Gills Creek A (April 28, 2021 - June 2, 2021)

				CONTINUOUS		SUMMARY STATISTICS				
PARAMETER	DESCRIF	PTION		R QUALITY METERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARI DEVIATION	
STREAM NAME:	Gills Cr	reek	STAG	E (FT):	1.4	2.5	1.6	1.7	0.3	
LOCATION:	Forest Drive	e Bridge								
ADDRESS:	4840 Fores Columbia, S		TEMP	ERATURE (°F):	69	86	75	76	4	
COORDINATES:	34.019826, -8	30.963566	TURRI	IDITY (NTU):	3	134	5	6	8	
TMDL/IMPAIRMENT:	Fecal & Dissolv	ved Oxygen	TOKE			104	J	Ü		
NEIGHBORING LANDUSE:	Residential and	commercial	pH:		6.5	7.1	6.8	6.8	0.1	
APPROX. DRAINAGE AREA:	48 square	e miles								
SPATIAL LOCATION:	Most upstre	eam site	SPECI		0.037					
TOTAL NO. STORMS OVER 0.1 INCH:	4			CONDUCTIVITY (mS/cm):		0.052	0.044	0.044	0.001	
MAX. DAILY RAINFALL:	1.3 inch	nes	DISSO	OLVED						
TOTAL RAINFALL (FOR PERIOD):	2.5 inc	hes		EN (mg/L):	5.9	8.9	7.9	7.7	0.7	
9				Stage & Rain	fall				0.0	
3 4 6 4 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									0.3	
3 0									0.3 0.6 0.9	
4/28 4/30 5/2	5/4 5/6	5/8 5/10	5/12	5/14 5/16	5/18 5/20	5/22 5/24	5/26 5/28	5/30 6/1		
				Water Ten	np					
90										
85								^_		
	~~~~	ww-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~	~~	~~~	M	~~~		
85 80 75	5/4 5/6	5/8 5/10	0 5/12	5/14 5/16	5/18 5/20		4 5/26 5/2	28 5/30 6,	/1 6/3	
85 80 75 75 70 65	5/4 5/6	5/8 5/10	0 5/12		5/18 5/20		4 5/26 5/2	28 5/30 6,	/1 6/3	
85 75 70 65 4/28 4/30 5/2	5/4 5/6	5/8 5/10	0 5/12	5/14 5/16  Turbidit	5/18 5/20		4 5/26 5/2	28 5/30 6,	/1 6/3	
85 75 70 65 4/28 4/30 5/2	5/4 5/6	5/8 5/10			5/18 5/20		4 5/26 5/2	88 5/30 6,	6/3	
85 75 70 65 4/28 4/30 5/2					5/18 5/20 Y	5/22 5/24			/1 6/3	
85 75 76 4/28 4/30 5/2				Turbidit 5/14 5/16	5/18 5/20 Y	5/22 5/24				
85 75 76 4/28 4/30 5/2				Turbidit	5/18 5/20 Y	5/22 5/24				
85 75 77 75 76 4/28 4/30 5/2				Turbidit 5/14 5/16	5/18 5/20 Y	5/22 5/24				
150 4/28 4/30 5/2 100 50 0 4/28 4/30 5/2			/10 5/12	Turbidit 5/14 5/16	5/18 5/20 Y	20 5/22 5/2	24 5/26 5/	28 5/30 E		
85 80 75 75 76 4/28 4/30 5/2	2 5/4 5/6	5/8 5/	/10 5/12	5/14 5/16	5/18 5/20 y 5/18 5/20	20 5/22 5/2	24 5/26 5/	28 5/30 €	5/1 6/3	
150 150 100 100 100 100 100 100	2 5/4 5/6	5/8 5/	/10 5/12	Turbidit 5/14 5/16	5/18 5/20 y 5/18 5/20	20 5/22 5/2	24 5/26 5/	28 5/30 €	5/1 6/3	
150 150 100 100 100 100 100 100	2 5/4 5/6	5/8 5/	/10 5/12	5/14 5/16	5/18 5/20 y 5/18 5/20	20 5/22 5/2	24 5/26 5/	28 5/30 €	5/1 6/3	
150 150 100 100 100 100 100 100	2 5/4 5/6	5/8 5/	/10 5/12	5/14 5/16	5/18 5/20 y 5/18 5/20	20 5/22 5/2	24 5/26 5/	28 5/30 €	5/1 6/3	
2 150 100 100 100 100 100 100 100	2 5/4 5/6	5/8 5/	0 5/12	5/14 5/16	5/18 5/20 y 5/18 5/2 ductivity	20 5/22 5/2	24 5/26 5/	28 5/30 €	5/1 6/3	
150 150 100 100 100 100 100 100	2 5/4 5/6	5/8 5/ 5/8 5/1 5/8 5/1	0 5/12 10 5/12	Turbidit 5/14 5/16  pH  5/14 5/16  Specific Con	5/18 5/20 y 5/18 5/2 ductivity	20 5/22 5/2	24 5/26 5/ 24 5/26 5/	28 5/30 €	5/1 6/3	
