

**Day in the Life of the Hudson River 10/12/17 Data**  
**(Salt Front ~ RM 65)**  
**RIVER MILE 60.2**  
**Newburgh Yatch Club, Newburgh, Orange County NY**  
**Suparna Bhalla, Lynn Maelia, and Undergraduate Students**  
**From Mount Saint Mary College**  
**San Miguel Academy 6th grade (20 students and 8 adults)**  
**Latitude 41.5, Longitude -74**

**Location:** Newburgh Yatch Club, Newburgh, Orange County NY

**Area:** Pier, dock with bulk heads, rip rap and wood bulkhead

**Surrounding Land Use:** Urban/residential 100%

**Shoreline:** Rocky

**Sampling Site:** beach, covered in vegetation, banks altered, rip rap

**Plants in the water:** 80% water chestnut and 20% water celery

**Water depth:** <1 m

**Bottom Surface:** muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading</i>	<i>Comments</i>
<i>Physical</i>	1:00 – 3:15 PM			
Air Temperature		18.4°C		Average of 6 vernier probes
Wind Speed				
Cloud Cover				
Weather today	NR			
Weather recently	NR			
<i>Water Surface</i>	NR			
<i>Water Temperature</i>	Time	Degrees °C		
		22°C		average of 6 probes
<i>Turbidity-lamotte kit</i>		7 JTUs		average of 12 test
<i>Chemical</i>	<i>Time</i>	<i>DO</i>	<i>Temp</i>	<i>% saturation</i>
DO CHEMetrics K-7512 1-12 ppm range		7 ppm	22°C	average of 12 test
pH – Vernier pH probe		7.5		average of 15 test
<i>Nitrates – indicator strips</i>		4 ppm		average of 15 test

<i>Phosphate kit – LaMotte 0.5-10 ppm</i>		0.5 ppm		average of 14 test
<i>Salinity – Vernier Salinity Probe</i>		2150 ppm		average of 12 test
<i>Tides</i>		<i>Rising during sampling</i>		
<i>Currents vernier flow rate probe</i>		7.2 cm/sec		Average of 9 flow rate probes