 50% industrial/commercial

Sampling Site: rocky, some plants, small pipe north. Bottom was rocky, seeds from water chestnut

Plants in Sample Area: 30%

Shoreline: 35% riprap, 30% covered with vegetation, 10% debris, 25% other

River Bottom –sandy, muddy

Water Depth – 50cm

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|--|--|--------------------|----------------------------|-----------------|
| <i>Physical</i> | | | | |
| Air Temperature | 10:39 11:15 | 65.7°F 67.5 | 19.4°C 19.7 | |
| Wind Speed | North | 2.5 Beaufort force | | |
| Cloud Cover | 10:35 AM | overcast | 76-100% | |
| Water | At beginning, there were white caps, but it settled down between 10:00-11:30 | | | |
| Weather | Got sunnier as time advanced | | | |
| <i>Water Temp.</i> | 10:00 AM | 73°F | 23°C | . |
| <i>Turbidity – long site tube</i> | | 43cm | | |
| <i>Chemical</i> | | | | |
| DO - Drop Count | 10:10 | DO 8mg/l | 92% saturation | |
| pH – indicator sol. | 10:05 | 6.7 6.8 | <i>Average: 6.9</i> | |

| | | | | |
|---|--|--|--|--------------------------------------|
| <i>Color match</i> | | 7.0 | | |
| Salinity - low range quantab | 10:30 2.6 | 0.011%NaCl | 68ppm Cl ⁻ conc. | 115.62 ppm TS |
| Digitally, we got 279.8 us/cm using Vernir probes—conductivity | | | | |
| <i>Fish Catch – 28 feet net</i> | <i>Number Caught</i> | <i>Species</i> | <i>Largest</i> | |
| <i>Circle seine, 7 seines</i> | 1 | Smallmouth Bass | 15in | 38.1cm |
| | 1 | Bluegill | 8 | 20.32 |
| 7' deep nylon, ½ inch sq mesh, 1 inch stretch, nylon seine, | 1 | Pumpkinseed | 7 | 17.78 |
| | 1 | American Shad | 3 | 7.62 |
| | 6 | White Perch | 13 | 33.02 |
| <i>Macroinvert</i> | 4 | Amphipods | | |
| <i>Tides</i> | 9:45 10:00 10:15 10:30 10:45 | 53 40 34 27 25 | Falling Falling Falling Falling Falling | -.866 cm/min -.40 -.46 -.13 |
| <i>Currents</i> | 10:05 | 12.5 cm/sec | 0.999 Knots | South, Flood |
| The fall Kill enters the Hudson around 50-100 feet south of where the measurements were taken | | | | |
| <i>Boating and Shipping</i> | 9:35 | White | Southbound | Loaded |
| <i>CORE</i> | <i>Condition</i> | <i>Rare</i> | <i>Common</i> | <i>Abundant</i> |
| | | Clay Leaves Wood Shells Oysters Freshwater Mussels Zebra Mussels Macroinvertebrates | Mud Sand Gravel Pebbles Concrete Brick chunks Pipes? | |