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	6/14/2013 Daily WQ Report
Site:	Lyndhurst, NJ	Author:	MJP

Device Profile:

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

Site Description:

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 Patria & Joe Miller
Weather
-Temp: 53-73 F
-Wind: 9 MPH N
-Sky: Rain

Statistical Summary

Parameter	Samples	Avg	Max	Min	Std
SDL500C					
Turbidity+ (NTU+)	96	52.65	715.60 6/14/2013 7:00:00 PM	9.90 6/14/2013 11:15:00 AM	87.91
Turbidity+ (NTU+)	96	26.39	41.20 6/14/2013 7:45:00 AM	12.20 6/14/2013 1:45:00 AM	6.10
Turbidity+ (NTU+)	96	14.02	30.50 6/14/2013 9:30:00 AM	5.80 6/14/2013 12:00:00 AM	5.28
Turbidity+ (NTU+)	96	15.33	24.90 6/14/2013 8:15:00 AM	7.00 6/14/2013 12:00:00 AM	4.06
pH	96	7.23	7.26 6/14/2013 3:00:00 AM	7.17 6/14/2013 12:00:00 AM	0.02
pH	96	7.33	7.35 6/14/2013 5:30:00 AM	7.28 6/14/2013 10:30:00 AM	0.02
pH	96	7.26	7.30 6/14/2013 4:00:00 AM	7.19 6/14/2013 11:15:00 AM	0.02

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Parameter	Samples	Avg	Max	Min	Std
pH	96	7.41	7.43 6/14/2013 2:15:00 PM	7.37 6/14/2013 8:00:00 AM	0.02
Temperature (F)	96	65.14	66.61 6/14/2013 12:15:00 AM	64.22 6/14/2013 10:00:00 AM	0.69
Temperature (F)	96	65.10	66.61 6/14/2013 12:00:00 AM	64.16 6/14/2013 10:00:00 AM	0.69
Temperature (F)	96	65.12	66.55 6/14/2013 12:00:00 AM	64.16 6/14/2013 9:30:00 AM	0.69
Temperature (F)	96	65.04	66.38 6/14/2013 12:00:00 AM	64.09 6/14/2013 9:15:00 AM	0.69
Battery (V)	96	13.5	14.6 6/14/2013 10:45:00 AM	12.8 6/14/2013 6:00:00 AM	0.6
Battery (V)	96	13.7	14.9 6/14/2013 11:00:00 AM	13.0 6/14/2013 1:45:00 AM	0.6
Battery (V)	96	13.9	15.0 6/14/2013 11:15:00 AM	13.2 6/14/2013 6:00:00 AM	0.5
Battery (V)	96	13.7	14.9 6/14/2013 11:15:00 AM	13.0 6/14/2013 3:00:00 AM	0.6

