

Rocky Branch Monitoring Sites

Monitoring Data Summary for March 24th, 2021 – April 28th, 2021

Data Gaps

- At the ROCA station, there were no data gaps during this monitoring period.
- At the ROCB station, the turbidity sensor was buried from April 10th to April 15th resulting in erroneous data. This period of turbidity data was deleted from the dataset.
- Both the ROCA and ROCB pressure transducers experienced a brief gap in reporting from April 17th to April 18th.

SCDHEC Standards

- The ROCA station experienced a minimum pH value of 5.9 which is outside the acceptable SCDHEC range of 6 to 8.5.
- The ROCB station did not record any pH values outside of the acceptable SCDHEC range of 6 to 8.5
- The ROCA and ROCB stations recorded average DO concentrations of 7.8 mg/L and 8.3 mg/L, respectively, which are above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded was 5.8 mg/L at the ROCA station and 5.5 mg/L at the ROCB station. Both stations are above the SCDHEC discrete minimum standard of 4 mg/L.

Storm Events

- The ROCA station recorded 7 storm events during this monitoring period, resulting in 2.1 inches of total precipitation. The ROCB station recorded 6 storm events during this monitoring period, resulting in 1.9 inches of total precipitation.
- Both ROCA and ROCB stations exhibited typical responses to storm events during this monitoring period.

