Day in the Life of the Hudson River 10/12/17  
(Salt Front Hudson ~Hudson RM 65)  
East RM 5.7, Gantry Plaza at Newtown Creek  
Alex Pistell, Rebecca Raddock, PS 78Q - 5th–8th grade students, 180 students, 10 adults

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.  
Plants in area: A few trees and tall grasses.  
Water depth: unknown  
River Bottom: unknown

AM and PM sampling groups each with 4 rotations

<table>
<thead>
<tr>
<th></th>
<th>Time</th>
<th>Reading 1</th>
<th>Reading 2</th>
<th>Comments</th>
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<tbody>
<tr>
<td><strong>Physical</strong></td>
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<tr>
<td>Air Temperature</td>
<td>NR</td>
<td>°C</td>
<td>AVERAGE</td>
<td></td>
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<tr>
<td>Wind Speed &amp; Direction</td>
<td>Group 1AM</td>
<td>Beaufort 1</td>
<td>3.0 mph</td>
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<tr>
<td></td>
<td>Group 2AM</td>
<td>Beaufort 2</td>
<td>2.5 mph</td>
<td>N</td>
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<td></td>
<td>Group 3AM</td>
<td>Beaufort 2</td>
<td>3.2 mph</td>
<td>NE</td>
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<td></td>
<td>Group 4AM</td>
<td>Beaufort 2</td>
<td>2.9 mph</td>
<td>N</td>
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<tr>
<td>Cloud Cover % covered</td>
<td>Group 1AM</td>
<td>70%</td>
<td>Overcast</td>
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<td></td>
<td>Group 2AM</td>
<td>80%</td>
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<td></td>
<td>Group 3AM</td>
<td>75%</td>
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<td></td>
<td>Group 4AM</td>
<td>70%</td>
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<tr>
<td>Weather last 3 days</td>
<td>Above average warm and rained yesterday after a long dry spell</td>
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<tr>
<td><strong>Water Temperature</strong></td>
<td>Group 1AM</td>
<td>23°C</td>
<td>Avg. 23°C</td>
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<td>Group 2AM</td>
<td>22</td>
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<td>Group 3AM</td>
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<td>Group 4AM</td>
<td>23</td>
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<tr>
<td><strong>Turbidity</strong></td>
<td>Group 1AM</td>
<td>87 cm</td>
<td>Avg. 80 cm</td>
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<tr>
<td>Secchi Disk</td>
<td>Group 2AM</td>
<td>95</td>
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<td>Group 3AM</td>
<td>Group 4AM</td>
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<td><strong>Chemical</strong></td>
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<td>DO - chemettes</td>
<td>Group 1AM</td>
<td>6 ppm</td>
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<td>Group 2AM</td>
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<td>Group 3AM</td>
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<td>pH (test strips)</td>
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<td>AVERAGE 6</td>
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<td>Salinity (Hydrometer)</td>
<td>Group 1AM</td>
<td>28 ppt</td>
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<td>Group 2AM</td>
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<td>Group 3AM</td>
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<td>Group 4AM</td>
<td>34*</td>
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<td>*expect a</td>
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<td>bubble was</td>
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<td><strong>Currents</strong></td>
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<td>0.14 m/s</td>
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<td>0.16 m/s</td>
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<td>Group 4AM</td>
<td>0.28 m/s</td>
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