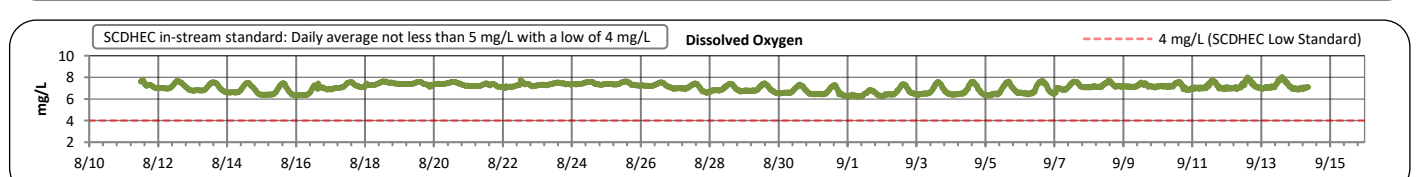
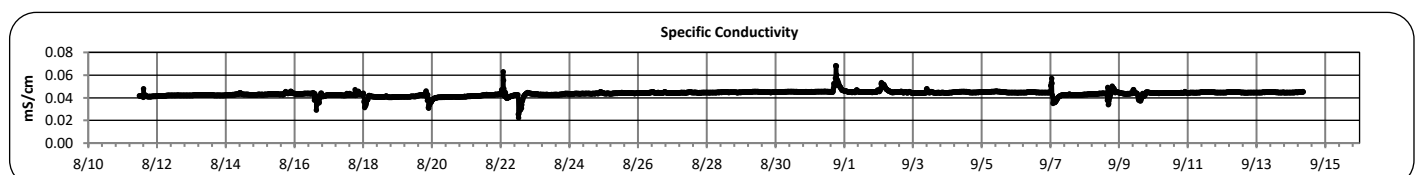
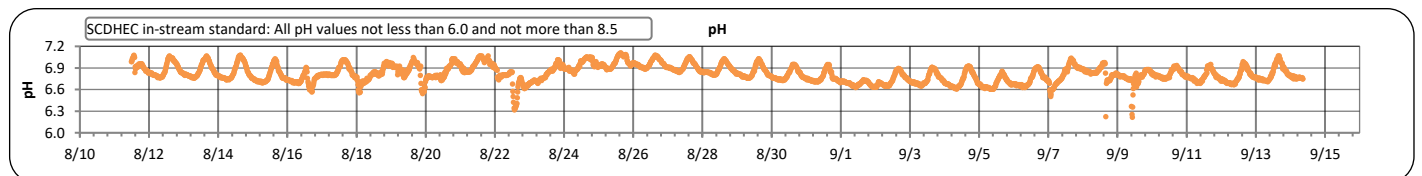
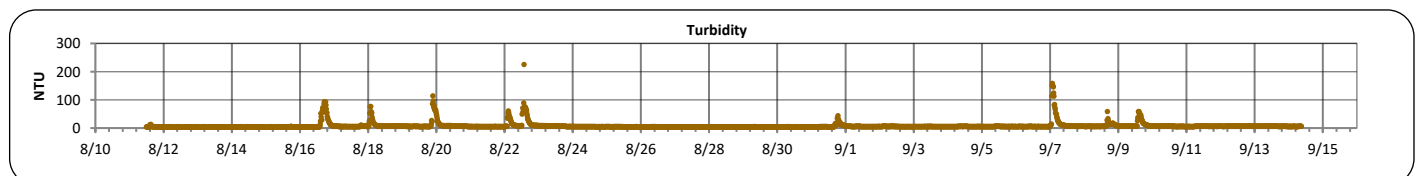
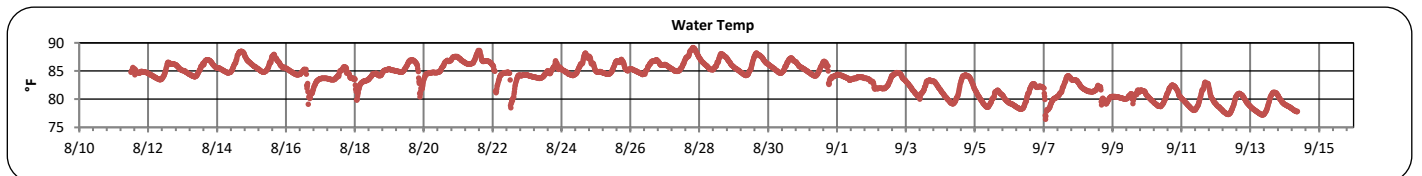
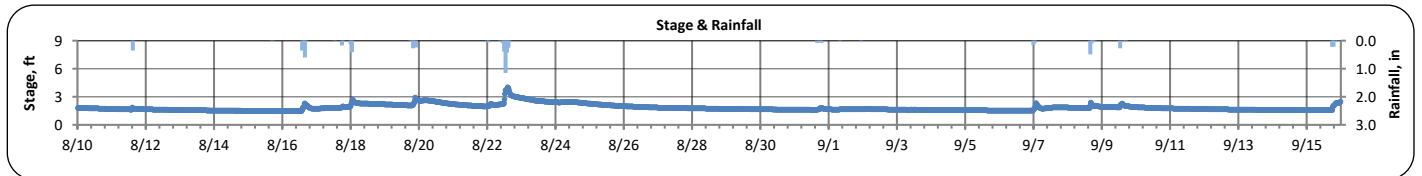


