

Rocky Branch Monitoring Sites

Data Gaps

- The Rocky Branch monitoring stations did not experience any submergence issues or periods of fouling during this monitoring period.

SCDHEC Standards

- The ROCA and ROCB stations recorded average DO concentrations of 7.7 and 8.2 mg/L, respectively. The DO levels observed at these two stations did not fall below either the daily average level of 5 mg/L or the instantaneous minimum standard of 4 mg/L.
- The pH standard was not violated at either of the Rocky Branch monitoring sites.

Storm Events

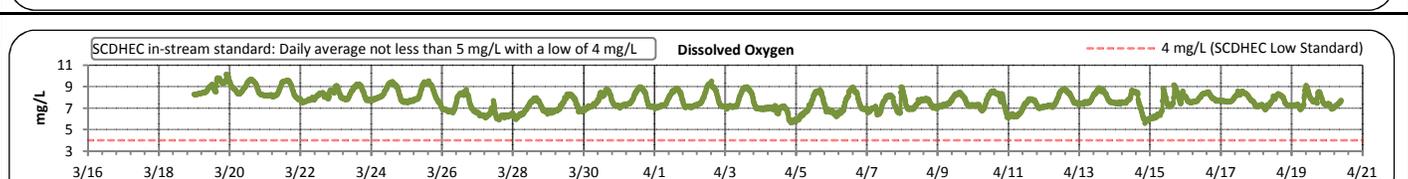
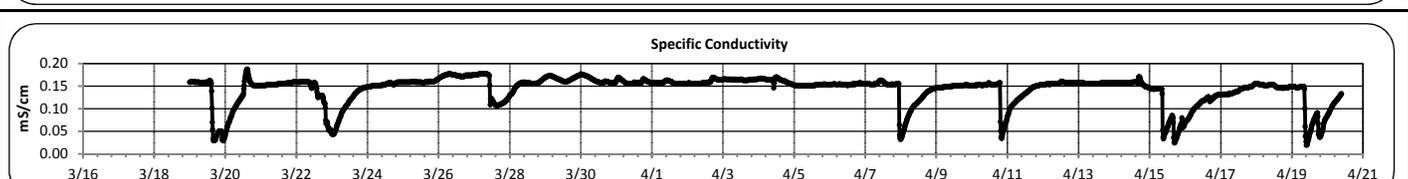
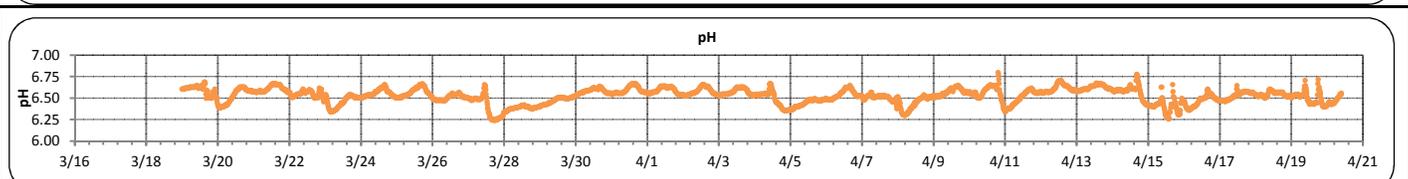
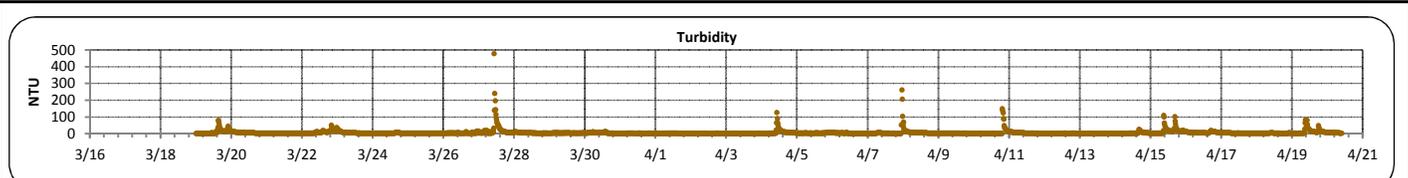
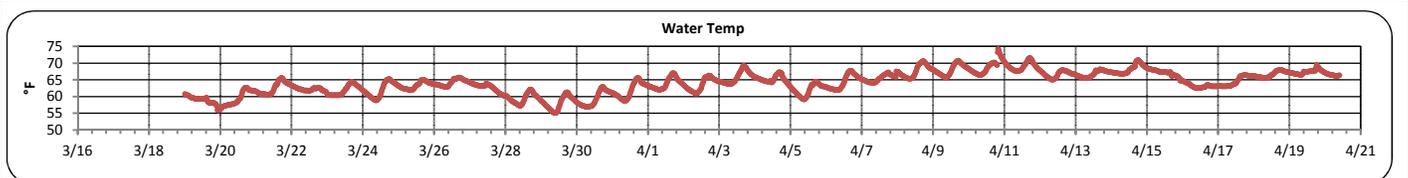
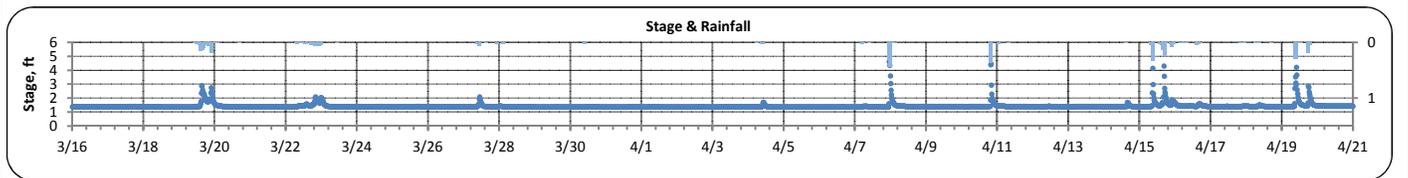
- The ROCA and ROCB rain gages both recorded 10 and 8 storm events, respectively.
- The most significant storm event occurred on the evening of April 7th, 2015. The ROCA and ROCB stations measured 0.77 and 0.57 inches of rain, respectively.

