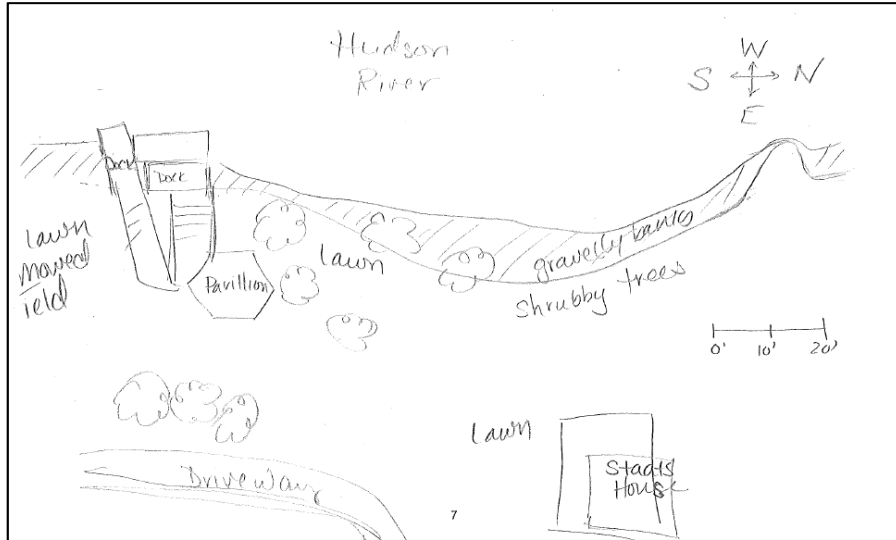


Day in the Life of the Hudson River 10/20/16
(Salt Front ~ RM 83)
RM 140 Papscanee Preserve
Staats Island Rd., Castleton-On-Hudson
Kate Perry, Parker School 2nd & 3rd and 6th & 7th, 32 students & 15 adults



Sampling Site

Location: 150 Stats Island Rd, Staats Island, Castleton-On-Hudson, Rensselaer County

Surrounding Land Use: Urban/Residential 100%

Sampling Site: Open grassy with a dock on the site, pier, brick pieces

Plants in area: plants covered by water at highest tide – otherwise along edge – 5%.
 Water milfoil and water celery, and also found 3 devil head seed pods but no water chestnut plants seen. Grasses and reeds present.

Water depth: shore to 45 cm mostly

River Bottom: rocky

NOTE: Fish catch from students listed below. DEC also brought fish including:

- 1 Striped Bass (15 cm)
- 1 Walleye (17.5 cm)
- 1 Black Crappy (7 cm)
- 1 catfish (22 cm)
- 1 American Eel (15 cm)
- 1 smallmouth bass (18 cm)
- 1 Sheepshead (12 cm)
- 1 Red Horse (18 cm)

All sampling occurred between 9:30-11:00 & 11:30 and 1:00 PM

	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	10:10 AM	19°C	66.2 °F	
	11:01 AM	11	51.8	
	11:27 AM	15	59	

Wind Speed		Beaufort 1	N-NW	
Cloud Cover	Partly cloudy with sun 10Am	Mostly cloudy by 11AM		
Weather last 3 days	Warm and dry			
Water Surface	calm			
<i>Water Temperature</i>	10:44 AM 11:05 AM	16°C X 3 15.5, 16, 16		Average 16°C
<i>Turbidity</i> Long Sight Tube	10:44 AM 11:05 AM	41, 40, 40 cm 47, 52, 116 cm	AVERAGE	40.3 cm 70.2 cm
<i>Chemical</i>				
DO - drop count	10:50 AM	9.5 ppm	16°C	95% saturated
pH (test strips)	10:44 AM 11:35 AM	6, 6, 6 7, 7.5	Avg. pH pen chemical test	6 7.25
Salinity - meter	11:25 AM	19, 19 ppm	AVERAGE	19 ppm
quantabs	11:25 AM	39 mg/l Cl-		70 ppm
<i>Tides</i>	9:15 AM	48 cm	Down from dock	
	12:00 PM	123 cm	Down from dock	Falling – 75 cm/165 min OR 2.2 cm/min
<i>Currents</i>	Cm/30 sec	Cm/sec	Knots	N/S – Ebb/Flood
10:55 AM	27	0.9	0.02	S/Ebb
11:15 AM	81	2.7	0.05	S/Ebb
11:30 AM	113	3.8	0.07	S/Ebb
There are a few jut outs from the shore and a deck creating a small cove. Many students current data reflects their protected environment.				
Sediment Core 20 cm depth	Description	Rare	Common	
	6.5 cm see sketch below	Mud Sand Leaves Mussels Brick	Gravel Pebbles	

Sketch of your core below with measurements for each section & total core (be sure to label the top and bottom):

11

form updated 8/11/13

Fishing – seine 20 ft. net & a 40 ft. pull	Count	Species	Length largest	Seine #s
10:45 AM	6	Spottail Shiner	9 cm	4 in 1st seine 2 in 2 nd seine
	DIVERSITY 1	CATCH 6		
CPUE	10:15 AM	4 fish	40 ft. pull	~ 0.7 cpue
	10:30 AM	2 fish	40 ft pull	~ 0.3 cpue
Shipping	Time	Name		
	10:55 AM	Jane A. Bouchard	Oil pumper	N - loaded
	11:09 AM	DEC Pontoon – Scott Wells	Fishing boat	S - loaded
Other items of interest	Pieces of broken pottery			

The beauty of the fall leaves, flowing river and grassy shore greeted us as we arrived at Staats Island. The emerging sunshine dabbled our experimenting, observing and explaining students. Our students found few animals, but were enthralled with the water and the setting of the land. Kate Perry