Day in the Life of the Hudson River 10/22/19 SOUTH DOCK, WEST POINT RIVER MILE: 52 Salt Front: ~ RM 53 West Point Elementary School- Martin Wormsley 55 students 4th grade, 15 adults 30 Girl Scouts United State Military Academy- Patrick Baker Latitude 41.3933 N & Longitude – 73.9517 W



Location: South Dock, West Point, NY Area: Shallow cover at the south side of Gee's Point; in the vicinity of Duck Island; beach area on the waterfront along the West Point property Surrounding Land Use: 70% Urban/Residential; 20% Forested; 10% Beach Sampling Site: Forested, grassy, parking lot, Beach, banks altered, riprap, pipe entering the water Shoreline: 30% Sandy; 35% Muddy; 30% Rocky Water: 4-6' depth, calm River Bottom: Muddy, sandy, rocky Plants in water: no plants in water area

SLAN

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	2:40 PM	15.1 ° C					
Wind Speed:	2:40 PM	Beaufort 1	1.3 m/s				
Weather today	Overcast (100%)						
Weather past 3 days:	Nothing unusual						
Tides- tide stick	Time	Rising, Falling, Unchanged	Water Height (cm)	Rate of Tidal Change (cm/min)			
Measured every 30 minutes from 6:30-12pm	6:30 AM 7:00 AM – 12:00 PM	Unchanged Ebb Ebb	79 cm (2.6 ft) decrease over 5.5 hours	0.239			
Current-	Time	cm/second, Knots	North/South	Ebb/Flood/Still			
	NR						
Water Temperature-	6:30 AM 11:30 AM 4:30 PM	14.7 ° C 15.1 ° C 15.5 ° C					
Turbidity- Turbidimeter	6:30 AM 11:30 AM 4:30 PM	11.4 NTU 13.8 NTU 16 NTU		Water appeared turbid			
	•	Chemical					
Salinity- Meter	6:30 AM 11:30 AM 4:30 PM	170 ppm 160 ppm 160 ppm					
<i>DO</i> –	Time	Тетр	ppm DO	% saturation			
	6:30 AM 11:30 AM	14.7 ° C 15.1 ° C	8.11 8.18	80% 80%			

	4:30 PM	15.5 ° C	8.21	80%			
pH – meter	6:30 AM	7.67					
-	11:30 AM	7.65					
	4:30 PM	7.61					
Biological							
Fish	Number	Name	Length of longest				
Seine and Rod & Reel	2	Pumpkin Seed					
	5	Spottail Shiner					
	8	Striped Bass					
	3	White Perch					
	1	Smallmouth Bass					
Fish Totals	TOTAL: 19	Diversity: 5					
Macroinvertebrates	Number	Name	Length of longest				
	NR						
Macroinvertebrate	TOTAL: 0	Diversity: 0					
Totals							
Sediment Core	Time	Oxid Top	Grain Size	Other Features			
	NR						
Boats	Time	Name/Color	North/South	Loaded/Light			
Commercial	10:15 AM	Barge	North	Loaded			
Commercial	12:15 AM	Barge	North	Loaded			
Commercial	1:45 PM	Barge	North	Loaded			
Commercial	2:45 PM	Coast guard	North				
Recreational	6-6:30 AM	West point crew	North and South				
Recreational	9:30 AM	Motorboat	North and South				
Recreational	12:24 PM	Motorboat	North and South				
Recreational	4:45 PM	West Point Crew	North and South				
Observations	Bricks, glass, coal, water chestnut seeds. Heard an owl. Saw gulls, merganser, crow,						
	turkey vulture	turkey vulture.					