## Day in the Life of the Hudson River 10/11/17 Data (Salt front ~ RM 65) RIVER MILE 58.1

## Plum Point/Kowawese, New Windsor, Orange County, NY Janet DeStefano & Krista Espinoza, Vails Gate School Jack Caldwell and Black Rock Forest 34, 5th grade students, 9 adults GPS Latitude 41.471 N Longitude -74.016 W

Location: Northern Sandy beach at Plum Point, New Windsor, Orange County, Public

Shore, Picnic Area

**Area:** Sandy beach bordered by forested area and parking lot. Used for picnic, fishing,

kayaking

Surrounding Land Use: Forested 25%, Beach 75%,

**Sampling Shoreline:** 75% sandy, 25% rocky

Sampling Site: sandy beach (cove), rip rap in area of sampling site, debris in the area

such as broken concrete, docking **Plants in area:** 10% water chestnut **Shoreline**: beach and then grass behind **River Bottom** – sandy, rocky, muddy

ITEM	Time	Reading 1	Reading 2	Comments		
Physical						
Air Temperature	9:40 AM	15.2°C	59.3°F			
	10:45 AM	16.6	61.9			
	11:18 AM	18.4	65.1			
Wind Speed	10:41 AM	Wind meter	SW			
1		14.7 mph				
Cloud Cover	11:00	Partly cloudy	26-50%	•		
Weather today	No rain but very overcast by afternoon					
Weather recently	Gentle rain night before sampling, sunny before that in 70s					
Water Surface	choppy					
Water	9:40 AM	19°C	66°F			
Temperature	11:03AM	19.5 °C	67			
z emp er attar	11:24 AM	20	68			
Water Surface	Choppy					
Turbidity	10:20 AM	32.2 cm	Average –	Water was		
Long sight tube		25.4	27.6 cm	turbid most		
0 0		25.2		likely from		
				the		
				choppiness of		
				the water		
Chemical						
DO	9:51 AM	14.5°C	12 ppm	115% Sat		
(drop kit)	10:53 AM	15.5	12 ppm	118		
· • /	11:26 AM	15.5	12 ppm	118		
pH – indicator	9:34 AM	7.5, 7, 7		Average 7.2		

	10:41AM	8,7,7			
	11:10 AM	7.7,7			
Salinity –	HR 4.4	HR 821 ppm Cl-	HR 1483		
Quantab	LR 8.0	LR Off the chart	Total Salinity		
Fish Catch	Species	Count	Size of	Totals	
48" X20 ft. with			largest		
1/4 inch mesh			8		
Fish	American	8	8 cm	Seine 1	
12:30 PM	Shad			DIV 2	
	Atlantic	1	2.5 cm	TOTAL 9	
	Silverside				
	Striped Bass	1	8 cm	Seine 2	
				DIV 2	
	American	12	8 cm	TOTAL 13	
	Shad				
DIVERSITY	3	TOTAL	22		
		CATCH			
Macros	Blue Crab	1			
	Clam	1			
	Zebra	~75			
	Mussels				
DIV	3	TOTALS	78		
Tides	Time	Height in cm	Rate of	Rising/falling	
		<b>g</b>	change	g	
	NR				
Currents	9:36 AM	90 cm/30 sec	3.0 cm/sec	0.058 kts	
	10:53 AM	110 cm/30 sec	3.7 cm/sec	0.071kts	
	11:18 AM	100 cm/30 sec	3.3 cm/sec	0.64 kts	
Core	Time	Description	Common	Rare	
	NR				
Shipping –	9:30 AM	Cargo ship	Northbound	loaded	
commercial	10:57 AM	Barge	Southbound		
Shipping –	10:57 AM	3sailboats	Southbound		
Recreational	11:00 AM	small fishing	Northbound		
		boat			
	11:00 AM	jet ski	Both		
Observations	Water chestnuts are on the beach, a dead ground hog was found on				
	the beach in the AM. Some debris also – cigarettes, paper etc.				
	Some crows flew by				