150 150 100 100 100 100 100 100	2 5/4 5/6 5/4 5/6	5/8 5/ 5/8 5/1 5/8 5/1	0 5/12 10 5/12	Turbidit 5/14 5/16  pH  5/14 5/16  Specific Con	5/18 5/20  y  5/18 5/20  ductivity  5/18 5/2	20 5/22 5/2	24 5/26 5/ 24 5/26 5/	28 5/30 €	5/1 6/3	
7.2 7.0 6.8 6.8 6.6 6.4 4/28 4/30 5/2 150 0 4/28 4/30 5/2 150 0 4/28 4/30 5/2 150 0 4/28 4/30 5/2 150 0 100 100 100 100 100 100	2 5/4 5/6 5/4 5/6	5/8 5/ 5/8 5/1 5/8 5/1	0 5/12 10 5/12	Turbidit 5/14 5/16  pH  5/14 5/16  Specific Con	5/18 5/20  y  5/18 5/20  ductivity  5/18 5/2	20 5/22 5/2	24 5/26 5/ 24 5/26 5/	28 5/30 €	5/1 6/3	

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

Gills Creek A (April 28, 2021 - June 2, 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)	5/12/2021		5/12/2021		5/12/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	11:20	1,918	12:52	1,570	13:54	1,262		
Total Suspended Solids (mg/L)	11:20	42.8	12:52	30	13:54	34		
Total Phosphorus (mg/L)	11:20	0.079	12:52	0.063	13:54	0.062		
Total Nitrogen (mg/L)	11:20	0.9	12:52	0.69	13:54	1.11		

All samples were collected during wet weather conditions.

#### **Notes:**

#### **Data Gaps**

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

## Potential Illicit Discharges and Abnormal Events:

The specific conductivity increased on May 4<sup>th</sup>, May 13<sup>th</sup>-14<sup>th</sup>, and May 29<sup>th</sup>. These events may have been the result of illicit discharges.

#### Gills Creek B (April 28, 2021 - June 2, 2021)

STREAM NAME:	DE205:55:	CONTINUO		SUMMARY STATISTICS					
STREAM NAME:	DESCRIPTION	WATER QI PARAMET	_	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARI DEVIATION	
	Gills Creek	DISCHARO	GE (CFS):	14.6	210.0	31.0	39.6	30.0	
LOCATION:	Devine Street bridge	TEMPERA	TURE (°F):	66	87	74	75	5	
ADDRESS:	4716 Devine Street Columbia, SC 29209				0.		. •	Ů	
COORDINATES:	33.989656, -80.97433	TURBIDIT	y (NTU)·	7	396	18	23	21	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TORDIDIT	. ().		000	10	20		
NEIGHBORING LANDUSE:	Residential and commercial	pH:		6.2	6.7	6.5	6.5	0.1	
APPROX. DRAINAGE AREA:	59 square miles	· ·	<b>P</b>						
SPATIAL LOCATION:	Middle site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	4	CONDUCT (mS/cm):	IVITY	0.039	0.080	0.061	0.060	0.008	
MAX. DAILY RAINFALL:	1.2 inches	DISSOLVE	:D	F 7	0.5	7.0	7.0	0.6	
TOTAL RAINFALL (FOR PERIOD):	2.6 inches	OXYGEN (	mg/L):	5.7	8.5	7.3	7.2	0.6	
This discharge data is fr	rom the USGS 02169570 Gills Creek station	1.	Discharge & R	ainfall				0.0	
400								0.0 0.3 0.6	
400			_					0.6	
85 75 75 76 4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/1	14 5/16	5/18 5/20	5/22 5/24	5/26 5/28	3 5/30 6/:	6/3	
300 - 200 -									
100		^_				محقمي			
4/28 4/30 5/2	2 5/4 5/6 5/8 5/2	10 5/12 5,	/14 5/16	5/18 5/20	5/22 5/24	5/26 5/2	8 5/30 6/	1 6/3	
