## Day in the Life of the Hudson River 10/16/18 Data LONG DOCK, BEACON, RIVER MILE: 61

Salt Front: ~RM 24

Excelsior Academy (Newburgh Free Academy)- Joyce D'Imperio 50 students 10<sup>th</sup> grade, 6 adults
Scenic Hudson- Kate Phipps, Kristin Welch
Constitution Marsh- Rebecca Schultz
Latitude 41.50312 N & Longitude – 73.98696 W

Location: Long Dock Park, Beacon, Dutchess County, NY

Area: Long Dock Park- a former brownfield now public park used for fishing, launching kayaks, picnics,

fieldtrips, enjoying scenic view of the Hudson River, Hudson Highlands, and Hudson Valley. Most of the shoreline

on the south side is lined with trees.

Surrounding Land Use: 25% Forested; 15% Beach; 60% Other

Sampling Site: Beach area rocky with lots of sand, water chestnut and grass

Plants in area: water chestnut River Bottom: Muddy, Rocky

iver Bottom: Muddy, R ITEM	Time	Reading		Comments
Physical				
Air Temperature:	9:23 AM	12 ° C	53.6 ° F	
1	10:20 AM	10 ° C	50 ° F	
	11:50 AM	13 ° C	55.4 ° F	
	12:40 PM	16 ° C	60.8 ° F	
Wind Speed:	9:23 AM	5 mph	7.5 mph gusts	
	10:20 AM	6 mph	11 mph gusts	
	11:50 AM	6 mph	7 mph gusts	
	12:40 PM	7.5 mph	9 mph gusts	
Weather Today:	NA	•		
Weather Previous:	NA			
Water Temperature	9:45 AM	13.5 ° C	56.3 ° F	
	10:52 AM	12.5 ° C	54.5 ° F	
	12:00 PM	15 ° C	59 ° F	
	12:45 PM	14 ° C	57.2 ° F	
Turbidity -	Time	meter	Long sight tube	
	9:40 AM	24 NTUs	29 cm	
	10:50 AM	140 NTUs	10 cm	
Chemical				
Salinity- Low Range	9:40 AM	32 ppm		
Quantabs	10:50 AM	32 ppm		
	12:00 PM	32 ppm		
DO –	Time	Тетр	ppm DO	% saturation
	9:45 AM	13.5 ° C	11	105
	10:52 AM	12.5 ° C	10	95
	12:00 PM	15 ° C	13	130
	12:45 PM	14 ° C	11	106
pH -	9:45 AM	7		
	10:52 AM	7.4		
	12:00 PM	7.4		
	12:45 PM	7.4		
Fish – seine	Number	Name	Length of longest	
	5	Striped Bass	7.7 cm	
	11	Spottail Shiner	11 cm	
	1	Alewife	2 cm	
	8	Blueback Herring	3 cm	
	4	White Perch	13 cm	

	2 1 1 1 1	Pumpkinseed Bluegilll Banded Killifish Tessellated Darter Golden Shiner	16.5 cm 8 cm 9 cm 6.5 cm 6.5 cm	
	TOTAL: 35	Diversity: 10		
Macroinvertebrates-	Number	Name	Length of longest	
Seine	N/R			-
	TOTAL:	Diversity:		_
Tides- dock to water	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
	9:23 AM	Rising	290	-
	10:20 AM	Rising	203	1.526
	11:50 AM	Rising	200	0.033
	12:40 PM	Rising	191	0.18
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still
9:23 AM	28	0.544		
10:20 AM	31	0.603		
11:50 AM	18.3	0.356		
12:40 PM	27.6	0.537		