

Snapshot Day 10/20/16 Data
Bronx RM 1.5
(Salt Front for Hudson ~ RM 80)
Concrete Plant Park, Bronx, NY
Kathalene Lamboy, Bronx River Alliance
Patrick Callahan, Bronx Center for Science & Math
15 students, 10-12th AP Environmental Science students, 2 adults
40.825506 Lat & -73.884777 Lon



Location: Concrete plant, Bronx River

Area: Pier, Forested bank, grassy area with concrete bike path, RipRap, Concrete Bulkhead, pipe entering the water

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, Rocky

Plants in area: No plants in water

<i>ITEM</i>	<i>Time –</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Reading 3</i>
<i>Physical</i>				
Air Temperature	10:00 AM 11:00 AM 11:40 AM	75°F 68°F 69°F	24°C 20°C 21°C	
Wind Speed	11:40 AM	7 mph	Southerly	
Cloud Cover	11:40 AM	>75% overcast		
Weather today	overcast			
Weather last 3 days	Warmer than usual			
<i>Water Condition</i>				

Water Temperature	10:45 AM 11:15 AM 11:28 AM	20°C 20 19	68°F 68°F 66°F	
Turbidity secchi	11:00 AM	105.3 cm 91.2 cm 75 cm	Average 90.5 cm	Water very clear
Water became more turbid when the tide became higher.				
Chemical				
DO (LaMotte drop count kit)	10:45 AM 11:15 AM 11:28 AM	4.2 ppm 4.1 5.3	20°C 20 19	28% satur. 29% 37%
pH - test strips, color match test kit	11:24 AM 11:28 AM	5, 5, 4 5, 4, 4		4.9 4.3
Salinity - hydrometer	Reading 1 ppt	Reading 2 ppt	Reading 3 ppt	Average – ppt
	10:45 AM	15 ppt		
	11:15 AM	15 ppt		
	11:28 AM	15 ppt		
Fish Catch	Total	Fish		3-4 seines
Div – 2	81	Silversides		
Total Catch - 83				
	2	Banded Killi		
	4	Shore Shrimp		
Macro - Div – 2	1	Mud Crab		
Total Catch - 5				
Tides				
Currents - Time	Cm/30 secs	Cm/sec	Kts	E/F/S
	10:51 AM		3.8	
Ships - commercial	10:30AM	Red/Brown Barge	Southbound	loaded
Ships Recreational	11:15 AM	Blue Canoes	Northbound	loaded
Other Observations	Seagulls, lots of trash, *dead fish in area.			

**Note that there had been a report of dead fish in the Bronx. DEC team had checked it out before the event and noted that they felt it was from low D.O. levels in the river.*