			рН						
6.8		_   _							
6.8	- MANA		<b>/</b>						
6.6 6.4 6.2	more		^^		~~~~	~~	<u> </u>		
6.6 6.4	5/4 5/6 5/8 5/10	5/12 5/2	14 5/16	5/18 5/20	5/22 5/24			1 6/3	
6.6 6.4 6.2 6.0	5/4 5/6 5/8 5/10	5/12 5/:	14 5/16  Specific Cond		5/22 5/24			1 6/3	
6.6 6.4 6.2 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5/10	) 5/12 5/:			5/22 5/24			1 6/3	
6.6 6.4 6.2 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/3			5/22 5/24			1 6/3	
6.6 6.6 6.2 6.0 4/28 4/30 5/2	-1,44		Specific Cond	ductivity	~	5/26 5/2	8 5/30 6/		
6.6 6.4 6.2 6.0 4/28 4/30 5/2	5/4 5/6 5/8 5/10				~	5/26 5/2	8 5/30 6/		
6.6 6.4 6.4 6.2 6.0 4/28 4/30 5/2	-1,44	0 5/12 5/	Specific Conc	Suctivity 5/18 5/20	~	5/26 5/2	8 5/30 6/	1 6/3	
6.6 6.4 6.4 6.2 6.0 4/28 4/30 5/2   0.10 0.04 0.02 4/28 4/30 5/2  SCDHEC in-stream sta	5/4 5/6 5/8 5/1	0 5/12 5/	Specific Conc	Suctivity 5/18 5/20	~	5/26 5/2 5/26 5/2	8 5/30 6/	1 6/3	
6.6 6.4 6.2 6.0 4/28 4/30 5/2   0.10 0.08 0.06 0.04 0.02 4/28 4/30 5/2  SCDHEC in-stream sta	5/4 5/6 5/8 5/1	0 5/12 5/	Specific Conc	Suctivity 5/18 5/20	~	5/26 5/2 5/26 5/2	8 5/30 6/	1 6/3	

 $\label{thm:cond} \textbf{Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors}$ 

Gills Creek B (April 28, 2021 - June 2, 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)	5/12/2021		5/12/2021		5/12/2021		5/12/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	12:35	6,152	13:32	4,564	14:50	4,494	12:18	218
Total Suspended Solids (mg/L)	12:35	159	13:32	144	14:50	147	12:18	16.7
Total Phosphorus (mg/L)	12:35	0.14	13:32	0.13	14:50	0.11		
Total Nitrogen (mg/L)	12:35	1.39	13:32	1.17	14:50	0.8		

Samples 1-3 were collected during wet weather conditions. Sample 4 was collected during dry weather conditions.

#### **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 and pH increased while the DO decreased on May 5<sup>th</sup>. This may have been the result of an illicit discharge.

Gills Creek C (April 28, 2021 - June 2, 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):	1.5	6.4	3.1	3.2	0.9	
LOCATION:	Bluff Road bridge	TEMPERATURE (%F).	04	04	70	70	4	
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TEMPERATURE (°F):	61	81	73	73	4	
COORDINATES:	33.948043, -80.9889	TURRIDITY (NTU)		50		40		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	6	59	8	10	6	
NEIGHBORING LANDUSE:	Residential and commercial							
APPROX. DRAINAGE AREA:	64 square miles	pH:	5.7	6.5	6.4	6.3	0.1	
SPATIAL LOCATION:	Most downstream site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	5	CONDUCTIVITY (mS/cm):	0.0443	0.0745	0.06185	0.061	0.007	
MAX. DAILY RAINFALL:	1.16 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	3.0 inches	OXYGEN (mg/L):	5.0	8.4	6.5	6.5	0.6	
85 80 75 70 65 60 4/28 4/30 5/2	5/4 5/6 5/8 5/10	5/12 5/14 5/16	5/18 5/20	5/22 5/24	5/26 5/28	8 5/30 6/	/1 6/3	
100		Turbidity						
F 50 50							! !	
