

**Day in the Life of the Hudson River 10/22/19 Data
BROOKLYN BRIDGE PARK (EAST), BROOKLYN
RIVER MILE: 1.7 (East River)**

Salt Front: ~RM 53

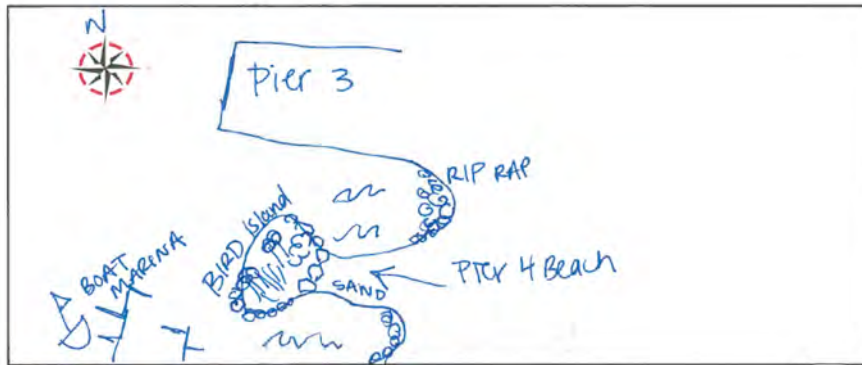
MS915 – Nicole Marcellin

3 groups (28, 27 25 students) 80 total 8th grade students, 10 adults

Brooklyn Bridge Park- Christina Tobitsch



**Latitude 40.69653 N & Longitude – 73.99971 W
Degrees, minutes, seconds 40° 41' 47.6 N and - 73° 59' 56.7" W**



Location: Pier 5 of Brooklyn Bridge Park, Brooklyn, NY
Area: Mixed use park, marina south and park pier north of beach
Surrounding Land Use: 100% Urban/residential and park land
Sampling Site: South of boat marina and in front of the soccer field.
Shoreline: beach, vegetation, riprap, pipe entering the water
Water: Calm
River Bottom: Sandy, rocky
No plants – just algae ~ 10%

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	10:47AM	15.5° C	60° F	
	11:34 AM	15.5° C	60° F	
	12:06 PM	16.7 C	62° F	
	12:35 PM	17.8° C	64° F	
<i>Wind</i>	10:00 AM	Beaufort #2		
<i>Weather Today:</i>	10:30-11:00 AM light rain, full sampling time overcast (75%)			
<i>Weather Previous:</i>	N/R			
<i>Water Temperature- in a bucket</i>	10:30 AM	16° C	61° F	
	11:30 AM	16° C	61° F	
	12:30 PM	17° C	62° F	
<i>Turbidity - HORIBA multiparameter</i>	<i>Time</i>	<i>Long Tube</i>	<i>Probe</i>	Turbidity decreased during
	10:50 AM	70.5 cm	21.7 ntu	

<i>probe</i>	11:45 AM 12:50 PM	83.5 cm 94 cm	15.6 ntu 8.4 ntu	the day and students speculated that incoming tide or addition of freshwater (rain) may have influenced it.
Chemical				
<i>Salinity- H= hydrometer M=meter</i>	10:15 AM	22 ppt (H) 20 ppt (H) 19.9 ppt (M)	20.75 average	
	11:15 AM	22 ppt (H) 21 ppt (H) 20.45 ppt (M)	21.15 average	
	12:30 PM	21 ppt (H) 19 ppt (H) 18.9 ppt (M)	19.6 average	
<i>DO – C = Chemetrics M = Meter</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:30 AM		8 ppm (C) 6.5 ppm(C) 6.96 (M)	80.3%
	11:30 AM		7 ppm(C) 6 ppm(C) 7.51 ppm (M)	87.4%
	12:30 PM		7 ppm(C) 7 ppm(C) 7.02 (M)	80.9%
<i>pH - TK = Test Kit M = Meter</i>	10:20 AM	*6 (TK) *7.8 (M)	*They noted both of these may be inaccurate	
	11:30 AM	8 (TK) 8 (TK) 8.56 (M)		
	12:30 PM	8 (TK) 8/9 (TK) 8.59 (M)		
<i>Fish – seine – 20 ft. length 16 hauls total</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	584	Atlantic Silverside	11.5 cm	
	11	Striped Anchovy	5 cm	
	1	Winter flounder	7 cm	
	1	Pipefish	8 cm	
	7	Menhaden	8 cm	
	TOTAL: 604	Diversity: 5		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1	Hermit crab		
	1	Mussel		
	5	Moon Jelly		
	6	Comb jelly Beroe		
	21	Comb jelly Leidyi		
	TOTAL: 34	Diversity: 5		
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Tidal Notes</i>

	10:00 AM - 1:00 PM	Flood		<i>Low Tide 9:48 AM 0.9 ft</i>	<i>High Tide 3:58 AM 4.1 ft</i>
Currents-	cm/second	Rising, Falling, Unchanged	North/South	Ebb/Flood/Still	
<i>N/R</i>					
Core	Length	Description	Rare	Common	Abundant
	18 cm	Bottom – wet and more compact Top – drier sand & looser	Wood ?macroinvertebrates (need a microscope)	- Gravel - Shells (small fragments) - Brick - Living vegetation (algae)	Sand
Boats	Time	Name	Color	North or South	Loaded or Light
<i>N/R</i>					
Other Observations		Shell fragments (clam, oyster, mussel), small pebbles, algae (red, sea lettuce, rockweed), large pieces of driftwood Birds and bees abundant in vegetated areas of the beachfront			