Day in the Life of the Hudson River 10/14/21 Peebles Island State Park RIVER MILE: 154

Salt Front: ~ 49

D. Lee Magadini & Berkshire Waldorf High School



12 students (9th-12th grade) & 2 adults Latitude 42.78 N & Longitude – 73.68 W







Location: Peebles Island State Park

Area: A large grassy riverside park with many trees surrounding an open pavilion with picnic tables inside and an overlook that has 180° view of the Hudson River.

Surrounding Land Use: 55% Urban/Residential; 20% Forested; 5% Industrial/Commercial; 10% Beach; 10% Roadways and Bridges.

Sampling Site: Forested, grassy, covered in vegetation, parking lot. A beach with altered banks that have stairs to the water.

Shoreline: 10% Sandy, 80% Muddy, 10% Rocky
Water: Calm, estimated depth of 25 cm.
Plants in area: 25% Eurasian water milfoil; 5% Willow
River Bottom: Muddy, rocky and weedy
*NR = Not read/recorded

ITEM	Time	Reading		Comments					
		Ph							
Air Temperature	11:37 AM	21.128 ° C 22.24 ° C 22.24 ° C		70 ° F					
	12:31 PM			72 ° F					
	1:34 PM			72 ° F					
Wind Speed:		Anemometer 2 mph		Beaufort	Direction				
	11:25 AM			1	SW				
Weather today	9:55 AM	51-75% cloud cover		No rain					
Weather the past 3	Unseasonally warm and clear								
days:		D: . E !!							
Tides-	Time	Rising, Falling, Unchanged		Height (cm)					
Above the head of tide	11:35 AM- 12:00 PM	Unchanged		25.5 cm					
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack				
Rate of Flow	11:44 AM	6.9	0.134	South	NA				
-	11:53 AM	0	0	NA	NA				
	12:22 PM	4.5	0.0914	NR	NA				
	12:30 PM	6.7	0.13	NR	NA				
Water Temperature-	11:35 AM	19.4° C		66.92° F					
	1:38 PM	20.02 ° C		68° F					
Turbidity- Long Sight	11:14 AM	60.4 cm 52.8 cm							
Tube	11:53 AM								
	2:11 PM	66.32 cm							
	1		emical						
Salinity- Low Range	11:12 AM	37 ppm Cl-		67 ppm TS	Any salinity would				
Quantabs	12:35 PM	28 ppm		*Below Detection	have been				
	2:07 PM	37 ppm		67 ppm TS	background from geology or road salt				
Standardized Salinity-	9:50 AM	BD			geology of foad sait				
Low Range Quantabs	7.50 7 111 1	В							
DO – Hach Drop	Time	Тетр		ppm DO	% Saturation				
Count Kit		T							
	11:35 AM	19.4° C		10	103%				
	1:38 PM	20.02 ° C		12	130%				
pH – Color Match Kit	11:26 AM	7.5							
	12:35 PM	8.0							
	1:53 PM	7.5							
Nitrates- NR									
Phosphates- NR		n:	logical						
E: 1	A7 7		logical	I made : Cl	Toursell C 21				
Fish -	Number	Name		Length of longest	Length of smallest				
Seine – 5 pulls	17	Spottail Shiner		6 cm	NR				
	66	Banded Killifish Brook Silverside Smallmouth Bass		10.5 cm	4 cm				
				6 cm 7 cm	NA NA				
	4	Tessellated l		5 cm	NR				
Fish Totals	TOTAL:	Diversity: 5		2 0111	1117				
	1011111.	Diversity. 3							

		89									
Macroinvertebrates		Number		Name		Length of longest	Length of smallest				
Macroinvertebrate TO		TOTA	TOTAL: 0		ty: 0						
Sediment Core - NR											
Length	H2S smell		Oxid Top		Oil	Grain Size	Other Features				
Boats											
	Ti	Time		ame	Color	North/Southbound	Light/Loaded				
Commercial- None											
Residential	dential 10:41 AM		Unnamed Seaplane		White	Southbound	Light				
	10:55 AM		NR	Gray & Black	Southbound	Light					
	12:31 PM small		rcraft- fishing oat	Brown	Southbound	Light					
	2:11 PM Sta.		rcraft	Gray & Black	Northbound	Light					