# Gills Creek A (February 10, 2022 - March 16, 2022)

		CONTINUOUS WATER		SU	MMARY STATIS	STICS	
PARAMETER	DESCRIPTION	QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	1.3	2.8	1.9	1.9	0.3
LOCATION:	Devine Street bridge		10		=0		_
ADDRESS:	4716 Devine Street Columbia, SC 29209	TEMPERATURE (°F):	49	68	59	59	5
COORDINATES:	33.989656, -80.97433		_				
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	-	-	-	-	-
NEIGHBORING LANDUSE:	Residential and commercial						
APPROX. DRAINAGE AREA:	59 square miles	pH:	6.5	7.0	6.7	6.7	0.1
SPATIAL LOCATION:	Middle site	SPECIFIC					
TOTAL NO. STORMS OVER 0.1 INCH:	5	CONDUCTIVITY (mS/cm):	0.039	0.108	0.065	0.066	0.014
MAX. DAILY RAINFALL:	1.1 inches	DISSOLVED OXYGEN					
TOTAL RAINFALL (FOR PERIOD):	2.8 inches	(mg/L):	7.7	11.3	9.4	9.6	0.8
This discharge data is from th	e USGS 02169570 Gills Creek station.	Discharge & Rai	infall	-	-	-	•
8 6		1°					0.00
							0.50
0	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/4	3/6 3,	/8 3/10 3	3/12 3/14	3/16
75	<u> </u>	Water Temp					
ب <sup>65</sup>							
55 45							
2/10 2/12 2/14	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/4	4 3/6 3	3/8 3/10	3/12 3/14	3/16
		Turbidity					
400							
P 200 100							
2/10 2/12 2/14	2/16 2/18 2/20 2/2	2 2/24 2/26 2/28	3/2 3/	/4 3/6	3/8 3/10	3/12 3/14	3/16
	2,10 2,10 2,20 2,2	2 2/24 2/20 2/20	5/2 5/	,- 3,0	5/0 5/10	5/12 5/14	5,10
SCDHEC in-stream standard: All	pH values not less than 6.0 and not mo	re than 8.5 pH					
7.0 <b>E</b> 6.8			~~	m		Ant	
6.6							
6.4 2/10 2/12 2/14	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/	4 3/6	3/8 3/10	3/12 3/14	3/16
0.12		Specific Condu	ctivity				
U.09 0.06 0.03			$\frown$				
						Y	
0.00 +	2/16 2/18 2/20 2/2	2 2/24 2/26 2/28	3/2 3,	/4 3/6	3/8 3/10	3/12 3/14	3/16
		h a low of 4 Dissolved O	xygen			4 mg/L (SCDHEC	Low Standard)
12	: Daily average not less than 5 mg/L wit						
12	: Daily average not less than 5 mg/L wit						
12	: Daily average not less than 5 mg/L wil						

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

#### Gills Creek A (February 10, 2022 - March 16, 2022)

### **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	ple 1						
Analyte (units)	3/9/	2022						
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:48	352						
Total Suspended Solids (mg/L)	14:48	4.80						
Total Phosphorus (mg/L)	14:48	0.027						
Total Nitrogen (mg/L)	14:48	0.721						

Sample 1 was collected during wet weather conditions.

### Notes:

Data Gaps

Turbidity data was not collected during this monitoring period because the sensor was out for repairs.

#### Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on February 13th, February 23rd, February 26th to March 2nd, March 3rd, and March 14th that may have been the result of illicit discharges.

