Great Lakes Dredge & Dock Company, L.L.C.
Daily Water Quality Monitoring Report

Site Information		**Report Summary**	
Project:	Lower Passaic River Study Area, RM 10.9	Content:	6/11/2013 Daily WQ Report
Site:	Lyndhurst, NJ	Author:	JEM

Device Profile:	**Site Description:**
NexSens CB-400S coastal data buoy NexSens SDL500C data logger w/cell modem telemetry YSI 6920 sonde w/temperature sensor -6589 fast-response pH sensor -6136 turbidity sensor w/ self-cleaning wiper	Buoy 1: Downriver background, 5.0' monitor depth Buoy 2: Downriver monitoring, 5.0' monitor depth Buoy 3: Upriver monitoring, 5.5' monitor depth Buoy 4: Upriver background, 7.0' monitor depth

Report Notes:

Sampling Period: 0:00-23:59, 15 min. intervals
Sampling Team: Mike Regan, Chris Ebner
Weather
-Temp: 65-80F
-Wind: 5MPH W
-Sky: Clear
Tides
-5:53 low 0.2'
-11:20 high 5.3'
-17:45 low 0.9'
-23.01 high 6.0'

Note: Sondes were calibrated by GLDD between 0945 and 1145hrs.

Construction Activities: None (pre-mobilization)
-Dredging Stations: N/A
-Work Start/Stop Time: N/A

Buoys 1 & 2 deployed 5/30/13, buoys 3 & 4 deployed 5/31/13

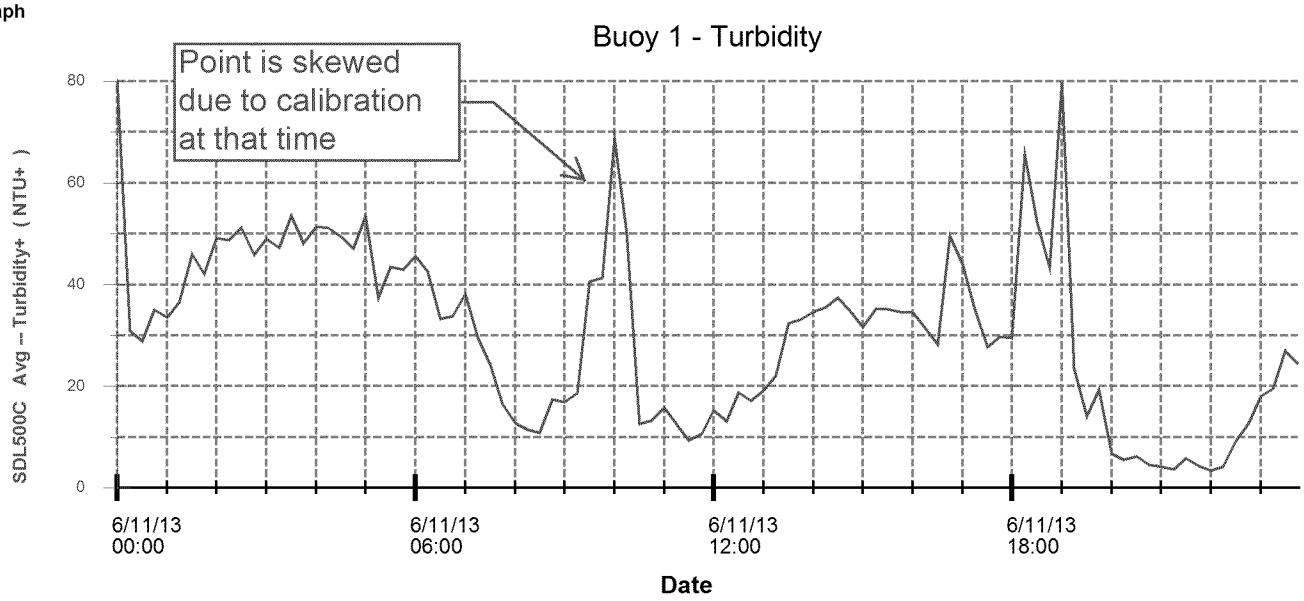
Calibration history:
-S/N 13E100775 (Buoy 1): last calibrated 6/11/13
-S/N 13E100777 (Buoy 2): last calibrated 6/11/13
-S/N 13E100776 (Buoy 3): last calibrated 6/11/13
-S/N 13E100778 (Buoy 4): last calibrated 6/11/13