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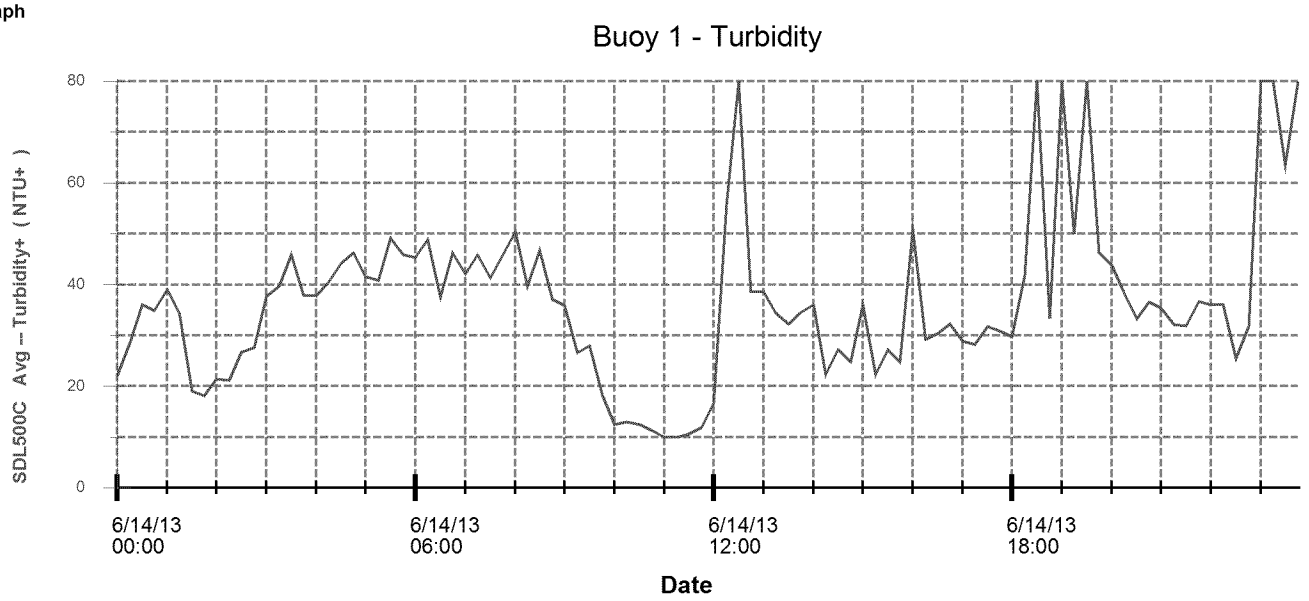
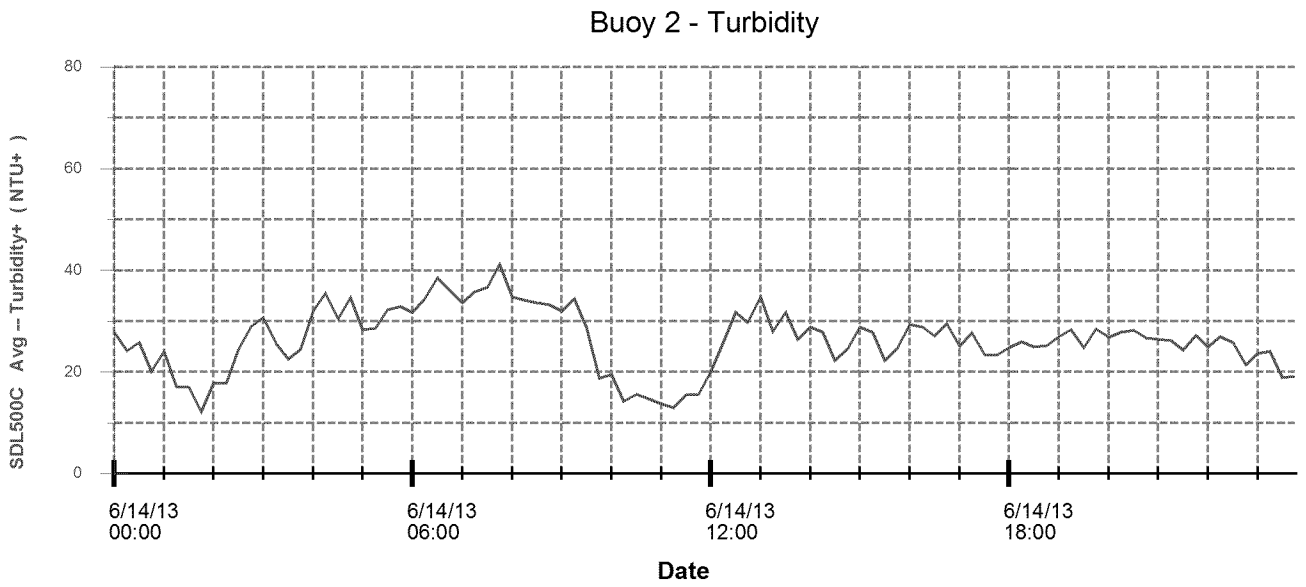
Data Graph





