Day in the Life of the Hudson River 10/05/2023 Alpine Boat Basin, Alpine, NJ RIVER MILE: 19 Salt Front: ~ 52 Pascack Hills High School-Natalie Macke 29 students, 11th-12th grade, 2 adults Latitude 40.94793°N & Longitude -73.91847°W

Location: North end of the Alpine Boat Basin, adjacent to a sandy beach area. Surrounding Land Use: 75% Forested, 10% Man made Sandy Beach, 15% recreationally developed pier and park area Sampling Site: Sandy beach, banks altered, rip rap, bulkhead, pier, concrete Shoreline: NR Water: NR **River Bottom: NR** Plants in the water: NR *NR = Not read/recorded ITEM Time **Comments** Reading **Physical** Air Tomporaturo 0.48 AM 21 5°C 70 7°E

Air Temperature	<i>e</i> 9:48 AM 21.5°		21.5°C	C 70.7°F					
-	10:31	٩M	22°C			71.6°F			
	10:33	٩M	21°C			69.8°F			
	10:34	AM	24°C			75.2°F			
Wind Speed:			Anemometer		Beaufort		Direction		
	10:31	M 1 m/s						Southwest	t
Weather today	9:33 A	М	<25% Cloud Cover			No Rain			
<i>Weather the past 3 days:</i>	Clear, warmer temperatures								
Tides- NR	Time	ne Rising, I Unchan				Height (cm)			
Current- Time			Cm/sec		Knots	North/South		Ebb/Flood/Slack	
	9:25 A	М	30.65		0.6			Ebb	
	9:30 A	М	23.83		0.46			Ebb	
	9:44 A	Μ	25.64		0.4989			Ebb	
Water Temperature-	10:26 AM		24.5°C			76.1°F			
			23.2°C			73.8°F			
Turbidity- Long Sight	9:24 AM 31.7		31.73 cr	n					
<i>Tube (120 cm)</i>									
				1	Chemica				
Standardized Salinity- I		9:39	AM 5,588		38 ppm total salinity		5.6 ppt TS		3093 ppm Cl-
Range Quantabs 7.6 QT	'unit								
5			9:28 AM		5,000 ppm		5 ppt		
5			10:08 AM		6,300 ppm		6.3 ppt		
					4,667 ppm		4.667 ppt		0/
							<i>ppm DO</i> 7.86		% saturation 87.4%
9:			-		20.9°C 20.9°C		7.80		87.4% 90.1%
					-	8.35			90.1% 91%
				20.9°C 22.8°C			8.70		97.5%
		10.14	1 AM	22	X°C				
nH – Meter			AM AM			ow reading fo		3	97.370
pH – Meter Nitrates- Hach Test Kit	Tablets		3 AM	6.8	3* pretty l	low reading for etty high readi	or this area	a	97.370

Fish-Seine	Number	Name		Length of longest	Notes	
9:00 AM-10:00 AM	1	1 Summer Flounder			4 cm	
	4	White Perch			20 cm	
	4	4 Hogchoker			4 cm	
	15	Atlantic Silverside			5 cm	
	1	Striped Bass		4 cm		
	1	American Eel			8 cm	
Fish Totals	TOTAL: 26	Diversity: 6				
Macroinvertebrates	Number	Name			Length of longest	
	3	Blue Crab				
Macroinvertebrate Totals	TOTAL: 3	Diversity: 1				
Sediment Core	Time	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features
9 cm	9:39 AM	No	No	No	Abundant: Sand Rare: Mud	

Boats								
Commercial/	Time	Туре	Color	Southbound/	Light/			
Recreational				Northbound	Loaded			
Commercial	9:47		Black	Southbound	Loaded			
Commercial	9:47		Orange	Northbound	Loaded			