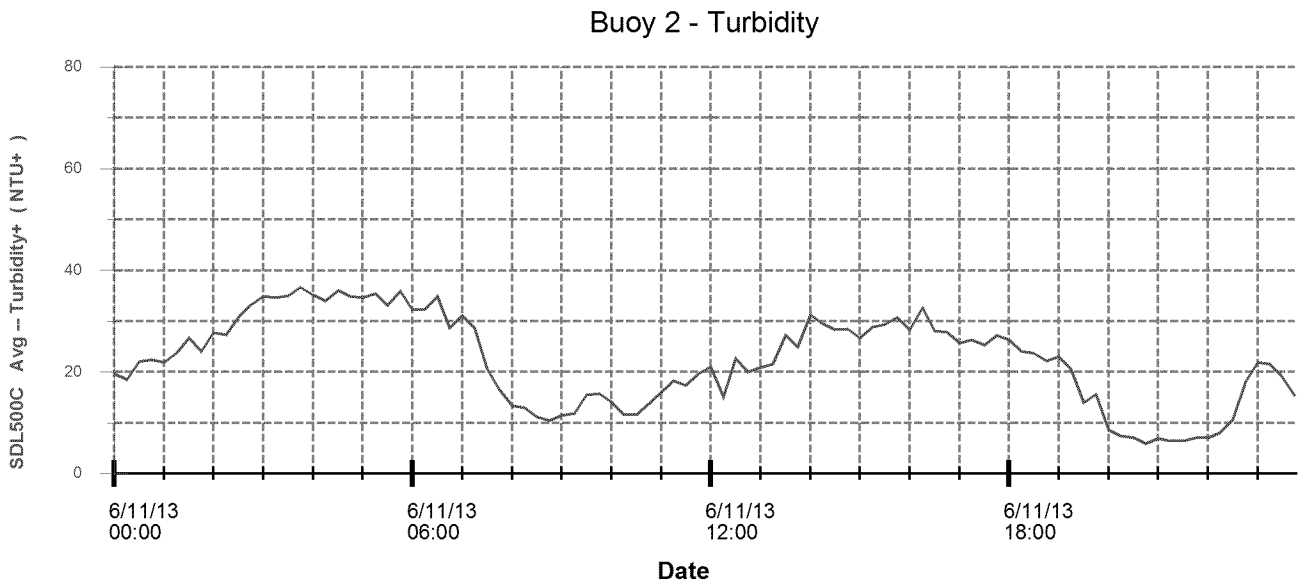
Statistical Summary

Parameter	Samples	Avg	Max	Min	Std
SDL500C					
Turbidity+ (NTU+)	95	44.22	1340.10 06/11/2013 12:00:00 AM	3.40 06/11/2013 10:00:00 PM	134.71
Turbidity+ (NTU+)	95	22.40	36.70 06/11/2013 3:45:00 AM	5.90 06/11/2013 8:45:00 PM	8.81
Turbidity+ (NTU+)	95	13.19	32.70 06/11/2013 5:30:00 AM	-0.20 06/11/2013 9:30:00 PM	7.66
Turbidity+ (NTU+)	94	20.06	500.90 06/11/2013 9:15:00 AM	2.10 06/11/2013 9:30:00 PM	50.31
pH	95	7.32	7.47 06/11/2013 1:30:00 AM	7.00 06/11/2013 11:30:00 AM	0.10
pH	95	7.39	7.50 06/11/2013 12:00:00 AM	7.16 06/11/2013 11:15:00 AM	0.06
pH	95	7.30	7.44 06/11/2013 12:00:00 AM	6.56 06/11/2013 10:45:00 AM	0.12
pH	94	7.40	7.45 06/11/2013 12:00:00 AM	7.00 06/11/2013 10:30:00 AM	0.05
Temperature (F)	95	67.71	68.97 06/11/2013 6:30:00 PM	66.64 06/11/2013 8:00:00 AM	0.83
Temperature (F)	95	67.66	68.89 06/11/2013 6:15:00 PM	66.55 06/11/2013 7:30:00 AM	0.85
Temperature (F)	95	67.65	68.94 06/11/2013 7:30:00 PM	66.49 06/11/2013 8:00:00 AM	0.90
Temperature (F)	94	67.59	68.92 06/11/2013 7:15:00 PM	66.36 06/11/2013 7:45:00 AM	0.92
Battery (V)	96	13.5	14.4 06/11/2013 8:00:00 AM	13.0 06/11/2013 12:30:00 AM	0.4
Battery (V)	96	13.7	14.7 06/11/2013 9:00:00 AM	13.1 06/11/2013 5:45:00 AM	0.4
Battery (V)	96	13.9	14.9 06/11/2013 8:15:00 AM	13.4 06/11/2013 2:00:00 AM	0.5
Battery (V)	96	13.7	14.6 06/11/2013 10:15:00 AM	13.2 06/11/2013 1:15:00 AM	0.4

