

Day in the Life of the Hudson River 10/22/19

LITTLE BAY, FORT TOTTEN

RIVER MILE (East River) 15.2

Salt Front: ~ RM 53

John Bowne High School- Michelle Theodorou

30 students 11-12th grade, 2 adult

Assisted by 2 New York City Urban Park Rangers

Latitude 40.793339 N & Longitude – 73.78072 W



Location: Little Bay, Fort Totten, Queens, NY

Area: Jetty, grassy, parking lot nearby.

Surrounding Land Use: 75% Beach; 20% Paved lot; 5% Forested

Sampling Site: Beach, banks altered, covered in vegetation, riprap

Shoreline: 75% Sandy; 15% Muddy; 10% Rocky

River Bottom: muddy, rocky, weedy

Water: calm, 3ft depth

Plants in water area: 85% kelp, 15% seaweed

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:32 AM 11:03 AM	57 ° F		14.3 ° C
<i>Wind Speed:</i>		Beaufort 1-2		
<i>Weather today</i>	10:30 AM Drizzle until 11:30			
<i>Weather the past 3 days:</i>	Rained this past Sunday			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
	NR			
<i>Current-</i>	<i>Time</i>	<i>Speed</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	NR			
<i>Water Temperature</i>	10:30 AM	46 ° F at 0.5 ft		
<i>Turbidity- long sight tube</i>	NR			
<i>Chemical</i>				
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:30 AM	7.8 ° C	13 ppm *very high	115%
<i>pH –</i>	11:03 AM 11:08 AM	7.6 6 *This reading is low		
<i>Alkalinity- API Kit</i>	11:10 AM	0 *This reading is low		*API Kit is designed for aquaria not field systems
<i>Ammonia- API Kit</i>		0.5 ppm		

<i>Biological</i>				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	>100	Atlantic Silverside	7.5 cm	
	3	Mummichogs	10 cm	
Fish Totals	TOTAL: 103	Diversity: 2		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1	Moon snail		
	10	Blue crabs		
	>200	Shore Shrimp		
Macroinvertebrate Totals	TOTAL: 211	Diversity: 3		
Other Observations	Numerous horseshoe crab shells collected on the beachfront as noted in the photo.			