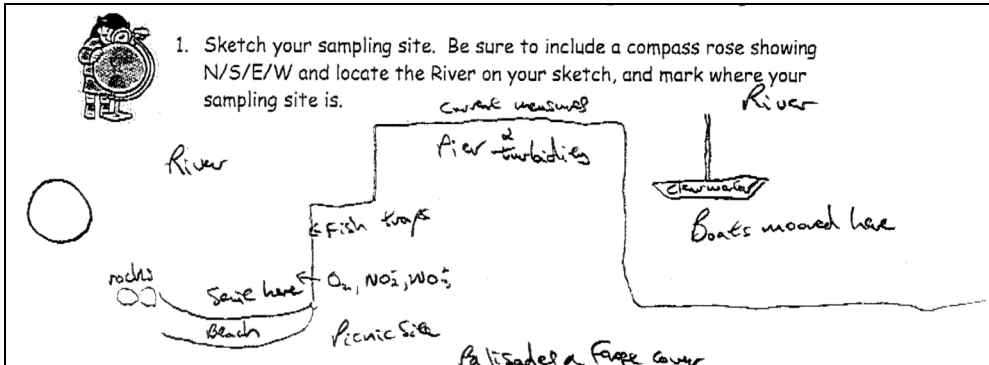


**Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
RIVER MILE 18.5W**

Alpine Boat Basin

**Leslie Day & Gary Lyon, The Elisabeth Morrow School,
Englewood, NJ – 5th /6th grade – 53 students
Rivka Rosenstein & Lisa, Wolfelsperger, Alpine Elementary School
Alpine NJ – 6th grade – 12 students
N 40.94583 – W -73.91833**



Location: North end of the Alpine Boat Basin, adjacent to a sandy beach area

Area: Used for picnics, boats, seining and education programs

Surrounding Land Use: Forested 20% (at the foot of the Palisades, Man made Sandy Beach 10%, Recreationally developed boat mooring & picnic table 70%

Sampling Site: sandy beach, banks altered, rip rap, bulkhead

Plants in area:

Water depth: 1 – 2 meters

River Bottom – sandy, muddy, rocky

* Note – boating marina and extensive piers could affect turbidity, fish populations, current flow rates and wave action.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:30 AM	21.13°C 70°F		
Wind Speed	Beaufort #2.5 to 3	6 knots	Very windy day	SW
Cloud Cover	clear			
Weather today	Sunny and dry			
Weather recently				
Water Temperature	9:25 AM	15.5°C 60°F	16.12°C 61°F	
(at shoreline 1 foot depth)	10:00 AM	16.12°C 61°F	16.12°C 61°F	
	10:22 AM	15.5°C 60°F		
Turbidity	10:50 AM	20 cm		Long Site tube

	10:50 AM	45 cm		Secchi Disk
Chlorophyll	11:48 AM	1.0		
Chemical				
DO -	9:35 AM	10.0 mg/L	15°C	98%
	10:10 AM	12.0 mg/L	16°C	120%
	11:40 AM	12.0 mg/L	16°C	120%
pH	9:30 AM	5.0		
	11:00 AM	7.0		
	11:30 AM	8.0		
Nitrate	< 5 ppm			
Salinity	8:30 AM	10 ppt	hydrometer	
	9:30 AM	9 ppt	refractometer	
	9:55 AM	9 ppt	refractometer	
	10:00 AM	9 ppt	refractometer	
Fish Catch	Number Caught	Species	Size	Seine
	11	Silversides	10 cm	
	5	White Perch	27 cm	
Crab caught off pier by fisherman	1	Blue Crab	14 cm	
Tides	9:41 AM	32 cm		
	10:15 AM	38cm	Rising	
	10:30 AM	42cm	Rising	
	11:28 AM	63 cm	rising	
Currents-	9:32 AM	60 ft./60 sec	1 ft. a sec.	
	9:36AM	60 ft./60 sec	1 ft. a sec.	
	10:18 AM	23 ft./60 secs	.38 ft. a sec.	
	10:50 AM	25 ft./60 sec	.42 ft. a sec.	
Sediment Core	TOTAL Length	Top Layer	Bottom Layer	Description
	20 cm	14 cm lighter sandy color	6 cm bottom darker color	Larger grain size – sulfur smell in cove
		sand	Blackish grey mud	
Shipping	9:30 AM	Clearwater	Northbound	full
	9:30 AM	Barge	Red & black	Stationary
Observations	Osprey flying above	2 fishermen – caught large bluefish	Flock of gulls	Lots of plant debris in the water from seasonal plants