Gills Creek Monitoring Sites

Monitoring Data Summary for February 20th, 2020 – March 25th, 2020

Data Gaps

- The GILA station sonde was buried in sediment for a brief period from February 24th to 28th. The turbidity, DO, and pH sensors were buried during this time, so the data for those parameters were removed during this period.
- Several brief periods of turbidity fouling occurred at the GILA station throughout this monitoring period and these periods of turbidity data were deleted from the dataset.
- The GILB and GILC stations did not have any interruptions in the data during this monitoring period.

SCDHEC Standards

- None of the Gills Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5
- The GILA station recorded an average DO value of 9.9 mg/L, the GILB station recorded an average DO value of 9.7 mg/L, and the GILC station recorded an average DO value of 9.2 mg/L, all of which are above the SCDHEC daily average DO standard of 5 mg/L.
- During this deployment period, the GILA, GILB, and GILC stations recorded minimum DO levels of 8.4 mg/L, 7.9 mg/L, and 6.3 mg/L, respectively. All the stations in the Gills Creek watershed recorded DO values above the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The GILA station recorded 11 storm events resulting in approximately 6.2 inches of rainfall. The GILB station recorded 9 storms that resulted in approximately 5.9 inches of rainfall. The GILC station recorded 11 storms that resulted in approximately 5.2 inches of rainfall.
- The monitored water quality parameters all displayed typical storm event response patterns during the recorded storm events in the Gills Creek watershed.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 11.5 days at the GILA and GILB stations, occurring prior to the March 17th storm event. The maximum antecedent dry time was approximately 16.9 days at the GILC station, occurring prior to the March 22nd storm event.

Potential Illicit Discharges and Abnormal Events

• At the GILA station, the specific conductivity decreased for a brief period on February 25th just after the storm event on February 24th. The reason for the decreased specific conductivity during this time is unknown but could have been the result of an illicit discharge activity.

Flow Measurements

• High flow measurements were taken at GILA and GILC during the rain event on March 5th.





Gills Creek A (Feb 20, 2020 - March 25, 2020)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	I MINIMUM I M		MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	STAGE (FT):	2.2	4.2	2.8	2.8	0.4		
LOCATION:	Forest Drive Bridge	TEMPERATURE							
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	(°F):	50	71	56	58	6		
COORDINATES:	34.019826, -80.963566	TURRIETY (AITH)		407	4.5	40	10		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	4	107	15	18	10		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	6.6	6.4	6.4	0.1		
APPROX. DRAINAGE AREA:	48 square miles	pri.	0.5	0.0	0.4	0.4	0.1		
SPATIAL LOCATION:	Most upstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	11	CONDUCTIVITY (mS/cm):	0.033	0.050	0.043	0.043	0.003		
MAX. DAILY RAINFALL:	1.3 inches	DISSOLVED	0.4	44.0	40.0	0.0	0.0		
TOTAL RAINFALL (FOR PERIOD):	6.2 inches	OXYGEN (mg/L):	8.4	11.2	10.2	9.9	0.8		
		Stage & Rai	nfall						
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Gills Creek A (Feb 20, 2020 - March 25, 2020)

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	Sam	ple 3	Sample 4	
Analyte (units)	3/5/2020		3/5/2020		3/5/2020			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:30	1666	11:13	24,446	12:35	1218		
Total Suspended Solids (mg/L)	10:30	59.3	11:13	47.1	12:35	33.5		
Total Phosphorus (mg/L)	10:30	0.063	11:13	0.054	12:35	0.045		
Total Nitrogen (mg/L)	10:30	0.9	11:13	0.53	12:35	0.67		

Notes:

All samples were taken during wet weather conditions.





Gills Creek B (Feb 20, 2020 - March 25, 2020)

