

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 12:00 PM	14 ° C 20 ° C	57.2 ° F 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 Chemets</i>	<i>Time</i> 12:02 PM	<i>Temp</i> 20 ° C	<i>ppm DO</i> 9	<i>% saturation</i> 95
<i>pH - indicator solution</i>	12:02 PM	8.2		
<i>Nitrates- drop count</i>	12:02 PM	0		

<i>kit</i>					
<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	
Currents Flow	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	10:38 AM	.08	.002	North	Flood
	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
Sediment Core	Water depth	Length	Oxid Top	Grain Size	Other
	2-3 feet	9-10 in	No	Abundant: sand Common: Gravel Rare: Mud	
Boats	Time	Name	Color	North/South	Loaded/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				