City of Columbia, SC Stormwater Management — Partnering for clean waterways

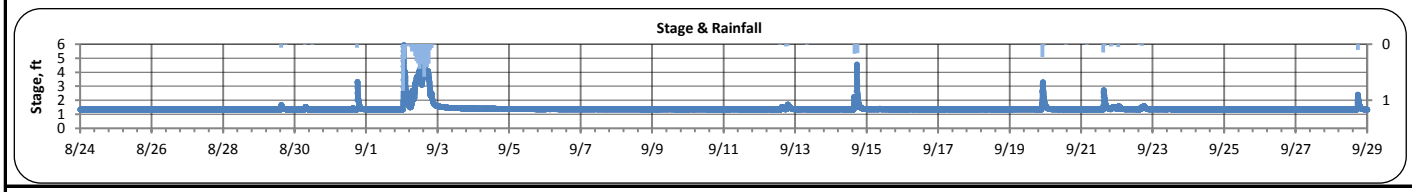
Continuous Water Quality Monitoring Periodic Report

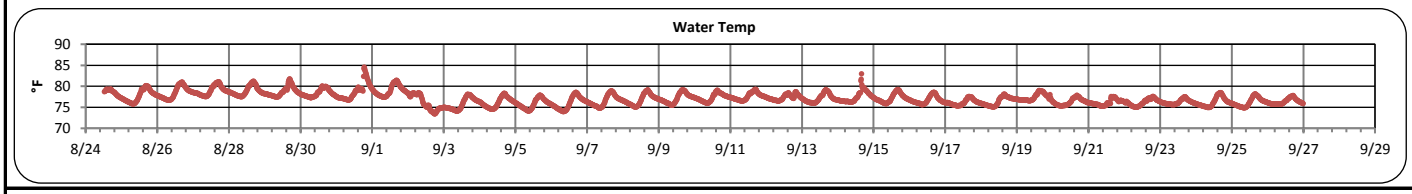
WOOLPERT

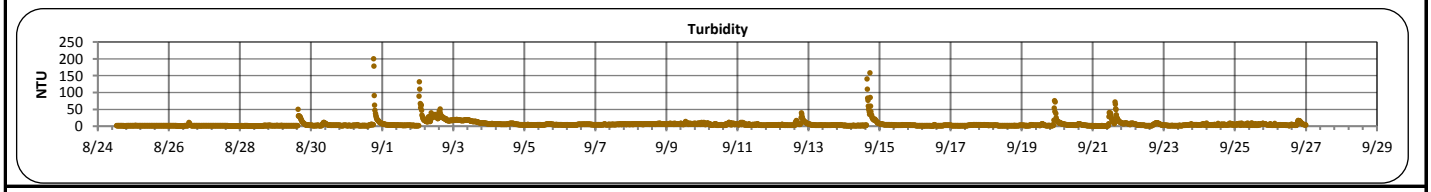
Rocky Branch A (August 24, 2016 -- September 28, 2016)

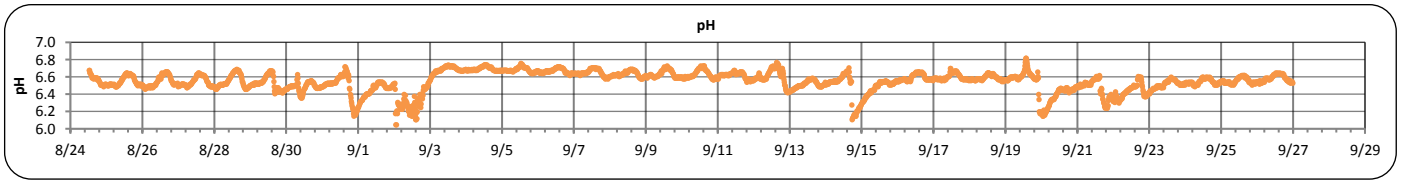
PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Maxcy Gregg Park
ADDRESS:	1650 Park Circle Columbia, SC 29201
COORDINATES:	34.995864, -81.021842
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	5
MAX. DAILY RAINFALL:	5.2 inches
TOTAL RAINFALL (FOR PERIOD):	6.6 inches

