

Smith Branch Monitoring Sites

Monitoring Data Summary for September 25th, 2020 – October 29th, 2020

Data Gaps

- The SMIA station experienced a period of fouling turbidity data from October 1st-10th so that period of data was removed from the dataset. No DO data was available for this reporting period because the sensor was out of commission due to repairs. The station experienced a brief gap in reporting on October 26th which affected all the sonde sensors.
- DO data at the SMIB station was not available for this reporting period because the sensor was out of commission due to repairs. Stage and rainfall data were also not available during this reporting period.

SCDHEC Standards

- The SMIA and SMIB stations did not record any pH values outside the acceptable SCDHEC range of 6 to 8.5.

Storm Events

- The SMIA rain gauge recorded 5 storms (at least 0.1 inches) in this monitoring period resulting in 1.9 inches of precipitation. The SMIB rain gauge data was not available due to the power regulator issues at the site.
- The SMIA and SMIB monitoring stations recorded typical water quality responses to the storm events observed during this monitoring period.

Potential Illicit Discharges and Abnormal Events

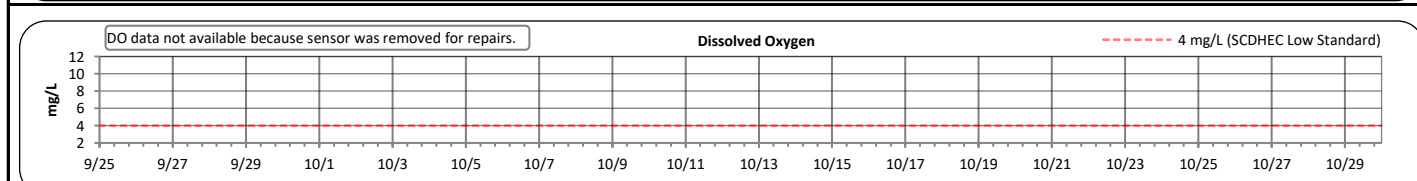
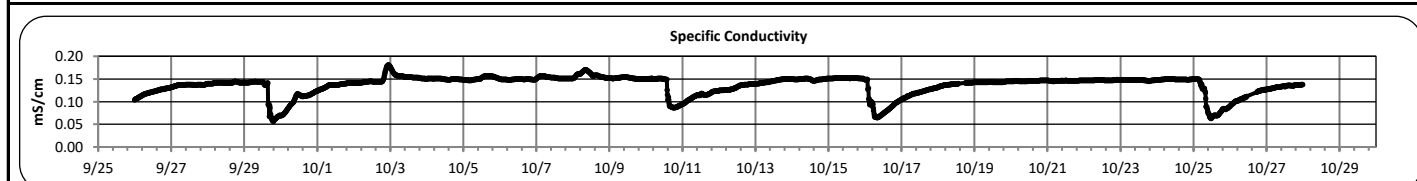
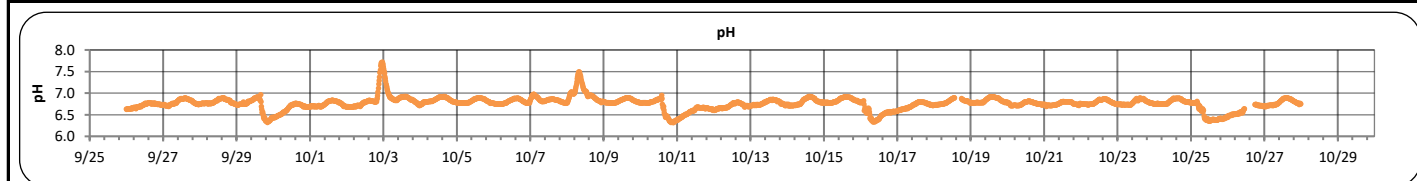
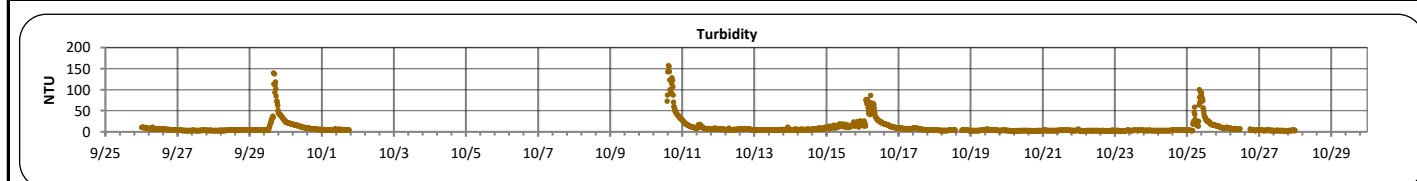
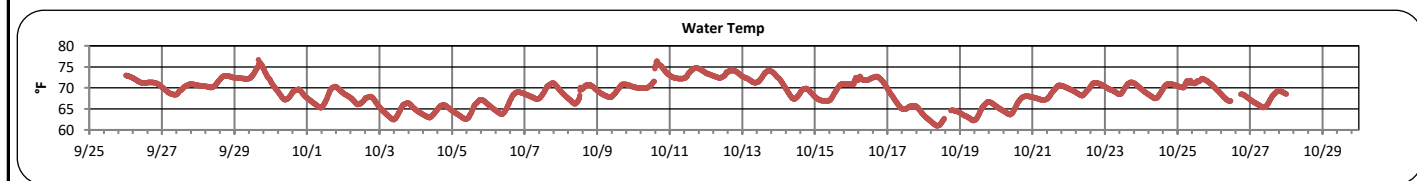
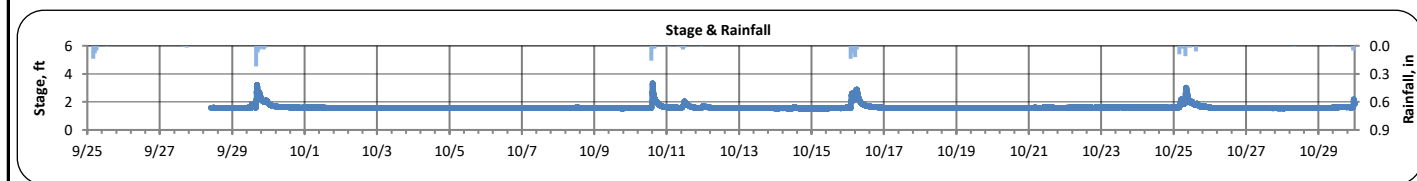
- At the SMIA and SMIB stations, there was an increase in pH and specific conductivity on October 2nd-3rd and October 8th that may have been the result of illicit discharges.