FOIA_07123_0004072_0003

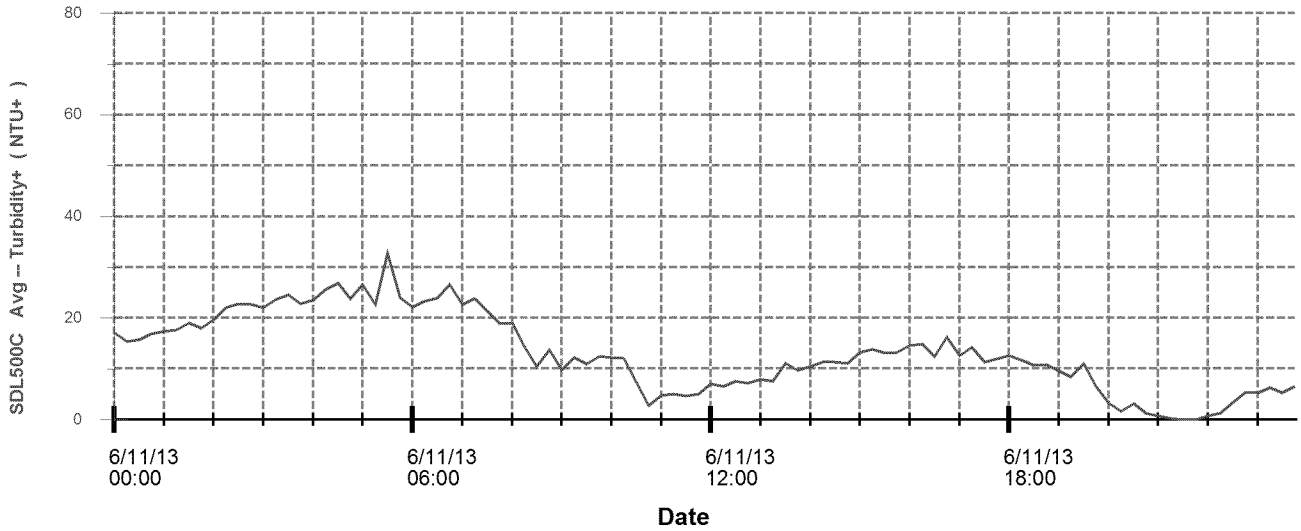
Data Graph



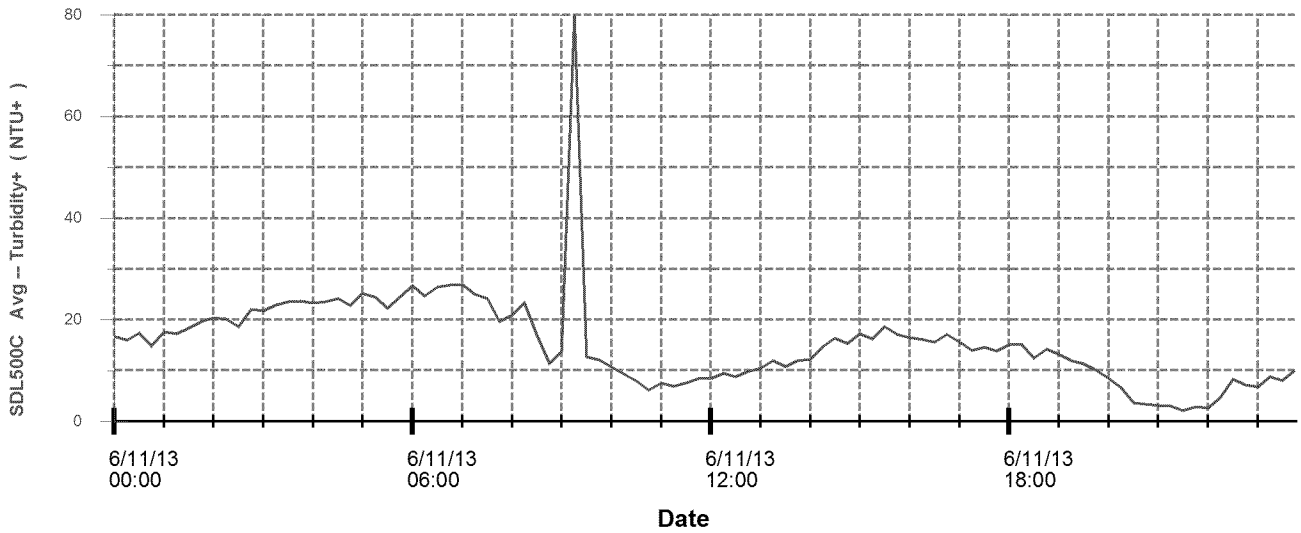


FOIA_07123_0004072_0004

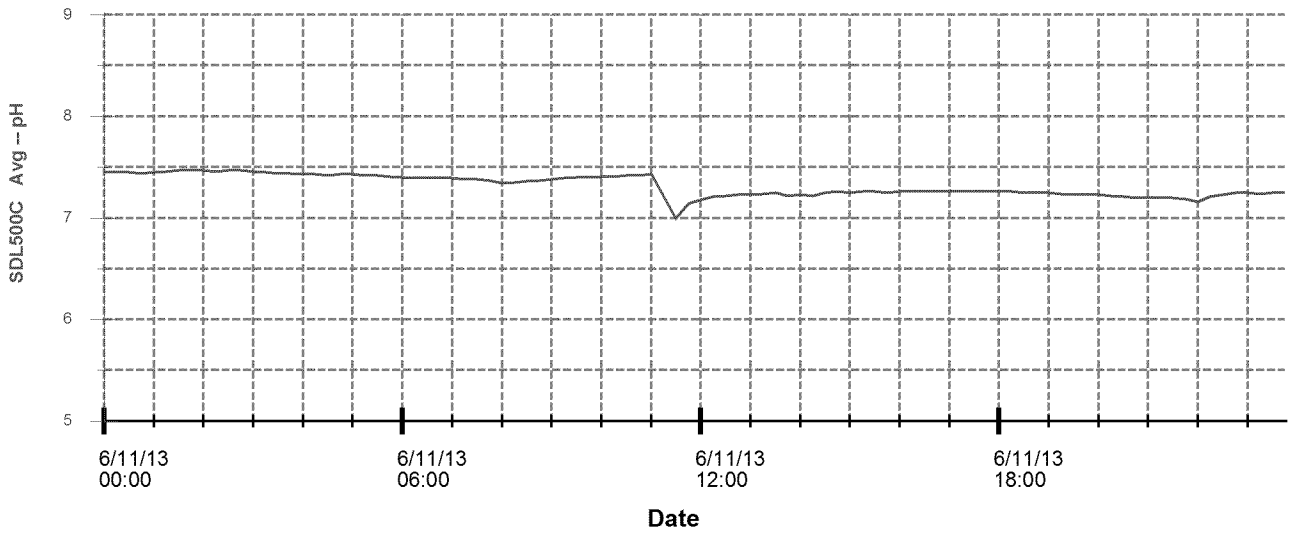
Buoy 3 - Turbidity



Buoy 4 - Turbidity

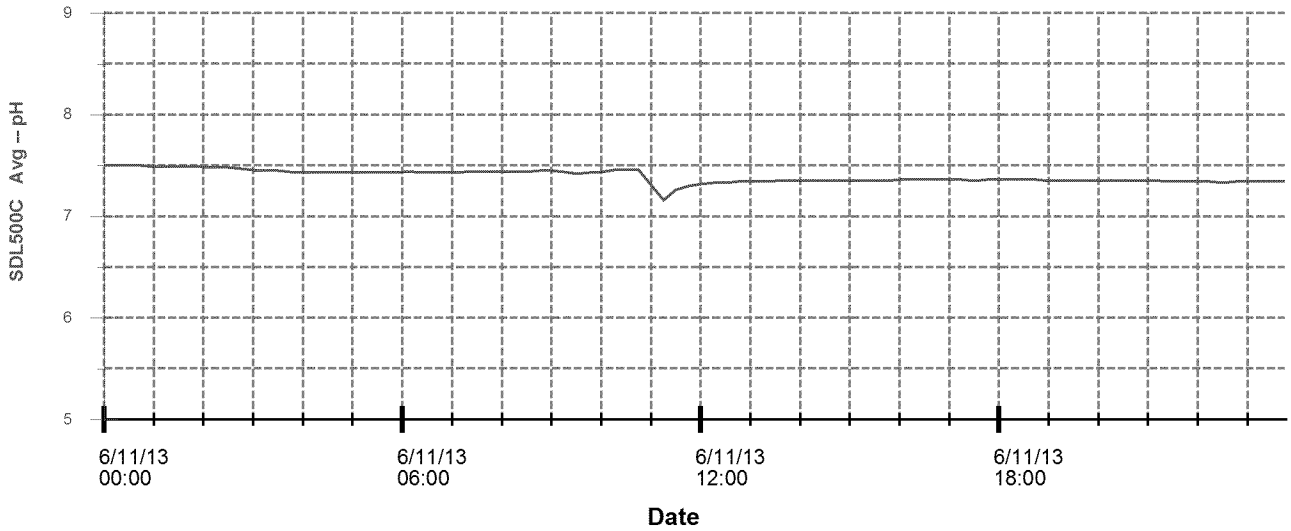


Buoy 1 - pH

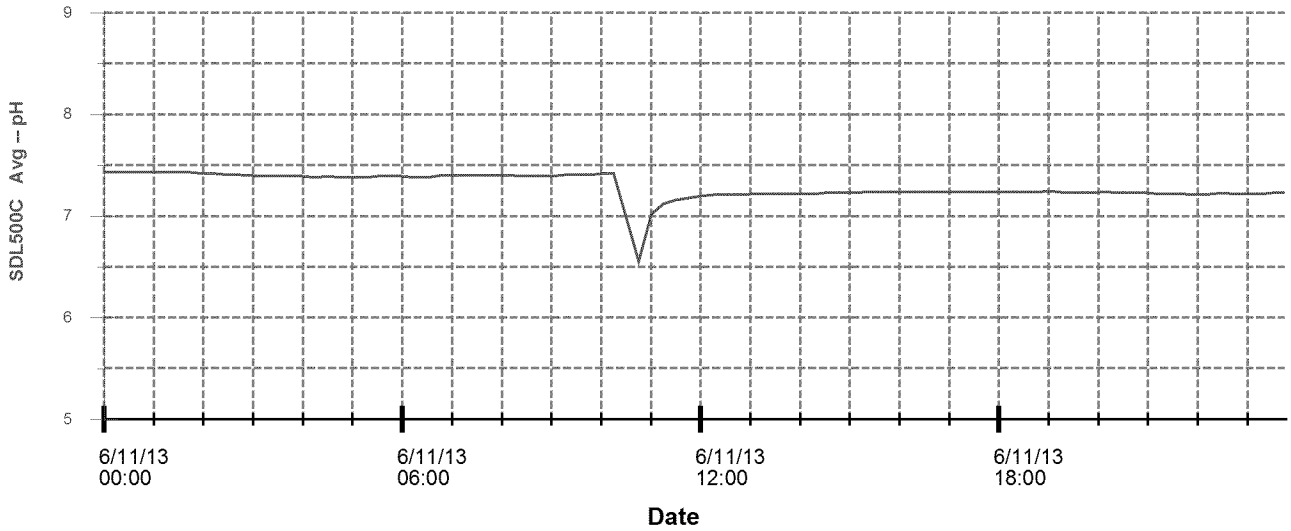


FOIA_07123_0004072_0005

