

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)**

**RIVER MILE 31 – Nyack Beach Hook Mountain State Park
8th (~6) grade teachers –Nyack Middle School – 8th grade – 50 students
41°07.5”N 73°54.5”W**

Location: Nyack Beach, Upper Nyack, Rockland County NY

Area: Park/Boat launch, near Hook Mountain Sandy Beach by the large sitting stairs,

Surrounding Land Use: 70% forested, 5% urban/residential, 20% beach – used for recreation & picnics

Sampling Site: Beach – sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris –

Piping coming into river south of sampling site

Plants in area:

Water depth:

River Bottom –sandy

| <i>ITEM</i> | <i>Time</i> | <i>Reading 1</i> | <i>Reading 2</i> | <i>Comments</i> |
|---------------------------------|---|-------------------|----------------------|-----------------|
| <i>Physical</i> | | | | |
| Air Temperature | 10:20 AM | 70°F | | |
| Wind Speed | 13-18 km/hr | 7-10 knots | | N |
| Cloud Cover | Clear to Partly cloudy | | | |
| Weather today | No rain | | | |
| Weather last 3 days | Small amount of rain but clear and nice | | | |
| <i>Water Temperature</i> | | | 14 C | |
| | 11:03 am | Depth - 12 inches | 18 C 16 C | Average 16 C |
| | 11:05 am | Depth - 12 inches | 20 C 18 C | Average 19 C |
| | 11:07 am | Depth - 12 inches | 18 C 10 C 20 C | Average 16 C |
| <i>Turbidity</i> | | | | |
| 9:51 AM | 12.3 cm | 12.2 cm | | Avg 12.25 cm |
| 10:30 AM | 5.3 cm | 20.8 cm | | Avg 13.05 cm |
| 11:20 AM | 14 cm | 12.2 cm | | Avg 13.1 cm |
| <i>Chlorophyll</i> | 11:27 AM | | 5 | |
| | 10:59 AM | | 2 | |
| | 10:37 AM | | 2 | |

| | | | | |
|--|-----------------------------|-----------------------|---|---------------------|
| Chemical | | | | |
| DO | | | | |
| <i>Drop count</i> | 10:40 AM | 15C | 12 PPM | 120 % sat |
| | 11:35 AM | 17C | 10 PPM | 105 % sat |
| | 11:05 AM | 20C | 8 PPM | 96 % sat |
| pH | | | | |
| <i>Colormetric kit</i> | | | | |
| | | | | |
| Salinity <i>meter/</i> | | | | |
| <i>Fish Catch</i> | <i>Number Caught</i> | <i>Species</i> | <i>Macroinvert.</i> | |
| <i>Seine 12 ft. X 6ft. Mesh 0.25 inch</i> | | | Mud crabs | |
| | | | Striped Bass | |
| | | | Perch | |
| <i>Tides</i> | 9:00 AM | 46 cm | | |
| | 9:43 AM | 52 cm | rising | |
| | 9:46 AM | 60 cm | rising | |
| | 9:49 AM | 64 cm | rising | |
| | 9:52 AM | 71 cm | rising | |
| | 10:32 AM | 50 cm | <i>Reset Stick</i> | |
| | 10:35am | 66cm | rising | |
| | 10:38am | 67cm | rising | |
| | 10:41am | 74cm | rising | |
| | 10:44am | 77cm | rising | |
| | 11:23am | 50cm | <i>Reset Stick</i> | |
| | 11:25am | 58cm | rising | |
| | 11:28am | 63cm | rising | |
| | 11:31am | 65cm | rising | |
| | 11:34am | 69cm | rising | |
| <i>Currents</i> | <i>CM/60 secs</i> | <i>Cm/Sec</i> | <i>North/South Ebb/Flood/Still</i> | <i>Knots</i> |
| 11:31am | 802cm/60s | 13.4 cm/sec | F | 0.26Knots |
| 11:32am | 643cm/60s | 11.6 cm/sec | F | 0.23 Knots |
| | | | | |
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