

Rocky Branch Monitoring Sites

Data Gaps

- The ROCA station experienced two periods of turbidity fouling during this deployment.

SCDHEC Standards

- The ROCA and ROCB stations recorded average DO concentrations of 7.1 and 8.3 mg/L, respectively, well above the SCDHEC daily average minimum standard of 5 mg/L. The instantaneous DO concentration at the ROC stations did not fall below the minimum instantaneous standard of 4 mg/L; however, the ROCA station did experience DO levels as low as 4.0 mg/L.
- Neither the upper nor the lower pH standard was contravened at either of the Rocky Branch monitoring stations during this deployment period.

Storm Events

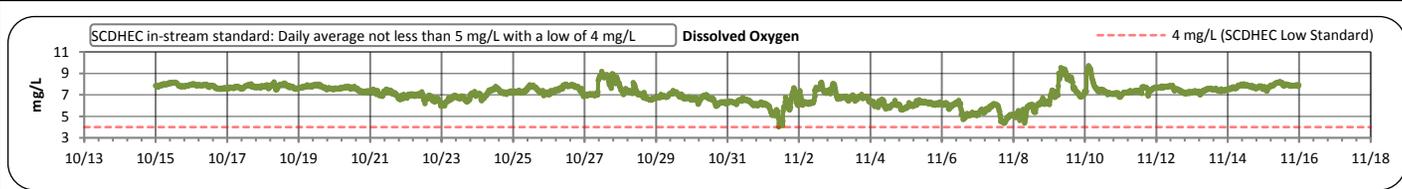
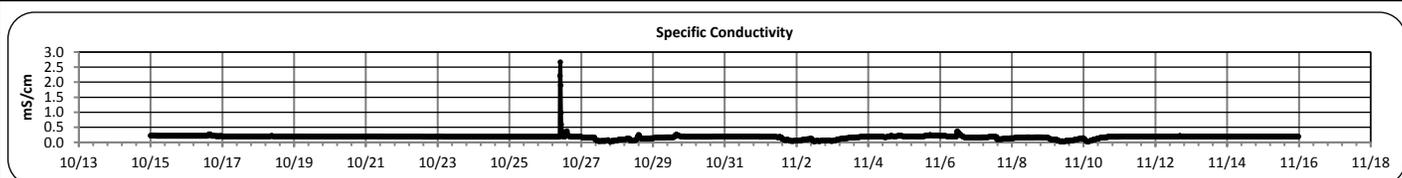
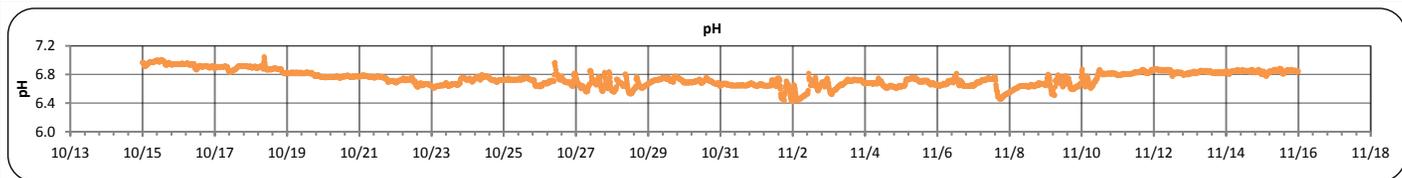
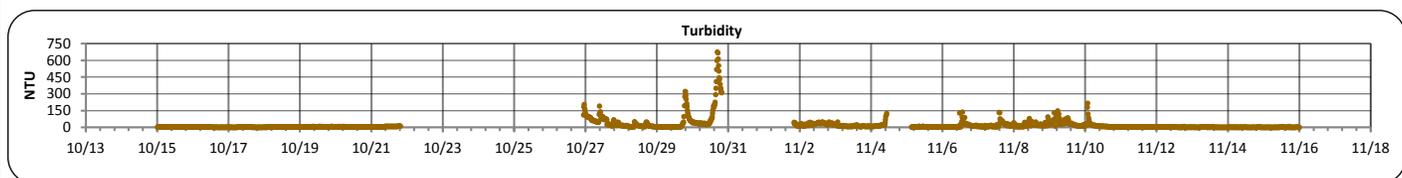
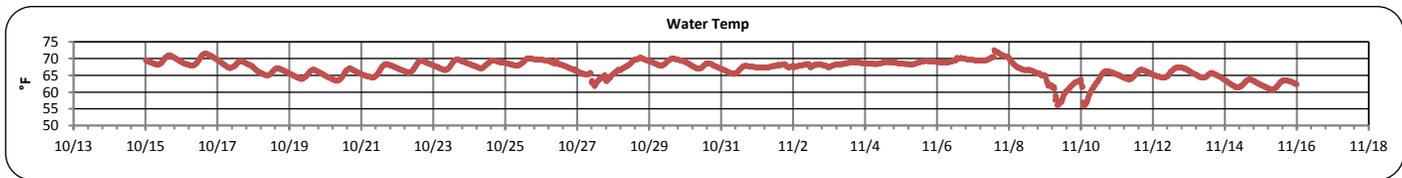
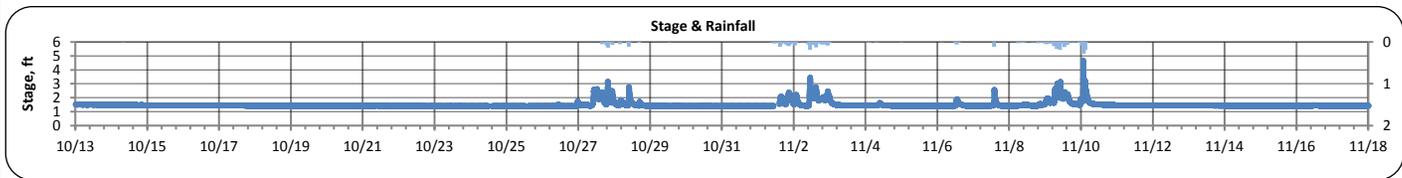
- Several small storm events were recorded during this monitoring period. It should be noted that the ROCA rain gage was clogged at the beginning of the October 27th rainfall event, so the total for this event is underreported at this station.
- The ROCB rain gage recorded 4.8 inches of rain over the course of this monitoring period with the highest storm total being 1.07 inches, recorded on November 9th.