Continuous Water Quality Monitoring Periodic Report

Gills Creek A (August 10, 2021 - September 15, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	1.5	4.0	1.7	1.9	0.3
LOCATION:	Forest Drive Bridge	TEMPERATURE (°F):	76	89	84	84	3
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TURBIDITY (NTU):	4	225	6	8	12
COORDINATES:	34.019826, -80.963566	pH:	6.2	7.1	6.8	6.8	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.022	0.069	0.044	0.044	0.002
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	6.2	8.0	7.2	7.1	0.4
APPROX. DRAINAGE AREA:	48 square miles						
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	11						
MAX. DAILY RAINFALL:	2.4 inches						
TOTAL RAINFALL (FOR PERIOD):	7.1 inches						



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

REPORT GENERATED ON 10/21/2021

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek A (August 10, 2021 - September 15, 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 this monitoring period.

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:

Data Gaps

There were no data gaps at the GIL A station during this monitoring period.

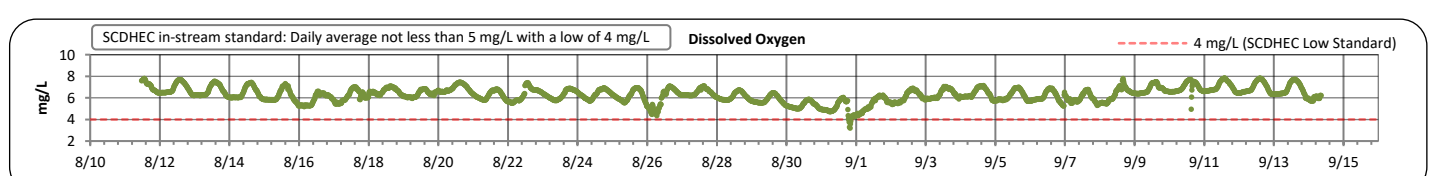
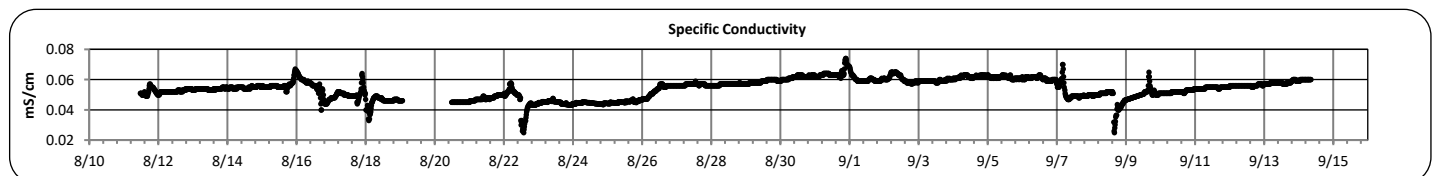
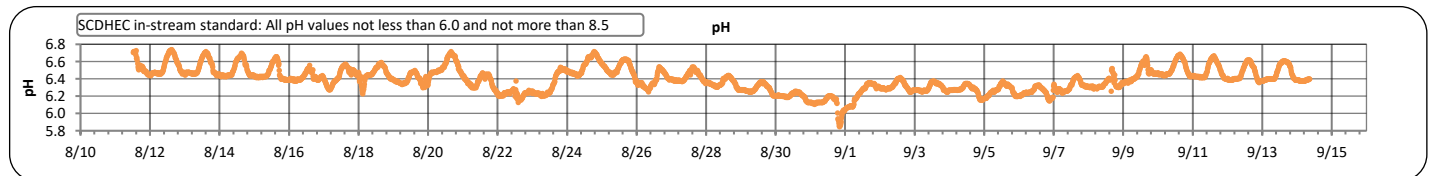
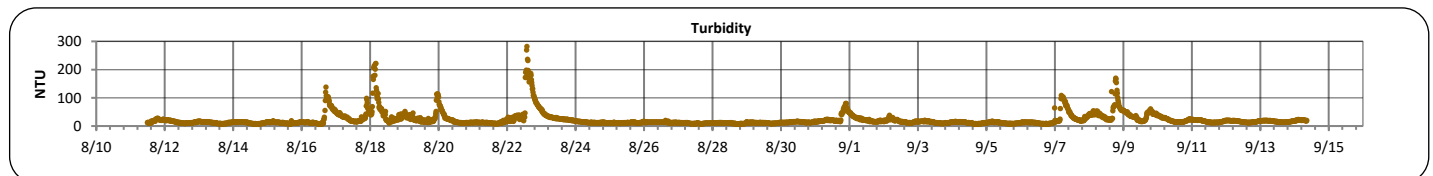
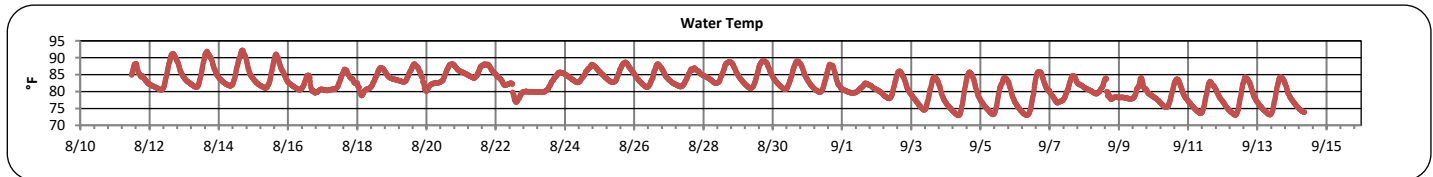
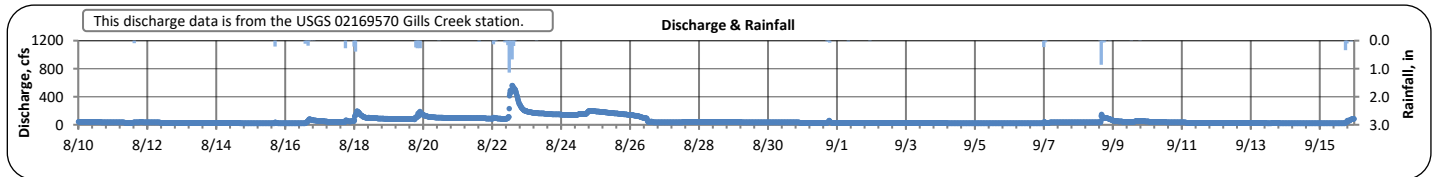
Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased on August 11th, August 22nd, August 31st, September 2nd, and September 7th, which may have been the result of illicit discharges.

