Continuous Water Quality
Monitoring Periodic Report

Rocky Branch A (January 5, 2022 - February 9, 2022)

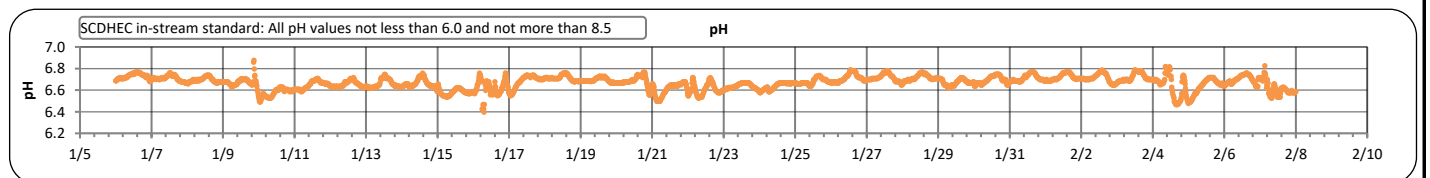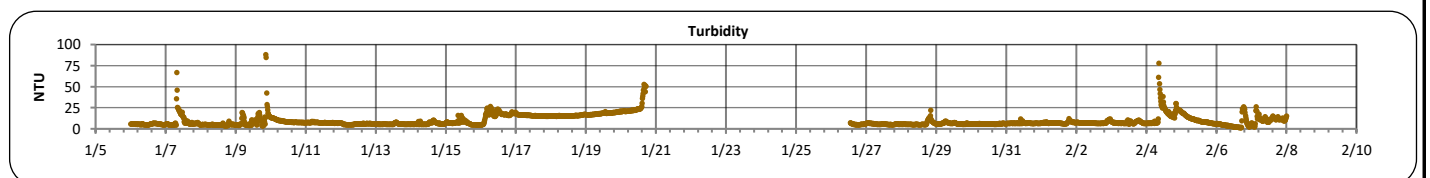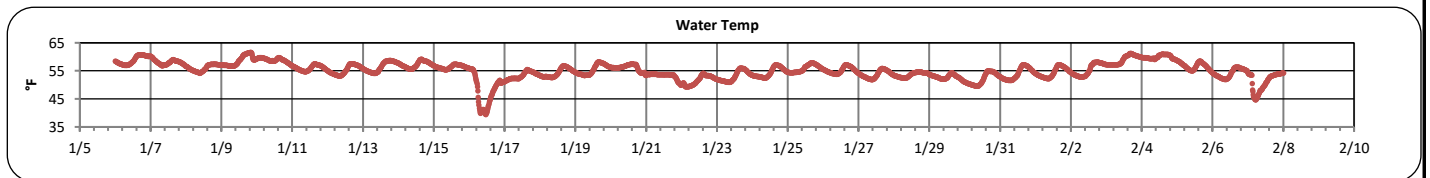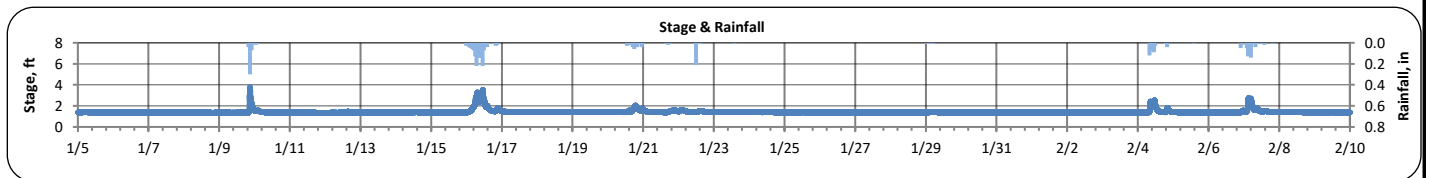| PARAMETER	DESCRIPTION
STREAM NAME:	Rocky Branch
LOCATION:	Maxcy Gregg Park
ADDRESS:	1650 Park Circle Columbia, SC 29201
COORDINATES:	33.995864, -81.021842
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	1.4 inches
TOTAL RAINFALL (FOR PERIOD):	3.6 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.4	3.8	1.4	1.4	0.2
TEMPERATURE (°F):	39	62	55	55	3
TURBIDITY (NTU):	1.4	88.2	6.9	9.7	6.8
pH:	6.4	6.9	6.7	6.7	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.017	0.413	0.143	0.140	0.033
DISSOLVED OXYGEN (mg/L):	5.4	12.9	8.9	8.8	1.0

