Day in the Life of the Hudson River 10/22/19 LASHER PARK, GERMANTOWN RIVER MILE: 108.5

Salt Front: ~ RM 53

Hudson High School – Jim McDarby Columbia Land Conservancy- Heidi Bock 40 students 10-12th grade, 9 adults Latitude 42.1589 N & Longitude – 73.9959 W



Location: Lasher Memorial Park, Boat Launch, Northern Germantown Landing, Columbia County, NY

Area: Grassy area, boat launch, pier, parking lot- used for picnics and boating

Surrounding Land Use: 5% Forested; 80% Urban/Residential; 5% Beach; 10% Industrial/Commercial

Sampling Site: Park with mowed lawn, beach, riprap in area

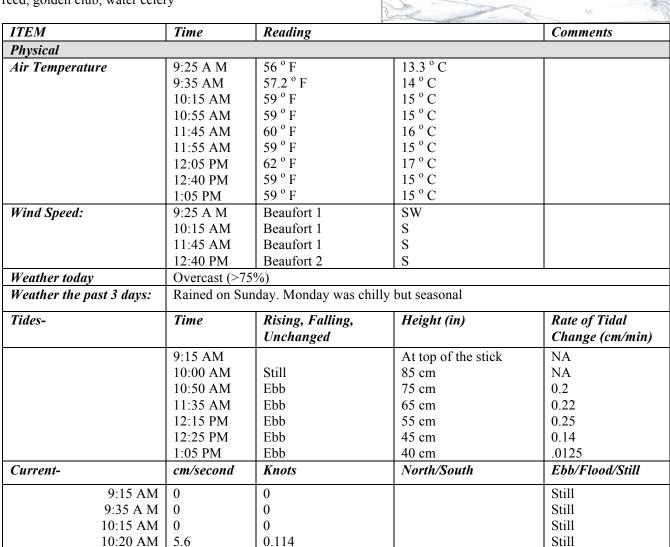
Shoreline: 75% Sandy; 20% muddy; 5% rocky

Water: 60 cm

River Bottom: Muddy, weedy, sandy

Plants in water: 60-80% water chestnuts, 10% sweetflag, 10% bulrush (cattail), 5-10% spatterdock, 5-10% duckweed, common