Potential Illicit Discharges and Abnormal Events

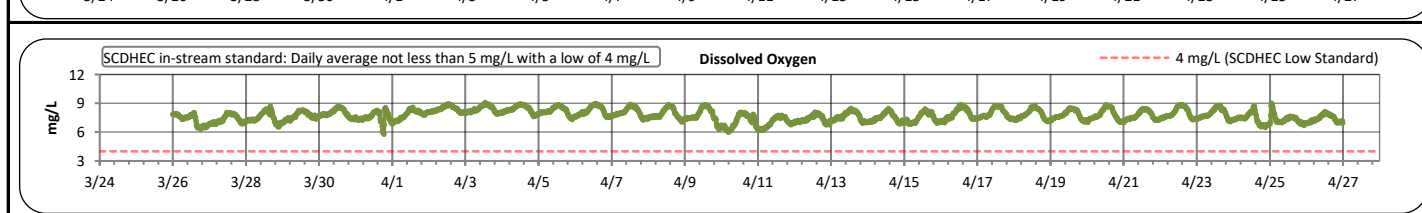
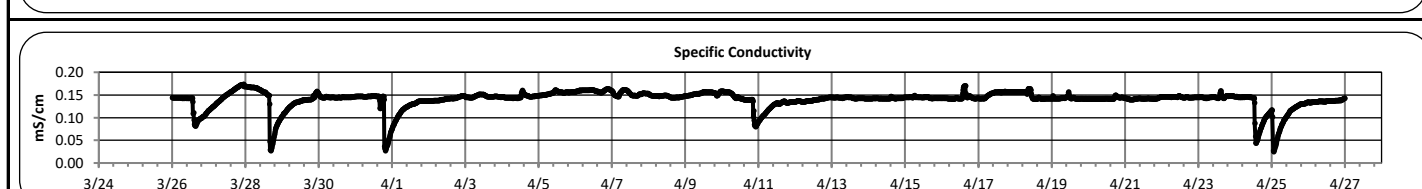
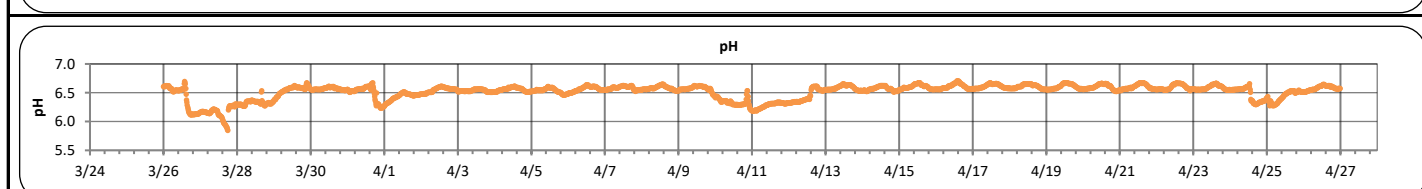
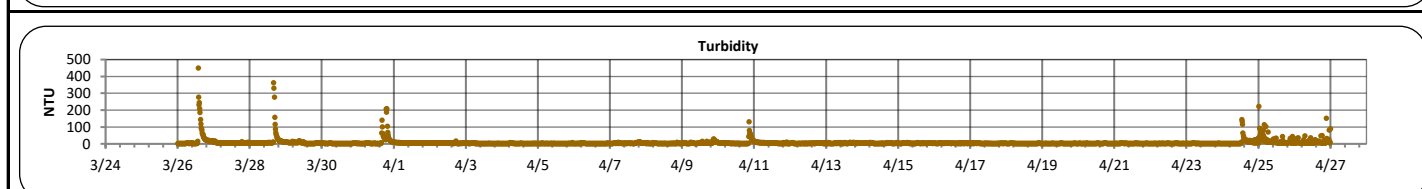
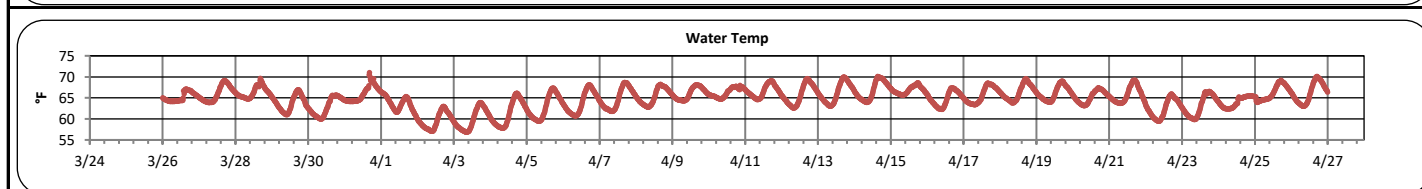
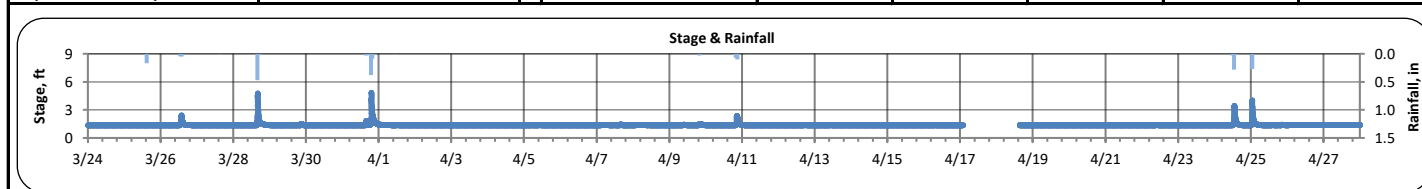
- At the ROCA station, several increased levels of specific conductivity were observed on March 30th, April 4th, April 16th, April 19th, and April 23rd. These elevated levels of specific conductivity were likely a result of the Maxcy Gregg pool discharge.
- At the ROCB station, specific conductivity levels were significantly elevated on March 29th, April 5th-7th, April 12th, and April 18th.
- The ROCB pH sensor recorded lower than typical pH values, likely due to pollen inhibiting the sensor.

Flow Measurements

- No flow measurements were taken at the ROCA or ROCB stations during this monitoring period.

Rocky Branch A (March 24, 2021 - April 27, 2021)

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	4.9	1.4	1.4	0.2
LOCATION:	Maxcy Gregg Park	TEMPERATURE (°F):	57	71	65	65	3
ADDRESS:	1650 Park Circle Columbia, SC 29201	TURBIDITY (NTU):	2	452	3	7	21
COORDINATES:	33.995864, -81.021842	pH:	5.9	6.7	6.6	6.5	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.025	0.174	0.144	0.140	0.020
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.8	9.1	7.7	7.8	0.6
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	0.5 inches						
TOTAL RAINFALL (FOR PERIOD):	2.1 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 24, 2021 - April 27, 2021)

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.

