# Rocky Branch Monitoring Sites Monitoring Data Summary for December 2<sup>nd</sup>, 2020 – January 5<sup>th</sup>, 2021

#### Data Gaps

- At the ROCA station, a period of turbidity data from January 1<sup>st</sup>-5<sup>th</sup> was removed from the dataset due to the sensor being buried, causing the turbidity values to be obscured. DO data was removed from December 31<sup>st</sup>-January 5<sup>th</sup>, because the sensor was buried. Stage data from the pressure transducer was not available from December 11<sup>th</sup>-21<sup>st</sup>.
- At the ROCB station, a brief period of turbidity data from December 18<sup>th</sup>-22<sup>nd</sup> was removed from the dataset due to the sensor being buried, causing the turbidity values to be obscured.

#### SCDHEC Standards

- The ROCA and ROCB stations 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 8.5 mg/L and 9.9 mg/L, respectively, which are well above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded was 4.6 mg/L at ROCA station and 8.1 mg/L at the ROCB station. Both stations were 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 5.2 inches of total precipitation. The ROCB station recorded 10 storm events during this monitoring period, resulting in 6.2 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 December 2<sup>nd</sup>, January 2<sup>nd</sup>, and January 3<sup>rd</sup>. 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 December 3<sup>rd</sup>, December 16<sup>th</sup>, December 29<sup>th</sup>, and January 4<sup>th</sup>-5<sup>th</sup>.

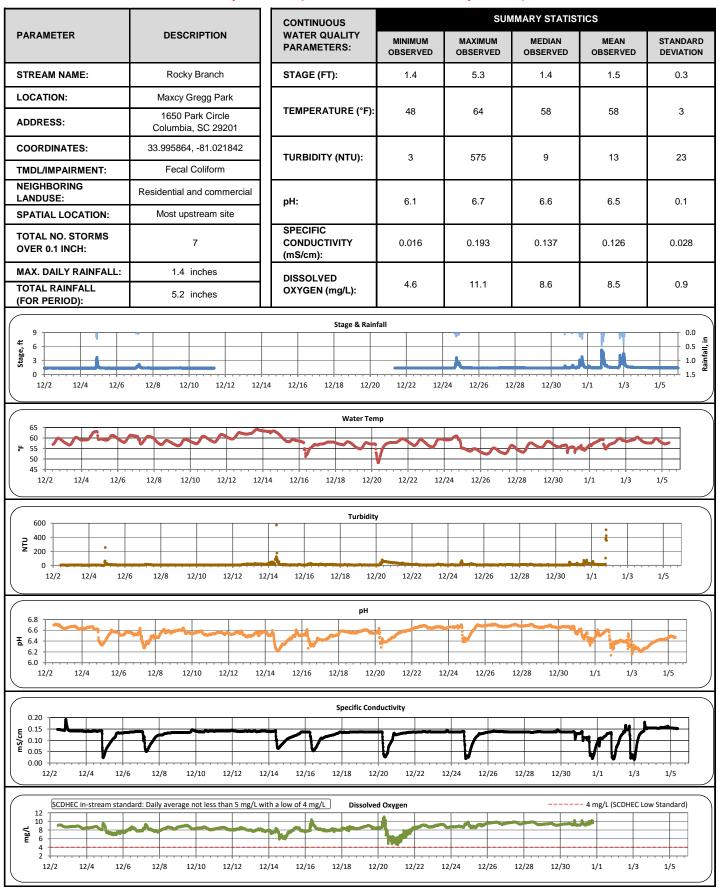
### Flow Measurements

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





#### Rocky Branch A (December 2, 2020 - January 5, 2021)



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

# Rocky Branch A (December 2, 2020 - January 5, 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:

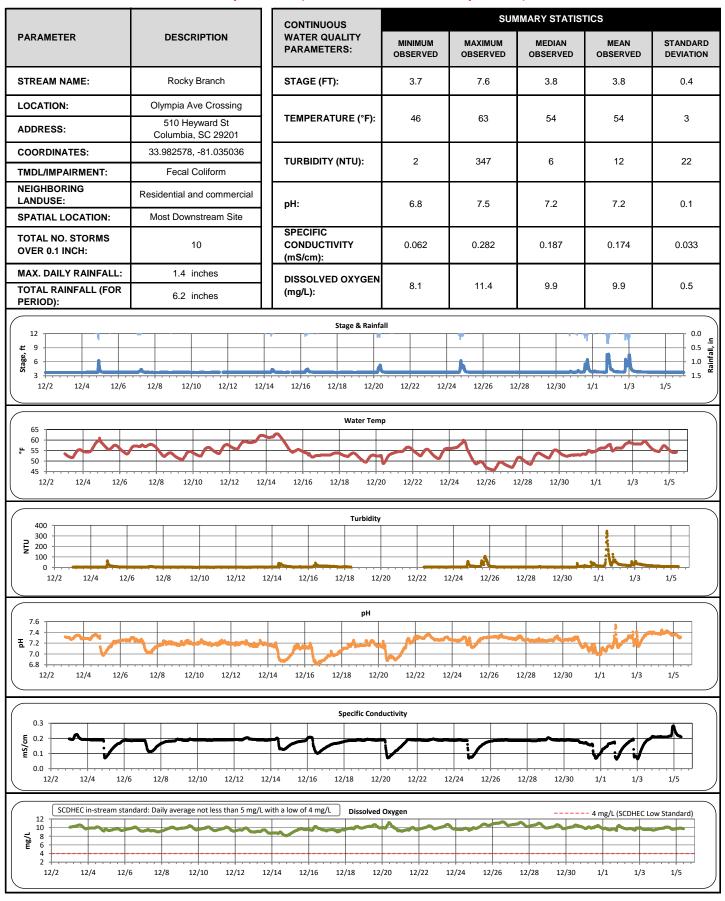
Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	12/10/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:58	126						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was collected during dry weather conditions.





#### Rocky Branch B (December 2, 2020 - January 5, 2021)



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

# Rocky Branch B (December 2, 2020 - January 5, 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	
	12/10/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	12:08	40						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was collected during dry weather conditions.