Gills Creek Monitoring Sites Monitoring Data Summary for January 10th, 2019 – February 13th, 2019

Data Gaps

- The GILA station experienced a brief period of fouling turbidity from February 11th until the sonde was pulled from the field for calibrations on February 13th. This period of turbidity data was removed from the dataset.
- The GILB station experienced turbidity fouling on February 4th, which cleared up after a field visit on February 5th. This period of fouling turbidity data from February 4th-5th was removed from the dataset.
- The GILC station did not have any interruptions in the data during this monitoring period.

SCDHEC Standards

- None of the Gills Creek stations recorded a pH reading outside of the acceptable SCDHEC range of 6 to 8.5.
- The GILA station recorded an average DO value of 11 mg/L, the GILB station recorded an average DO value of 10.5 mg/L, and the GILC station recorded an average DO value of 10.2 mg/L which are all 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 9.8 mg/L, 9.4 mg/L, and 8.4 mg/L, respectively. None of the Gills Creek stations recorded any DO values below the SCDHEC instantaneous minimum standard of 4.0 mg/L.

Storm Events

- The GILA station recorded 3 storm events resulting in approximately 2.7 inches of rainfall. The GILB station recorded 4 storms that resulted in approximately 2.8 inches of rainfall. The GILC station recorded 3 storms that resulted in approximately 2.6 inches of rainfall.
- The monitored water quality parameters in the Gills Creek watershed all displayed typical storm event response patterns during the recorded storm events.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 21.7 days at both the GILA and GILC stations, occurring after the January 24th storm event until the end of the deployment period. The maximum antecedent dry time at the GILB station was approximately 17.8 days, occurring prior to the storm event on February 11th.

Potential Illicit Discharges and Abnormal Events

- Activity at Forest Lake caused a notable increase in stage at the GILA station from February 3rd-9th. This period of increased stage was also observed at the GILB and GILC stations. The monitored water quality parameters were slightly impacted by this activity at each of the stations.
- At the GILB station, potential illicit discharges occurred on January 16th and 18th-19th in which turbidity levels increased
- At the GILC station, potential illicit discharges occurred on January 14th, 16th, and 17th in which turbidity levels increased.

Flow Measurements

• No flow measurements were taken in Gills Creek during this monitoring period.





Gills Creek A (January 10, 2019 -- February 13, 2019)

		CONTINUOUS			SUI	MMARY STATIS	TICS		
PARAMETER	DESCRIPTION	PARAMET		MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION	
STREAM NAME:	Gills Creek	STAGE (FT	Г):	2.4	4.2	2.7	2.7	0.3	
LOCATION:	Forest Drive Bridge	TEMPERA	TURE						
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	(°F):	- -	46	59	50	51	2	
COORDINATES:	34.019826, -80.963566	TURBIDITY (NTU):		4	121	6	8	8	
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen		. (Ů	Ü	0	
NEIGHBORING LANDUSE:	Residential and commercial	pH:		6.5	6.9	6.6	6.6	0.1	
APPROX. DRAINAGE AREA:	48 square miles	P ····		0.0	0.0	0.0	0.0	0.1	
SPATIAL LOCATION:	Most upstream site	SPECIFIC							
TOTAL NO. STORMS OVER 0.1 INCH:	3	CONDUCT (mS/cm):	TIVITY	0.042	0.07	0.053	0.052	0.004	
MAX. DAILY RAINFALL:	1.3 inches	DISSOLVE		9.8	11.7	11.0	11.0	0.3	
TOTAL RAINFALL (FOR PERIOD):	2.7 inches	OXYGEN (mg/L):	9.0	11.7	11.0	11.0	0.3	
_			Stage & Rai	nfall					
# 5								0.0 0.5 1.0 1.5 2.0	
# 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4								1.0 1.5 2.0	
			Water Te	mp					
50	1/16 1/18 1/20 1/	22 1/24		~_~	2/1 2/2	2/5 2/7	2/9 2/11	2/12	
4 60 50	1/16 1/18 1/20 1/2	22 1/24	Water Te	~_~	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 50 40 1/10 1/12 1/14	1/16 1/18 1/20 1/:	22 1/24		28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 40 1/10 1/12 1/14	1/16 1/18 1/20 1/.	22 1/24	1/26 1/	28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 40 1/10 1/12 1/14 2 150 2 100		•	1/26 1/	28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
E 150 1/10 1/12 1/14			1/26 1/	228 1/30					
P 60 1/10 1/12 1/14 P 150 100 1/12 1/14			1/26 1/ Turbidi	228 1/30					
E 150 1/10 1/12 1/14 2 150 1/10 1/12 1/14			1/26 1/ Turbidi	228 1/30					
E 150 1/10 1/12 1/14 2 150 1/10 1/12 1/14		//22 1/24	1/26 1/ Turbidi 1/26 1	228 1/30					
E 7.0 6.8 6.6 6.4	4 1/16 1/18 1/20 1	//22 1/24	1/26 1/ Turbidi 1/26 1	28 1/30 ty /28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	4 1/16 1/18 1/20 1	//22 1/24	1/26 1/ Turbidi 1/26 1	28 1/30 ty /28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	4 1/16 1/18 1/20 1	//22 1/24	1/26 1/ Turbidi 1/26 1	28 1/30 ty /28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 50 40 1/10 1/12 1/14 2 150 1/10 1/12 1/14 2 1/10 1/12 1/14 2 1/10 1/12 1/14	4 1/16 1/18 1/20 1	//22 1/24	1/26 1/ Turbidi 1/26 1	28 1/30 ty /28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 50 40 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	4 1/16 1/18 1/20 1 1/16 1/18 1/20 1/	//22 1/24	1/26 1/ Turbidi 1/26 1 pH 1/26 1/ Specific Col	28 1/30 ty /28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
150 100 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	4 1/16 1/18 1/20 1 1/16 1/18 1/20 1/	22 1/24	1/26 1/ Turbidi 1/26 1 pH 1/26 1/ Specific Con 1/26 1	28 1/30 ty /28 1/30 aductivity	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
2 60 50 40 1/10 1/12 1/14 2 150 100 1/10 1/12 1/14 2 1/10 1/12 1/14 2 1/10 1/12 1/14 2 1/10 1/12 1/14	4 1/16 1/18 1/20 1 1/16 1/18 1/20 1/	22 1/24	1/26 1/ Turbidi 1/26 1 pH 1/26 1/ Specific Con 1/26 1	28 1/30 ty /28 1/30 aductivity	2/1 2/3	2/5 2/7	2/9 2/11	2/13	

