Day in the Life of the Hudson River 10/16/18 Data STEAMBOAT DOCK, VERPLANCK RIVER MILE: 41 Salt Front: ~RM 24 Mahopac High School- Scott Rizzo, Trisha Johnson, Jason Zides 25 students 9th-11th grade, 3 adults Latitude 41.24936 N & Longitude -73.936474 W



Location: Steamboat Dock Park Beach, City of Verplanck, Westchester County, NY Area: located in a small cov between a point and a bulkhead- pier, grassy, parking lot Surrounding Land Use: 30% Urban/Residential; 35% Beach; 35% Parking lot

Sampling Site: Beach and parking lot

Shoreline: sandy, rocky

Plants in area: No plants in water area

Water: 2 feet deep

River Bottom: Sandy; muddy; rocky

ITEM	Time	Reading	Comments	
Physical		· · · · ·		
Air Temperature:	10:25 AM	8 ° C	48 ° F	
Wind Speed:	10:27 AM	Beaufort 4	13 MPH NE	
Weather Today:	11:53 AM p			
Weather Previous:	Rained Mor			
Water Temperature	9:39 AM	18.1 ° C	64.58 ° F	
	9:53 AM	18 ° C	64.4 ° F	
	11:15 AM	18 ° C	64.4 ° F	
Turbidity -				
Long sight tube				
Chemical				
Salinity- YSI Pro30	9:39 AM	0.1 ppt OR 100 ppm		
Conductivity Meter –	9:53 AM	0.1 ppt OR 100 ppm		
Total Salinity	11:15 AM	0.1 ppt OR 100 ppm		
<i>DO</i> –	Time	Temp ppm DO		% saturation
	9:55 AM	18 ° C	8	90%
	10:15 AM	18 ° C	8	90%
pH- color match test kit	9:53 AM	7.5		
	10:45 AM	8		
	11:15 AM	7.5		
Nitrates-	9:39 AM	1.4 ppm		*readings seem
	11:15 AM	2.79 ppm		high
Alkalinity	9:39 AM	80 ppm		
	9:53 AM	120 ppm		
	11:15 AM	100 ppm		
Phosphates	9:53 AM	0.5 ppm		
	10:10 AM	0.61 ppm		

Fish – seine 2	25 feet	Number	Name		Length of longest	
	7:30 AM	1 American S			7.62 cm	_
7.507111		1	Striped Bass		10.16 cm	
10:15 AM		5	Striped Bass		10.16 cm	
	10.10 / 10/		White Perch		20.32 cm	
11:00 AM		1	American Shad Sunfish Striped Bass		6.35 cm	
		1			1.5 inches	
		1			10.16 cm	
		TOTAL: 11	Diversity: 4			
<i>Macroinvertebrates-</i> <i>Seine</i>		Number	Name		Length of longest	
		20	Asian Shore Crab			
		TOTAL: 20	Diversity: 1			
Tides- tide stick		Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
		9:42 AM	Still	52	-	
		10:00 AM	Still	52	0	
		10:13 AM	Rising	55		
		10:26 AM	Rising	58		
		10:49 AM	Rising	63		
		11:01 AM	Rising	65		
		11:11 AM	Rising	66		
Currents Flow		Time	Cm/second	Knots	North/South	Ebb/Flood/Still
		9:50 AM	2.67	0.052		
*Wind picked up		10:17 AM	6.2	0.121		
*	•	10:30 AM	4.8	0.093		
		10:50 AM	3.6	0.070		
Sediment Core		Water depth	Length	Oxid Top	Grain Size	Other
Boats	Time	Name	Color		North/South	Loaded/Light
Commercial	10:13 AM		Light Gray		North *same	Light
Commercial	10:14 AM	Tugboat	Red/White		North +same	Light
Commercial	11:12 AM		Light Gray		South *same	Light
Commercial	11:15 AM	Tug	Red/White		South +same	Light
Commercial	11:45 AM	Tug/Barge RTCB9	Red		North	Loaded
Other Observ	vations	Brick and w				
			nputs; 10 mallard ducks; 24 Canadian geese, 1 bald eagle			