Potential Illicit Discharges and Abnormal Events

- At ROCA, five potential illicit discharges were recorded. These events caused increased specific conductivity levels.
 - On October 26th, one of these events caused an extreme increase in specific conductivity.
 - The five other events caused very slight fluctuations in specific conductivity levels.
- At ROCB, 10 increases in specific conductivity were noted. These occurred on October 19th-20th, 21st, 25th, 25th-26th, and 30th-31st, and November 3rd, 4th, 12th-13th, and 15th-16th.

Rocky Branch A (October 13, 2015 -- November 17, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	1.4	4.7	1.4	1.5	0.2
LOCATION:	Maxcy Gregg Park	TEMPERATURE (°F):	56	73	68	67	3
ADDRESS:	1650 Park Circle Columbia, SC 29201	TURBIDITY (NTU):	1	676	7	20	49
COORDINATES:	34.995864, -81.021842	pH:	6.4	7.1	6.7	6.7	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	2.668	0.190	0.178	0.082
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.0	9.7	7.2	7.1	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.1 inches						
TOTAL RAINFALL (FOR PERIOD):	4.5 inches						



Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

**Continuous Water Quality
Monitoring Periodic Report**

Rocky Branch A (October 13, 2015 -- November 17, 2015)

Explanation of Statistics:

