Day in the Life of the Hudson River 10/16/18 Data PIER 1 LIGHTHOUSE MUSEUM, STATEN ISLAND RIVER MILE: -4.5

Salt Front: ~RM 24

Curtis High School- Edita O'Brien, Dave Scheffler 34 students 11th and 12th grade, 2 adults Latitude 40.647 N & Longitude – 74.0735 W



Location: Pier 1 Lighthouse Museum, Staten Island, NY

Area: Pier, parking lot

Surrounding Land Use: 70% Industrial/Commercial; 30% Urban/Residential **Sampling Site:** riprap (large rocks) concrete bulkhead, covered in vegetation

Shoreline: Rocky

River Bottom: sandy, rocky

Plants in area: No plants in water area

Water: Calm

ITEM	Time	Read	Comments					
Physical								
Air Temperature:	10:50 AM	10 °C	50 °F					
	11:47 AM	11 °C	51 °F					
Wind Speed:	11:51 AM	Beaufort 2 1.5 knots		Northwest				
Weather Today:	Mostly cloudy (51-75							
Weather Previous:	Rained 2 days ago							
Water Temperature	10:20 AM	18 °C	64.4 °F					
	11:23 AM	20 °C	68 °F					
	11:23 AM	18 °C	64.4 °F					
Turbidity-Long sight tube	11:59 AM	65		cms				
		65		cms				
		83		cms				
	Avg:	71		cms				
		Chemical						
Salinity- hydrometer	11:23 AM	13 ppt TS	13 ppt TS					
	10:48 AM	14 ppt TS	12 ppt TS					

Dissolved Oxygen –	Time	Тетр		ppm DO	% saturation				
	10:31 AM	19	°C	8 ppm	85%				
	10:38 AM	18	°C	7 ppm	60%				
	11:23 AM	18	°C	8 ppm	83%				
	12:57 PM	17 °C		10 ppm	100%				
pH -	10:40 AM		8.3						
	11:23 AM	8, 7, 8			Test strips, meter				
	Avg:		7.7						
Nitrates- strips	11:23 AM		0, 10, 0	ppm					
Phosphates	11:23 AM		0, 10, 10 ppm						
Biological									
Fish – seine	Number	Name	?	Length of longest					
	2	Striped Bass		16 inch					
	1	Black Fish							
	6	Oyster Toadfish	_						
	TOTAL: 9	DIVERSITY:	3						
Macroinvertebrates- Seine	Number	Name	?	Length of longest					
	1	Shore Shrimp							
	1	Mud Crab							
	1	Easter Mud Sna	il						
	2	Asian Shore Cra	ab						
	TOTAL: 5	DIVERSITY:	4						
Tides- dock to water	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)					
	10:20 AM	Falling	47						
Currents Flow	Time	Cm/second	Knots	North/South	Ebb/Flood/Still				
	11:42 AM			North	Flood				
	12:57 PM	4.916	0.09556	North	Flood				