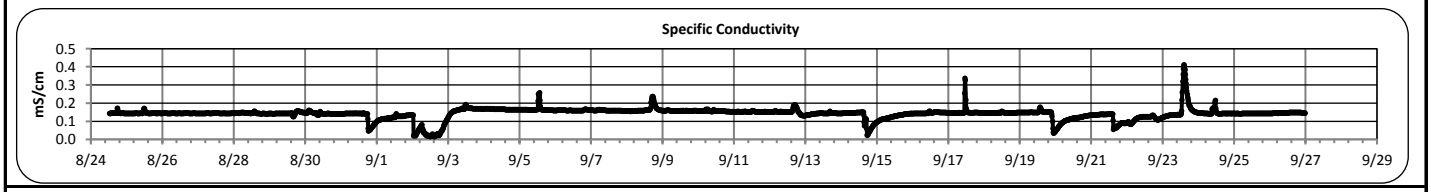
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.3	7.0	1.4	1.4	0.3
TEMPERATURE (°F):	73	85	77	77	2
TURBIDITY (NTU):	1	201	4	6	10
pH:	6.1	6.8	6.6	6.6	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.016	0.411	0.145	0.142	0.031
DISSOLVED OXYGEN (mg/L):	5.6	8.7	7.0	7.1	0.6

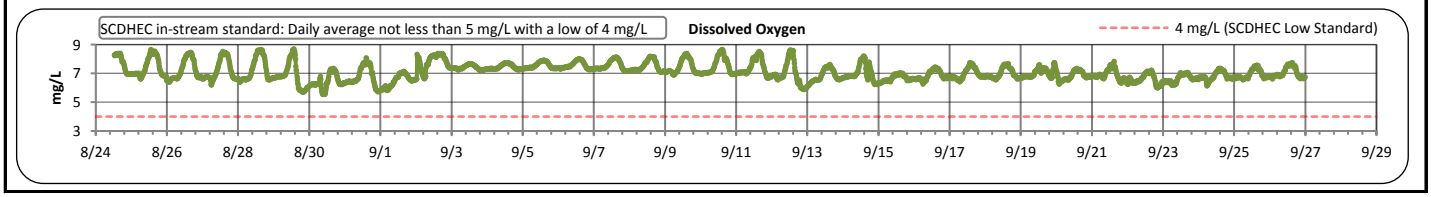












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 10/18/2016

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Monitoring Periodic Report

Rocky Branch A (August 24, 2016 -- September 28, 2016)

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	
	9/2/2016		9/2/2016		9/14/2016			
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	12:00	48,390	13:54	10,340	16:29	31,060		
Total Suspended Solids (mg/L)	12:00	57.8	13:54	36.2	16:29	52.2		
Total Phosphorus (mg/L)	12:00	0.096	13:54	0.086				
Total Nitrogen (mg/L)	12:00	0.49	13:54	0.56				

Note:

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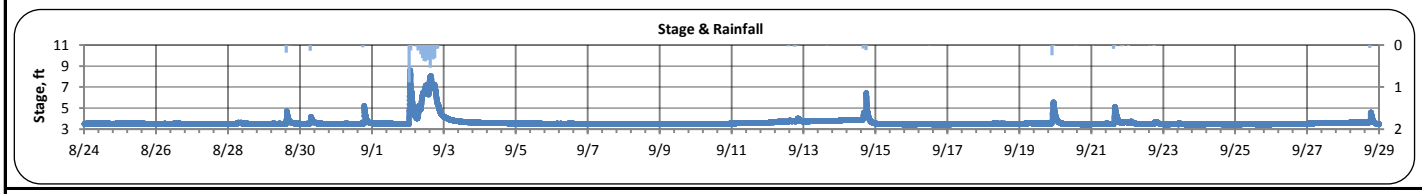
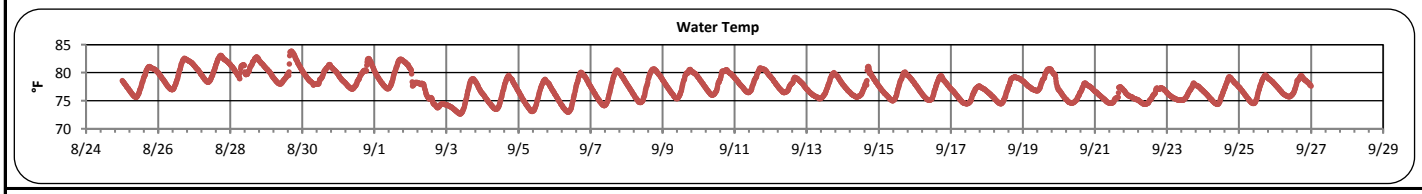
WOOLPERT

