

Location: Steamboat Dock Park Beach, City of Verplanck, Westchester County, NY

Area: Located in a small cove between a point and a bulkhead- pier, beach, grassy, parking lot, banks altered, riprap, pipe entering the water

Surrounding Land Use: 70% Beach; 25% Urban; 5% Forest

Sampling Site: Beach and parking lot

Shoreline: 33% Sandy, 33% Muddy, 33% Rocky

River Bottom: Muddy

Plants in water: no plants in water area

Water: 2 ft, calm

ITEM	Time	Reading		Comments			
Physical							
Air Temperature	10:20 AM	55 ° F					
-	11:11 AM	53 ° F					
Wind Speed:	10:21 AM	Beaufort 1					
Weather today	Mostly cloud	·					
Weather past 3 days:	No rain						
Tides-	Time	Rising, Falling, Unchanged	Water Height (cm)	Rate of Tidal Change (cm/min)			
Lt 12:32 PM	10:03 AM	Falling	68				
	10:19 AM	Falling	63.5				
	10:34 AM	Falling	60.4				
	10:49 AM	Falling	55.7				
	11:04 AM	Falling	35 *anomalous				
	11:19 AM	Falling	50				
	11:36 AM	Falling	52.5				
Current- orange toss	Time	cm/second	North/South	Ebb/Flood/Still			
	10:27 AM	1.967	South	Ebb			
	11:10 AM	1.933	South	Ebb			
	11:43 AM	2.167	South	Ebb			
Water Temperature-	9:54 AM	17.4 ° C, 17.3 ° C,	63.32 ° F, 63.14 ° F,				
-		17.35°C – Avg 17.35 °C	63.23°F-Avg 63.23°F				
	10:57 AM	14.6 ° C*	58.28 ° F*	*anomalous			
	11:36 AM	17.4 ° C	63.32 ° F				
Turbidity- long sight	10:06 AM,	27.4cm, 25.5cm, 20.5cm, Avg: 24.46cm		Cloudy tan, silty			
tube	11:03 AM		5				

		Chemical		
Salinity- Meter	9:54 AM	2403 ppm		
2	11:36 AM	1900 ppm		
DO – Meter Probe	Time	Тетр	ppm DO	% saturation
	9:54 AM	17.4 ° C	7	70%
	11:07 AM	14.6 ° C	11	107%
	11:54 AM		12	121%
		17.1 ° C	12	121/0
pH – Color Match Kit	10:11 AM	8		
	11:13 AM	7.5		
	11:36 AM	8		
Alkalinity- kit	NR	80, 80 ppm		
Nitrate- kit	NR	0.4, 0 ppm		
Phosphate- kit	NR	0.41, 0.58, 0.35 ppm		
F		Biological		
Fish	Number	Name	Length of longest	TOTALS
Seine- 25' 10:12 AM	12	Atlantic Silverside	5 cm	Atlantic
Senie- 23 10:12 AM	13			Silverside: 49
10.27	2	Striped Bass	7 cm	
10:37 AM	35	Atlantic Silverside	6 cm	Striped Bass: 9
	5	Striped Bass	8 cm	
1:10 PM	2	Striped Bass	8 cm	
	1	Atlantic Silverside	5 cm	
1:40 PM	3	Atlantic Silverside	4 cm	
Fish Totals	TOTAL: 58	Diversity: 2		
Macroinvertebrates	Number	Name	Length of longest	Totals
10:37 AM	22	Comb Jelly		77 Comb Jelly
11:10 AM	55	Comb Jelly		1 Blue Crab
		como seny		i Biue cius
	1	Blue Crab (F)		
11:35 AM	1	Blue Crab (F) Diversity: 2		
11:35 AM Macroinvertebrate Totals	1 TOTAL: 78	Diversity: 2	Grain Size	Other Features
11:35 AM Macroinvertebrate Totals Sediment Core	1		Grain Size	Other Features
11:35 AM Macroinvertebrate Totals Sediment Core NR	1 TOTAL: 78 <i>Time</i>	Diversity: 2 Oxid Top		
11:35 AM Macroinvertebrate Totals Sediment Core NR Boats	1 TOTAL: 78 <i>Time</i> Time	Diversity: 2 Oxid Top Name/Color	North/South	Loaded/Light
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercial	1 TOTAL: 78 <i>Time</i> 9:56 AM	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white	North/South South	Loaded/Light
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercialCommercial	1 TOTAL: 78 <i>Time</i> 9:56 AM 10:05 AM	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white Mercury 350, White	North/South South North	Loaded/Light Light Loaded
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercialCommercialCommercialCommercial	1 TOTAL: 78 Time 9:56 AM 10:05 AM 10:48 AM	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white Mercury 350, White Barges RT106, red/black	North/South South North North	Loaded/Light Light Loaded Loaded
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercialCommercialCommercialCommercialCommercialCommercial	1 TOTAL: 78 <i>Time</i> 9:56 AM 10:05 AM 10:48 AM 11:26 AM	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white Mercury 350, White Barges RT106, red/black Barge, black	North/South South North North South	Loaded/Light Light Loaded Loaded Loaded
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercialCommercialCommercialCommercialCommercialObservations	1 TOTAL: 78 <i>Time</i> 9:56 AM 10:05 AM 10:48 AM 11:26 AM	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white Mercury 350, White Barges RT106, red/black Barge, black allard ducks, seagulls, Canad	North/South South North North South	Loaded/Light Light Loaded Loaded Loaded
11:35 AMMacroinvertebrate TotalsSediment CoreNRBoatsCommercialCommercialCommercialCommercialCommercialCommercial	1 TOTAL: 78 <i>Time</i> 9:56 AM 10:05 AM 10:48 AM 11:26 AM Red Brick, ma impacted the o	Diversity: 2 Oxid Top Name/Color Sea Toe, Yellow/white Mercury 350, White Barges RT106, red/black Barge, black allard ducks, seagulls, Canadata today	North/South South North North South	Loaded/Light Light Loaded Loaded Loaded

By: Gionna DeMarako