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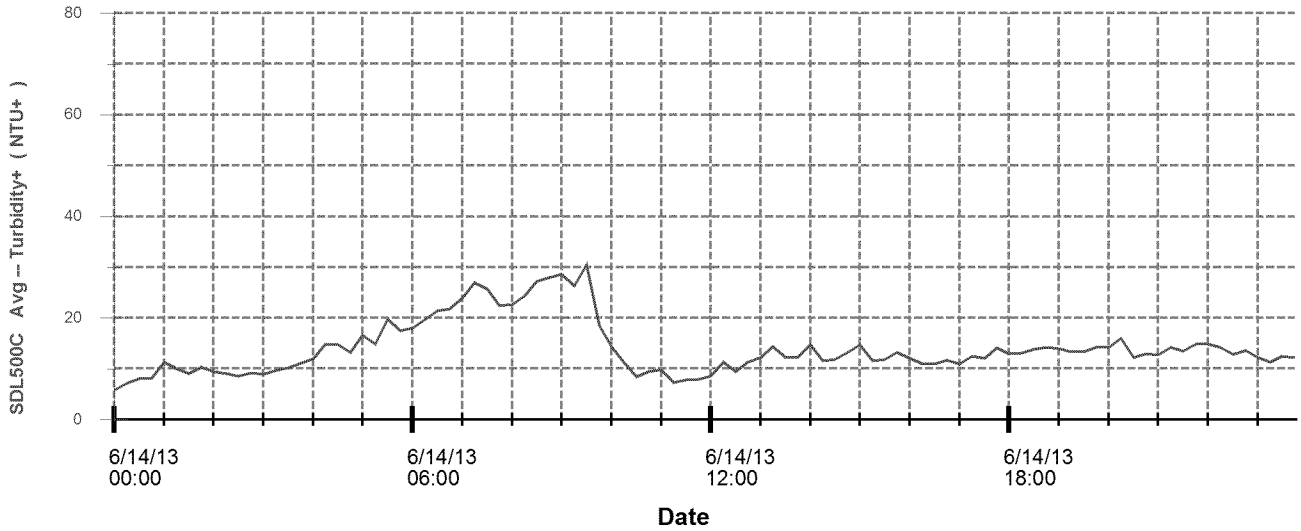
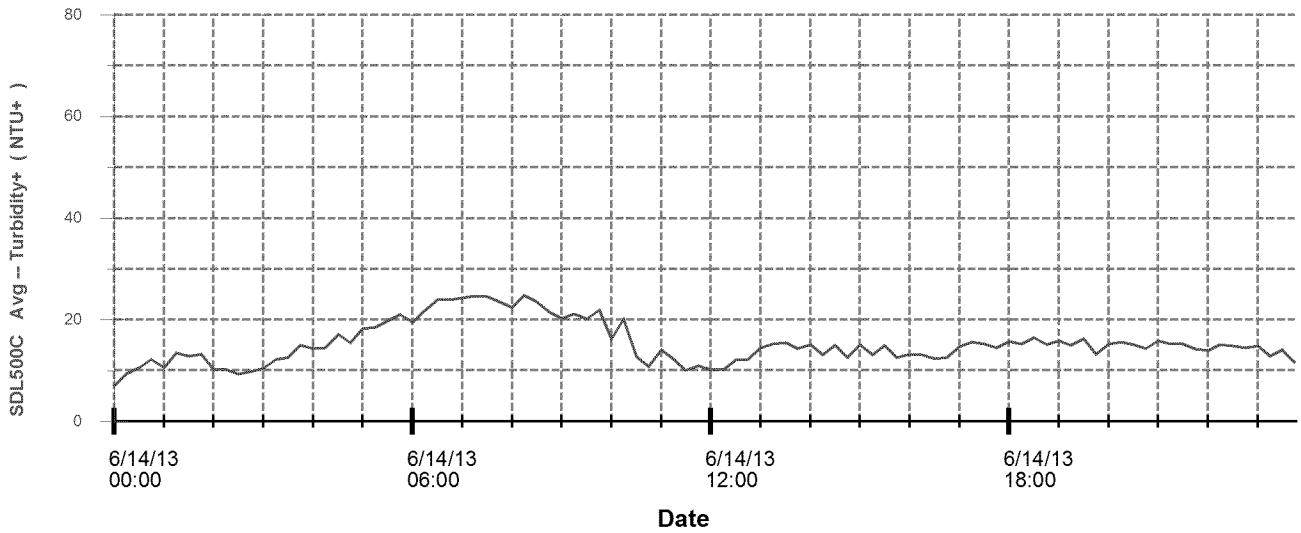
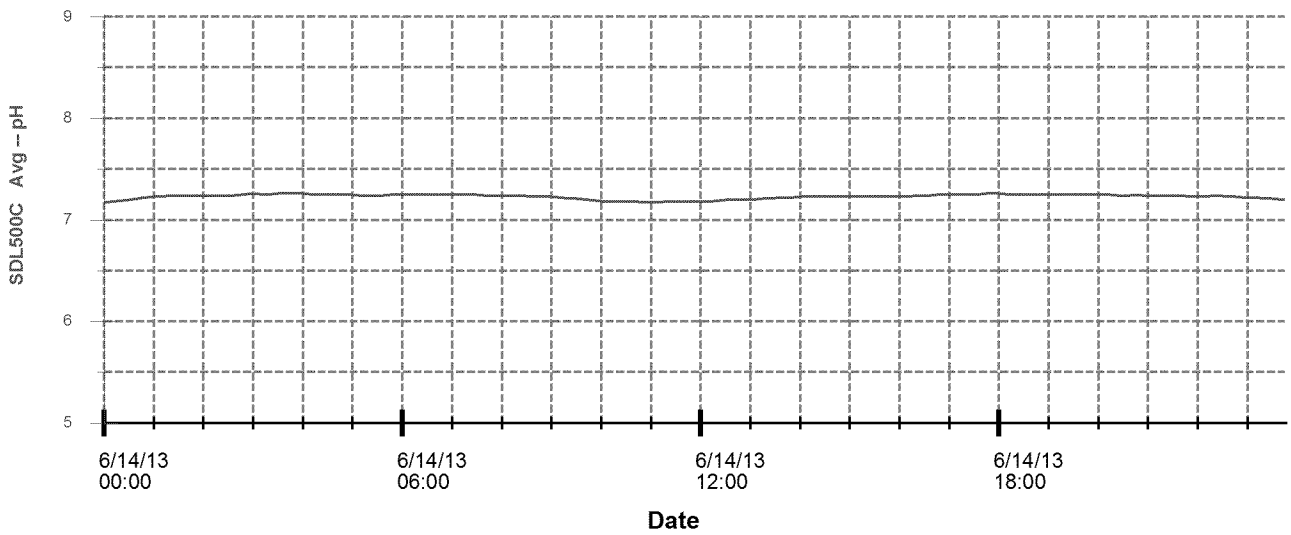
Buoy 3 - Turbidity