2F I I		_				è		
25 0 4/28 4/30 5/2	5/4 5/6 5/8 5/1	0 5/12 5/14 5/16	5/18 5/20	) 5/22 5/2	4 5/26 5/2	28 5/30 6/	/1 6/3	
25 4/28 4/30 5/2		0 5/12 5/14 5/16 pH	5/18 5/20	5/22 5/2	4 5/26 5/2	28 5/30 6,	/1 6/3	
25 0 4/28 4/30 5/2			5/18 5/20	5/22 5/2	4 5/26 5/2	28 5/30 6,	/1 6/3	
25 0 4/28 4/30 5/2 6.5 6.3 <b>E</b> 6.1 5.5 5.5	5/4 5/6 5/8 5/1	pH						
25 0 4/28 4/30 5/2 1.5.9 5.7		pH	5/18 5/20	5/22 5/22			/1 6/3	
25 0 4/28 4/30 5/2 6.5 6.3 <b>1</b> 6.1 5.7 5.5 4/28 4/30 5/2	5/4 5/6 5/8 5/1	pH	5/18 5/20					
25 0 4/28 4/30 5/2 6.5 1 6.1 5.9 5.7 5.7 5.7 5.7 5.7 4/28 4/30 5/2	5/4 5/6 5/8 5/1	5/12 5/14 5/16	5/18 5/20					
25 0 4/28 4/30 5/2 6.5 4.6.1 5.9 5.7 5.7 5.7 5.7 4/28 4/30 5/2	5/4 5/6 5/8 5/1	5/12 5/14 5/16	5/18 5/20					
25 0 4/28 4/30 5/2 6.5 4.5 4.5 4.30 5/2	5/4 5/6 5/8 5/1	5/12 5/14 5/16  Specific Cond	5/18 5/20	5/22 5/24	1 5/26 5/2	28 5/30 6,		
4/28 4/30 5/2  4/28 4/30 5/2  6.5 6.5 6.7 5.7 5.7 4/28 4/30 5/2	5/4 5/6 5/8 5/1 5/4 5/6 5/8 5/10 5/4 5/6 5/8 5/10	5/12 5/14 5/16  Specific Cond	5/18 5/20 uctivity 5/18 5/20	5/22 5/24	4 5/26 5/2 4 5/26 5/2	28 5/30 6,	/1 6/3	
25 0 4/28 4/30 5/2 6.5 6.5 6.7 5.7 5.7 5.7 4/28 4/30 5/2 8 0.07 0.06 0.07 0.06 0.05 0.04 4/28 4/30 5/2	5/4 5/6 5/8 5/1 5/4 5/6 5/8 5/10	5/12 5/14 5/16  Specific Cond	5/18 5/20 uctivity	5/22 5/24	4 5/26 5/2 4 5/26 5/2	28 5/30 6,	/1 6/3	
25 0 4/28 4/30 5/2 13 6.5 6.3 6.1 5.9 5.7 5.7 4/28 4/30 5/2 8 0.07 0.06 0.05 0.04 4/28 4/30 5/2	5/4 5/6 5/8 5/1 5/4 5/6 5/8 5/10 5/4 5/6 5/8 5/10	5/12 5/14 5/16  Specific Cond	5/18 5/20 uctivity 5/18 5/20	5/22 5/24	4 5/26 5/2 4 5/26 5/2	28 5/30 6,	/1 6/3	

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

Gills Creek C (April 28, 2021 - June 2, 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)	5/12/2021		5/12/2021		5/12/2021		5/12/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	12:04	2,212	13:34	1,672	14:54	3,030	11:52	20
Total Suspended Solids (mg/L)	12:04	17.6	13:34	19.6	14:54	22.2	11:52	4.2
Total Phosphorus (mg/L)	12:04	0.075	13:34	0.075	14:54	0.12		
Total Nitrogen (mg/L)	12:04	1.26	13:34	0.91	14:54	1.14		

Samples 1-3 were collected during wet weather conditions. Sample 4 was collected during dry weather conditions.

#### Notes:

#### **Data Gaps**

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

#### Potential Illicit Discharges and Abnormal Events:

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