Day in the Life of the Hudson River 10/22/19 LOUIS ENGEL PARK, OSSINING RIVER MILE: 32.5 Salt Front: ~ RM 53 Ossining High School- Artie Carlucci and Bridget Bauman 17 students 11-12th grade, 2 adults Latitude 41.15483 N & Longitude – 73.86959 W

Location: Louis Engel Park, Ossining, Westchester County, NY

Area: Beachfront area with a ferry pier, paved sidewalk, riprap, grass by metro north station **Surrounding Land Use:** 40% beach; 20% Residential/Urban; 40% Industrial/Commercial **Sampling Site:** bulkhead lines the shoreline with pier, beach area, shoreline riprap, debris in area such as broken concrete/docking, piping entering the river north of sampling site, brick pieces, used for picnics and boating.

Shoreline: 50% rock, 50% sandy River Bottom: sandy, rocky Plants in water: none Water: Calm, 2-3 ft

ITEM	Time	Reading		Comments	
	•	Physical			
Air Temperature	9:42 AM	51 ° F	10.6 ° C		
-	10:42 AM	55 ° F	12.8 ° C		
Wind Speed:		Beaufort 1	2 knot, 1 mph	Northeast	
Weather today	Overcast (100%); started drizzling at 11:45 am				
Weather the past 3	Sunday- hear				
days:					
Tides-	Time	Rising, Falling, Unchang	ed Height (in)	Rate of Tidal Change (cm/min)	
	9:30 AM	Falling			
	10:30 AM	Falling			
	11:30 AM	Falling			
	12:30 PM	Falling			
Current-	Time	cm/second	North/South	Ebb/Flood/Still	
	NR				
Water Temperature	9:45 AM	63 ° F	17 ° C		
	11:12 AM	60.8 ° F	16 ° C		
Turbidity- long sight	11:30	24 cm			
tube					
		Chemical			
Salinity- Hydrometer	Time	Total Sal. ppm			
	10:30 AM	4,000 ppm,		Avg: 5,000 ppm	
		5,000 ppm,			
		6,000 ppm			
<i>DO</i> –	Time	Тетр	ppm DO	% saturation	
	10:00 AM	17 ° C	4 ppm	41%	
		16 ° C	3 ppm	30%	
<i>pH</i> – indicator solution	10:20 AM	6.5, 7, 7,		Avg: 6.9	
Chlorophyll	11:13 AM	Sample color most closely matches to: white		*Read as low to no	
Nitrates-*estuary wide	<i>s</i> -* <i>estuary wide</i> 10:15 AM 5 ppm, 0 ppm, 5 ppm Avg: 3.3 ppm		chlorophyll *estuary wide kit is		
kit	10.13 AM	5 ppm, 0 ppm, 5 ppm	Avg: 3.3 ppm	low resolution	
Phosphates- *estuary	10:32 AM	2 ppm, 2 ppm, 0 ppm	Avg: 1.3 ppm	*estuary wide kit is	
wide kit	10.32 AIVI	\sim ppm, \sim ppm, o ppm	rig. 1.5 hhm	low resolution	
muc nu		Biological			

Fish	Number	Name	Length of longest		
Seine: 30 feet long	8	Atlantic Silversides			
Fish Totals	TOTAL: 8	Diversity: 1			
Macroinvertebrates	Number	Name	Length of longest		
	3	Scuds			
	4	Blue Crab			
	1	Lady Crab			
Macroinvertebrate Totals	TOTAL: 8	Diversity: 3			
Sediment Core	Time	Oxidized Top	Grain Size	Other Features	
	NA				
Boats	Time	Name/Color	North/South	Loaded/Light	
Commercial			North	Loaded	
Commercial			North	Loaded	
Commercial	9:35 AM		North	Loaded	
Observations	Gulls and Canadian geese				