Day in the Life of the Hudson River 10/22/20 MORRIS CANAL BASIN, NEW JERSEY RIVER MILE: 0.5

Salt Front: ~ *RM 75*

Lab High School – Susan Price, 2 participants
Hudson Montessori School- Grace Sanvictores, 24 participants
Latitude 40.707725 N & Longitude – 74.03447 W







Location: Morris Canal Basin, Jersey City, Hudson County, New Jersey

Area: Walking and fishing pier along a developed area, walkway with railing, water's edge is rocky.

Surrounding Land Use: 100% Industrial

Sampling Site: Waterfront pier jutting out along the waterfront surrounding a canal inlet, walk down to the

water to a rocky shoreline. **Shoreline**: 100% Rocky

ITEM	Time	Time Reading				
		Physical				
Air Temperature	10:00 AM	20 ° C	68 ° F			
•	3:30 PM	20.5 ° C	68.9 ° F			
Wind Speed:	9:00 AM	3.8 m/sec	<1 Beaufort			
	1:00 PM	0.5 m/sec				
	3:30 PM	0 m/sec				
Weather today	9:00 AM Downpour, 3:30 PM no rain					
Weather past 3 days:	Rain on previous day, slight overcast, cool at night					
Tides-	Low Tide	High Tide	Time of Sampling	Tide		
	7:27 AM	1:48 PM	10:00 AM	Flood		
Current-	Time	cm/second, Knots	North/South	Ebb/Flood/Still		
	10:00 AM		North	Flood		
Water Temperature-	10:00 AM	17 ° C	62.6 ° F			
	3:30 PM	18 ° C	64.4 ° F			
Turbidity- Long sight	10:00 AM	80 cm (Secchi was 85 cm)				
tube	4:00 PM	33 cm				
		Chemical				
Salinity- Hydrometer	10:00 AM	20ppt				
Refractometer	3:30 PM	22 ppt				
DO –	Time	Тетр	ppm DO	% saturation		
Hach Drop Count	11:30 AM	17 ° C	6 ppm	65%		
Chemets Kit	12:30 PM	17 ° C	8 ppm	90%		
	3:30 PM	18 ° C	7 ppm	80%		
pH – Meter	10:00 AM	6.5				

Color match kit	3:30 PM	8.1					
Nitrates-	3:30 PM	0 ppm					
Biological							
Fish	Number	Name	Length of longest	Length of smallest			
Trap	2	Mummichog	7 cm	6 cm			
Fish Totals	TOTAL: 2	Diversity: 1					
Macroinvertebrates	Number	Name	Length of longest	Length of smallest			
	2	European Green Crab					
Macroinvertebrate Totals	TOTAL: 2	Diversity: 1					
Sediment Core	Time	Oxidized Top	Grain Size	Other Features			
NR							
Boats	Time	Name/Color	North/South	Loaded/Light			
NR							
Observations	1 dead green crab						