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

Groundwork Hudson Valley

Science Barge Educator Jeremy Teperman Alethea Lynch, Fox Meadow School, 25 third graders



Location: Hudson River @ the Science Barge, Yonkers waterfront south of Beczak

Area: Urban housing and waterfront redevelopment

Surrounding Land Use: In order of use: Industrial/Commerical (1); Urban/Residential

(2); Park/picnic (3)

Sampling Site: Docks/pier, bulkheaded concrete, banks changed by people

Plants in area: > 50% of total area has: grass, deciduous trees, coniferous trees,

deciduous trees, coniferous shrubs, cultivated flowers

Water depth: River Bottom

ITEM	Time	Reading 1	Reading 2	Comments
Physical				
Air Temperature *	10:45 AM	60°F-15.5°C	11:03 AM	60°F – 15.5°C
*edited the C #s in			11:25 AM	62°F - 17°C
posting since they				
did not match the				
F degrees.				
	11:58 AM	68°F - 20°C	11:58 AM	81°F − 27.2°C
	shade	68°F - 20°C	sun	73°F − 22.8°C
	12:30 PM	64°F-17.8°C	12:30 PM	77°F – 25°C
	shade	65°F-18.3°C	sun	71°F – 21.7°C
Wind Speed	10:45 AM	Beaufort 1	1-3 kts	South
	11:25 AM	Beaufort 2	4-6 kts	South
	11:58 AM	Beaufort 1	1-3 kts	South

	1:00 PM	Beaufort 1	1-3 kts	South			
Cloud Cover	Mostly –						
	partly						
	cloudy						
Weather today	No rain						
Weather recently	Wet fall but not too much rain in last 3 days						
Water	calm						
Water	10:10 AM	16.3°C					
Temperature							
-	10:58 AM	15.8°C					
	12:08 PM	17.4°C					
Turbidity	10:36 AM	49 cm		54.5 cm			
(secchi)		69		average			
· / _		54					
		55					
	11:20 AM	65 cm		67 cm average			
		70					
		68					
		65					
	12:21 PM	45 cm		43 cm average			
		35					
		45					
		47					
	12:44 PM	40 cm		55 cm average			
		50					
		52					
	11.42.43.6	50	1.21.73.6				
Chlorophyll	11:43 AM	0.5	1:31 PM	0.0			
Chemical	10.40.43.6		16000	(00/			
DO (drop count kit)	10:40 AM	6 ppm	16.3 °C	60% saturation			
	10:58 AM	7 ppm	15.8°C	70% saturation			
	12:00	8 ppm	17.4°C	80% saturation			
	Noon						
	12:35 PM	5 ppm	18°C	60% saturated			
pH – color match test kit	10:10 AM	8					
	11:10 AM	7.5	1				
	12:15 PM	8					
	12:45 PM	7					
Salinity -	10:36 AM	2 ppt	1	Average 2.33			
hydrometer		2 ppt		ppt			
, <u>, , , , , , , , , , , , , , , , , , </u>		3 ppt					

Hydrometer and	11:20 AM	2 ppt (R)		Average 1.66
refractometer	11.20 AW	0 ppt (H)		ppt ppt
Terractorneter		3 ppt (H)		ppt
hydrometer	12:15 PM	0 ppt		Average 1.66
ny dronieter	12.13 1111	2		ppt
		3		PP
Hydrometer	12:45 PM	3 ppt		Average 2.5
j		2 ppt		ppt
Nitrates	5:06 PM	2.5 ppm		0.83 ppm
		0 ppm		11
		0 ppm		
Tides	Start	End Time	Change	
	Time			
	10:15 AM	10:45 AM	Rising tide	
	10:54 AM	11:23 AM	7 cm rise	
	11:54 AM	12:21 PM	7 cm rise	
	12:28 PM	12:59 PM	7 cm rise	
Current	Time	Ebb/Flood/	Notes	
		Still		
	10:15 AM	Flood	Current moving east closer to	
			shoreline. May	_
			boats or wind	
	11:10 AM	Flood	Current near shore is slower	
	12:13 AM	Flood		
	12:46 AM	Flood	Little flow by the shore	
Shipping – All	10:25 AM	Bouchard	Black & Red	Southbound/
Commercial				empty
	10:25 AM		Grey ship	Anchored/
				Empty
	11:07 AM		White /red &	Northbound/
			yellow	empty
	12:08 PM	Blue Jay	Blue	Southbound/
				full
	12:08 PM		Grey	Still/ Full
Recreational	10:45 AM	Speed boat	White	Gas - south
Boats				
	10:45 AM	Fishing Boat	White	Gas South
	11:33 AM	Speed Boat	White	Gas South
What we saw!	People	Fishing (1)	Boating (3)	Walking (15)
		In Airplane (4)	Train (1)	Bike (1)
		Helicopter (2)		
	Birds	Pigeons (2)	Ducks (3)	Geese (15)
		Sparrow (7)	Seagull (11)	