

Location: Haverstraw Bay County Park, Village of Haverstraw, Rockland County, NY

G07200

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Area: North Beach, dock/pier, grassy, forested, parking lot

Surrounding Land Use: 70% Forested; 20% Parkland; 10% Industrial/Commercial; 20% Urban/Residential; 15% Sampling Site: Small Beach, banks altered, large riprap, concrete bulkhead, covered in vegetation

Both rooms

Shoreline: 20% Muddy, 30% Sandy, 50% Rocky

River Bottom: Muddy, sandy, rocky

Plants in area: Waterchestnuts

Water: 5-18 inches, Choppy

ITEM	Time	Re	Comments						
Physical									
	9:49 AM	8.34 °C	47 °F						
Air Temperature:	10:30 AM	8.896 °C	48 °F						
	11:10 AM	10.008 °C	50 °F						
Wind Speed:	9:45 AM 11:10 AM	7.9 knots 2.5 knots	Beaufort 1-2 Anemometer: 3.9 mps 14.04 km/hr	Northwest					
Weather Today:	9:50 AM Partly cloudy (26-50%), no rain								
Weather Previous:	Rain Monday, Ove								
Water Temperature	9:55 AM	16.2 °C 61.16 °F							
	10:34 AM	15.4 °C 59.72 °F							
	11:23 AM	17 °C	62.6 °F						
Turbidity-	9:55 AM 10:35 AM 10:48 AM 9:55 AM 10:35 AM 10:48 AM 9:55 AM 10:35 AM 10:35 AM	50 cm 40 cm 45 cm 24 33 26	Secchi Disk Secchi Disk Long sight tube Long sight tube Long sight tube Small sight tube Small sight tube						

		Chemical			
		Quantab		Hydrometer	
Salinity	10:00 AM	<28 ppm Cl-		1 ppt TS	
Salinity-	10:42 AM	<28	ppm Cl-	1 ppt TS	
	11:59 AM	NA		1 ppt TS	
Dissolved Oxygen –	Time	Тетр	1	ppm DO	% saturation
	10:15 AM	15.7 °C		8 ppm	80%
	11:00 AM	15.4 °C		10 ppm	100%
	11:33 AM	16.6 °C		10 ppm	100%
	11:45 AM	15.7 °C		8 ppm	80%
	10:05 AM	7.4, 7		7.5	avg. 7.45
	10:34 AM	7.3, 7.6		, 7.7	avg. 7.5
pH - pH pen	11:10 AM		6.9, 7.4	, 7.6	avg. 7.3
	11:35 AM		7.3, 7	7.5	avg. 7.4
		Biological	!		
	Number	Name		Length of longest	
	1	Banded Killifish		8.9 cm	
	3	Herring spp.		7.6 cm 12.7 cm	
Fish asias	2	Yellow Perch		12.7 cm 5 cm	
Fish – seine	1	Spottail Shiner Blue Fish		5 cm	
	2	Atlantic Silverside		7.6 cm	
	4	White Perch		12.7 cm	
	TOTAL: 14	DIVERSITY: 7			
	Number	Name		Length of longest	
Maanainn antahuataa	1	Blue Crab			
Macroinvertebrates- Seine					
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	TOTAL: 1	DIVERSITY: 1			
Tides	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	
	9:30 AM	-	70	-	
	10:00 AM	Still	70	0	Measure from Dock to water
	10:25 AM	Falling	75	0.2	
	10:50 AM	Falling	80	0.2	
	11:15 AM	Falling	83	0.12	
Currents Flow	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	9:44 AM	9.5	0.18467	South	Ebb
	10:40 AM	13	0.2527	South	Ebb
	11:10 AM	55	1.06912	South	Ebb

Sediment Core		Water depth	Length	Oxid Top	Grain Size	Other
Poata	Time	Nama	Color		North/South	Landad/Light
Boats		Name	Color			Loaded/Light
Commercial	9:40 AM	Barge	Dark Color		North	Loaded
Commercial	10:50 AM	Cargo	Black		North	Loaded
Commercial	11:25 AM	Cargo	Navy		North	Loaded
Recreational	9:30 AM	Speedboat	White		South	Light
Recreational	9:40 AM	Sailboat	White		Docked	Light
Other ObservationsMany Bricks, coal, glass, crab shells, rock, sand, driftwood, water chestnuts, crab, fis birds, gulls, geese, squirrels, and butterflies. Bowline powerpoint, Indian point, old brickyard industry, tilcon, coal transport and use, and local industry pollution all cour have an impact on data.						