Potential Illicit Discharges and Abnormal Events

- At ROCA, 5 potential illicit discharges were recorded:
 - 3 of the suspected illicit discharge events occurred during storm events, and may possibly have been related to sanitary sewer overflows. These occurred on March 20th, April 7th, and April 14th and caused both the specific conductivity and ammonium to increase.
 - 2 additional potential illicit discharge events were noted: On March 24th, turbidity and stage increased slightly, without any associated rainfall. On April 17th, over the course of only an hour, the DO dropped while the pH, ammonium, turbidity, and stage all increased slightly.
- At ROCB, a number of sporadic increases in specific conductivity levels were observed on March 15th, March 18th-19th, March 21st-22nd, March 24th-25th, March 27th, March 28th, March 30th-31st, April 1st, April 3rd-4th, April 6th-7th, April 10th, April 12th, and April 17th-18th. Additionally, on March 29th, a potential illicit occurred upstream of ROCB that caused the pH and turbidity in the stream to increase slightly.

Rocky Branch A (March 16, 2015 -- April 20, 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	5.8	1.4	1.4	0.2
LOCATION:	Maxcy Gregg Park	TEMPERATURE (°F):	55	74	64	64	3
ADDRESS:	1650 Park Circle Columbia, SC 29201	TURBIDITY (NTU):	1	479	3	7	16
COORDINATES:	34.995864, -81.021842	pH:	6.2	6.8	6.5	6.5	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.188	0.154	0.143	0.032
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.6	10.2	7.7	7.7	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	10						
MAX. DAILY RAINFALL:	1.0 inches						
TOTAL RAINFALL (FOR PERIOD):	4.8 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 (March 16, 2015 -- April 20, 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.

