Continuous Water Quality
Monitoring Periodic Report

Smith Branch A (October 20, 2021 - November 30, 2021)

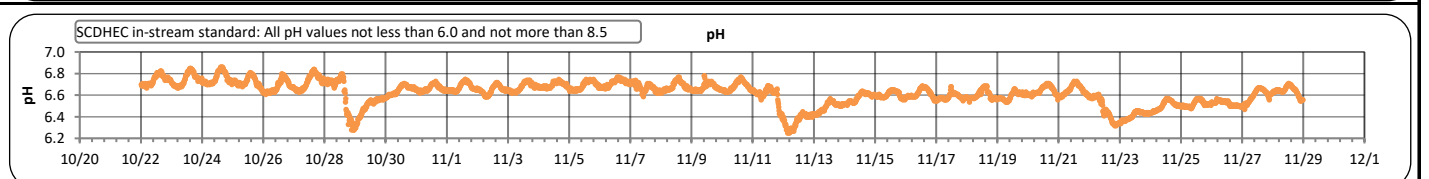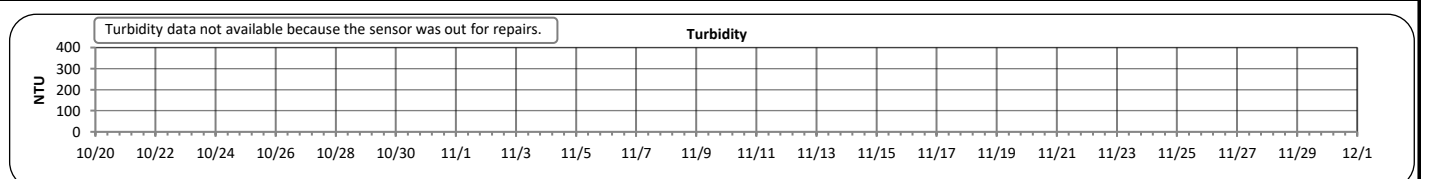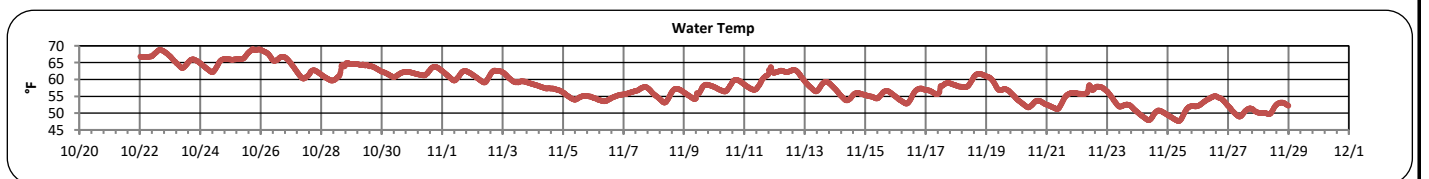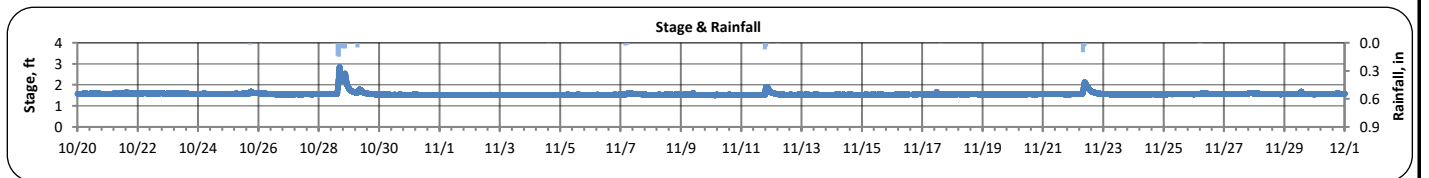| PARAMETER	DESCRIPTION
STREAM NAME:	Smith Branch
LOCATION:	Earlewood Park
ADDRESS:	1111 Parkside Dr Columbia, SC 29201
COORDINATES:	34.027289,-81.04265
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	3
MAX. DAILY RAINFALL:	0.5 inches
TOTAL RAINFALL (FOR PERIOD):	1.0 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	1.5	2.9	1.5	1.6	0.1
TEMPERATURE (°F):	48	69	58	58	5
TURBIDITY (NTU):	-	-	-	-	-
pH:	6.3	6.9	6.6	6.6	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.065	0.179	0.158	0.156	0.014
DISSOLVED OXYGEN (mg/L):	5.5	9.3	8.0	8.0	0.7

Stage & Rainfall

Water Temp

Turbidity data not available because the sensor was out for repairs.

