Day in the Life of the Hudson River 10/16/18 Data GARRISON LANDING RIVER MILE: 51.5

Salt Front: ~RM 24

Garrison School- Kevin Keegan 25 students 7th-8th grade, 5 adults Hudson Highlands- Lisa Mechaly Latitude 41.38207 N & Longitude – 73.94799 W

Location: Garrison Landing Park, Garrison, Putnam County, NY

Area: Waterfront beach area with a pier in front of grassy park primarily used for boating and picnics **Surrounding Land Use:** 60% Forested; 20% Urban/Residential; 10% Industrial/Commercial; 10% Other

Sampling Site: Rocky shoreline, pier, shore with bulkhead, riprap, grassy, parking lot

Shoreline: sandy, muddy

Plants in area: no plants in water area

Water: 3 feet deep, choppy River Bottom: muddy: sandy

ITEM	Time	Reading		Comments
Physical				
Air Temperature:	10:05 AM	10 ° C	50 ° F	
•	12:16 PM	16 ° C	60.8 ° F	
Wind Speed:	10:12 AM	SW Beaufort 1	1-3 Knots	
	11:26 AM	N Beaufort 5	1-3 MPH	
	12:17 PM	SW Beaufort 2		
Weather Today:	10:13 AM par			
	75%). No rair			
Weather Previous:	Very rainy- o	n and off for the past 3 days		
Water Temperature	10:20 AM	14.5 ° C	58 ° F	5 inches
	10:29 AM	17.8 ° C	55 ° F	
	10:35 AM	15.1 ° C	60 ° F	
	11:54 AM	15.6 ° C	60 ° F	2.10 feet
Turbidity -	10:44 AM	100 cm		
Secchi disk				
Salinity- Low Range	11:45 AM	101 ppm Cl ⁻	182 ppm Total	
Quantabs			Salinity	
DO – titrator strips,	Time	Тетр	ppm DO	% saturation
color match	10:54 AM	15.6 ° C	8	81
	11:08 AM	15.6 ° C	8	81
pH - color match	11:49 AM	7		
	11:54 AM	7		
Fish – seine	Number	Name	Length of longest	Seine: 60'x 94.2'x
Group #1: 10:05 AM	1	Pumpkinseed	8 cm	1/4' mesh
	2	Hogchoker	5 cm	Group # 1
	19	Herring	11 cm	Diversity: 5 Total: 29
	2	Banded Killifish	8 cm	
	5	Striped Bass	7 cm	
Group #2: 11:00 AM	3	Hogchoker	12 cm	Group #2:
	1	Darter	7 cm	Diversity: 4 Total: 6
	1	American Eel	17 cm	
	1	Yellow Perch	7 cm	
Group #3: 12:15 PM	1	Naked Goby	4 cm	Group #3:
	1	Sunfish	4.5 cm	Diversity: 7 Total: 17
	2	Darter	6.5 cm	
	1	Black Crappie	12.2 cm	
	2	American Eel	19 cm	
	9	White Perch	12 cm	

	1	Hogchoker		5 cm	
	TOTAL: 52	Diversity: 12			
Macroinvertebrates-	Number	Name		Length of longest	Group # 1
Group #1: 10:05 AM	5	Blue Crab		2 cm	Diversity: 1 Total: 5
Group #2: 11:00 AM	7	Blue Crab		Male	Group #2
	1	Mud Crab		Male	Diversity:2 Total: 8
Group #3: 12:15 PM	9	Blue Crab Mud Crab Diversity: 2		Male	Group #3:
	1				Diversity:2 Total 10
	TOTAL: 23				
Tides-	Time	Rising, Falling,	Height (cm)	Rate of Tidal	
		Still		Change (cm/min)	
	9:30 AM	-	12.7	-	
	10:30 AM	Still	12.7	0	
	11:30 AM	Falling	5.08	0.127	
Currents Flow	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	10:01 AM	18.2	0.354		
	10:15 AM	18.2	0.354		