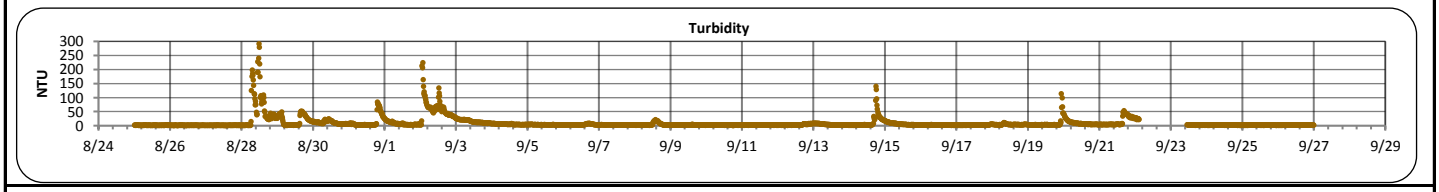
Rocky Branch B (August 24, 2016 -- September 28, 2016)

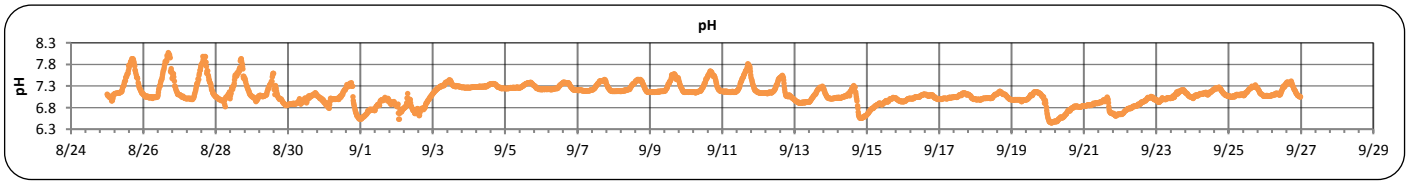
PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Olympia Ave Crossing
ADDRESS:	510 Heyward St Columbia, SC 29201
COORDINATES:	33.982578, -81.035036
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most Downstream Site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	4.9 inches
TOTAL RAINFALL (FOR PERIOD):	6.3 inches

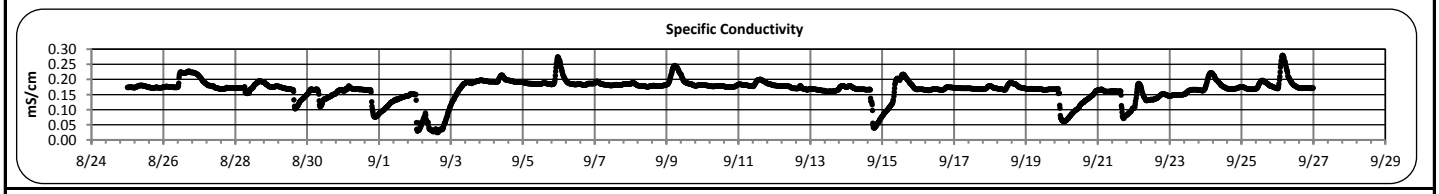
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	3.4	8.6	3.5	3.6	0.5
TEMPERATURE (°F):	73	84	78	78	2
TURBIDITY (NTU):	1	292	4	10	22
pH:	6.5	8.1	7.1	7.1	0.2
SPECIFIC CONDUCTIVITY (mS/cm):	0.025	0.280	0.173	0.166	0.036
DISSOLVED OXYGEN (mg/L):	4.6	9.7	7.4	7.5	0.8

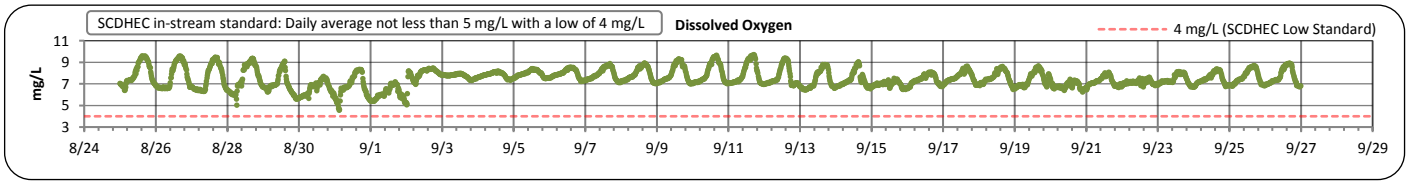












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Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	9/2/2016		9/2/2016					
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	12:15	10,950	14:10	12,980				
Total Suspended Solids (mg/L)	12:15	84.2	14:10	67.8				
Total Phosphorus (mg/L)	12:15	0.14	14:10	0.13				
Total Nitrogen (mg/L)	12:15	0.96	14:10	0.88				

Note:

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