Continuous Water Quality Monitoring Periodic Report

Gills Creek B (August 10, 2021 - September 15, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	20.2	562.0	35.6	58.1	57.1
LOCATION:	Devine Street bridge	TEMPERATURE (°F):	73	92	82	82	4
ADDRESS:	4716 Devine Street Columbia, SC 29209	TURBIDITY (NTU):	7	283	15	23	24
COORDINATES:	33.989656, -80.97433	pH:	5.9	6.7	6.4	6.4	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.025	0.074	0.055	0.054	0.006
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.2	7.9	6.4	6.3	0.7
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site						
TOTAL NO. STORMS OVER 0.1 INCH:	11						
MAX. DAILY RAINFALL:	3.0 inches						
TOTAL RAINFALL (FOR PERIOD):	7.4 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**

Gills Creek B (August 10, 2021 - September 15, 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	
	8/20/2021							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	8:20	646						
Total Suspended Solids (mg/L)	8:20	21.1						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during wet weather conditions.

Notes:

Data Gaps

Specific conductivity data was removed from August 19th to August 20th because the sensor was fouled.

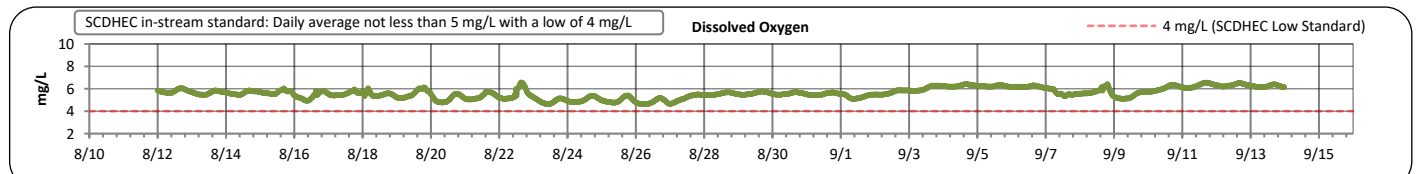
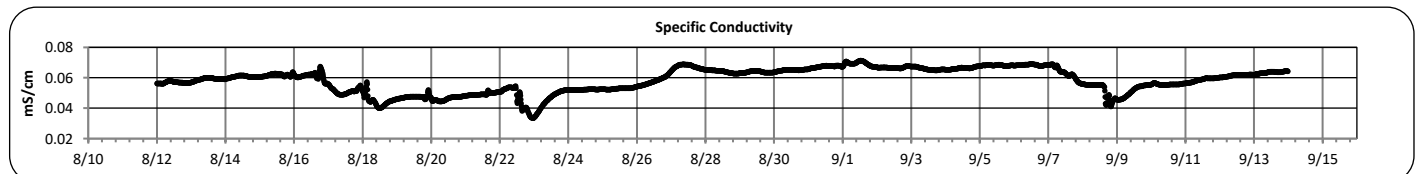
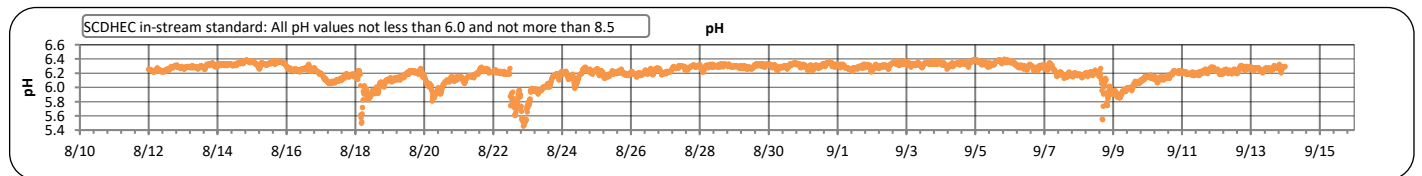
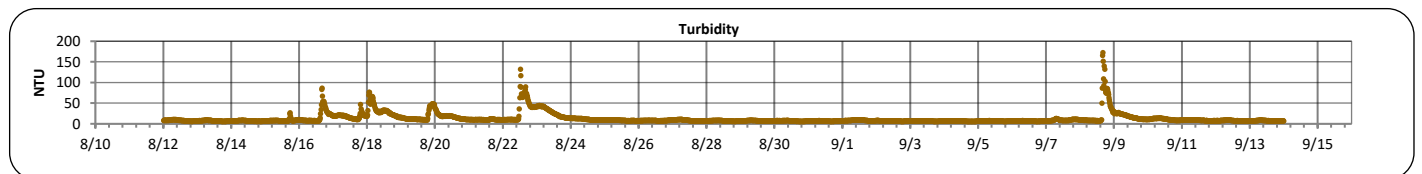
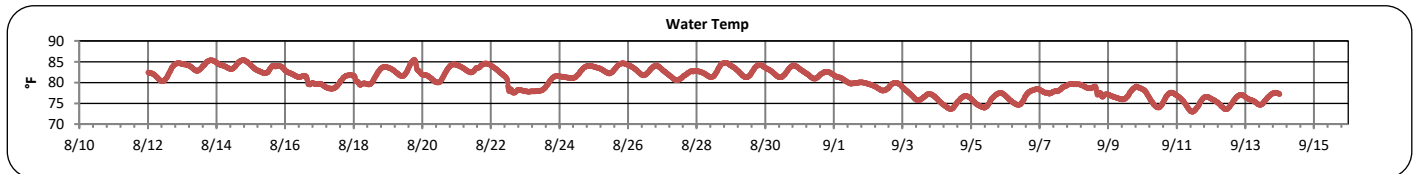
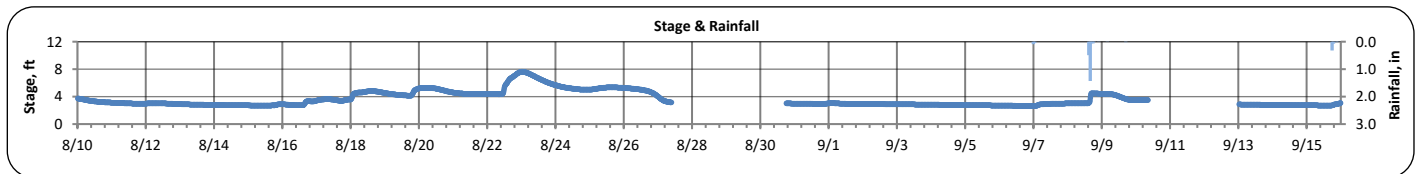
Potential Illicit Discharges and Abnormal Events:

