Gills Creek A (July 7, 2021 - August 9, 2021)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Gills Creek	STAGE (FT):	1.4	4.0	1.6	1.8	0.4	
LOCATION:	Forest Drive Bridge							
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TEMPERATURE (°F):	78	91	84	85	2	
COORDINATES:	34.019826, -80.963566	TURBIDITY (NTU):	3	283	8	16	22	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen							
NEIGHBORING LANDUSE:	Residential and commercial	<u>л</u> ц.	5.7	7.2	6.8	6.8	0.1	
APPROX. DRAINAGE AREA:	48 square miles	pn.					0.1	
SPATIAL LOCATION:	Most upstream site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	14	CONDUCTIVITY (mS/cm):	0.020	0.080	0.042	0.042	0.003	
MAX. DAILY RAINFALL:	1.7 inches	DISSOLVED		8.0	7.3	7.2		
TOTAL RAINFALL (FOR PERIOD):	7.6 inches	OXYGEN (mg/L):	6.1				0.4	











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

7/17

7/19

7/21

7/15

7/7

7/9

7/11

7/13

7/25

7/27

7/29

7/31

8/2

8/4

8/6

8/8

8/10

7/23

Gills Creek A (July 7, 2021 - August 9, 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)	8/3/	2021	8/3/2021		8/3/2021		8/3/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:48	2,668	10:58	15,400	12:07	5,818		
Total Suspended Solids (mg/L)	9:48	20.5	10:58	58.4	12:07	40.8	14:04	11.8
Total Phosphorus (mg/L)	9:48	0.056	10:58	0.094	12:07	0.070	14:04	ND
Total Nitrogen (mg/L)	9:48	0.797	10:58	0.892	12:07	1.03		

All samples were collected during wet weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

The pH dropped abnormally low during the storm event on July 16th. The specific conductivity increased on July 9th-10th, July 13th, July 15th, July 19th, July 17th, July 28th, August 1st-2nd, August 3rd, and August 6th, which may have been the result of illicit discharges.

Gills Creek B (July 7, 2021 - August 9, 2021)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	15.5	350.0	36.6	64.2	51.0		
LOCATION:	Devine Street bridge	TEMPERATURE		00	20		0		
ADDRESS:	4716 Devine Street Columbia, SC 29209	(°F):	11	93	83	84	3		
COORDINATES:	33.989656, -80.97433		1	557	20	28	22		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		1	557	20	20			
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.0	6.8	6.4	6.4	0.1		
APPROX. DRAINAGE AREA:	59 square miles								
SPATIAL LOCATION:	Middle site	SPECIFIC	0.020	0.078	0.052	0.052	0.006		
TOTAL NO. STORMS OVER 0.1 INCH:	14	(mS/cm):	0.029	0.078	0.033	0.055	0.000		
MAX. DAILY RAINFALL:	1.5 inches	DISSOLVED	0.4	0.4	0.5	0.5	0.0		
TOTAL RAINFALL (FOR PERIOD):	6.8 inches	OXYGEN (mg/L):	3.1	8.1	6.5	6.5	0.6		
This discharge data is from the	e USGS 02169570 Gills Creek station.	Discharge & Rai	nfall			•			
800 Г							0.0		
80 400 E 200							1.0 g		
[™] 0 7/7 7/9 7/11	7/13 7/15 7/17 7/19	7/21 7/23 7/25	7/27	7/29 7/31	8/2 8/4	8/6 8/8	2.0 ² /2.0 8/10		
95 90 75 7/7 7/9 7/11 7/13 7/15 7/17 7/19 7/21 7/23 7/25 7/27 7/29 7/31 8/2 8/4 8/6 8/8 8/10									
		Turbidity							
2 400			•			•			
	- i - i - i	And a second							
7/7 7/9 7/11	7/13 7/15 7/17 7/19	7/21 7/23 7/2	25 7/27	7/29 7/31	8/2 8/4	8/6 8/8	8 8/10		
SCDHEC in-stream standard: All	pH values not less than 6.0 and not more t	nan 8.5 pH							
7.0 6.8 - 6.6									
6.4 6.2	- And			-	man-				
7/7 7/9 7/11	7/13 7/15 7/17 7/19	7/21 7/23 7/2	5 7/27	7/29 7/31	8/2 8/4	8/6 8/8	8 8/10		
0.08		Specific Conduc	tivity						
5 0.06	- And the second second	w		مسمسرك	Mahai				
7/7 7/9 7/11	7/13 7/15 7/17 7/19	7/21 7/23 7/2	25 7/27	7/29 7/31	8/2 8/4	8/6 8/	8 8/10		
SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L Discoluted Ovurgen									
			<u>~~</u>	$\gamma \gamma \gamma$	$\overline{\mathbf{M}}$				
2 7/7 7/9 7/11	7/13 7/15 7/17 7/19	7/21 7/23 7/	25 7/27	7/29 7/31	8/2 8/4	 	 8/8 8/10		
Note: Data gaps appear when the sono	de is removed for calibration or when	the flow depth is below the	sensors)		