Turbidity

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

pH

Specific Conductivity

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

Dissolved Oxygen

‑ ‑ ‑ ‑ 4 mg/L (SCDHEC Low Standard)

Smith Branch A (October 20, 2021 - November 30, 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	
	10/20/2021		11/22/2021					
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	8:35	126	10:38	5,510				
Total Suspended Solids (mg/L)	8:30	1.2	10:35	64				
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during dry weather conditions. Sample 2 was collected during wet weather

Notes:

Data Gaps

• DO data was removed from November 23rd to November 26th and November 27th to November 28th, because the sensor was fouled.

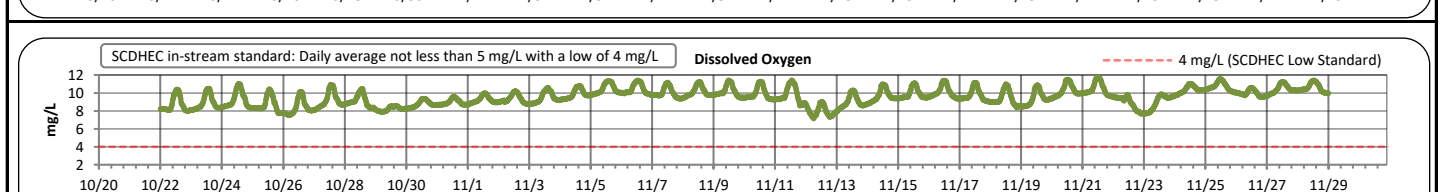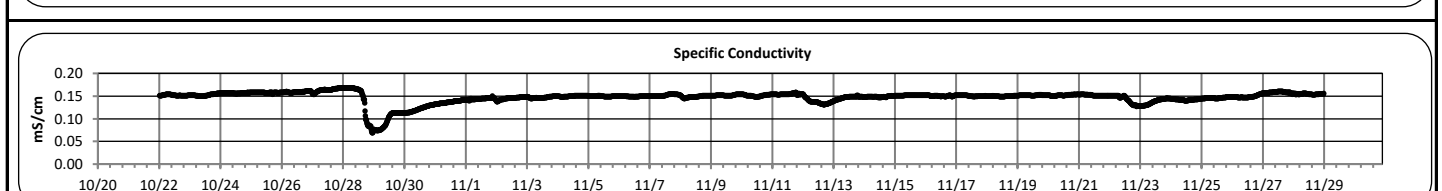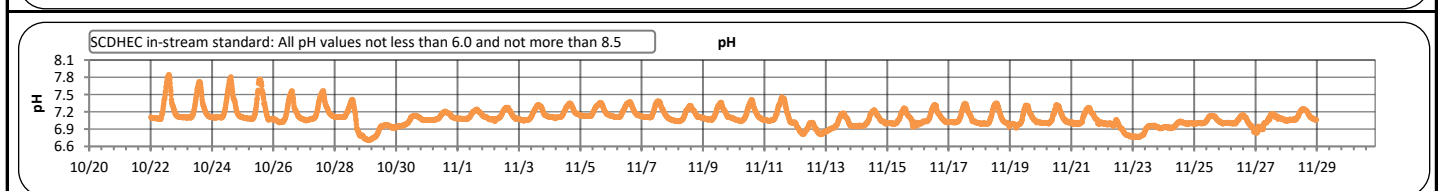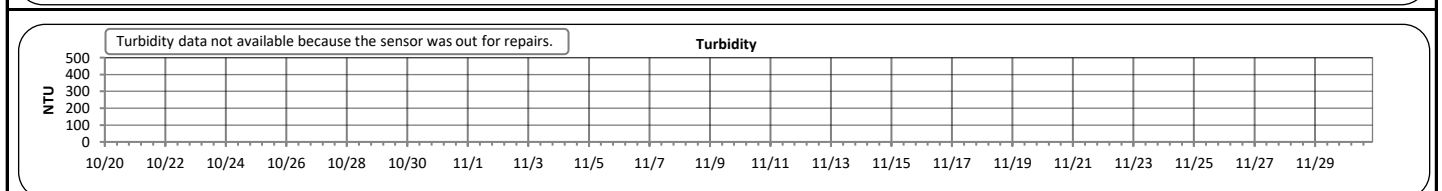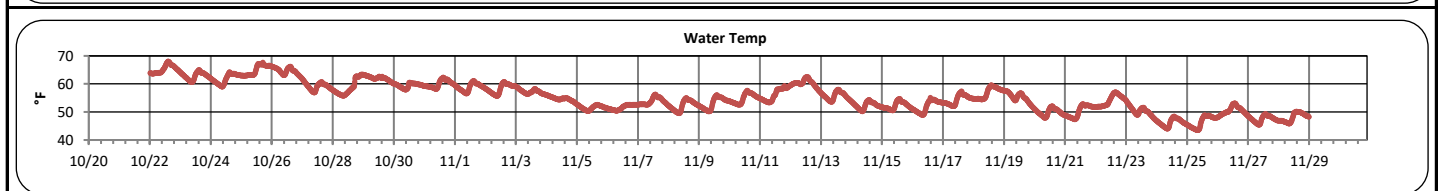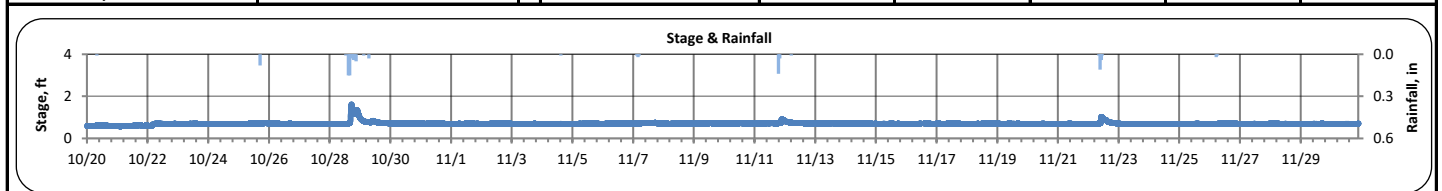• Turbidity data was not collected during the monitoring period, because the sensor was broken.

Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at the SMIA station during the monitoring period.

Continuous Water Quality
Monitoring Periodic Report

Smith Branch B (October 20, 2021 - November 30, 2021)

PARAMETER	DESCRIPTION
STREAM NAME:	Smith Branch
LOCATION:	Off Mountain Drive
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203
COORDINATES:	34.037933,-81.0591
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most Downstream Site
TOTAL NO. STORMS OVER 0.1 INCH:	3
MAX. DAILY RAINFALL:	0.5 inches
TOTAL RAINFALL (FOR PERIOD):	1.1 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.6	1.6	0.7	0.7	0.1
TEMPERATURE (°F):	44	68	55	55	5
TURBIDITY (NTU):	-	-	-	-	-
pH:	6.7	7.9	7.1	7.1	0.2
SPECIFIC CONDUCTIVITY (mS/cm):	0.069	0.168	0.150	0.148	0.013
DISSOLVED OXYGEN (mg/L):	7.2	11.8	9.6	9.6	0.9

Stage & Rainfall

Water Temp

Turbidity data not available because the sensor was out for repairs.

Turbidity

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

pH

Specific Conductivity

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

Dissolved Oxygen

- - - - - 4 mg/L (SCDHEC Low Standard)

Smith Branch B (October 20, 2021 - November 30, 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 grab samples were collected during the monitoring period.

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

Notes:

Data Gaps

Turbidity data was not collected during the monitoring period, because the sensor was broken. There were no other data gaps at the SMIB station.

Potential Illicit Discharges and Abnormal Events:

There were no abnormal events during the monitoring period at the SMIB station.