Smith Branch Monitoring Sites Monitoring Data Summary for December 2nd, 2020 – January 13th, 2021

Data Gaps

- The SMIA station experienced a period of fouling turbidity data from December 9th-11th, December 22nd-23rd, and December 28th-31st so those periods of data were removed from the dataset. DO data was not available for this reporting period because the sensor was out of commission due to repairs.
- The SMIB station had no data gaps during this monitoring period. Stage data was also not available during this reporting period.

SCDHEC Standards

- The SMIA station did not record any pH values outside the acceptable SCDHEC range of 6 to 8.5. The SMIB station recorded a minimum pH value of 5.9, which was below the acceptable SCDHEC range.
- The SMIB station recorded an average DO concentration of 10.5 mg/L which is well above the SCDHEC daily average minimum standard of 5 mg/L.
- The minimum DO concentration recorded at the SMIB station was 8.6 mg/L. This station was well above the SCDHEC discrete minimum standard of 4 mg/L.

Storm Events

- The SMIA rain gauge recorded 12 storms (at least 0.1 inches) in this monitoring period resulting in 7.1 inches of precipitation. The SMIB rain gauge recorded 12 storms (at least 0.1 inches) in this monitoring period resulting in 7.3 inches of precipitation.
- 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 specific conductivity from December 3rd-4th that may have been the result of an illicit discharge.

Flow Measurements

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





Smith Branch A (December 2, 2020 - January 13, 2021)



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

Smith Branch A (December 2, 2020 - January 13, 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:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	12/21/2020							
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	12:44	1,248						
Total Suspended Solids (mg/L)	12:44	1.5						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Sample 1 was taken during dry weather conditions.





Smith Branch B (December 2, 2020 - January 13, 2021)



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

Smith Branch B (December 2, 2020 - January 13, 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:

No samples were taken at SMIB during this monitoring period.