The specific conductivity parameter increased on August 15th-16th, August 17th, August 22nd, August 31st, September 7th, and September 9th, which may have been the result of illicit discharges.

Continuous Water Quality Monitoring Periodic Report

Gills Creek C (August 10, 2021 - September 15, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	2.7	7.6	3.1	3.7	1.1
LOCATION:	Bluff Road bridge	TEMPERATURE (°F):	73	86	81	80	3
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TURBIDITY (NTU):	6	173	8	13	13
COORDINATES:	33.948043, -80.9889	pH:	5.5	6.4	6.3	6.2	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.034	0.071	0.060	0.059	0.008
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.7	6.6	5.6	5.6	0.5
APPROX. DRAINAGE AREA:	64 square miles						
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	3						
MAX. DAILY RAINFALL:	2.06 inches						
TOTAL RAINFALL (FOR PERIOD):	2.7 inches						



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

REPORT GENERATED ON 10/21/2021

**Continuous Water Quality
Monitoring Periodic Report**

Gills Creek C (August 10, 2021 - September 15, 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	
	8/20/2021							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	8:45	1,394						
Total Suspended Solids (mg/L)	8:45	16						
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during wet weather conditions.

Notes:

Data Gaps

Rainfall data was not recorded from August 14th to September 6th and stage data was not recorded from August 27th to August 30th and September 10th to September 13th, because the site experienced internet connectivity errors. There were no data gaps in the water quality data at the GILC station during this monitoring period.

Potential Illicit Discharges and Abnormal Events:

The pH dropped abnormally low during storm events on August 18th, August 22nd, and September 8th.