# Gills Creek B (February 10, 2022 - March 16, 2022)

		CONTINUOUS WATER	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION	
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	10.6	199.0	39.7	38.9	20.5	
LOCATION:	Devine Street bridge		40	70	50	50	-	
ADDRESS:	4716 Devine Street Columbia, SC 29209	TEMPERATURE (°F):	48	72	59	59	5	
COORDINATES:	33.989656, -80.97433	TURBIDITY (NTU):	3	325	13	18	18	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TORBIDITT (NTO).	3	525	15	10	10	
NEIGHBORING LANDUSE:	Residential and commercial			0.7	0.5	0.5	0.4	
APPROX. DRAINAGE AREA:	59 square miles	pH:	6.4	6.7	6.5	6.5	0.1	
SPATIAL LOCATION:	Middle site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	5	CONDUCTIVITY (mS/cm):	0.020	0.099	0.070	0.070	0.010	
MAX. DAILY RAINFALL:	1.1 inches	DISSOLVED OXYGEN						
TOTAL RAINFALL (FOR PERIOD):	2.8 inches	(mg/L):	7.4	11.0	9.1	9.2	0.9	
This discharge data is from the	e USGS 02169570 Gills Creek station.	Discharge & Rai	nfall			•		
400					,		0.00 0.25	
							0.00	
0 2/10 2/12 2/14 2	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/4	3/6 3/	/8 3/10 3	8/12 3/14	3/16	
75		Water Temp						
ب <sup>65</sup>				$\mathcal{M}$				
55 45				•				
2/10 2/12 2/14	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/4	4 3/6 3	3/8 3/10	3/12 3/14	3/16	
2/10 2/12 2/14	2/16 2/18 2/20 2/22		3/2 3/4	4 3/6 3	3/8 3/10	3/12 3/14	3/16	
400	2/16 2/18 2/20 2/22	2/24 2/26 2/28	3/2 3/4	4 3/6 3	3/8 3/10	3/12 3/14	3/16	
400 300 200	2/16 2/18 2/20 2/22		3/2 3/4	4 3/6 3	3/8 3/10	3/12 3/14	3/16	
P 400 300 200 100 0		Turbidity						
P 200 100	2/16 2/18 2/20 2/22	Turbidity			3/10		3/16	
<b>P</b> 400 300 200 0 2/10 2/12 2/14		Turbidity						
6.6 6.6 6.6	2/16 2/18 2/20 2/2	<b>Turbidity</b>						
6.8 6.6 6.4 6.4	2/16 2/18 2/20 2/2	<b>Turbidity</b>						
<b>E</b> 400 300 200 100 0 2/10 2/12 2/14 <b>SCDHEC</b> in-stream standard: All 6.6 6.4 6.2	2/16 2/18 2/20 2/2	Turbidity       22     2/24     2/26     2/28       ore than 8.5     pH		/4 3/6				
E 400 300 200 100 2/10 2/12 2/14 SCDHEC in-stream standard: All 6.8 6.4 6.2 6.2	2/16 2/18 2/20 2/2 PH values not less than 6.0 and not mo	Turbidity       22     2/24     2/26     2/28       ore than 8.5     pH	3/2 3/	/4 3/6	3/8 3/10	3/12 3/14	3/16	
B C C C C C C C C C C C C C	2/16 2/18 2/20 2/2 PH values not less than 6.0 and not mo	Turbidity   22 2/24 2/26 2/28   ore than 8.5 pH   22 2/24 2/26 2/28	3/2 3/	/4 3/6	3/8 3/10	3/12 3/14	3/16	
<b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	2/16 2/18 2/20 2/2 PH values not less than 6.0 and not mo	Turbidity   22 2/24 2/26 2/28   ore than 8.5 pH   22 2/24 2/26 2/28	3/2 3/	/4 3/6	3/8 3/10	3/12 3/14	3/16	
400     300     200     100     2/10     2/10     2/12     2/12     2/12     2/10     2/12     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/14	2/16 2/18 2/20 2/2 pH values not less than 6.0 and not mc 2/16 2/18 2/20 2/22	Turbidity   22 2/24 2/26 2/28   Dre than 8.5 pH   2 2/24 2/26 2/28   Dre than 8.5 pH   Specific Condu	3/2 3/ 3/2 3/ 3/2 3/ ctivity	4 3/6	3/8 3/10	3/12 3/14	3/16	
<b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	2/16 2/18 2/20 2/2 PH values not less than 6.0 and not mo	Turbidity   22 2/24 2/26 2/28   Dre than 8.5 pH   2 2/24 2/26 2/28   Dre than 8.5 pH   Specific Condu	3/2 3/	4 3/6	3/8 3/10	3/12 3/14	3/16	
400     300     200     200     00     2/10     2/10     2/10     2/12     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/14	2/16 2/18 2/20 2/2 pH values not less than 6.0 and not mc 2/16 2/18 2/20 2/22	Turbidity   22 2/24 2/26 2/28   ore than 8.5 pH   2 2/24 2/26 2/28   Specific Condu   2   2 2/24 2/26 2/28	3/2 3/ 3/2 3/ 3/2 3/ ctivity 3/2 3/	4 3/6	3/8 3/10	3/12 3/14	3/16 3/16 3/16	
400     300     200     200     00     2/10     2/10     2/10     2/12     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/10     2/12     2/14	2/16 2/18 2/20 2/2 pH values not less than 6.0 and not mo 2/16 2/18 2/20 2/22 2/16 2/18 2/20 2/22	Turbidity   22 2/24 2/26 2/28   ore than 8.5 pH   2 2/24 2/26 2/28   Specific Condu   2   2 2/24 2/26 2/28	3/2 3/ 3/2 3/ 3/2 3/ ctivity 3/2 3/	4 3/6	3/8 3/10	3/12 3/14 3/12 3/14 3/12 3/14	3/16 3/16 3/16	
<b>SCDHEC</b> in-stream standard: All <b>SCDHEC</b> in-stream standard: All <b>SCDHE</b>	2/16 2/18 2/20 2/2 pH values not less than 6.0 and not mo 2/16 2/18 2/20 2/22 2/16 2/18 2/20 2/22	Turbidity   22 2/24 2/26 2/28   ore than 8.5 pH   2 2/24 2/26 2/28   Specific Condu   2   2 2/24 2/26 2/28	3/2 3/ 3/2 3/ 3/2 3/ ctivity 3/2 3/	4 3/6	3/8 3/10	3/12 3/14 3/12 3/14 3/12 3/14	3/16 3/16 3/16	