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

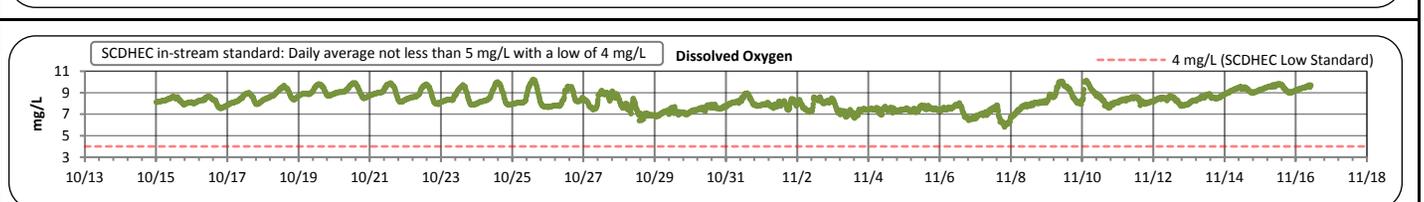
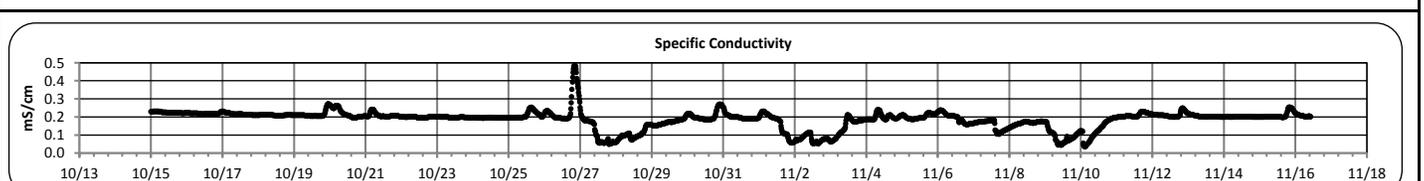
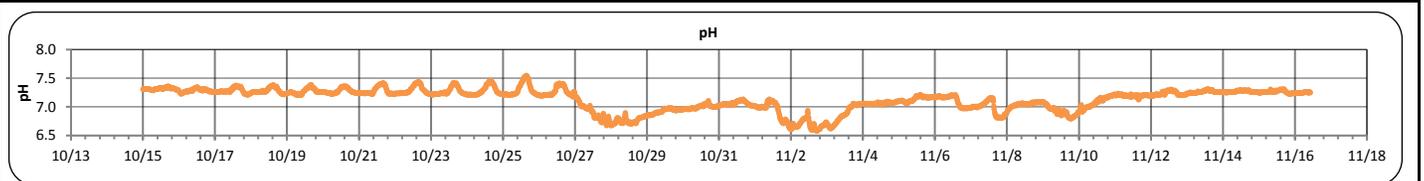
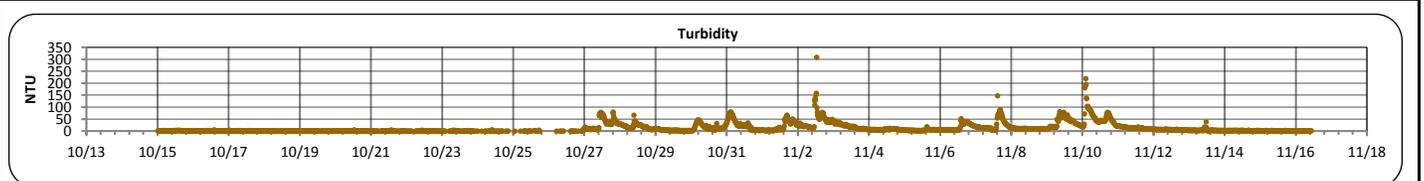
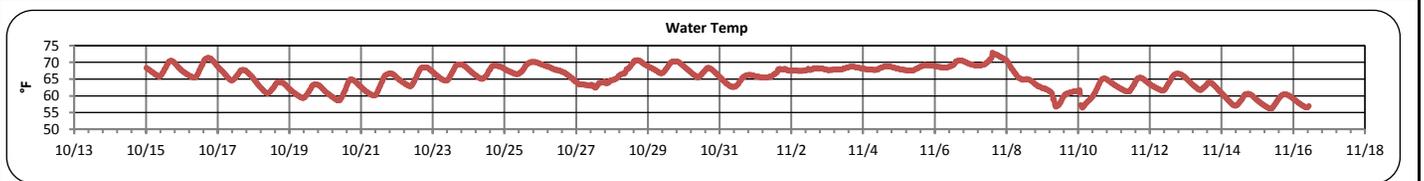
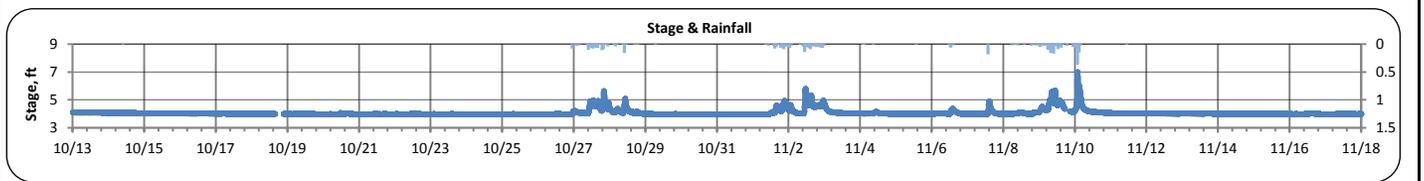
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: The rain gauge at this station was clogged for a portion of this reporting period. The rain gauge was cleaned on 10/27/2015.

Rocky Branch B (October 13, 2015 -- November 17, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	4.0	7.0	4.0	4.1	0.2
LOCATION:	Olympia Ave Crossing	TEMPERATURE (°F):	56	73	66	65	4
ADDRESS:	510 Heyward St Columbia, SC 29201	TURBIDITY (NTU):	1	308	4	12	20
COORDINATES:	33.982578, -81.035036	pH:	6.6	7.6	7.2	7.1	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.036	0.485	0.2	0.186	0.051
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.8	10.3	8.2	8.3	0.8
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	1.0 inches						
TOTAL RAINFALL (FOR PERIOD):	4.8 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

Rocky Branch B (October 13, 2015 -- November 17, 2015)

Explanation of Statistics:

MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The average of all the values recorded by the datasonde in 15 minute intervals.
STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: