Gills Creek A (November 8, 2023 - December 18, 2023)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDAR DEVIATIO		
STREAM NAME:	Gills Creek	STAGE (FT):	1.5	4.8	1.7	1.9	0.6		
LOCATION:	Forest Drive Bridge								
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TEMPERATURE (°F):	51	65	55	57	4		
COORDINATES:	34.019826, -80.963566	TURBIDITY (NTU):	4	159	7	9	9		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TORBIBITT (NTO).	7	155	,	3	9		
NEIGHBORING LANDUSE:	Residential and commercial								
APPROX. DRAINAGE AREA:	48 square miles	pH:	6.4	6.8	6.5	6.5	0.1		
SPATIAL LOCATION:	Most upstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	6	CONDUCTIVITY (mS/cm):	0.033	0.059	0.044	0.044	0.002		
MAX. DAILY RAINFALL:	1.7 inches	DISSOLVED							
TOTAL RAINFALL	4.7 inches	OXYGEN (mg/L):	9.0	10.9	10.1	10.1	0.4		
(FOR PERIOD):		<u>.I.</u>		!	ļ				
8		Stage & Rain	tall		177		0.0		
# 6 e e e e e e e e e e e e e e e e e e							0.0 0.3 0.5 0.8		
2 0	 						0.8		
	11/14 11/16 11/18 11/20 11/22	2 11/24 11/26 11/28 1	1/30 12/2 12	2/4 12/6 12/	8 12/10 12/12	12/14 12/16	12/18		
7.		Water Ten	ıp						
75									
55	~~~~					~			
45				<u> </u>	<u> </u>				
11/8 11/10 11/12	11/14 11/16 11/18 11/20 11/2	22 11/24 11/26 11/28	11/30 12/2	12/4 12/6 12	2/8 12/10 12/1	2 12/14 12/16	12/18		
		Turbidit							
200		Turblut	<u>y</u>						
150 100 -									
50							★		
	11/14 11/16 11/18 11/20 11	/22 11/24 11/26 11/28	11/30 12/2	12/4 12/6 1	12/8 12/10 12/2	12 12/14 12/10	5 12/18		
	ard: All pH values not less than 6.0 and not	more than 8.5 pH							
7.0	200000								
E 6.5			^ -			~~	**************************************		
6.0					 				
	11/14 11/16 11/18 11/20 11/2	22 11/24 11/26 11/28	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	12 12/14 12/1	5 12/18		
	11/14 11/16 11/18 11/20 11/:	22 11/24 11/26 11/28	11/30 12/2	12/4 12/6 1	2/8 12/10 12/2	12 12/14 12/1	5 12/18		
11/8 11/10 11/12	11/14 11/16 11/18 11/20 11/2	22 11/24 11/26 11/28 Specific Con		12/4 12/6 1	2/8 12/10 12/2	12 12/14 12/1	5 12/18		
0.08	11/14 11/16 11/18 11/20 11/.			12/4 12/6 1	2/8 12/10 12/2	12 12/14 12/1	5 12/18		
0.08	11/14 11/16 11/18 11/20 11/.			12/4 12/6 1	2/8 12/10 12/2	12 12/14 12/1	5 12/18		
0.08	11/14 11/16 11/18 11/20 11/.			12/4 12/6 1	2/8 12/10 12/:	12 12/14 12/1	5 12/18		
11/8 11/10 11/12 0.08 0.06 0.04 0.02			ductivity			12 12/14 12/1			
11/8 11/10 11/12 0.08 0.06 0.04 0.02		Specific Con	ductivity						
11/8 11/10 11/12 0.08 0.06 0.04 0.02 11/8 11/10 11/12 SCDHEC in-stream star		Specific Con //22 11/24 11/26 11/28	ductivity		12/10 12/2		5 12/18		
11/8 11/10 11/12 0.08 0.06 0.04 0.02 11/8 11/10 11/12 SCDHEC in-stream star	11/14 11/16 11/18 11/20 11/	Specific Con //22 11/24 11/26 11/28	11/30 12/2		12/10 12/2	12 12/14 12/1	5 12/18		
11/8 11/10 11/12 0.08 0.06 0.04 0.02 11/8 11/10 11/12 SCDHEC in-stream star	11/14 11/16 11/18 11/20 11/	Specific Con //22 11/24 11/26 11/28	11/30 12/2		12/10 12/2	12 12/14 12/1	5 12/18		

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

Gills Creek A (November 8, 2023 - December 18, 2023)

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)	11/16/2023		11/21/2023		11/21/2023		11/21/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	13:50	ND	11:40	6,150	12:21	5,210	13:31	2,930
Total Suspended Solids (mg/L)			11:40	38.8				
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during dry weather conditions. Samples 2 - 4 were collected during wet weather conditions.

Notes:

Data Gaps

There were data gaps from 11/8 to 11/14 for all water quality parameters due to instrument repairs.

