

**Day in the Life of the Hudson River 10/16/18 Data**  
**CONCRETE PLANT PARK, BRONX, RIVER MILE: 4.5 (Bronx River)**

*Salt Front: ~RM 24*

**Bronx Center for Science & Mathematics- Patrick Callahan**  
**28 students 11th-12th grade AP Environmental Science, 2 adults**  
**Bronx River Alliance- Katie Lamboy & Michelle Luibke**  
**Latitude 40.826677 N & Longitude – 73.884901 W**



**Location:** Concrete Plant Park, Bronx River, NY  
**Area:** Grassy  
**Surrounding Land Use:** 100% Urban/Residential  
**Shoreline:** 80% Muddy; 19% Rocky; 1% Sandy; Riprap  
**River Bottom:** Muddy, sandy  
**Water:** Choppy  
**Plants:** No plants in water area.  
**Sampling Time:** 9:00-2:00PM

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading</b></i>		<i><b>Comments</b></i>
<i><b>Physical</b></i>				
<i>Air Temperature:</i>	10:08 AM 10:09 AM 10:10 AM 11:00 AM 12:25 PM	15 ° C 13 ° C 10 ° C 8 ° C 15 ° C	59 ° F 55.4 ° F 50 ° F 46.4 ° F 59 ° F	<i>*doubt temp changes every min. &lt;- Seems low</i>
<i>Wind Speed:</i>	11:21 AM NR 1:30 PM	NR 13 mph 13 mph	Southwest Southwest Northwest	
<i>Weather Today:</i>	No rain, partly cloudy (26-50%), clear by the end of the day			
<i>Weather Previous:</i>	Rainfall, cold weather, low temperatures, high winds			

<b>Water Temperature</b>		10:00 AM- 10:30 AM 11:00 AM	15 ° C Avg: 12.8 ° C 15 ° C	59 ° F Avg: 55.04 ° F 59 ° F	
<b>Turbidity- long sight tube</b>		NR 9:50-9:59 10:01 AM 10:20 AM	Avg: 56.6 cm Avg: 51.6 cm Avg: 35.5 cm Avg: 18.8 cm		
<b>Chemical</b>					
<b>Salinity- hydrometer</b>		10:00 AM 10:30 AM 11:00 AM	6.8 ppt 6.8 ppt 6.8 ppt		
<b>DO – drop count kit</b>		<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
*Temp doesn't match other water temps above for the same time & DO also seem low but Katie noted dumping in the area which has impacted the water DO and pH		11:30 AM	*7 ° C (expect closer to 15 ° C)	5	40
		1:30 PM	21 ° C	6.5	65
<b>pH - color match kit</b>		10:10 AM 10:12 AM 10:14 AM 10:16 AM NR 11:00 AM	7, 7.5, 7 7, 7.5, 7.5 6.5, 6.5, 7 8.5, 8.5, 8 Avg: 5.67 Avg: 6.78	<- seem low	
<b>Colormetric</b>		NR			
<b>NR</b>					
<b>Fish – Seine</b>		<b>Number</b>	<b>Name</b>	<b>Length of longest</b>	
		1	Mummichog	3 in	
		2	Banded Killifish	2 in	
		<b>TOTAL: 3</b>	<b>Diversity: 2</b>		
<b>Boats</b>	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/ South</b>	<b>Loaded/ Light</b>
Recreational	12:50	Canoe	Yellow	Southbound	Light
Recreational	1:30	Canoe	Green	Southbound	Light
<b>Other Observations</b>		Clam shells, bits of rock, a pipe, bridge, trash: lighters/cans/bottles/plastic bags			