Buoy 4 - Turbidity



Buoy 1 - pH



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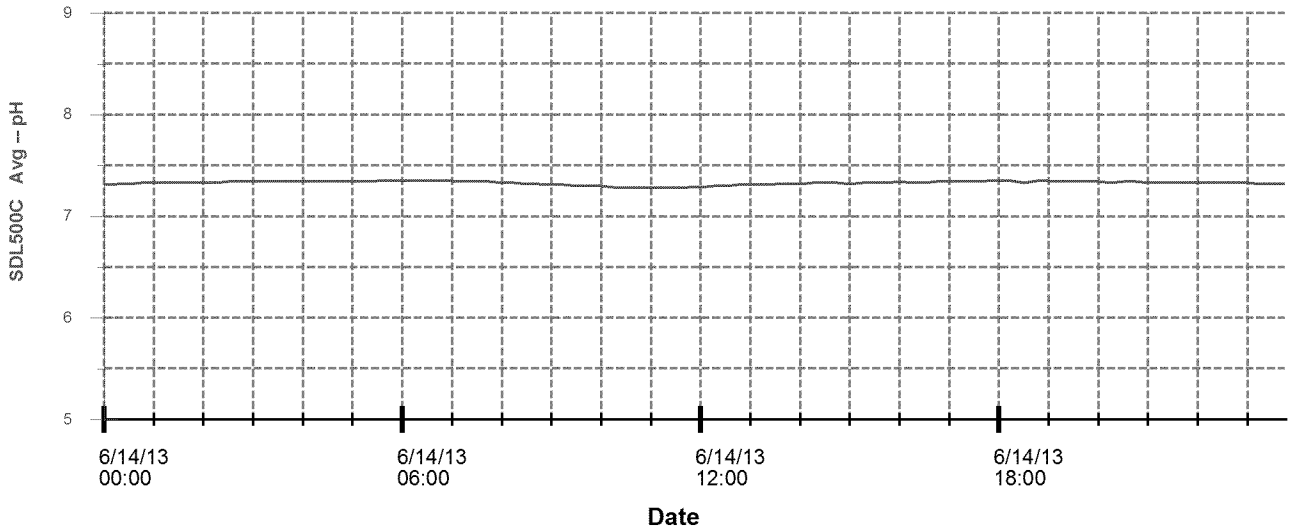
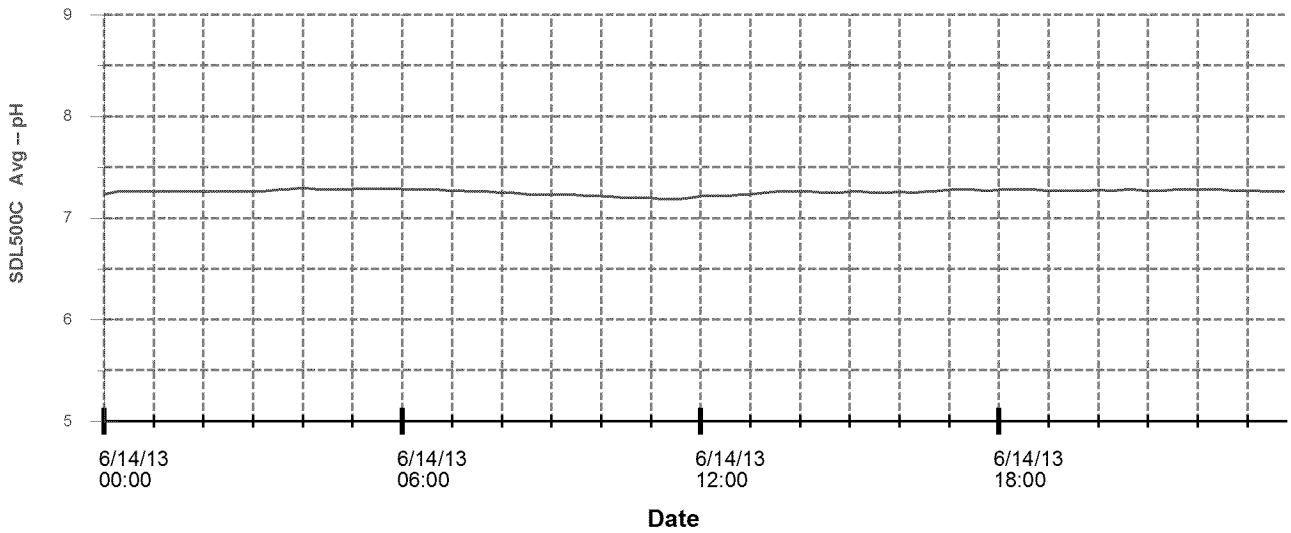
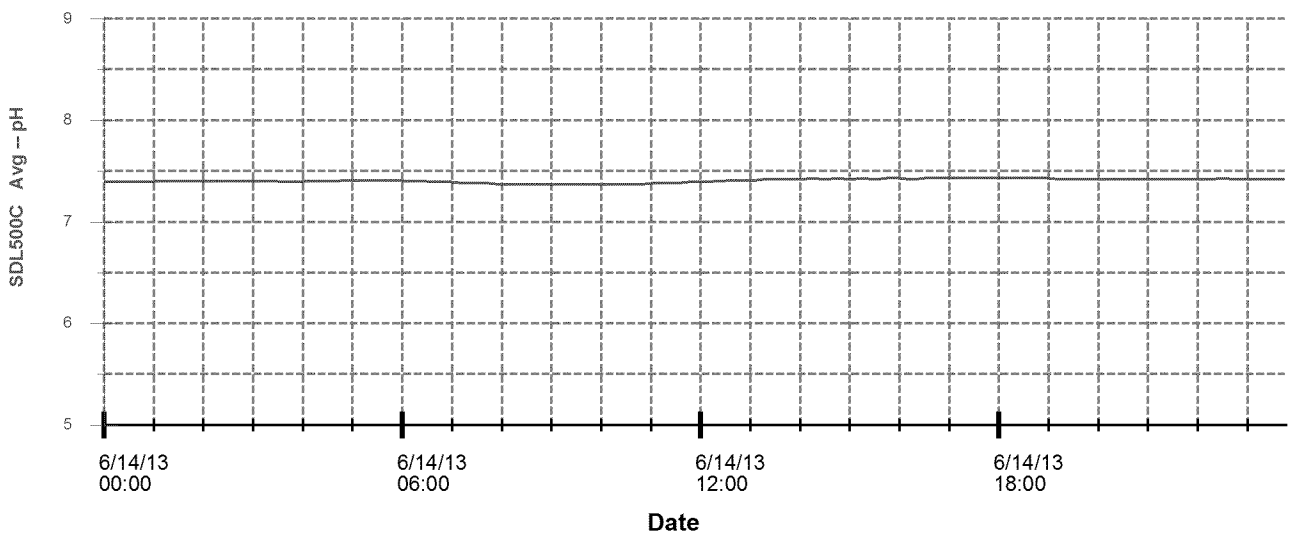
Buoy 2 - pH



