

Day in the Life of the Hudson River 10/20/16

(Saltfront ~ RM 83)

EAST RIVER MILE 5.6

East River, Hunter's Point, Long Island City, NY

Mary Mathai, Hunters Point Community MS 7th graders

Uzma Shah, Baruch College Campus High School 12th grade,

75 students, 5 adults

Kim Estes-Fradis, New York City Department of Environmental Protection

Location: East River, Gantry Plaza State Park, Long Island City, Queens

Surrounding Land Use: Urban 80%; Grassy 15%; Rocky Shoreline 5%

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

Plants in area: A few trees and tall grasses.

Sample Time: 10 AM

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|--|--|--|--|-----------------|
| <i>Physical</i> | | | | |
| Air Temperature | 10:22 AM 10:45 AM 11:08 AM 11:27 AM 11:50 AM | 25°C 25°C 25°C 25°C 22°C | 77°F 77°F 77°F 77°F 72°F | |
| Wind Speed & Cloud Cover | 10:22 AM 10:45 AM 11:08 AM 11:27 AM 11:50 AM | Beaufort 1 Beaufort 1 Beaufort 2 Beaufort 4 Beaufort 5 | Partly cloudy Partly cloudy Mostly cloudy Mostly cloudy Mostly cloudy/overcast | |
| Weather last 3 days | Warm and Dry | | | |
| <i>Water Temperature</i> | 10:09 AM 10:30 AM 11:00 AM 11:28 AM 11:47 AM | 15°C 13°C 12°C 14°C 13°C | | |
| <i>Turbidity Sight Tube Reading</i> | 10:24 AM 10:51 AM 11:12 AM 11:32 AM 11:47 AM | 61 cm 60 cm 54 cm 52 cm 49 cm | Somewhat Turbid | |
| <i>Chlorophyll</i> | 10:24 AM 10:51 AM 11:12 AM | 0.1 0.1 0.1 | | |

| | | | | |
|--|---|---|---|--------------------------------------|
| | 11:32 AM 11:47 AM | 0.1 0.1 | | |
| <i>Chemical</i> | | | | |
| DO (CHEMetrics ampules) | 10:26 AM 10:48 AM 11:08AM 11:30 AM 11:50 AM | 20°C 20°C 18°C 20°C 20°C | 6 ppm 6 ppm 6 ppm 7 ppm 7 ppm | 80 % 85 % 65 % 75 % 65 % |
| pH (test strips) | 10:23 AM 10:48 AM 11:09 AM 11:28 AM 11:55 AM | 6 5 5 6 5 | | |
| Salinity (Hydrometer) | 10:23 AM 10:48 AM 11:09 AM 11:28 AM 11:55 AM | 33 ppt NR 35.5 ppt 29.5 ppt 35.5 ppt | | |
| <i>Tides –</i> | NR | | | |
| <i>Currents</i> | 10:22 AM 10:45 AM 11:08 AM 11:27 AM 11:50 AM | 183 cm /sec 46 cm/sec 27 cm/sec 15 cm/sec 19 cm/sec | | |
| <i>Organisms found in Oyster Cage</i> | Mud crab Amphipods Shrimp Algae Tubix worms Oyster Toadfish Sea Sponges | | | |