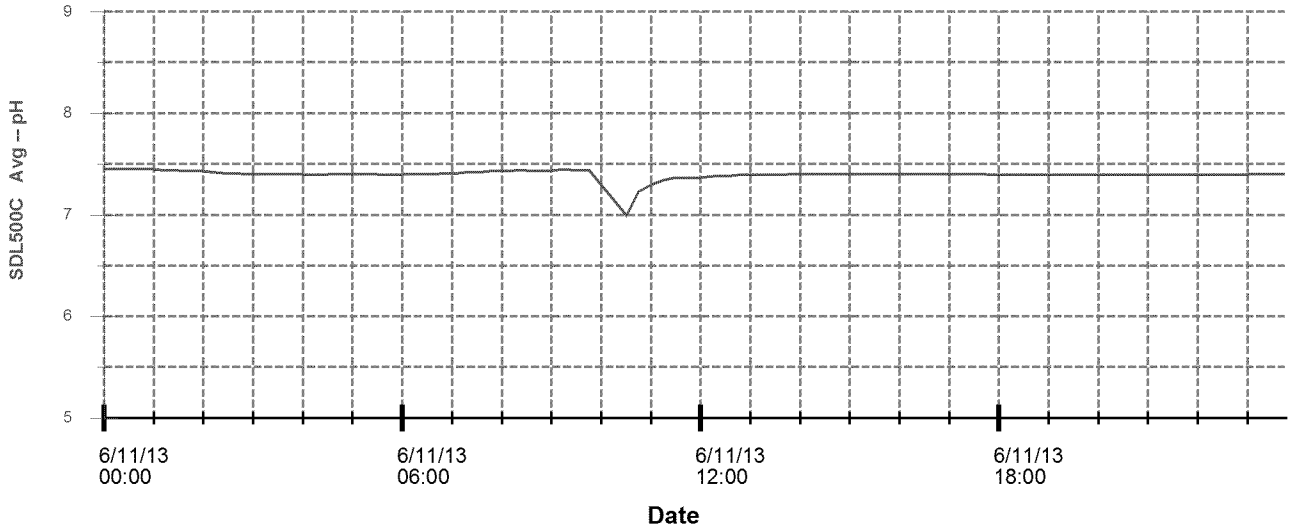
Buoy 2 - pH



Buoy 3 - pH

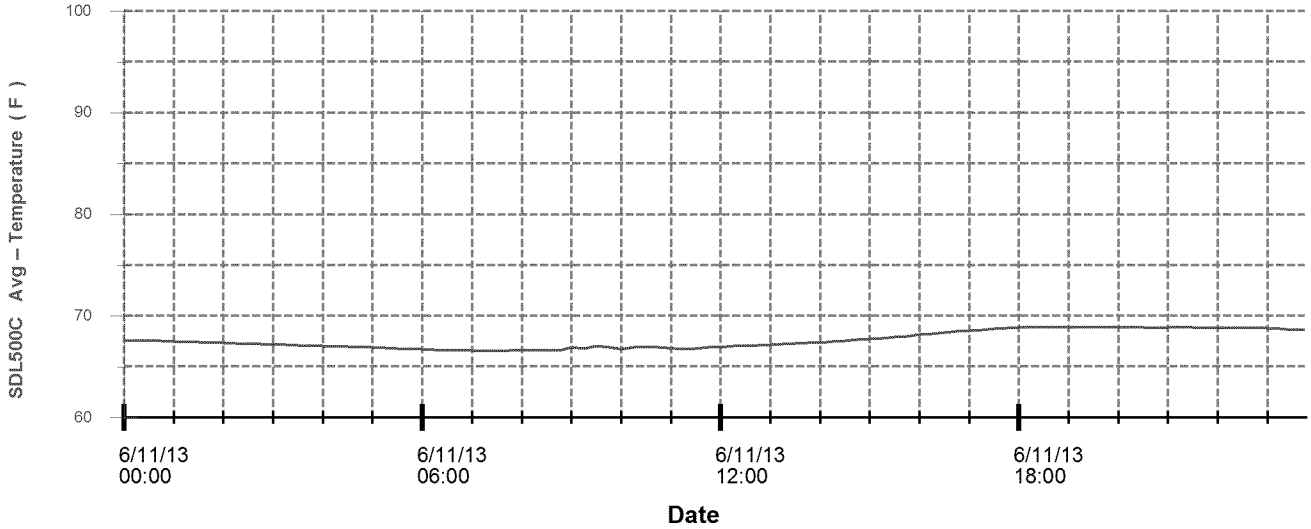


Buoy 4 - pH

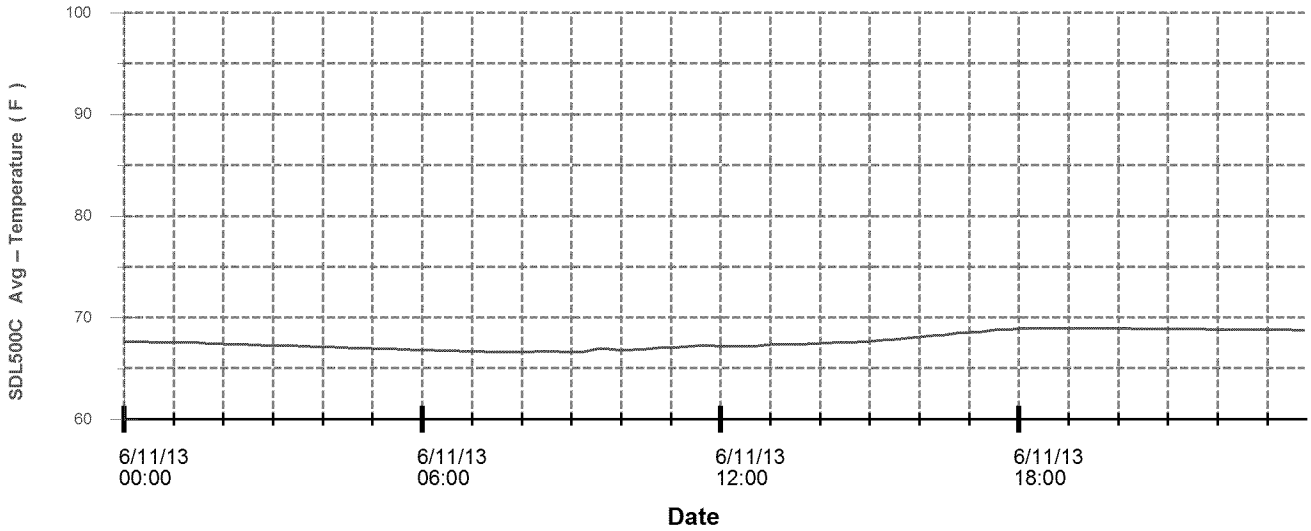


FOIA_07123_0004072_0006