Stage & Rainfall

Water Temp

Turbidity

pH — SCDHEC in-stream standard: All pH values not less than 6.0 and not more than 8.5

Specific Conductivity

Dissolved Oxygen — SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L — 4 mg/L (SCDHEC Low Standard)

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

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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	
	44596		2/4/2022		2/4/2022			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:02	28,272	9:59	15,402	10:55	5,510		
Total Suspended Solids (mg/L)	9:02	147.0	9:59	31.3	10:55	24.9		
Total Phosphorus (mg/L)	9:02	0.320	9:59	0.18	10:55	0.14		
Total Nitrogen (mg/L)	9:02	2.69	9:59	1.83	10:55	1.38		

All samples were collected during wet weather conditions.

Notes:

Data Gaps

Turbidity data was removed from January 20th to January 25th because the sensor collected erroneous data due to fouling.

Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.
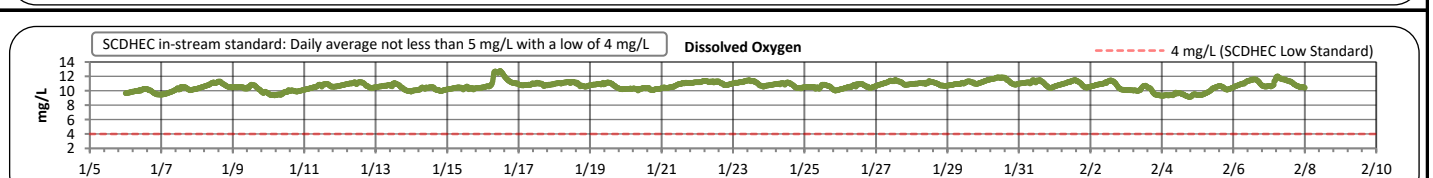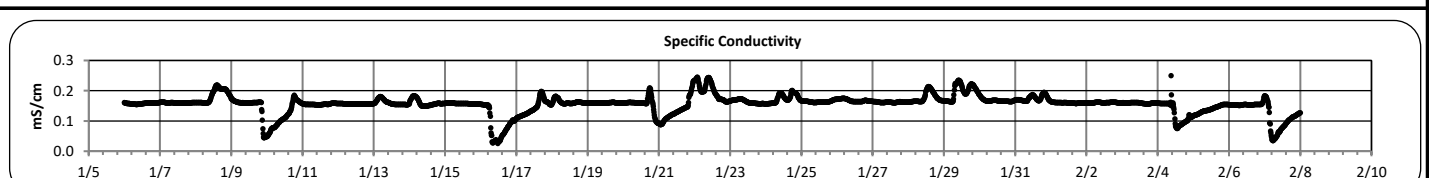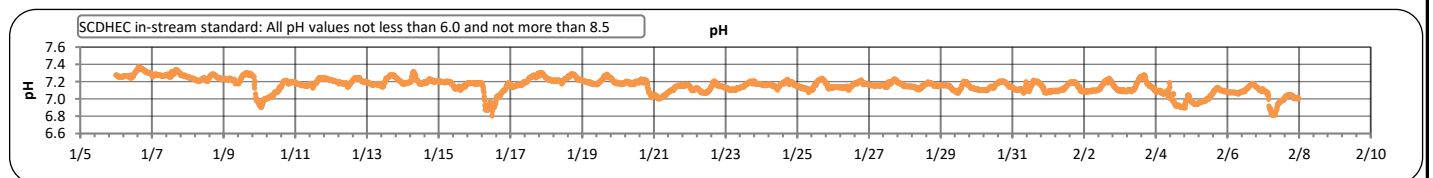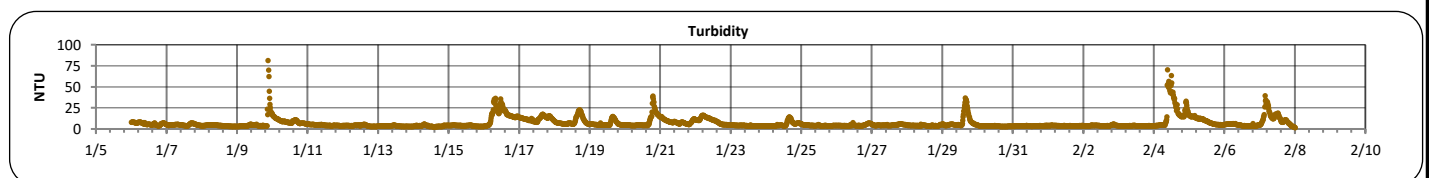
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

