

Day in the Life of the Hudson River 10/16/18 Data
ALPINE BOAT BASIN, ALPINE NJ
RIVER MILE: 19
Salt Front: ~RM 24
Alpine School- Lisa Wolfe
18 students 6th grade, 3 adults
Palisades Interstate Park Commission- Christina Fehre
Latitude 40.94793 N & Longitude – 73.91847 W

Location: Alpine Boat Basin, Alpine, NJ

Area: North end of the Alpine Boat Basin, adjacent to a sandy beach area. Pier, forested, parking lot, used for picnics, boats, fishing and education programs

Surrounding Land Use: 75% Forested (at the foot of the Palisades) 10% Man-made Sandy Beach; 15% recreationally developed pier and park area.

Sampling Site: Sandy beach, banks altered, riprap, bulkhead, pier, concrete

Water: 2 feet deep, slightly choppy

Plants in area: no plants in water area

River Bottom: very muddy, sandy, some rocks

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>	<i>Comments</i>	
Physical				
<i>Air Temperature:</i>	10:21 AM 11:20 AM	10 ° C 11 ° C	50 ° F 51 ° F	
<i>Wind Speed:</i>	10:19 AM 11:25 AM	Beaufort 1 Beaufort 3	North North	
<i>Weather Today:</i>	No Rain, Mostly Cloudy (51-75%)			
<i>Weather Previous:</i>	Moderate rain over the past 3 days.			
<i>Water Temperature</i>	10:35 AM 11:43 AM	12 ° C 15 ° C	53.6 ° F 59 ° F	
<i>Turbidity - secchi disk</i>	10:28 AM 11:37 AM	30 cm 30 cm		
Chemical				
<i>Salinity- hydrometer</i>	10:35 AM 11:41 AM	5 ppt 0 reading*	<i>*They believe this was an error in their reading</i>	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	NR	NR	NR	NR
<i>pH -</i>	NR			
<i>Fish – seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	

	8 2 1 2 1	Striped Bass American Eel Hogchoker Atlantic Siverside Yellow Perch*	9 cm 24 cm 12 cm 8 cm 23 cm		*Yellow perch would be unusual in this region
	TOTAL: 14	Diversity: 5			
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>		
	8 5	Blue Crab Grass Shrimp	8 cm 6 cm		
	TOTAL: 13	Diversity: 2			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Change (cm/sec)</i>	
<i>Currents -</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/ South</i>	<i>Ebb/Flood/Still</i>	
10:08 AM 11:15 AM	5 13.2	0.097 0.257	North North	Flood Flood	
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North/ South</i>	<i>Loaded or Light</i>
Commercial Recreational Recreational	9:52 10:05 10:37	Barge Sailboat Yacht		North South South	Loaded Light Light
<i>Other Observations</i>	Fisherman told them there were 2 eagles in the trees.				