Buoy 3 - pH



Buoy 4 - pH



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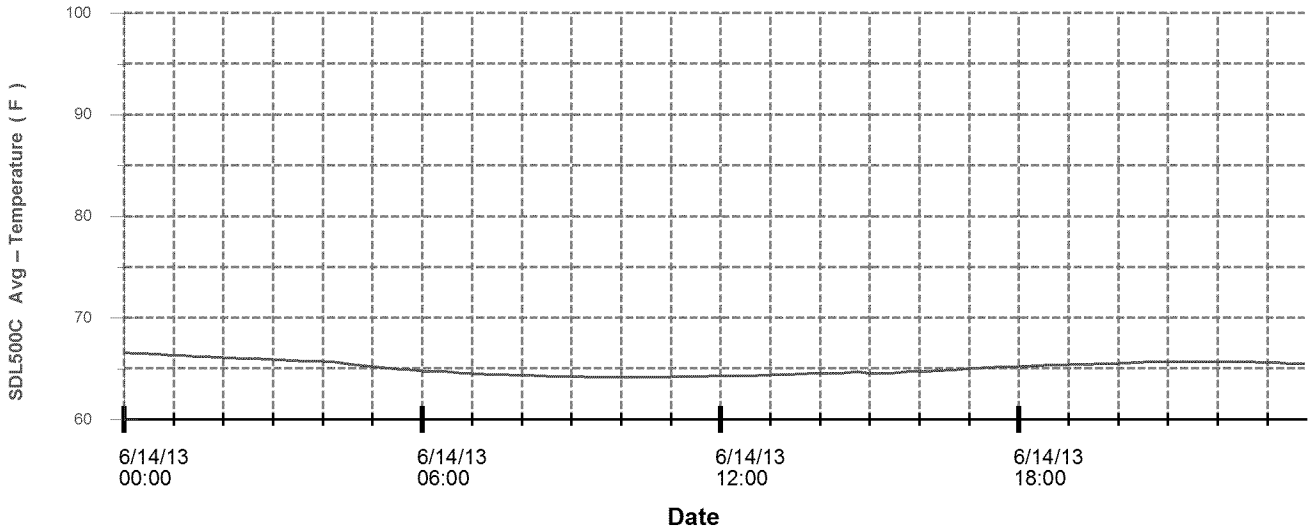
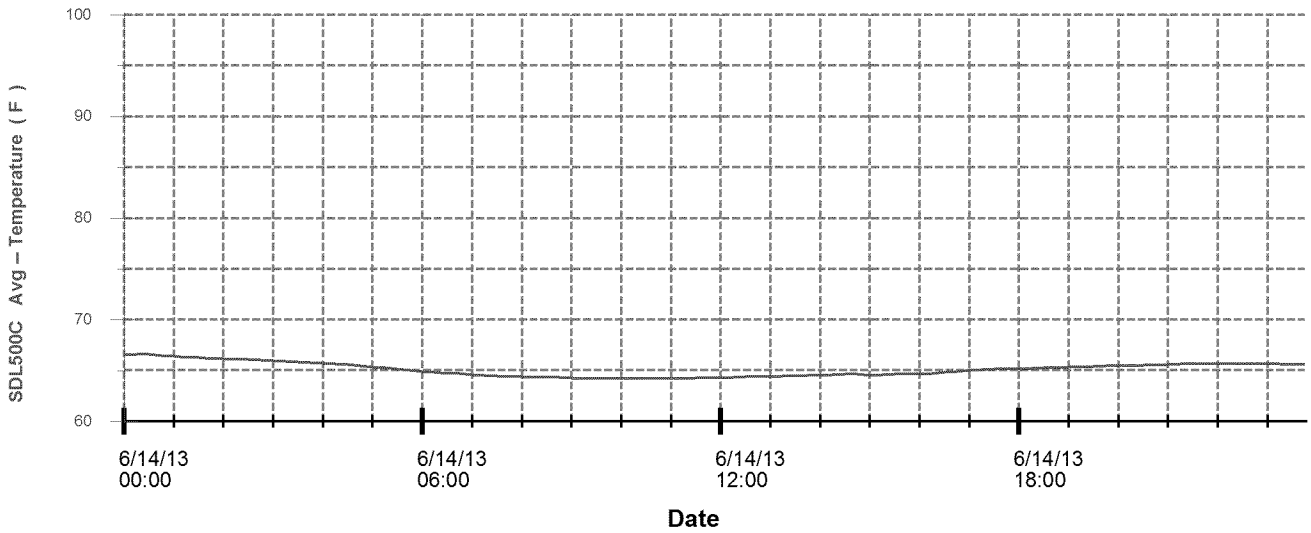
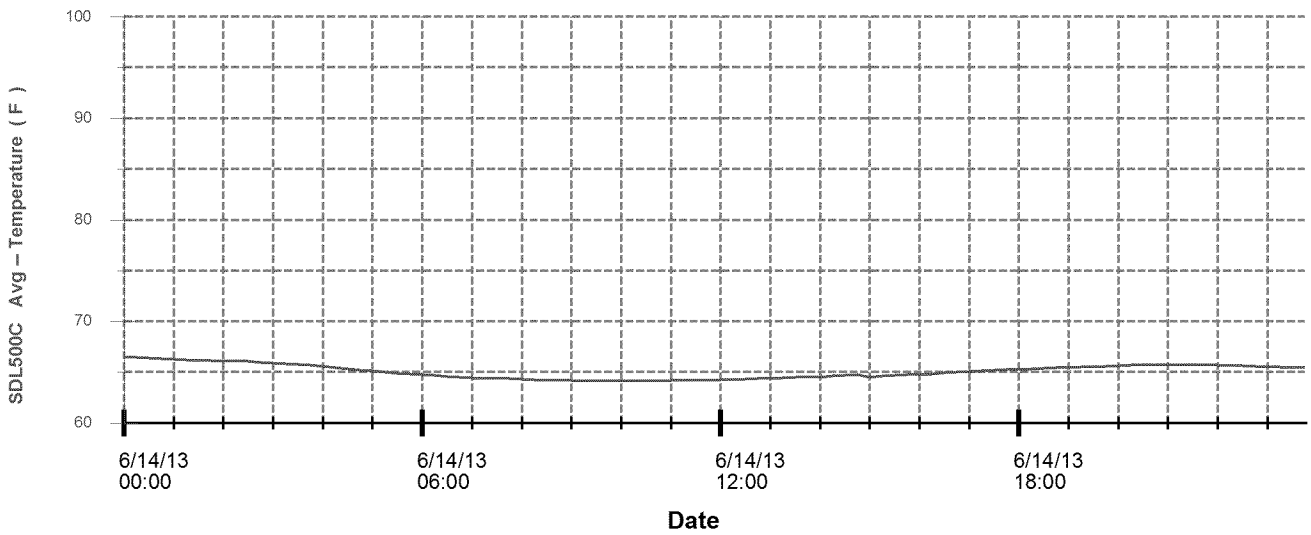
Buoy 2 - Water Temperature