Flow Measurements

- No flow measurements were taken in this watershed during this monitoring period.

Smith Branch A (September 25, 2020 - October 29, 2020)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch	STAGE (FT):	1.5	3.4	1.6	1.6	0.2
LOCATION:	Earlewood Park	TEMPERATURE (°F):	61	77	69	69	3
ADDRESS:	1111 Parkside Dr Columbia, SC 29201	TURBIDITY (NTU):	2	158	5	10	16
COORDINATES:	34.027289,-81.04265	pH:	6.3	7.7	6.8	6.8	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.057	0.181	0.145	0.137	0.021
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	5						
MAX. DAILY RAINFALL:	0.4 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**

Smith Branch A (September 25, 2020 - October 29, 2020)

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.

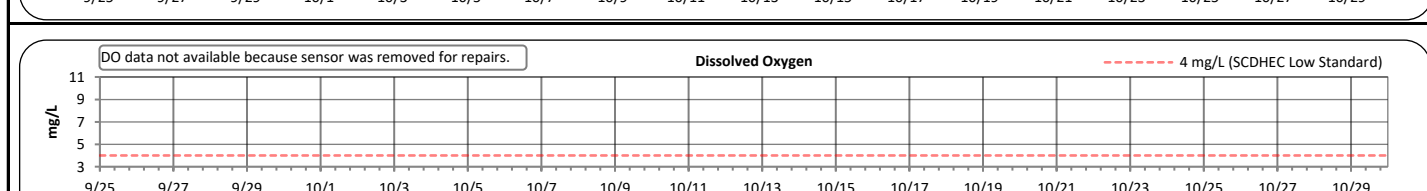
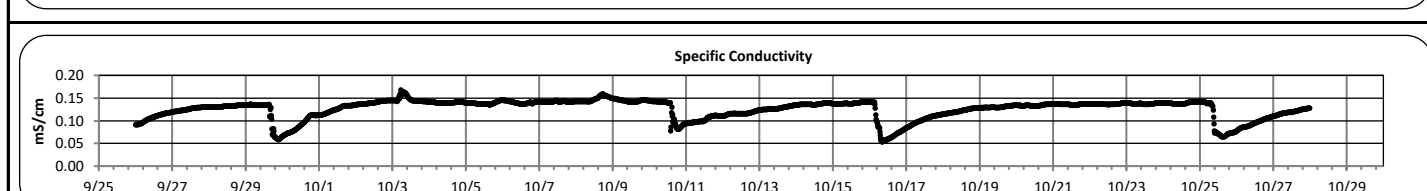
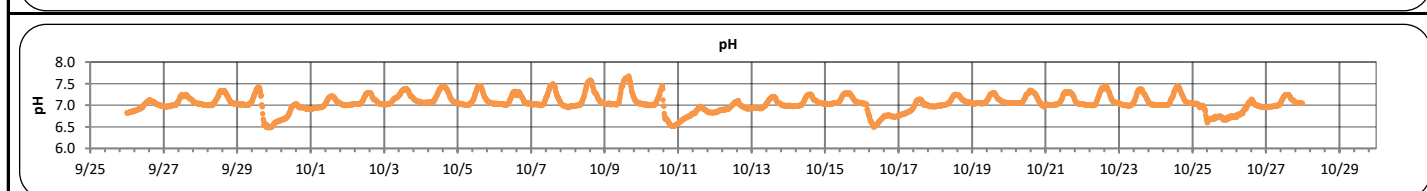
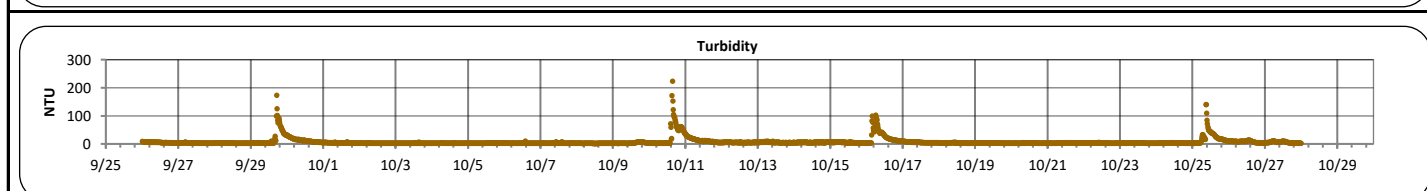
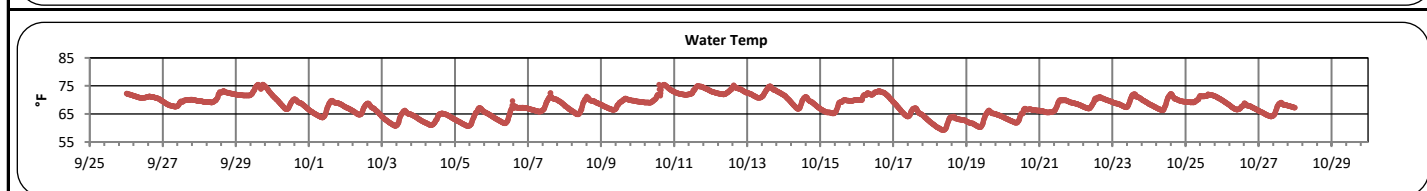
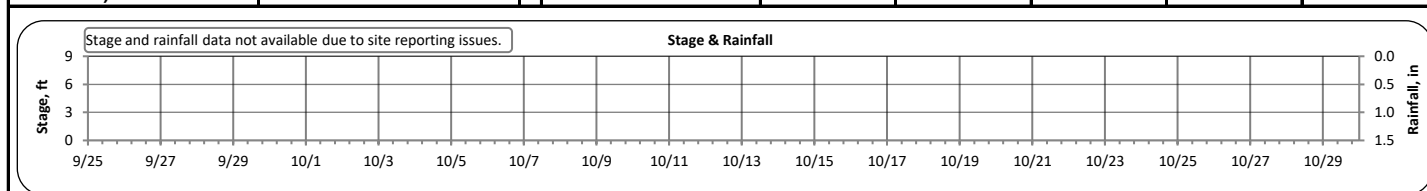
Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	10/22/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:19	4,962						
Total Suspended Solids (mg/L)	11:19	2						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample taken during dry weather conditions.

Smith Branch B (September 25, 2020 - October 29, 2020)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch	STAGE (FT):	-	-	-	-	-
LOCATION:	Off Mountain Drive	TEMPERATURE (°F):	59	76	69	68	3
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TURBIDITY (NTU):	2	224	4	7	14
COORDINATES:	34.037933,-81.0591	pH:	6.5	7.7	7.0	7.0	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.054	0.168	0.134	0.126	0.021
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-
SPATIAL LOCATION:	Most Downstream Site						
TOTAL NO. STORMS OVER 0.1 INCH:	0						
MAX. DAILY RAINFALL:	0.0 inches						
TOTAL RAINFALL (FOR PERIOD):	0.0 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**

Smith Branch B (September 25, 2020 - October 29, 2020)

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:

No samples were taken at SMIB during this monitoring period.