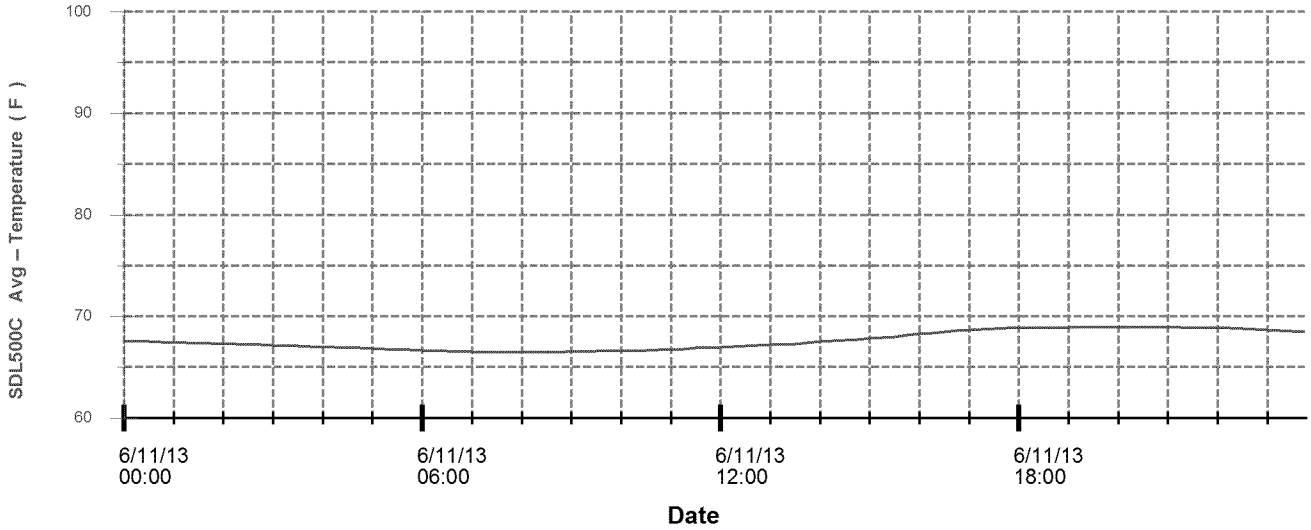
Buoy 2 - Water Temperature



Buoy 1 - Water Temperature

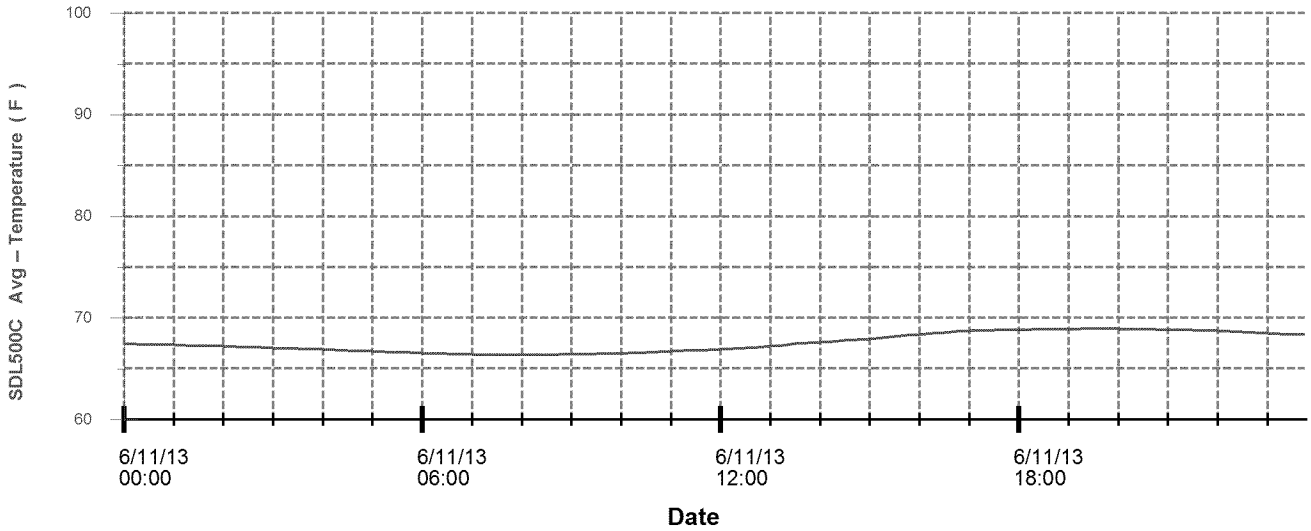


Buoy 3 - Water Temperature

