

Snapshot Day 10/20/15 Data
Bronx RM8.5
Concrete Plant Park, Bronx, NY
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Patrick Callahan, Bronx Center for Science & Math
22 students, 10-12th graders, 2 adults
40.825506 Lat & -73.884777 Lon

Location: Concrete plant, Bronx River

Area: Forested bank, grassy area with concrete bike path

Surrounding Land Use: 32% Urban/Residential, 2% forested, 60% Industrial/Commercial, 5% lawn/vegetation

Sampling Site: No plants in water, trash around

River Bottom: Muddy, Weedy, Rocky

Plants in area: Tree of Heaven (invasive), yHickory

<i>ITEM</i>	<i>Time –</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Reading 3</i>
<i>Physical</i>				
Air Temperature	9:49 AM 9:51 AM 9:53 AM 11:30 AM	16°C 16°C 15°C 15°C		
Wind Speed	9:58 AM 1:32 AM	#2 #2	Southerly	
Cloud Cover	9:58 AM	51-75% (60%)		
Weather today	No rain			
Weather last 3 days	Cool			
<i>Water Condition</i>	Calm			
<i>Water Temperature</i>	9:58 AM	12°C		
<i>Turbidity secchi</i>	10:46 AM	85.2 cm 86 cm 81.4 cm	Average 84.2 cm	
	11:20 AM	99.2 cm 65 cm 88.1 cm	84.1 cm	
<i>Chemical</i>				
DO (drop count kit)	10:34 AM 10:58 11:07 11:16	8 ppm 7.1 7.5 6.1	13°C	75% satur. 65% 70% 55%
pH	10:19 AM 10:21 AM	5 X 3 5 X 3		4

	10:23 AM 10:26 AM	5 X 3 5 X 3		
Salinity - hydrometer	Reading 1 ppt	Reading 2 ppt	Reading 3 ppt	Average – ppt
10:32 AM	9.7	11	7.1	9.3 ppt
10:35 AM	14.9	11.1	11.1	12.4 ppt
10:26AM	10.9	7.5	7.5	8.6 ppt
10:28 AM	11.1	7.6	12.4	10.4 ppt
NR time	11.1	8.8	10.1	10.0 ppt
<i>Fish Catch</i>	Total	Fish		3-4 seines
<i>Div – 4</i>	1	Mummichogs	Reported as 1 banded and 11 striped – not possible so used key descriptions to work back to this.	
<i>Total Catch - 23</i>	11	Banded Killi		
	10	Atlantic Silversides		
	1	Bay Anchovy		
<i>Macro - Div – 1</i>	9	Glass shrimp		
<i>Tides</i>	9:42 AM	Water height - 1.2 cm		
<i>Currents - Time</i>	<i>Cm/30 secs</i>	<i>Cm/sec</i>	<i>Kts</i>	<i>E/F/S</i>
11:38 AM	458	15.25	0.3	Ebb
11:47 AM	610	20.3	0.4	Ebb
11:51 AM	610	20.3	0.4	Ebb
<i>Ships</i>	10:25 AM	White rec. vessel	Southbound	6 people on it
<i>Other Observations</i>	Seagulls, Atlantic menhaden, cormorant, boatsman insects, dragon fly, mute swan, mussel shells			