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

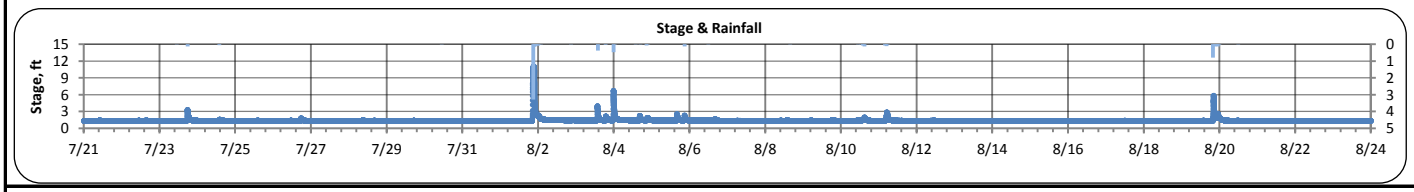
Continuous Water Quality Monitoring Periodic Report

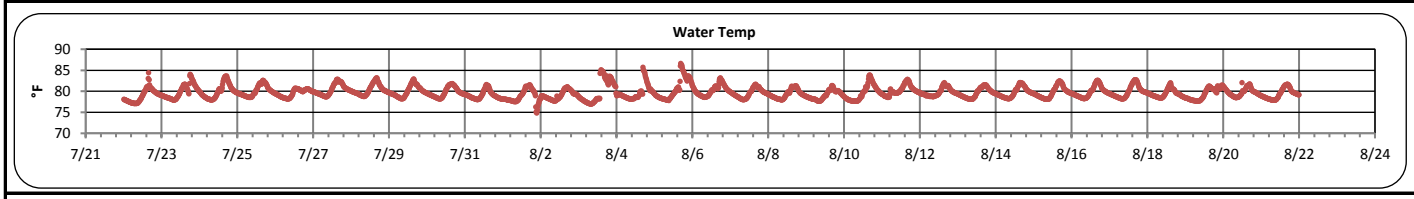
WOOLPERT

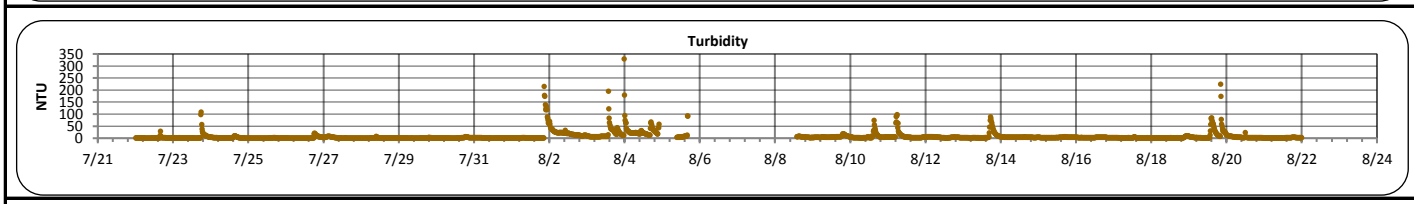
Rocky Branch A (July 21, 2016 -- August 23, 2016)

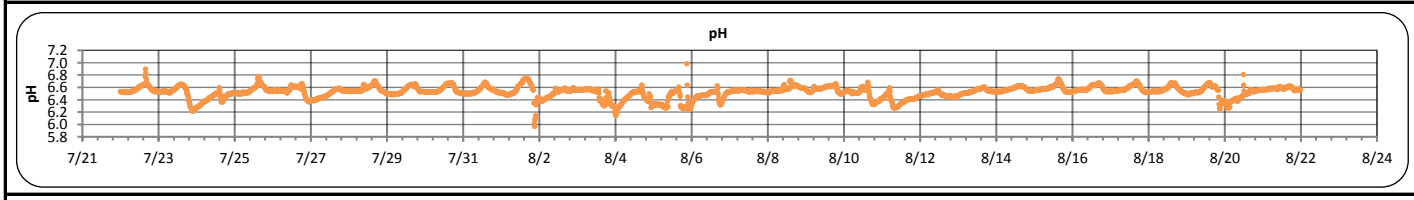
PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Maxcy Gregg Park
ADDRESS:	1650 Park Circle Columbia, SC 29201
COORDINATES:	34.995864, -81.021842
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	8
MAX. DAILY RAINFALL:	3.6 inches
TOTAL RAINFALL (FOR PERIOD):	6.6 inches