DADAMETER	DECORPTION	CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	DISCHARGE (CFS): 48.7		370.0	122.0	132.1	73.7		
LOCATION:	Devine Street bridge	TEMPERATURE	48	75	56	58	6		
ADDRESS:	4716 Devine Street Columbia, SC 29209	(°F):	10	, ,	00	00			
COORDINATES:	33.989656, -80.97433	TURBIDITY (NTU):	6	371	18	25	24		
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	, ,							
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	6.7	6.5	6.5	0.1		
APPROX. DRAINAGE AREA:	59 square miles								
SPATIAL LOCATION:	Middle site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	9	CONDUCTIVITY (mS/cm):	0.041	0.070	0.051	0.053	0.004		
MAX. DAILY RAINFALL:	1.3 inches	DISSOLVED	7.0	44.0	40.4	0.7	4.0		
TOTAL RAINFALL (FOR PERIOD):	5.9 inches	OXYGEN (mg/L):	7.9	11.3	10.1	9.7	1.0		
This discharge data is fr	om the USGS 02169570 Gills Creek station	n. Discharge &	Rainfall						
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200							0.5 1.0		
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	andard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHE	C Low Standard)		
13	indard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHE	C Low Standard)		
13	undard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHE	C Low Standard)		
13	undard: Daily average not less than 5 mg/L	with a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHE	C Low Standard)		

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Gills Creek B (Feb 20, 2020 - March 25, 2020)

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		Sample 5	
Analyte (units)	3/5/2020		3/5/2020		3/5/2020		3/5/2020		3/20/2020	
	Time	Results	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:50	2,306	11:10	2,966	13:36	2,708	14:47	2628	10:06	316
Total Suspended Solids (mg/L)	9:50	43.2	11:10	70.3	13:36	59.7	14:47	46.6	10:06	16.4
Total Phosphorus (mg/L)	9:50	0.053	11:10	0.065	13:36	0.058	14:47	0.06		
Total Nitrogen (mg/L)	9:50	0.9	11:10	0.98	13:36	0.68	14:47	0.57		

Notes:

Samples 1, 2, 3, and 4 were taken during wet weather conditions. Sample 5 was taken during dry weather conditions.





Gills Creek C (Feb 20, 2020 - March 25, 2020)

		CONTINUOUS	SUMMARY STATISTICS						
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM MAXIMUM ME		MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Gills Creek	STAGE (FT):	3.5	7.2	4.9	4.9	0.9		
LOCATION:	Bluff Road bridge	TEMPERATURE	45	70	50	50	_		
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	(°F):	45	73	56	58	7		
COORDINATES:	33.948043, -80.9889								
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	5	34	10	10	4		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	6.7	6.5	6.5	0.1		
APPROX. DRAINAGE AREA:	64 square miles	pri.	0.3	6.7	6.5	6.5	0.1		
SPATIAL LOCATION:	Most downstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	11	CONDUCTIVITY (mS/cm):	0.053	0.077	0.063	0.065	0.005		
MAX. DAILY RAINFALL:	1.1 inches	DISSOLVED	6.3	11.6	9.3	9.2	1.2		
TOTAL RAINFALL (FOR PERIOD):	5.2 inches	OXYGEN (mg/L):	0.0	11.0	3.3	5.2	1.2		
		Stage & Rai	nfall				0.00		
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	2/26 2/28 3/1 3/5			13 3/15 3	3/17 3/19	3/21 3/23	3/25		
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2/20 2/22 2/24 80 70 70 60 50 40 2/20 2/20 2/22 2/24 6.9 6.7 6.5 6.3 6.1 2/20 2/22 2/24 SCDHEC in-stream standa	2/26 2/28 3/1 3/ 4 2/26 2/28 3/1 3/ 2/26 2/28 3/1 3/	Water Ter 3 3/5 3/7 3, Turbidit 3/3 3/5 3/7 pH Specific Cor	mp /9 3/11 3, y 3/9 3/11 3 anductivity	3/13 3/15	3/17 3/19 3/17 3/19 3/17 3/19	3/21 3/23 3/21 3/23 3/21 3/23	3/25		

Gills Creek C (Feb 20, 2020 - March 25, 2020)

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	Sample 2		Sample 3		Sample 4		Sample 5	
Analyte (units)	3/5/2020		3/5/2020		3/5/2020		3/5/2020		3/20/2020	
	Time	Results	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:10	422	11:30	564	13:55	700	15:05	596	10:31	20
Total Suspended Solids (mg/L)	10:10	8	11:30	8.8	13:55	11.7	15:05	10.3	10:31	7.2
Total Phosphorus (mg/L)	10:10	0.04	11:30	0.037	13:55	0.033	15:05	0.039		
Total Nitrogen (mg/L)	10:10	0.92	11:30	0.61	13:55	0.64	15:05	0.8		

Notes:

Samples 1, 2, 3, and 4 were taken during wet weather conditions. Sample 5 was taken during dry weather conditions.