Buoy 1 - Water Temperature



Buoy 3 - Water Temperature



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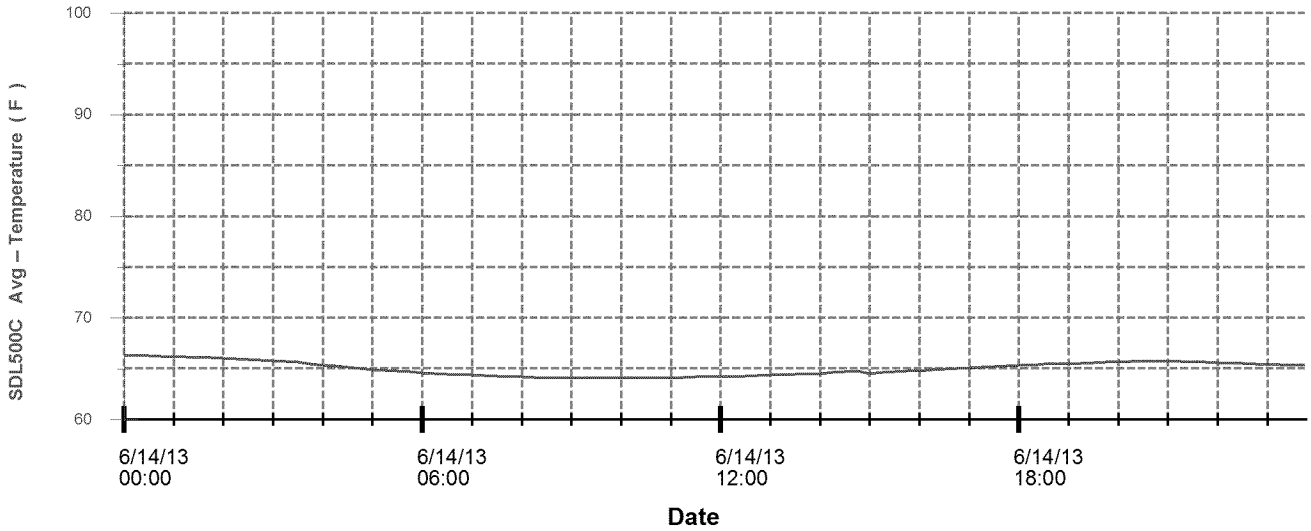
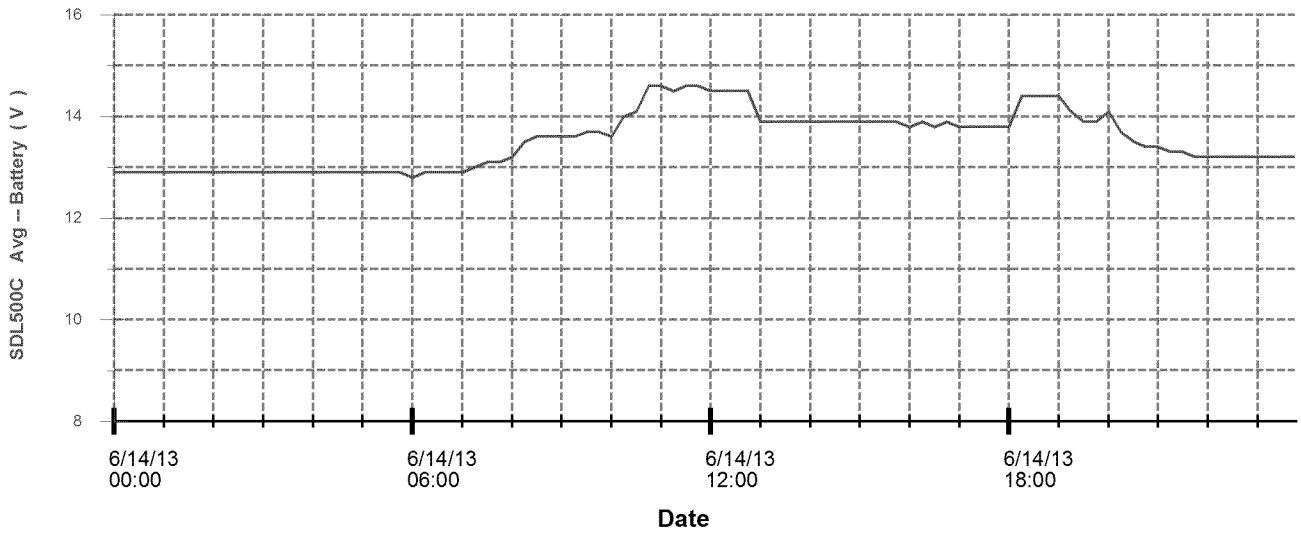
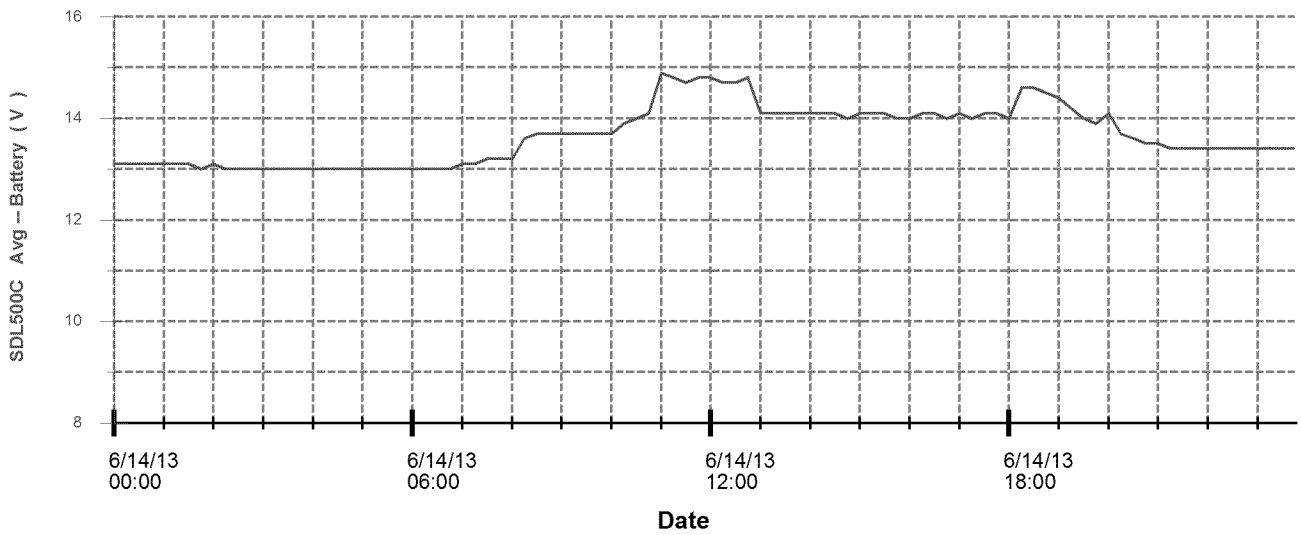
Buoy 4 - Water Temperature