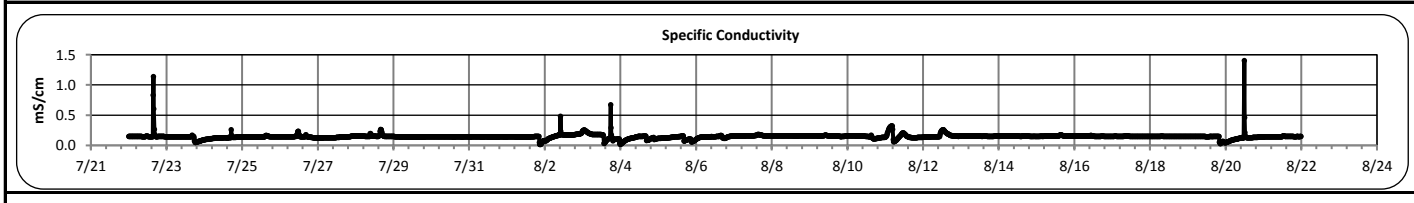
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.3	11.1	1.4	1.4	0.4
TEMPERATURE (°F):	75	87	79	80	1
TURBIDITY (NTU):	1	330	3	8	17
pH:	6.0	7.0	6.5	6.5	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.017	1.405	0.148	0.147	0.045
DISSOLVED OXYGEN (mg/L):	4.8	9.5	6.6	6.7	0.7

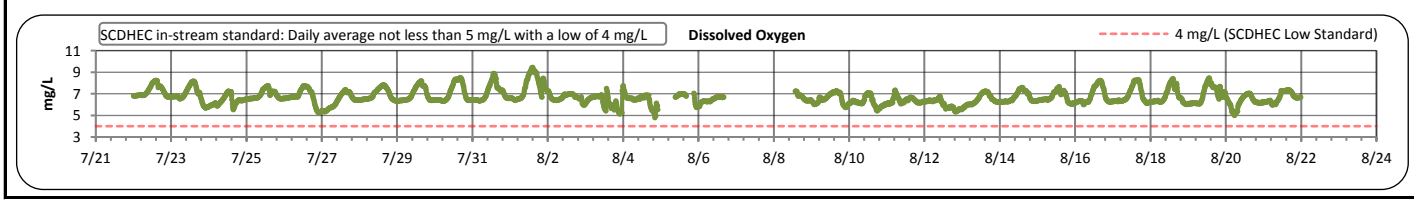












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 9/9/2016

Continuous Water Quality
Monitoring Periodic Report

Rocky Branch A (July 21, 2016 -- August 23, 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		Sample 5	
	7/26/2016		8/3/2016		8/3/2016		8/3/2016		8/3/2016	
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	10:03	218.0	13:09	2,034	13:21	34,660	13:33	16,330	13:44	39,730
Total Suspended Solids (mg/L)			13:09	93.4	13:21	463	13:33	278	13:44	201
Total Phosphorus (mg/L)			13:09	0.44	13:21	0.5	13:33	0.27	13:44	0.29
Total Nitrogen (mg/L)			13:09	1.95	13:21	4.14	13:33	3.33	13:44	3.82

Note: The sample collected on 7/26/2016 was collected during dry weather conditions.

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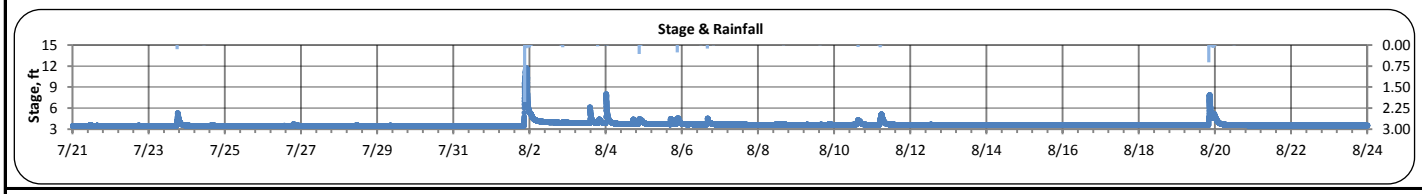
Continuous Water Quality Monitoring Periodic Report

