

Day in the Life of the Hudson River 10/16/18 Data
FORT WADSWORTH, STATEN ISLAND
RIVER MILE: -7
Salt Front: ~RM 24
St. Clare School- Mary Lee
70 students 7th grade, 16 adults
NY Park Rangers- Kathy Garofalo
Latitude 40.599142 N & Longitude – 74.054402 W

Location: Seabee Fishing Beach, Fort Wadsworth, just south of Verrazano Bridge, Staten Island, NY

Area: Beach with riprap; concrete broken in areas, pier nearby, behind beach covered with vegetation

Surrounding Land Use: National Park Site

Sampling Site: Beach area with bulkhead

Shoreline: 75% Beach; 15% Forested, 10% Industrial/Commercial; Fort on site

Plants in area: No plants in water area

Water: 2-4 feet deep, calm

River Bottom: Sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	10:00 AM	14 ° C	57.2° F	
	12:00 PM	20 ° C	68° F	
<i>Wind Speed:</i>		4 mph	Beaufort 1-2	Varied
<i>Weather Today:</i>	No rain, partly cloudy			
<i>Weather Previous:</i>	Rain and windy the day before; below avg. temperature			
Water Temperature	10:20 – 12:00	20 ° C	68 ° F	
<i>Turbidity - Long sight tube</i>		36.88 cm		
Chemical				
<i>Salinity- hydrometer</i>	12:02 PM	18 ppt		
<i>DO – ampules</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
<i>Chemets</i>	12:02 PM	20 ° C	9	95
<i>pH - indicator solution</i>	12:02 PM	8.2		
<i>Nitrates- drop count kit</i>	12:02 PM	0		
<i>Nitrites</i>	12:02 PM	0.25 ppm		
<i>Ammonia</i>	12:02 PM	0.25 ppm		
Fish – seine 5 seine pulls	Number	Name	Length of longest	
	58	Atlantic Silverside		
	1	Northern Pipefish		
	TOTAL: 59	Diversity: 2		
Macroinvertebrates- Seine	Number	Name	Length of longest	
	3	Green Crabs		
	9	Hermit Crabs		
	1	Mole Crabs		
	3	Grass Shrimp		
TOTAL: 16	Diversity: 4			
Tides-	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
	10:38 AM	Rising	10 cm	-

	11:04 AM	Rising	25 cm	2.5	
	11:14 AM	Rising	300 cm	27	
	11:28 AM	Rising	380 cm	5.7	
	11:55 AM	Rising	500 cm	4.4	
Current- *measured in a cove	cm/second	Rising, Falling, Unchanged	Height (cm)	Rate of Change (cm/min)	
Currents Flow	Cm/second	Knots	North/South	Ebb/Flood/Still	
10:38 AM	.08	.002	North	Flood	Other
10:55 AM	4.8	.09	North	Flood	
11:14 AM	4.5	.09	North	Flood	
11:28 AM	12.7	.25	North	Flood	
11:55 AM	6.1	.12	North	Flood	
	2-3 feet	23-24 cms	No	Abundant: sand Common: Gravel Rare: Mud	
Boats	Time	Name	Color	North or South	Loaded or Light
	10:20 AM	Ferry		North	Loaded
	10:22 AM	Tugboat		North	Light
	10:22 AM	Yacht		South	Light
	10:40 AM	Barge		North	Loaded
	10:44 AM	Canoe		South	Light
	10:50 AM	Pilot Boat		South	Light
	10:53 AM	Speedboat		South	Light
	10:55 AM	Canoe		South	Light
	11:20 AM	Sailboat	White	South	Light
	11:22 AM	Cruise ship	Black	North	Loaded
	11:25 AM	Coast guard	White	North	Light
	11:42 AM	Ferry	White/Blue	South	Loaded
	11:43 AM	Ferry	White/Blue	North	Loaded
	11:44 AM	Coast guard	Red	South	Light
	11:45 AM	Sailboat	White	South	Light
	11:47 AM	Sailboat	White	South	Light
	11:48 AM	Coast guard	Black/White/orange	South	Loaded
	11:50 AM	Ferry	Gray	South	Loaded
	11:52 AM	Barge	Black	North	
Other Observations	NR				