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

#### Gills Creek B (February 10, 2022 - March 16, 2022)

### **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	ple 1	Sam	ple 2				
Analyte (units)	2/21,	/2022	3/9/2	2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	13:47	132	14:15	346				
Total Suspended Solids (mg/L)	13:46	9.1	14:15	5.7				
Total Phosphorus (mg/L)			14:15	0.022				
Total Nitrogen (mg/L)			14:15	0.56				

Sample 1 was collected during dry weather conditions. Sample 2 was 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 February 28th, February 20th, and February 24th to March 4th that may have been the result of an illicit discharge.

#### Gills Creek C (February 10, 2022 - March 16, 2022)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION	
STREAM NAME:	Gills Creek	STAGE (FT):	2.5	4.7	3.2	3.2	0.4	
LOCATION:	Bluff Road bridge						_	
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TEMPERATURE (°F):	47	70	59	59	5	
COORDINATES:	33.948043, -80.9889							
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	-	-	-	-	-	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.4	6.7	6.5	6.5	0.1	
APPROX. DRAINAGE AREA:	64 square miles	pri.	0.4	0.7	0.0	0.0	0.1	
SPATIAL LOCATION:	Most downstream site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	6	CONDUCTIVITY (mS/cm):	0.057	0.102	0.076	0.078	0.010	
MAX. DAILY RAINFALL:	1.61 inches	DISSOLVED	6.6	11.2	8.4	8.6	1.1	
TOTAL RAINFALL (FOR PERIOD):	3.6 inches	OXYGEN (mg/L):	0.0	11.2	0.4	0.0	1.1	
12		Stage & Rainf	all				0.0	
# 8 % 8 0 0	2/16 2/18 2/20 2/22	2 2/24 2/26 2/28	3/2 3/	4 3/6 3	3/8 3/10	3/12 3/14	0.5 0.5 1.0 1.5 3/16	
2/10 2/12 2/14 75		Water Tem	p					
75	2/16 2/18 2/20 2/2		~~~	/4 3/6	3/8 3/10	3/12 3/14	3/16	
75 65 55 45 2/10 2/12 2/14	2/16 2/18 2/20 2/2 lable because the sensor was out for repain	2 2/24 2/26 2/28	~~~	/4 3/6	3/8 3/10	3/12 3/14	3/16	
75 65 55 45 2/10 2/12 2/14	lable because the sensor was out for repair	2 2/24 2/26 2/24	3 3/2 3,	/4 3/6	3/8 3/10	3/12 3/14	3/16	
<b>F</b> <b>F</b> <b>F</b> <b>F</b> <b>F</b> <b>F</b> <b>F</b> <b>F</b>	lable because the sensor was out for repair	2 2/24 2/26 2/24	3 3/2 3,					
Function of the second	lable because the sensor was out for repair	2 2/24 2/26 2/24	3 3/2 3,					
F CDHEC in-stream standa	lable because the sensor was out for repair	2 2/24 2/26 2/24	3 3/2 3,					
F 55 45 2/10 2/12 2/14 F 100 75 50 2/10 2/12 2/14 F 100 75 50 2/10 2/12 2/14 F 100 75 50 2/10 2/12 2/14 F 100 2/10 2/12 2/14 F 100 2/10 2/12 2/14	lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not	2 2/24 2/26 2/24	3 3/2 3, 28 3/2 3 8 3/2 3	3/4 3/6	3/8 3/10	3/12 3/14	3/16	
F 55 45 2/10 2/12 2/14 Turbidity data not avail	lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not	2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/ more than 8.5 pH 22 2/24 2/26 2/2	3 3/2 3, 28 3/2 3 8 3/2 3	3/4 3/6	3/8 3/10	3/12 3/14	3/16	