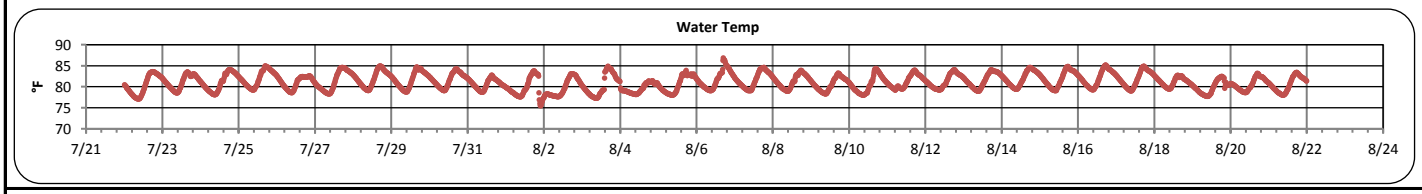
WOOLPERT

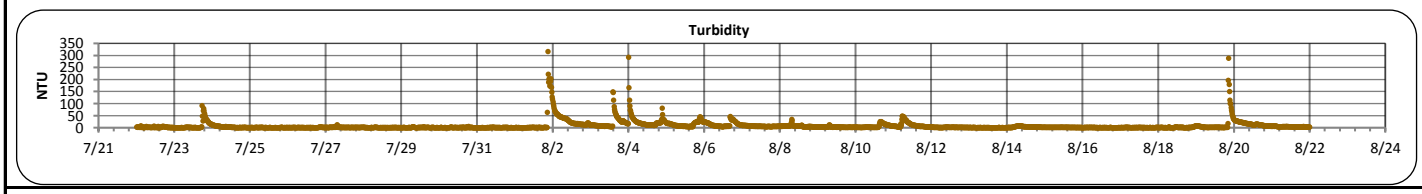
Rocky Branch B (July 21, 2016 -- August 23, 2016)

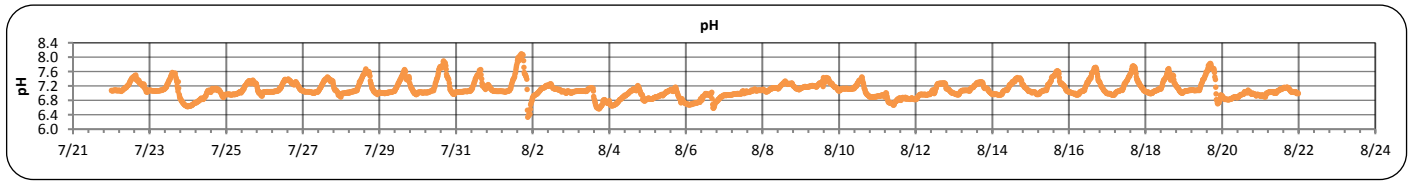
PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Olympia Ave Crossing
ADDRESS:	510 Heyward St Columbia, SC 29201
COORDINATES:	33.982578, -81.035036
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most Downstream Site
TOTAL NO. STORMS OVER 0.1 INCH:	8
MAX. DAILY RAINFALL:	2.3 inches
TOTAL RAINFALL (FOR PERIOD):	4.5 inches

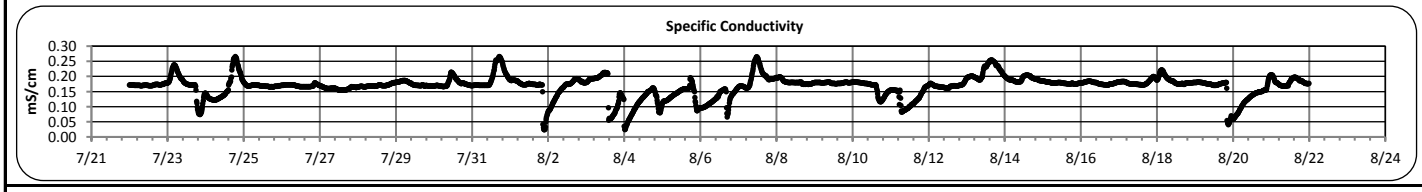
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	3.5	11.8	3.6	3.7	0.5
TEMPERATURE (°F):	75	87	81	81	2
TURBIDITY (NTU):	1	317	2	8	20
pH:	6.3	8.1	7.1	7.1	0.2
SPECIFIC CONDUCTIVITY (mS/cm):	0.024	0.266	0.173	0.168	0.035
DISSOLVED OXYGEN (mg/L):	5.3	9.9	6.9	7.1	0.9

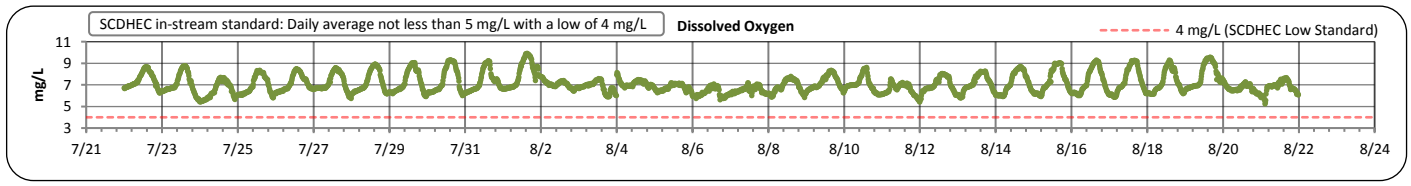












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Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	7/26/2016							
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	9:37	242						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: The sample collected at this site during this reporting period was collected during dry weather conditions.

REPORT GENERATED ON 9/9/2016