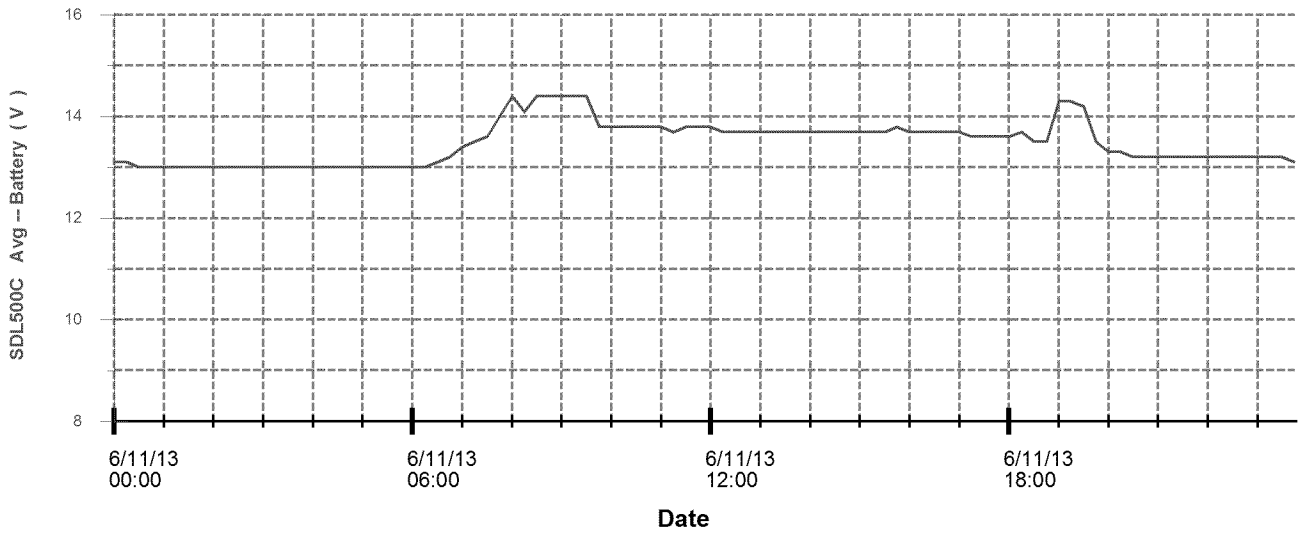


FOIA_07123_0004072_0007

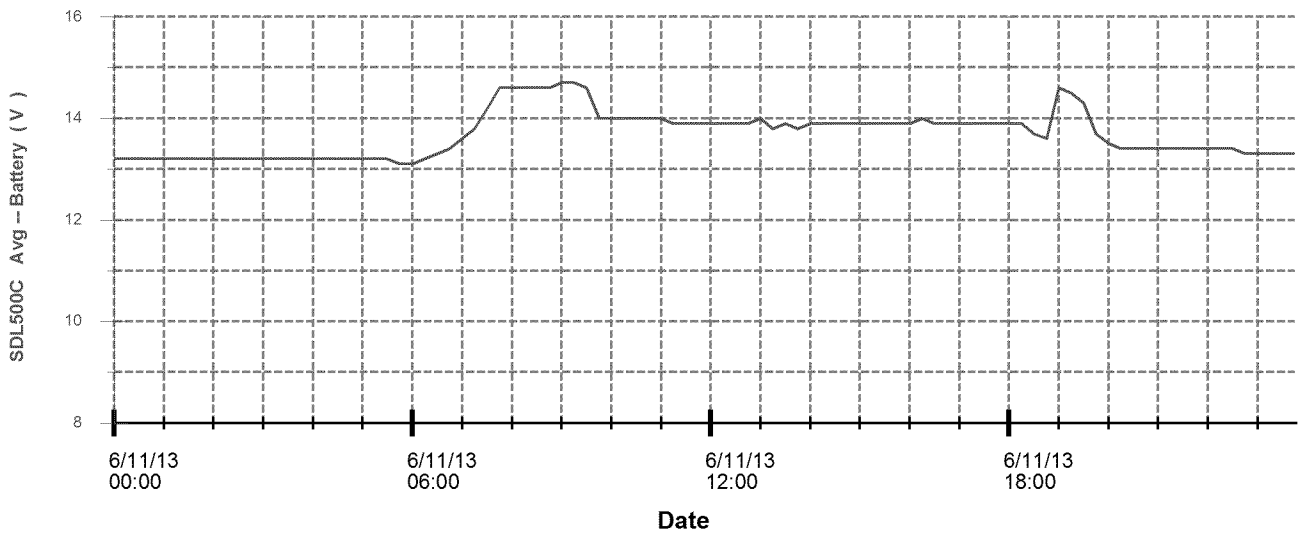
Buoy 4 - Water Temperature



Buoy 1 - Battery Voltage

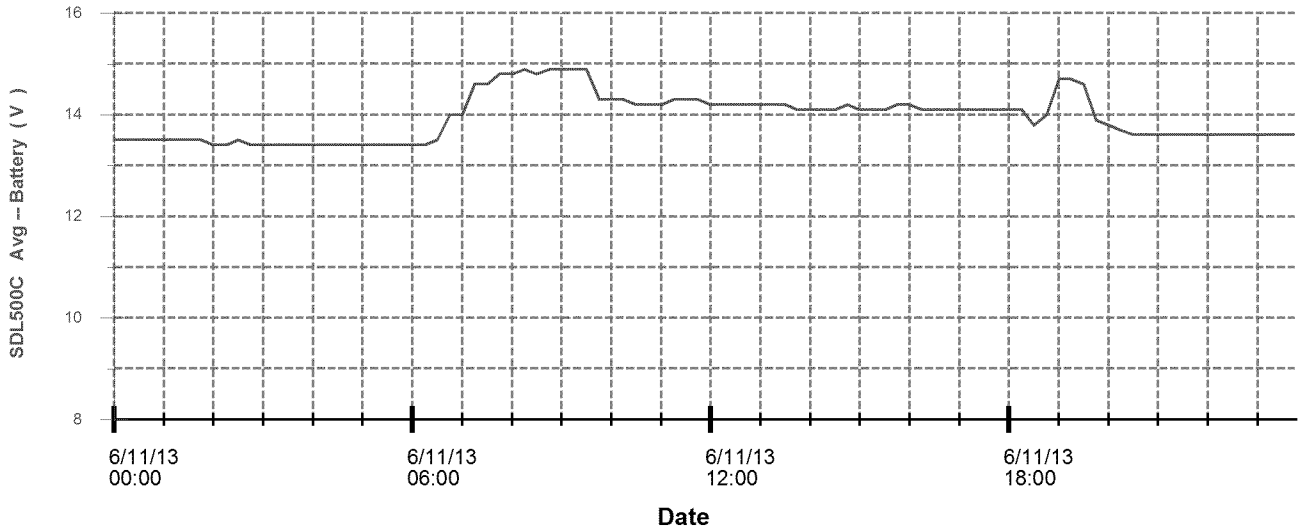