Buoy 1 - Battery Voltage



Buoy 2 - Battery Voltage



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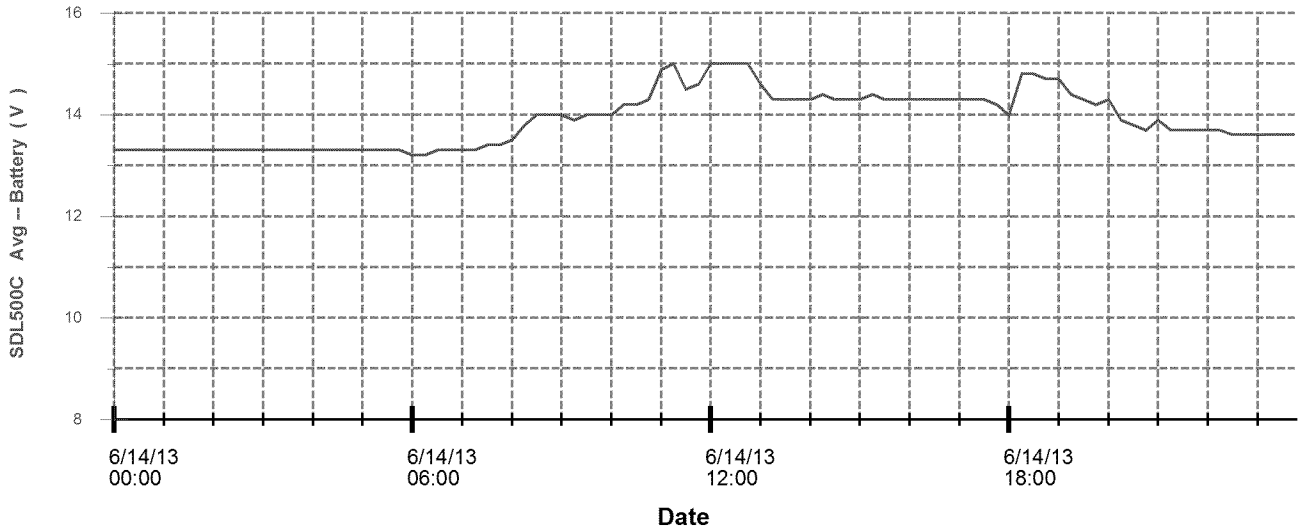
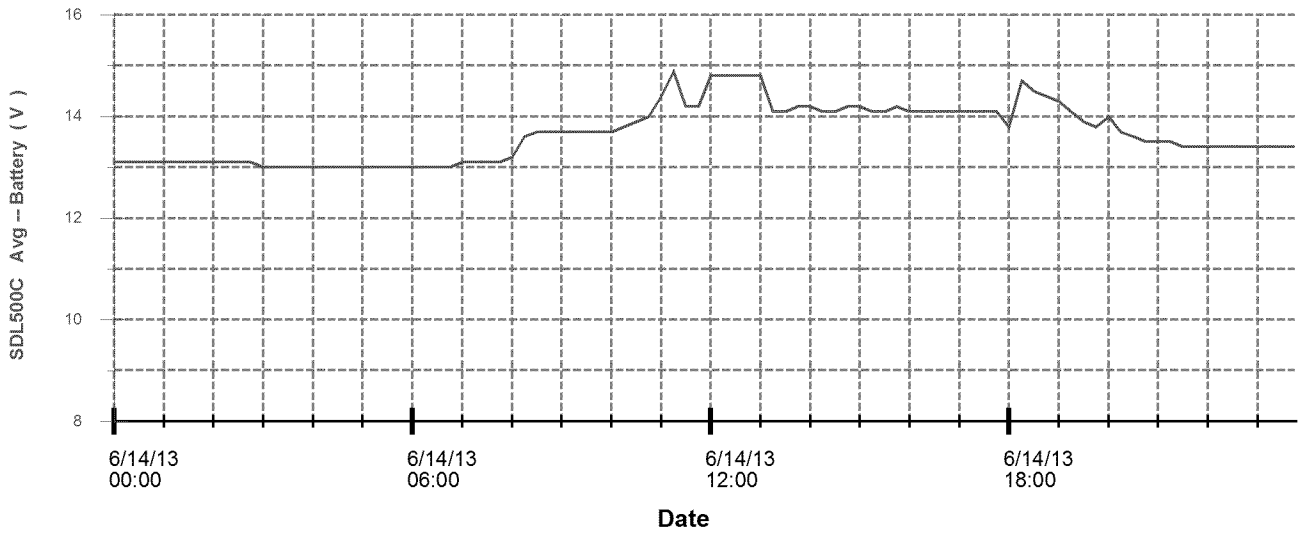
Buoy 3 - Battery Voltage



Buoy 4 - Battery Voltage



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