Continuous Water Quality
Monitoring Periodic Report

Rocky Branch B (January 5, 2022 - February 9, 2022)

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:	1.3 inches
TOTAL RAINFALL (FOR PERIOD):	3.4 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	3.3	6.3	3.4	3.4	0.3
TEMPERATURE (°F):	40	60	51	51	4
TURBIDITY (NTU):	1.7	81.5	4.6	7.1	6.5
pH:	6.8	7.4	7.2	7.2	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.026	0.250	0.160	0.156	0.031
DISSOLVED OXYGEN (mg/L):	9.2	12.8	10.7	10.7	0.6

Stage & Rainfall

Water Temp

Turbidity

pH

SCDHEC in-stream standard: All pH values not less than 6.0 and not more than 8.5

Specific Conductivity

Dissolved Oxygen

SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L
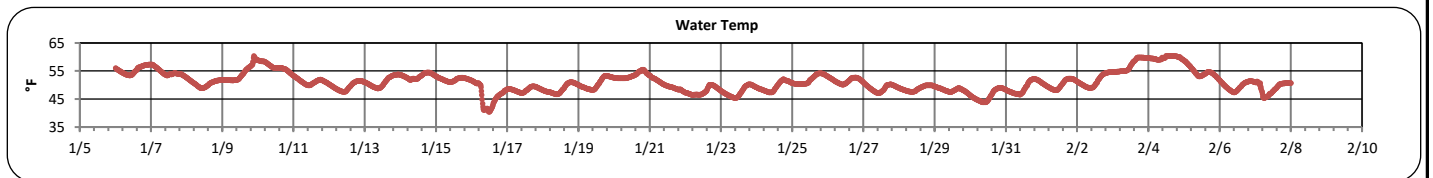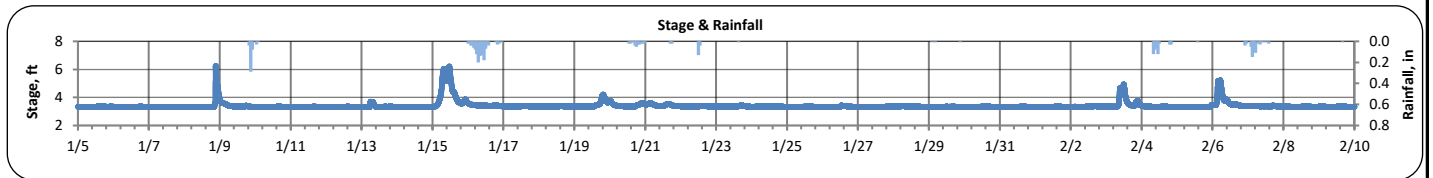
--- 4 mg/L (SCDHEC Low Standard)

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

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Explanation of Statistics:

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Sampled Data:

Analyte (units)	Sample 1 44588		Sample 2 2/3/2022		Sample 3 2/4/2022		Sample 4 2/4/2022	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:15	20	13:25	30	9:14	6,896	10:11	10,986
Total Suspended Solids (mg/L)					9:14	115	10:11	81.5
Total Phosphorus (mg/L)					9:14	0.92	10:11	0.33
Total Nitrogen (mg/L)					9:14	2.85	10:11	2.85

Analyte (units)	Sample 5 2/4/2022		Sample 6 2/7/2022		Sample 7		Sample 8	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:04	17,328	14:20	296				
Total Suspended Solids (mg/L)	11:04	45						
Total Phosphorus (mg/L)	11:04	0.23						
Total Nitrogen (mg/L)	11:04	2.2						

Samples 1 and 2 were collected during dry weather conditions. Samples 3-6 were collected during wet weather conditions.

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

Notes:

<u>Data Gaps</u>
There were no data gaps at the ROCB station during the monitoring period.

<u>Potential Illicit Discharges and Abnormal Events:</u>
The specific conductivity increased several times during the monitoring period, which may have been a result of the Maxcy Gregg pool discharge.

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

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