REPORT GENERATED ON 08/30/2021

Gills Creek B (July 7, 2021 - August 9, 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)	7/20/	/2021	8/3/2021		8/3/2021		8/3/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	13:42	1,112	9:22	3,870	10:38	3,720	11:43	3,444
Total Suspended Solids (mg/L)	13:42	28.3	9:22	21	10:38	25.1	11:43	46.8
Total Phosphorus (mg/L)			9:22	0.061	10:38	0.049	11:43	0.063
Total Nitrogen (mg/L)			9:22	0.964	10:38	0.894	11:43	0.872

	Sample 5		Sample 6		Sample 7		Sample 8		
Analyte (units)	8/3/2021								
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli									
(MPN/100mL)									
Total Suspended	12.47	57.6							
Solids (mg/L)	13:47	13:47 5	57.0						
Total Phosphorus	13:47	0.078							
(mg/L)									
Total Nitrogen									
(mg/L)									

All samples were collected during wet weather conditions.

Gills Creek B (July 7, 2021 - August 9, 2021)

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

The specific conductivity parameter increased on July 9th-10th, July 13th, July 27th, August 3rd, and August 6th, which may have been the result of illicit discharges.

Gills Creek C (July 7, 2021 - August 9, 2021)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Gills Creek	STAGE (FT):	2.1	5.9	3.2	3.7	1.0	
LOCATION:	Bluff Road bridge		77	86	82	81		
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TEMPERATURE (*F):					2	
COORDINATES:	33.948043, -80.9889		3	207	10	14	15	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TORBIDITT (NTO).					15	
NEIGHBORING LANDUSE:	Residential and commercial		5.5	6.4	6.3	6.2	0.2	
APPROX. DRAINAGE AREA:	64 square miles	рп.					0.2	
SPATIAL LOCATION:	Most downstream site	SPECIFIC			0.0546		0.008	
TOTAL NO. STORMS OVER 0.1 INCH:	13	CONDUCTIVITY (mS/cm):	0.0243	0.0717		0.053		
MAX. DAILY RAINFALL:	1.88 inches	DISSOLVED			5.6	5.6		
TOTAL RAINFALL (FOR PERIOD):	8.0 inches	OXYGEN (mg/L):	4.9	7.0			0.3	











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

Gills Creek C (July 7, 2021 - August 9, 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)	7/20/2021		8/3/2021		8/3/2021		8/3/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:05	242	9:40	244	11:10	452	13:27	218
Total Suspended Solids (mg/L)	14:05	12	9:40	7.8	11:10	8.9	13:27	10
Total Phosphorus (mg/L)			9:40	0.19	11:10	0.048	13:27	ND
Total Nitrogen (mg/L)			9:40	0.877	11:10	0.842	13:27	0.805

All samples were collected during wet weather conditions.

Notes:

Data Gaps

Stage and rainfall data was not recorded from August 2nd to August 9th 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 July 8th, July 16th, and August 7th.