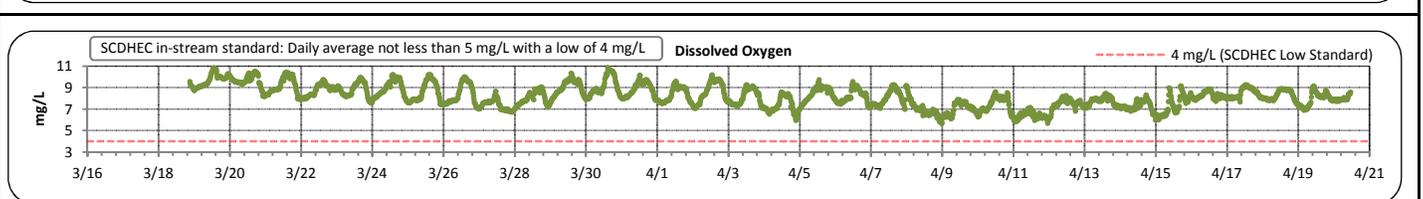
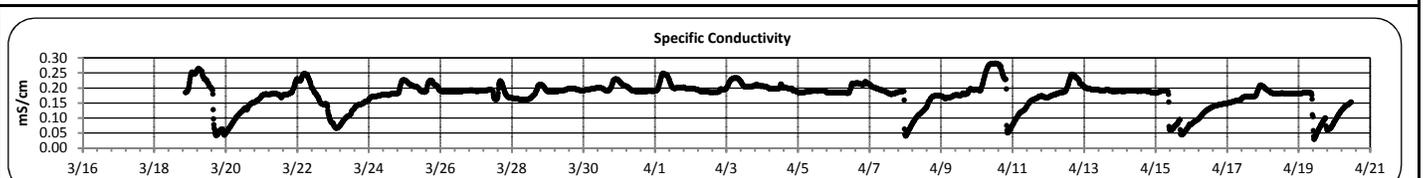
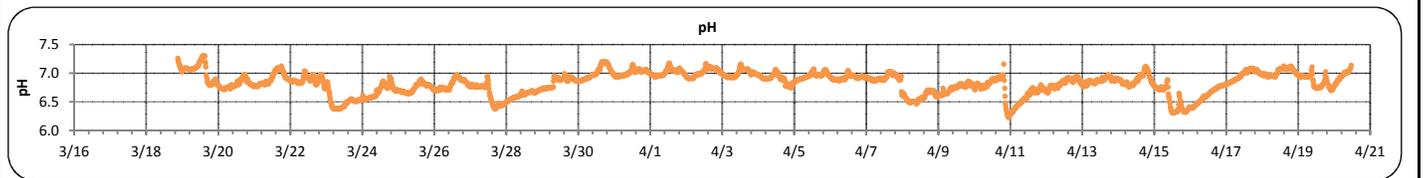
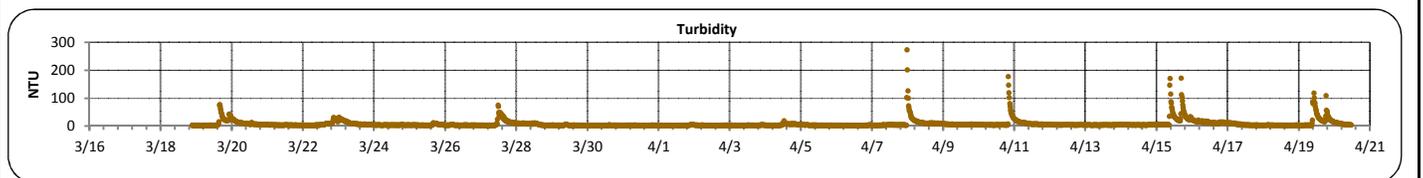
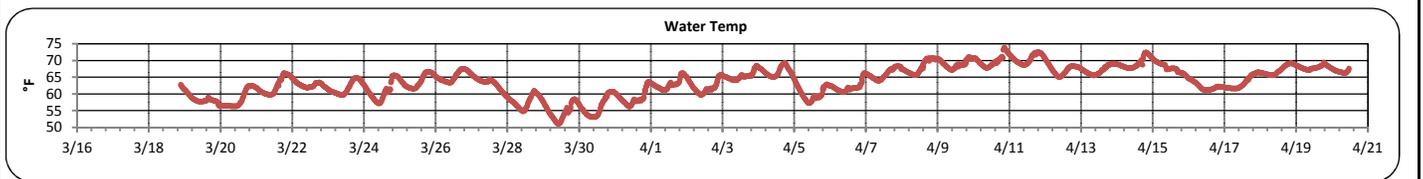
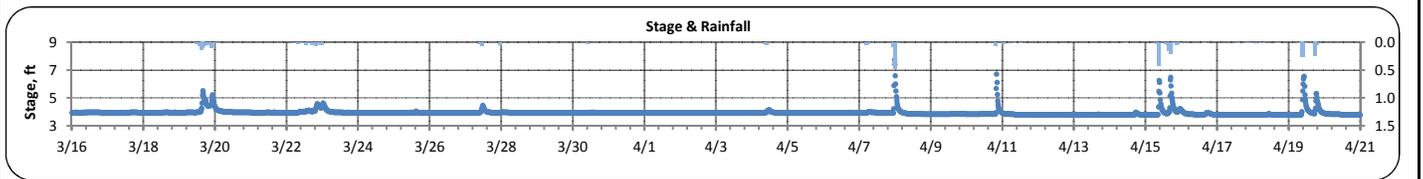
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3	
	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:

Rocky Branch B (March 16, 2015 -- April 20, 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):	3.8	7.7	3.9	3.9	0.2
LOCATION:	Olympia Ave Crossing	TEMPERATURE (°F):	51	74	64	64	4
ADDRESS:	510 Heyward St Columbia, SC 29201	TURBIDITY (NTU):	2	274	4	8	14
COORDINATES:	33.982578, -81.035036	pH:	6.2	7.3	6.9	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.030	0.283	0.188	0.176	0.045
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.7	10.9	8.1	8.2	1.0
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	1.0 inches						
TOTAL RAINFALL (FOR PERIOD):	4.0 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 B (March 16, 2015 -- April 20, 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	
	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: