

Day in the Life of the Hudson River 10/13/22

Dobbs Ferry Waterfront, Dobbs Ferry, NY

RIVER MILE: 23

Salt Front: ~ RM 76

EF Academy & Bio Boat (11th and 12th grade)– Stephen Fleming

140 students & 7 adults

Latitude 41.01516 N & Longitude – 73.87999 W



Location: Dobbs Ferry Waterfront, Dobbs Ferry, NY

Area: Beach Front, docks, rock shoreline

Surrounding Land Use: Beach

Sampling Site: Beach, RipRap

Shoreline: 50% Sandy and 50% Rocky

Water: Calm

Plants in area: No plants in the water

River Bottom: Muddy and Sandy

*NR = Not read/recorded

| <i>ITEM</i> | <i>Time</i> | <i>Reading</i> | | <i>Comments</i> | |
|--|-----------------------------|-----------------------------------|-----------------------|--------------------------|------------------------|
| Physical | | | | | |
| <i>Air Temperature</i> | 10:51 AM | 21.5° C | 70.7°F | | |
| | 11:08 AM | 21.5° C | 70.7°F | | |
| | 11:27 AM | 22.5° C | 72.5°F | | |
| <i>Wind Speed:</i> | 11:00 AM | <i>Anemometer</i> 2 m/s | <i>Beaufort</i> NR | <i>Direction</i> S | |
| <i>Weather today</i> | 11:00 AM | > 75% cloud cover | Drizzle | | |
| <i>Weather the past 3 days:</i> | Warm and sunny, cool nights | | | | |
| <i>Tides-</i> | <i>Time</i> | <i>Rising, Falling, Unchanged</i> | | <i>Water Height (cm)</i> | |
| | 11:00 AM | Rising | | 50 cm | |
| | 11:20 AM | Rising | | 58 cm | |
| | 11:30 AM | Rising | | 64 cm | |
| <i>Current-</i> | <i>Time</i> | <i>Cm/sec</i> | <i>Knots</i> | <i>North/South</i> | <i>Ebb/Flood/Still</i> |
| | 11:00 AM | 33.5 | NR | NR | Ebb |
| | 11:10 AM | 35.3 | | | |
| | 11:20 AM | 30.6 | | | |
| <i>Water Temperature-</i> | 11:00 AM | 18.5°C | 65.3°F | | |
| | 1:52 PM | 17.5 °C | 63.5 °F | | |
| | 2:37 PM | 17.8 °C | 64.04°F | | |
| <i>Turbidity- Long Sight Tube (120 cm)</i> | 11:00 AM | 37 cm 40.5 cm 35.5 cm | Average 37.7 cm | | |
| Chemical | | | | | |
| <i>Salinity- Refractometer</i> | 11:00 AM | 10 ppt | | | |
| <i>Standardized Salinity</i> | NR | | | | |
| <i>DO – Lamotte</i> | <i>Time</i> | <i>Temp</i> | <i>ppm DO</i> | <i>% saturation</i> | |

| | | | | | |
|---------------------------------|--------------------------------|--|--------------------------|----------------------------|-----------------------|
| | 11:05 AM | 18.5°C | 12 ppm | 130% | |
| <i>pH – Color Match Kit</i> | 11:08 AM 2:04 PM 2:27 PM | 6.5 7.0 /7.4 6.5/5.5 | | Average 7.2 Average 6.0 | |
| <i>Nitrates-</i> | 10:18 AM | 2.5 mg/L | | | |
| <i>Phosphates- NR</i> | | | | | |
| <i>Alkalinity- NR</i> | | | | | |
| Biological | | | | | |
| <i>Fish – Seine</i> | <i>Number</i> | <i>Name</i> | <i>Length of longest</i> | <i>Length of smallest</i> | |
| <i>10:00 -11:00 AM</i> | 34 15 1 | Atlantic Silverside Striped Bass Hogchoker | 8.5 cm 13 cm 5 cm | 3 cm 4 cm | |
| Fish Totals | TOTAL: 50 | Diversity: 3 | | | |
| <i>Macroinvertebrates</i> | <i>Number</i> | <i>Name</i> | <i>Length of longest</i> | <i>Length of smallest</i> | |
| | 1 | Blue Crab (F) | 4 cm | | |
| Macroinvertebrate Totals | TOTAL:1 | Diversity: 1 | | | |
| Sediment Core - NA | | | | | |
| Length | H2S smell | Oxid Top | Oil | Grain Size | Other Features |
| | | | | | |
| Boats-NR | | | | | |
| | Time | Name | Color | North/Southbound | Light/Loaded |
| | | | | | |
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