Potential Illicit Discharges and Abnormal Events:

There were multiple instances of increased specfic conductivity throughout the monitoring period, most notably on 11/21, 12/6 and 12/10, which may have been the result of illicit discharges.

Gills Creek B (November 8, 2023 - December 18, 2023)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	1.6	703.0	36.6	72.6	112.5		
LOCATION:	Devine Street bridge 4716 Devine Street	TEMPERATURE (°F):	51	66	56	57	4		
ADDRESS: COORDINATES:	Columbia, SC 29209 33.989656, -80.97433	().							
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	7	88	14	17	11		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	6.7	6.5	6.5	0.1		
APPROX. DRAINAGE AREA:	59 square miles	pri.	0.1	0.7	0.5	0.5	0.1		
SPATIAL LOCATION: TOTAL NO. STORMS OVER	Middle site	SPECIFIC CONDUCTIVITY	0.039	0.075	0.053	0.053	0.004		
0.1 INCH:	4	(mS/cm):							
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR PERIOD):	1.7 inches 3.9 inches	DISSOLVED OXYGEN (mg/L):	3.0	10.3	8.4	8.3	0.9		
	USGS 02169570 Gills Creek station.	Discharge & Rair	a fall			ļ			
This discharge data is from the series of th		11/24 11/26 11/28 11/2		4 12/6 12/8	12/10 12/12	12/14 12/16	0.0 us		
75 65 55 45 11/8 11/10 11/12 11/14	11/16 11/18 11/20 11/22	Water Temp	30 12/2 12	/4 12/6 12/8	3 12/10 12/12	12/14 12/16	12/18		
100		Turbidity							
75 50 25 0 11/8 11/10 11/12 11/12	14 11/16 11/18 11/20 11/22	11/24 11/26 11/28 11	1/30 12/2 1	2/4 12/6 12/	/8 12/10 12/12	2 12/14 12/16	12/18		
7.0 6.8 6.5 6.3 6.0	pH values not less than 6.0 and not more 11/16 11/18 11/20 11/22	**************************************	/30 12/2 12	2/4 12/6 12/	8 12/10 12/12	2 12/14 12/16	12/18		
		Specific Conduc	ctivity						
© 0.08 © 0.04 0.02 11/8 11/10 11/12 11/14	4 11/16 11/18 11/20 11/22	11/24 11/26 11/28 11	./30 12/2 1	2/4 12/6 12,	/8 12/10 12/1:	2 12/14 12/16	12/18		
SCDHEC in-stream standard: 12 8 4 0 11/8 11/10 11/12 11/12	Daily average not less than 5 mg/L with a l	low of 4 mg/L Dissolved Ox Diss		12/4 12/6 17	2/8 12/10 12/	4 mg/L (SCDHEC	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		

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

Gills Creek B (November 8, 2023 - December 18, 2023)

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)	Sam	ple 1	Sample 2		Sample 3		Sample 4	
	11/16/2023		11/21/2023		11/21/2023		11/21/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	13:35	126	11:15	4560	12:06	3,130	13:47	2,710
Total Suspended Solids (mg/L)			11:15	43.6				
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Sample 1 was collected during dry weather conditions. Samples 2 - 4 were collected during wet weather conditions.

Notes:

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 11/21 and 12/4 through 12/12, which may have been the result of potential illicit discharges.

Gills Creek C (November 8, 2023 - December 18, 2023)

			CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	,	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Gills Creek		STAGE (FT):	1.5	8.0	3.3	3.6	1.3	
LOCATION:	Bluff Road bridge								
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209		TEMPERATURE (°F):	-	-	=	-	-	
COORDINATES:	33.948043, -80.9889								
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		TURBIDITY (NTU):	-	-	-	-	-	
NEIGHBORING LANDUSE:	Residential and commercial								
APPROX. DRAINAGE AREA:	64 square miles		pH:	-	-	-	-	-	
SPATIAL LOCATION:	Most downstream site		SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	6	(CONDUCTIVITY (mS/cm):	-	-	-	-	-	
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	0.87 inches		DISSOLVED OXYGEN (mg/L):	-	-	-	-	-	
PERIOD):				<u>!</u>	ļ	ļ	ļ	<u> </u>	
12			Stage & Rain	fall				0.00	
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5 3								0.40 0.60 0.80	
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			Water Ten	np					
80 70			Water Ten	np					
70 - 60			Water Ten	np					
70 60 50 40									
70 60 50 40	11/14 11/16 11/18 11/20 11/2	/22			12/4 12/6 12	2/8 12/10 12/17	2 12/14 12/16	12/18	
70 60 50 40	11/14 11/16 11/18 11/20 11/2	/22	11/24 11/26 11/28	11/30 12/2	12/4 12/6 12	2/8 12/10 12/12	2 12/14 12/16	12/18	
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70 60 50 40 11/8 11/10 11/12			11/24 11/26 11/28 Turbidity	11/30 12/2					
70 50 11/8 11/10 11/12 45 15 0 11/8 11/10 11/12 SCDHEC in-stream standa		1/22	Turbidity 11/24 11/26 11/28	11/30 12/2					
2	11/14 11/16 11/18 11/20 11	1/22	11/24 11/26 11/28 Turbidity	11/30 12/2					
70 50 40 11/8 11/10 11/12 2 30 15 0 11/8 11/10 11/12 SCDHEC in-stream standar 7.0 6.5	11/14 11/16 11/18 11/20 11	1/22	11/24 11/26 11/28 Turbidity	11/30 12/2					
2	11/14 11/16 11/18 11/20 11	1/22	11/24 11/26 11/28 Turbidity	11/30 12/2					
70 60 11/8 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1		12/18	
45 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12 11/18 11/10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
45 30 11/8 11/10 11/12 45 30 11/8 11/10 11/12 SCDHEC in-stream standa 7.0 6.5 6.0 5.5 11/8 11/10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
45 50 11/8 11/10 11/12 45 15 11/8 11/10 11/12 6.5 6.0 5.5 11/8 11/10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
45 50 11/8 11/10 11/12 45 15 11/8 11/10 11/12 6.5 6.0 5.5 11/8 11/10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
2 0.09 2 10 11/12	11/14 11/16 11/18 11/20 11	it more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH	11/30 12/2	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
# 60	11/14 11/16 11/18 11/20 11	11/22 out more	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH 11/24 11/26 11/28 Specific Con	11/30 12/2 11/30 12/2 11/30 12/2 ductivity	12/4 12/6 1	2/8 12/10 12/1	2 12/14 12/16	12/18	
70	11/14 11/16 11/18 11/20 11 Ird: All pH values not less than 6.0 and not	t more //22 //22	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH 11/24 11/26 11/28 Specific Con	11/30 12/2 11/30 12/2 11/30 12/2 ductivity	12/4 12/6 1	2/8 12/10 12/1 2/8 12/10 12/1 12/8 12/10 12/1	2 12/14 12/16	12/18	
70 60 11/8 11/10 11/12 45 30 11/8 11/10 11/12 SCDHEC in-stream standa 7.0 5.5 11/8 11/10 11/12 50.09 0.03 0.00 11/8 11/10 11/12 SCDHEC in-stream standa	11/14 11/16 11/18 11/20 11 urd: All pH values not less than 6.0 and not 11/14 11/16 11/18 11/20 11/ 11/14 11/16 11/18 11/20 11/	t more //22 //22	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH 11/24 11/26 11/28 Specific Con	11/30 12/2 11/30 12/2 11/30 12/2 ductivity	12/4 12/6 1	2/8 12/10 12/1 2/8 12/10 12/1 12/8 12/10 12/1	2 12/14 12/16	12/18	
70	11/14 11/16 11/18 11/20 11 urd: All pH values not less than 6.0 and not 11/14 11/16 11/18 11/20 11/ 11/14 11/16 11/18 11/20 11/	t more //22 //22	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH 11/24 11/26 11/28 Specific Con	11/30 12/2 11/30 12/2 11/30 12/2 ductivity	12/4 12/6 1	2/8 12/10 12/1 2/8 12/10 12/1 12/8 12/10 12/1	2 12/14 12/16	12/18	
70	11/14 11/16 11/18 11/20 11 urd: All pH values not less than 6.0 and not 11/14 11/16 11/18 11/20 11/ 11/14 11/16 11/18 11/20 11/	t more //22 //22	Turbidity 11/24 11/26 11/28 Turbidity 11/24 11/26 11/28 than 8.5 pH 11/24 11/26 11/28 Specific Con	11/30 12/2 11/30 12/2 11/30 12/2 ductivity	12/4 12/6 1	2/8 12/10 12/1 2/8 12/10 12/1 12/8 12/10 12/1	2 12/14 12/16	12/18	

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

Gills Creek C (November 8, 2023 - December 18, 2023)

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:

	Sam	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	11/16/2023		11/21/2023		11/21/2023		11/21/2023		
	Time	Results	Time	Results	Time	Results	Time	Results	
Escherichia coli (MPN/100mL)	11:45	62	10:45	990	11:49	6,900	14:00	3,570	
Total Suspended Solids (mg/L)			10:45	16.4					
Total Phosphorus (mg/L)									
Total Nitrogen (mg/L)									

Sample 1 was collected during dry weather conditions. Samples 2 - 4 were collected during wet weather conditions.

Notes:

Data Gaps

No temperature, turbididty, pH, specific conductivity and DO data was collected during this monitoring period because the sensors were out for maintenance. There was a data gap in rainfall data from 11/13 - 12/7 due to instrument malfunction.

Potential Illicit Discharges and Abnormal Events:

N/A