

Day in the Life of the Hudson River 10/16/18 Data
SOLAR ONE, MANHATTAN
RIVER MILE: 4.9
Salt Front: ~RM 24
The Clinton School- Katie Jungers
30 students 12th grade, 3 adults
Solar One- Sarah Pidgeon
Latitude 40.734408 N & Longitude – 73.974231 W

Location: Solar One, East River at 23rd Street, Manhattan, NY

Area: Stuyvesant Cove Park, beach area

Surrounding Land Use: 50% Urban/Residential; 25% Forested; 1% Beach area (at low tide), 1-24% Industrial/Commercial

Sampling Site: Recreational Pier- Rocks near the edge, banks altered

Water: Ranged between choppy and calm, 1-4 feet deep

ITEM		Time	Reading		Comments
Physical					
Air Temperature:		10:35 AM 11:14 AM	11.67° C 12.78° C	53° F 55° F	
Wind Speed:		NR	Beaufort: 3-4		
Weather Today:		Partly cloudy (26-50%)			
Weather Previous:					
Water Temperature		NR			
Turbidity -		10:30 AM	Secchi disk 414.02 cm	Turbidimeter 35 NTUs	
Chemical					
Salinity- hydrometer		10:40 AM	17 ppt 18 ppt 13 ppt	Avg: 16 ppt	
DO – Winkler Method and tabs		Time	Temp	ppm DO	Comments
		10:30 AM			Issue with DO Kit
pH - indicator solution		10:30 AM	7, 6.5, 6.5	Avg: 6.8	
Nitrates- Wide range estuary kit		10:30 AM	0.5 ppm		*Estuary kits are low resolution
Phosphates		NR			
Tides-		Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)
		10:43 AM 10:55 AM	Falling Falling	358 353	- 0.4167
Currents	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	10:31 AM 10:40 AM 10:48 AM	17.6 0.43 13.1	0.342 0.00836 0.255	South South South	Ebb Ebb Ebb