Day in the Life of the Hudson River 10/12/17 (Salt Front ~ RM 65)

RM 140 Papscanee Preserve

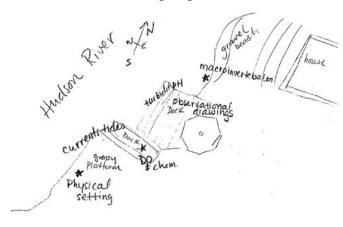
Staats Island Rd., Castleton-On-Hudson Kate Perry, Parker School 2nd & 3rd and 6th & 7th, 36 students & 16 adults







Sampling Site



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

Surrounding Land Use: 80%

Urban/residential, 10% forested, 10% beach

(gravel)

Sampling Site: Mostly vegetation covering larger rocks. One section of gravel beach.

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 1.22m mostly

River Bottom: rocky, gravely with some mud

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

1 Catfish (30.5 cm)

5 White Sucker (38 cm)

1 Freshwater Drumfish (45.7 cm)

1 Northern Hog Sucker (35.6 cm)

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

	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature	10:50	19°C	66.2 °F	
	11:33	20	68	
Wind Speed		Beaufort	S-SW	

Cloud Cover	Partly cloudy,				
	clearing as				
	morning went on				
Weather last 3	Unseasonably warm, rain evening of 10-11-17				
days	_	_			
Water Surface	Mostly calm				
Water	10:45	16°C	16°C	16°C	
Temperature	11:30	16		16	
	11:50	16	16	16	
Turbidity	10:45	71.2	68	69	
Long Sight Tube					
Chemical					
DO - drop count	10:50 AM	5mg/l	16°C	50% saturation	
pH (test strips)	10:50	6, 6, 6	Litmus paper	Average: 6	
Salinity -	10:45	1.2 Quantab unit			
(Low-range		(below detection)			
Quantab)					
Nitrates	11:07	0ppm	5ppm	Average: 2.5	
(NO_3)				ppm	
Phosphate	11:07	0.04ppm	0.04ppm	Average:	
				0.04ppm	
quantabs	11:25 AM	39 mg/l Cl-		70 ppm	
Tides	Time	Height	Rate	Rising/Falling	
Measuring dock to	10:40	60cm	1.0cm/min		
water surface	10:50	61	0.7	Falling	
	11:06	50	0.55	Rising	
	11:16	56	0.06	Falling	
	11:43	61	0.4	Falling	
	11:46	66	1.0	falling	
Currents	Cm/30 sec	Cm/sec	Knots	N/S –	
				Ebb/Flood	
10:40	353.9	11.8		S/Ebb	
11:00	178.3	5.9		S/Ebb	
11:30	240.4	8.01		S/Ebb	

Data was collected off of a dock with a platform alongside it. Boat traffic and student error may have created data discrepancy

Sediment Core	Description	Rare	Common	Notes
20 cm depth				
	Length of core:	Mud	Sand	Roots with
	90cm	Pebbles	Gravel	diameter
		Leaves	Wood	ranging from
		Shells Oysters		2mm to 4mm
		Freshwater		

Mussels Zebra mussels Macroinvertebrates Brick Coal Slag					
Fishing – seine 20 ft. net & a 40 ft. pull	Count	Species	Length largest	Seine #s	
CPUE	DIVERSITY 1	CATCH 6			
Shipping	Time	Type (Recreational/ Commercial)	Туре	Cargo	
	9:50 10:30 10:55	R C R	Yacht Coastguard Speedboat	People People People	
Other items of interest	Historic Staat's House, grasshopper missing a leg, baby mice in a nest along shore, gull Stats Island. Three dozen young scientists marveled at the cool winds				

An amazing day at Stats Island. Three dozen young scientists marveled at the cool winds, gentle tides, blue sky and Hudson River fish. They mysterious devils pod chestnut seeds created rich inquiries. Avian life abounded in the nearby trees still holding fall leaves.