75     65     55     45     2/10     2/10     75     25     0     210     211 <td>lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not</td> <td>2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/ more than 8.5 pH 22 2/24 2/26 2/2</td> <td>3 3/2 3, 28 3/2 3 8 3/2 3</td> <td>3/4 3/6</td> <td>3/8 3/10</td> <td>3/12 3/14</td> <td>3/16</td>	lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not	2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/ more than 8.5 pH 22 2/24 2/26 2/2	3 3/2 3, 28 3/2 3 8 3/2 3	3/4 3/6	3/8 3/10	3/12 3/14	3/16	
<b>F</b> <b>CDHEC</b> in-stream standa <b>CDHEC</b> in-stream standa	lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not 2/16 2/18 2/20 2/2	2 2/24 2/26 2/24 TS. Turbidity /22 2/24 2/26 2/ more than 8.5 pH 22 2/24 2/26 2/2 Specific Cond	3 3/2 3, 28 3/2 2 28 3/2 3 uctivity	3/4 3/6	3/8 3/10	3/12 3/14	3/16	
75   65     55   45     2/10   2/12     2/10   2/12     100   75     50   25     0   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12	Iable because the sensor was out for repair     4   2/16   2/18   2/20   2/     ard: All pH values not less than 6.0 and not     2/16   2/18   2/20   2/2     2/16   2/18   2/20   2/2     4   2/16   2/18   2/20   2/2	2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/2 more than 8.5 pH 22 2/24 2/26 2/2 Specific Cond 22 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2	3 3/2 3, 3 3/2 3, 28 3/2 3 28 3/2 3 uctivity 28 3/2 3	3/4 3/6	3/8 3/10	3/12 3/14	3/16 3/16	
75   65     55   45     2/10   2/12     2/10   2/12     100   75     50   25     0   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12     2/10   2/12	lable because the sensor was out for repair 4 2/16 2/18 2/20 2/ ard: All pH values not less than 6.0 and not 2/16 2/18 2/20 2/2	2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/2 more than 8.5 pH 22 2/24 2/26 2/2 Specific Cond 22 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2	3 3/2 3, 28 3/2 2 28 3/2 3 uctivity	3/4 3/6	3/8 3/10	3/12 3/14	3/16 3/16	
75     65     55     45     2/10	Iable because the sensor was out for repair     4   2/16   2/18   2/20   2/     ard: All pH values not less than 6.0 and not     2/16   2/18   2/20   2/2     2/16   2/18   2/20   2/2     4   2/16   2/18   2/20   2/2	2 2/24 2/26 2/24 rs. Turbidity /22 2/24 2/26 2/2 more than 8.5 pH 22 2/24 2/26 2/2 Specific Cond 22 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2 12 2/24 2/26 2/2	3 3/2 3, 3 3/2 3, 28 3/2 3 28 3/2 3 uctivity 28 3/2 3	3/4 3/6	3/8 3/10	3/12 3/14	3/16 3/16	

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

REPORT GENERATED ON 8/1/2022

#### Gills Creek C (February 10, 2022 - March 16, 2022)

#### **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	ple 1	Sam	mple 2				
Analyte (units)	2/21,	/2022	3/9/2	2022				
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:17	31	13:20	40				
Total Suspended Solids (mg/L)	14:16	3.80	13:20	5.70				
Total Phosphorus (mg/L)			13:20	0.038				
Total Nitrogen (mg/L)			13:20	8.45				

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

### Notes:

Data Gaps

Turbidity data was not collected during this monitoring period because the sensor was out for repairs.

#### Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased from February 24th to March 5th, that may have been the result of illicit discharges.