reed, golden club, water celery



10:40 AM	4.1	0.079	South	Ebb
10.40 AM 11:40 AM	13	0.079	South	Ebb
	7			Ebb
11:50 AM		0.136	South	
12:40 PM	17.5	0.34	South	Ebb
12:45 PM	7	0.14	South	Ebb
Water Temperature	9:15 AM	11 ° C, 12 ° C		
	10:05 AM	12 ° C, 12 ° C	51.2 ° F, 51.2 ° F	
	11:36AM	12 ° C, 13 ° C		
	12:35 PM	12 ° C, 13 ° C	54 ° F, 55 ° F	
Turbidity- long sight tube	9:40 AM	16.75, 15.25 cm, 22.5 cm	cm, Avg: 18.16 cm	
	10:35 AM	24.2 cm, 23 cm, 24.2 c	m, Avg: 23.8 cm	
	12:00 PM	16.8 cm, 20.5 cm, 19.5	cm, Avg: 18.9 cm	
	12:55 PM	16.25 cm, 19 cm, 15 cr		
Chemical			8	
Salinity- LR Quantabs	Time	Chloride ppm Cl	Total Sal. Ppm	
Sumily En Quantabs	9:40 AM	< 28 ppm	Below Detection	
	10:25 AM	< 28 ppm	Below Detection	
	10.23 AM 11:35 AM	< 28 ppm	Below Detection	
			Below Detection Below Detection	
DO Duran samuel in	12:40 PM	< 28 ppm		0/
DO – Drop count kit	Time	Temp	ppm DO	% saturation
*DO readings seem high,	9:50 AM	12	10	90%
perhaps there was an air	10:45 AM	12	18	>140%
bubble or didn't swirl	10:55 AM	12	12	130%
after each titration drop	12:06 PM	12.5	18	>140%
	12:20 PM	12.5	19	>140%
	1:00 PM	12.5	14	130%
pH – Color Match Kit	9:25 AM	7, 7		
	10:15 AM	6.8, 8.3, Avg: 7.5		
	11:45 AM	7.75, 7.25, Avg: 7.5		
	12:40 PM	7.5		
Fish	12:40 PM Number	7.5 Name	Length of longest	
	Number	Name		9-10 am
Seine: 25'	Number 2	Name Striped Bass	9 cm	9-10 am
	Number 2 8	Name Striped Bass Spottail Shiner	9 cm 8 cm	
Seine: 25'	Number 2 8 1	Name Striped Bass Spottail Shiner Banded Killifish	9 cm 8 cm 7 cm	9-10 am 10-11 am
Seine: 25'	Number 2 8 1 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad	9 cm 8 cm 7 cm 8 cm	
Seine: 25'	Number 2 8 1 1 3	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner	9 cm 8 cm 7 cm 8 cm 9.5 cm	
Seine: 25'	Number 2 8 1 1 3 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm	10-11 am
Seine: 25'	Number 2 8 1 1 3 1 6	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm	
Seine: 25'	Number 2 8 1 1 3 1 6 2	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm	10-11 am 11:30-12:30 pm
Seine: 25'	Number 2 8 1 1 3 1 6 2 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Spottail Shiner Striped Bass	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm	10-11 am
Seine: 25'	Number 2 8 1 1 3 1 6 2 1 5	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm	10-11 am 11:30-12:30 pm
Seine: 25'	Number 2 8 1 1 3 1 6 2 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm
Seine: 25' # Pulls: 4	Number 2 8 1 1 3 1 6 2 1 5 1 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp.	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm	10-11 am 11:30-12:30 pm
Seine: 25' # Pulls: 4 Fish Totals	Number 2 8 1 1 3 1 6 2 1 5 1 TOTAL: 32	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm
Seine: 25' # Pulls: 4	Number 2 8 1 1 3 1 6 2 1 5 1 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm
Seine: 25' # Pulls: 4 Fish Totals	Number 2 8 1 1 3 1 6 2 1 5 1 TOTAL: 32	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M)	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm
Seine: 25' # Pulls: 4 Fish Totals	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm
Seine: 25' # Pulls: 4 Fish Totals	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M)	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2 TOTAL:4	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm 11.5 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2	Name Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M)	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 9 cm 15 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals Boats	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2 TOTAL:4 Time	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2 Name/Color	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 15 cm 11.5 cm	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm Loaded/Light
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals Boats Commercial	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2 TOTAL:4 Time	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2 Name/Color	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 15 cm 11.5 cm North/South	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm Loaded/Light Light
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals Boats Commercial Recreational	Number 2 8 1 1 3 1 6 2 1 5 1 TOTAL: 32 Number 1 1 2 TOTAL:4 Time 9:30 AM 9:40 AM	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2 Name/Color Unknown Small Cruise	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 15 cm 11.5 cm North/South North South	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm Loaded/Light Light Loaded
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals Boats Commercial Recreational Commercial	Number 2 8 1 1 3 1 6 2 1 5 1 1 TOTAL: 32 Number 1 1 2 TOTAL:4 Time 9:30 AM 9:40 AM 11:55 AM	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2 Name/Color Unknown Small Cruise Oil Barge	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 15 cm 11.5 cm Length of longest North/South North South South	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm Loaded/Light Light Loaded Loaded Loaded
Seine: 25' # Pulls: 4 Fish Totals Macroinvertebrates Macroinvertebrate Totals Boats Commercial Recreational	Number 2 8 1 1 3 1 6 2 1 5 1 TOTAL: 32 Number 1 1 2 TOTAL:4 Time 9:30 AM 9:40 AM	Striped Bass Spottail Shiner Banded Killifish Gizzard Shad Spottail Shiner Goldfish Spottail Shiner Spottail Shiner Striped Bass Spottail shiner White Perch Herring spp. Diversity: 7 Name Blue Crab (M) Amphipod Blue Crab (M) Diversity: 2 Name/Color Unknown Small Cruise	9 cm 8 cm 7 cm 8 cm 9.5 cm 7.5 cm 9 cm 8 cm 9 cm 15 cm 11.5 cm North/South North South	10-11 am 11:30-12:30 pm 12:30-1:15 pm 10-11 am 11:30-12:30 pm Loaded/Light Light Loaded