Buoy 2 - Battery Voltage

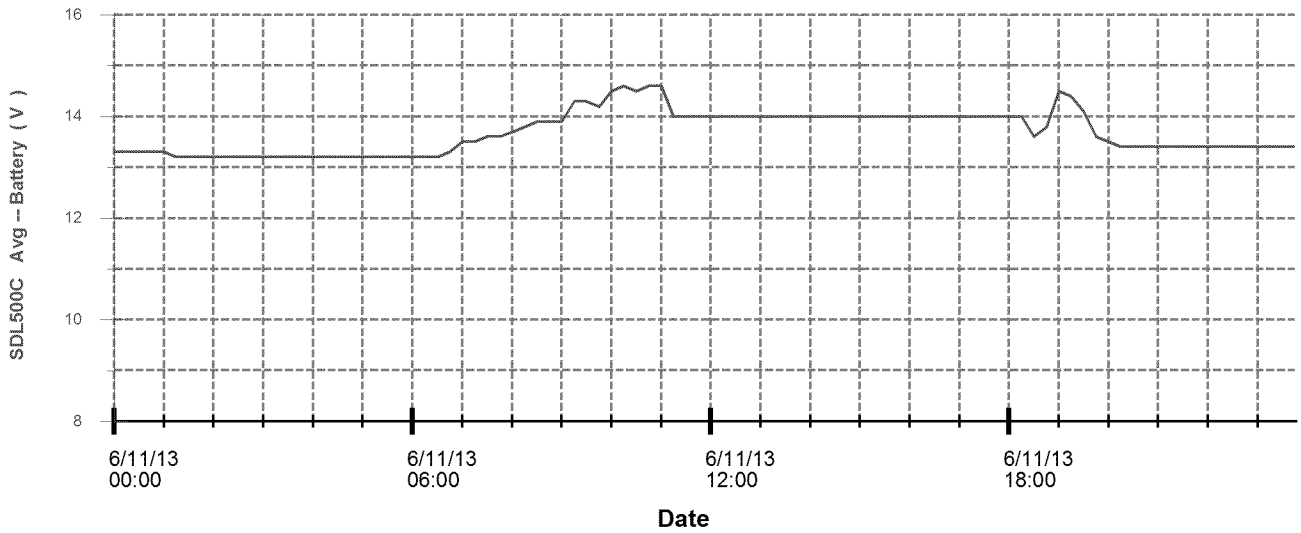


FOIA_07123_0004072_0008

Buoy 3 - Battery Voltage



Buoy 4 - Battery Voltage



FOIA_07123_0004072_0009