

Day in the Life of the Hudson River 10/13/22
Pier 4 Gantry State Park, (Hunters Point), Long Island City (East River)
EAST RIVER MILE: 5.6

Salt Front: ~ 76

Hunter's Point Community Middle School–Anjelle Martinez

NYC DEP- Robin Sanchez

26 students & 7 adults

Latitude 40.740041°N & Longitude – 73.961512°W

Location: East River, Long Island City Pier (Pier 4), Gantry Plaza State Park, Long Island City, Queens, NY

Area: Most southern pier, fishing pier,

Sampling Site: Industrial, Shoreline is rocky with some plants and has piers and piping entering river

Surrounding Land Uses: 80% Urban; 15% Grassy; 5% Rocky shoreline

Shoreline: Riprap/rocky

River Bottom: Muddy, Rocky

Water: Choppy

Plants in the Water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
Physical					
<i>Air Temperature-</i>	11:15 AM	19°C	67°F		
<i>Wind Speed:</i>	11:15 AM	<i>Anemometer</i> NR	<i>Beaufort</i> 2 (4-7 mph)	<i>Direction</i> S	
<i>Weather today</i>	11:15 AM	51-75% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	Mostly sunny and warm				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	10:00 AM- 11:10 AM	Falling		163 cm 139.07 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	10:21 AM 11:00 AM 11:15 AM	48 12.6 25.19	0.96 0.5	NR NR	Flood Flood
<i>Water Temperature-</i>	11:12 AM	17°C 15°C	60°F 60°F		
<i>Turbidity- Secchi Disk (cm)</i>	10:35 11:17 AM	62, 82 cm 101 cm	Average 72 cm		
Chemical					
<i>Salinity-Hydrometer</i>	10:15 AM 10:53 AM	26.2 ppt 22 ppt			
<i>Standardized Salinity – Refractometer</i>	10:35 AM	25 ppt			
<i>DO – Chemets Kit</i>	<i>Time</i> 10:36 AM 11:12 AM	<i>Temp</i> 15°C 15°C	<i>ppm DO</i> 6 ppm 5 ppm	<i>% saturation</i> 55% 50%	
<i>pH – *Litmus Paper</i>	10:57 AM	*7			*litmus paper is not reliable in this environment
<i>Nitrates- NR</i>					
<i>Phosphates-</i>	11 AM	0.3 ppm			
<i>Alkalinity- NR</i>					
Biological- Oyster Cage					

<i>Fish –</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
11:00 AM					
Fish Totals	TOTAL: 0	Diversity: 0			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	3	Mud Crab			
	1	Palaemonetes Shrimp			
	4	Sea Squirt/grapes			
	2	Eastern Oyster			
	2	Isopods			
	1	scud			
	1	Lady crab	(Red spots)		
Macroinvertebrate Totals	TOTAL: 14	Diversity: 7		*also noted red seaweed & light green seaweed	
<i>Sediment Core –NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					