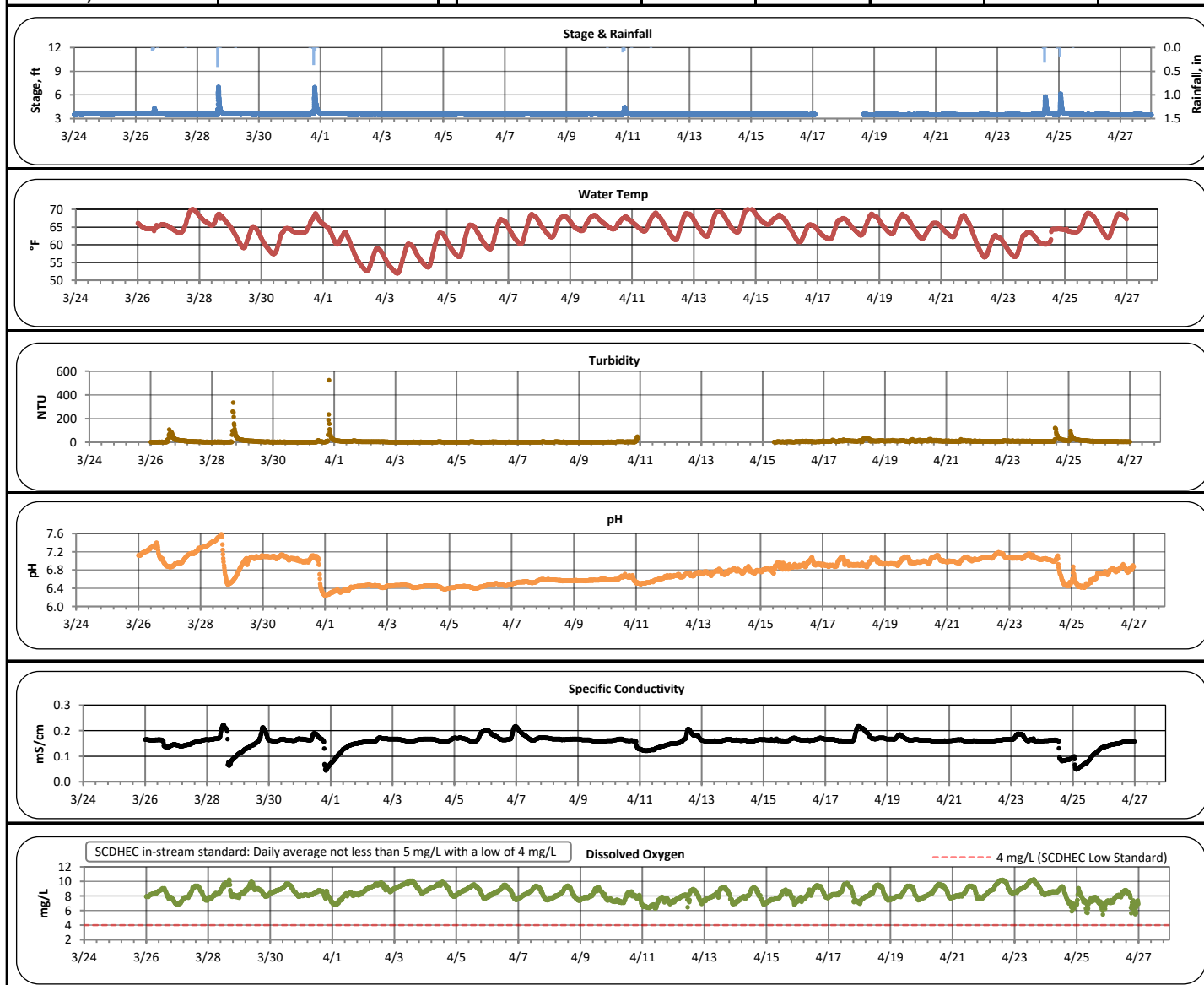
Grab Sample Data:

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

Notes: No samples were collected during this monitoring period.

Rocky Branch B (March 24, 2021 - April 27, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Rocky Branch	STAGE (FT):	3.5	7.0	3.6	3.6	0.2
LOCATION:	Olympia Ave Crossing	TEMPERATURE (°F):	52	70	64	64	4
ADDRESS:	510 Heyward St Columbia, SC 29201	TURBIDITY (NTU):	2	524	6	10	19
COORDINATES:	33.982578, -81.035036	pH:	6.2	7.6	6.8	6.8	0.3
TMDL/IMPAIEMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.045	0.224	0.162	0.158	0.025
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.5	10.3	8.3	8.3	0.8
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	6						
MAX. DAILY RAINFALL:	0.5 inches						
TOTAL RAINFALL (FOR PERIOD):	1.9 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 24, 2021 - April 27, 2021)

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	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: No samples were collected during this monitoring period.