Day in the Life of the Hudson River 10/22/19 HENRY HUDSON PARK, BETHLEHEM RIVER MILE: 138

Salt Front: ~ *RM 53*

The Albany Academies- Sarah Loya and Bob Neudel
31 students 5th grade, 5 adults
College of St. Rose- Mary Cosgrove



Location: Henry Hudson Park Waterfront, Bethlehem, Albany County, New York

Area: Park/boat launch, used for picnics, just north of Vloman Kill **Surrounding Land Use:** 100% parkland with 75% vegetated coverage **Sampling Site:** Grassy, parking lot, banks altered, riprap, bulkhead rocky

Plants in area: Water chestnuts

ITEM	Time	Reading		Comments	
Physical				-	
Air Temperature	9:36 AM	14 ° C			
•	10:23 AM	12 °C	53.6 ° F		
	10:45 AM	12 °C	53.6 ° F		
	11:20 AM	14 °C, 13 °C	57.2 ° F, 55.4 ° F		
	11:43 AM	16 °C			
	11:55 AM	16 °C			
Wind Speed:	9:36 AM	0 mph	Beaufort 0	North	
Anemometer	10:23 AM	1.8 mph, 6.1 mph	Beaufort 1-2	North	
	10:45 AM	4.8 mph, 2.4 mph	Beaufort 1-2	North	
	11:20 AM	4.7 mph, 1.9 mph	Beaufort 1-2	North	
	11:43 AM	6.7 mph, 10.8 mph	Beaufort 2	North	
	11:55 AM	3.2 mph, 5.1 mph	Beaufort 1-2	North	
Weather today	NA				
Weather the past 3	NA				
days:					
Tides-	Time	Rising, Falling,	Height (cm)	Rate of Tidal	
		Unchanged		Change (cm/min)	
	9:36 AM	Rising	+3.5 cm	NA	
	10:23 AM	Rising	+1.5 cm	0.032	
	10:45 AM	Rising	+1 cm	0.045	
	11:20 AM	Rising	+ 0.5 cm	0.014	
	11:43 AM	Rising	+1 cm	0.043	
	11:55 AM	Rising	+ 4 cm	0.333	
Current-	cm/second	Knots	North/South	Ebb/Flood/Still	

	1	T .	T	T
	9:36 AM	0.33 cm/s	South	Ebb
	10:23 AM	1 cm/s, 1.33 cm/s	South	Ebb
	10:45 AM	1.83 cm/s, 2.33 cm/s	South	Ebb
	11:20 AM	2.67 cm/s, 3 cm/s	South	Ebb
	11:43 AM	3.7 cm/s	South	Ebb
	11:55 AM	3.3 cm/s, 2.3 cm/s	South	Ebb
Water Temperature	9:36 AM	12 ° C		
•	10:23 AM	11 ° C	51.8 ° F	
	10:45 AM	11.5 ° C	52.7 ° F	
	11:20 AM	12 ° C	53.6 ° F	
	11:43 AM	12 ° C	33.0 1	
	11:55 AM	11 ° C, 12 ° C		
Turbidity - long sight	9:35 AM	31.2 cm		
tube	10:10 AM	31.2 cm		
iuoe				
	10:46 AM	42 cm, 32 cm - average 37 cm 32 cm, 32 cm - average 32 cm 25 cm, 31 cm - average 28 cm		
	11:08 AM			
	11:31 AM			
	12:00 PM	32 cm		
Chemical	1	T	T	T
Salinity- quantabs LR	Time	Chloride ppm Cl	Total Sal. Ppm	
	9:35 AM	32 ppm	58 ppm	
	10:10 AM	27 ppm	49 ppm	
	10:40 AM	17 ppm	31 ppm	
	11:10 AM	22 ppm	40 ppm	
	11:40 AM	22 ppm	40 ppm	
	12:00 PM	22 ppm	40 ppm	
DO-	Time	Тетр	ppm DO	% saturation
	9:35 AM	12 ° C	9 ppm *air bubble	, o sammanon
	10:10 AM	11 ° C	9 ppm	
	10:40 AM	11.5 ° C	7 ppm	
	11:10 AM	11.5 °C	9 ppm	
	11:34 AM	12 ° C		
			10ppm *air bubble	
**	12:02 PM	11 ° C, 12 ° C	12 ppm *air bubble	
pH –	9:35 AM	7		
	10:10 AM	7		
	10:40 AM	7		
	11:10 AM	7		
	11:40 AM	7		
	12:00 PM	7.4		
Chlorophyll	9:35 AM	1 ppm		
	10:10 AM	1.5 ppm		
	10:40 AM	0.7 ppm		
	11:10 AM	1.5 ppm		
	11:40 AM	1.5 ppm		
	12:00 PM	0.7 ppm		
Fish	Number	Name	Length of longest	
				0.20 10.20 434
Seine	10	Goldfish	*all in a cove	9:30-10:30 AM
Fish Totals	TOTAL: 10	Diversity: 1		
Macroinvertebrates	Number	Name	Length of longest	
	rumber	1 vume	Lengin of tongest	
NA				
Macroinvertebrate	TOAL:	Diversity:		
Totals	C 1	G 11	T	G
Sediment Core	Color	Smell like	Texture Moist alay like	Composition Mostly mud. same
	Dark brown,	Smells like	Moist, clay-like,	Mostly mud, some

	olive green,	dirt/mud/grass/woody-	mostly smooth	grass, roots, 4 tiny
	some black	smell	(feels like play-	worms, small rock
			doh), squishy, a	
			little grainy,	
			slightly prickly,	
			sandy	
Boats	Time	Name/Color	North/South	Loaded/Unloaded
	10:10 AM	Two Boats passed	NA	
	10:31 AM	Boat passed	NA	
Recreational	10:50 AM	Sailboat passed	NA	
Recreational	11:52 AM	Small boat passed	NA	
Recreational	12:13 PM	Small boat passed	NA	
Commercial	12:25 PM	Shipping Boat passed	NA	
Recreational	12:27 PM	Small Boat passed	NA	
Observations	Water chestnuts			