1/20

1/22

1/24

1/18

1/10

1/12

1/14

1/16

1/28

1/30

2/5

2/7

2/11

1/26

Gills Creek A (January 10, 2019 -- February 13, 2019)

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	Sample 3		Sample 4	
Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:





Gills Creek B (January 10, 2019 -- February 13, 2019)

		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARI DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	3.2	6.0	3.6	3.6	0.4
LOCATION:	Devine Street bridge 4716 Devine Street	TEMPERATURE	46	61	51	51	3
ADDRESS:	Columbia, SC 29209	(°F):		-		-	
COORDINATES:	33.989656, -80.97433	TURBIDITY (NTU):	5	75	8	10	5
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	, ,					
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.4	6.6	6.5	6.5	0.0
APPROX. DRAINAGE AREA:	59 square miles	-					
SPATIAL LOCATION:	Middle site	SPECIFIC					
TOTAL NO. STORMS OVER 0.1 INCH:	4	CONDUCTIVITY (mS/cm):	0.045	0.060	0.053	0.053	0.003
MAX. DAILY RAINFALL:	1.3 inches	DISSOLVED	9.4	11.3	10.6	10.5	0.4
TOTAL RAINFALL (FOR PERIOD):	2.8 inches	OXYGEN (mg/L):	9.4	11.3	10.6	10.5	0.4
•		Stage & Rair	nfall				
g 7		1					0.00
Stage,							0.50
1/10 1/12 1/14	1/16 1/18 1/20 1/2	2 1/24 1/26 1/2	8 1/30 2/	1 2/3 2	2/5 2/7	2/9 2/11	0.75 2/13
70		Water Te	mp	T 1		1 1	
<u>н</u> 60		Water Te	mp				
£ 60 50		Water Te	mp	~~			
<u>u</u> 60	1/16 1/18 1/20 1/2			/1 2/3	2/5 2/7	2/9 2/11	2/13
60 50 40 1/10 1/12 1/14	1/16 1/18 1/20 1/2		28 1/30 2	/1 2/3	2/5 2/7	2/9 2/11	2/13
100 75	1/16 1/18 1/20 1/2	2 1/24 1/26 1/2	28 1/30 2	/1 2/3	2/5 2/7	2/9 2/11	2/13
1/10 1/12 1/14	1/16 1/18 1/20 1/2	2 1/24 1/26 1/2	28 1/30 2	/1 2/3	2/5 2/7	2/9 2/11	2/13
1/10 1/12 1/14		2 1/24 1/26 1/2 Turbidit	88 1/30 2	/1 2/3	2/5 2/7	2/9 2/11	2/13
100 75 0 1/10 1/12 1/14		2 1/24 1/26 1/2 Turbidit	88 1/30 2				
100 75 1/10 1/12 1/14 1/10 1/12 1/14		2 1/24 1/26 1/2 Turbidit	88 1/30 2				
2 60 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14		2 1/24 1/26 1/2 Turbidit	88 1/30 2				
100 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/14 1/10 1/12 1/14		2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1,	28 1/30 2 1/28 1/30				
100 75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.7	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH	28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
E 6.7 6.6 6.7 6.6 6.4 6.3 1/10 1/12 1/14	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1,	28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
100 75 1/10 1/12 1/14 1/10 1/12 1/14 6.7 6.6 6.4 6.3 1/10 1/12 1/14	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH	28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
E 0.00 0.07 0.07 0.07 0.06 0.05 0.04	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH Specific Co	28 1/30 2 1/28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
100 1/10 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1/14 1	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH Specific Co	28 1/30 2 1/28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
6.7 6.7 6.6 6.5 6.4 6.3 1/10 1/12 1/14 6.7 6.6 6.4 6.3 1/10 1/12 1/14 6.7 6.6 6.4 6.3 1/10 1/12 1/14	1/16 1/18 1/20 1,	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH Specific Co.	28 1/30 2 1/28 1/30 2 28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13
100 75 50 1/10 1/12 1/14 1/10 1/12 1/14 6.7 6.6 6.6 6.3 1/10 1/12 1/14 1/14	1/16 1/18 1/20 1/ 1/16 1/18 1/20 1/2	2 1/24 1/26 1/2 Turbidit //22 1/24 1/26 1, pH Specific Co.	28 1/30 2 1/28 1/30 28 1/30 28 1/30 28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13

1/20

1/22

1/24

1/18

1/10

1/12

1/14

1/16

1/26

1/28

1/30

2/1

2/3

2/5

2/7

2/9

2/11

2/13

Gills Creek B (January 10, 2019 -- February 13, 2019)

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	
Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes:





Gills Creek C (January 10, 2019 -- February 13, 2019)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Gills Creek	STAGE (FT):	3.5	6.8	4.2	4.4	0.7	
LOCATION:	Bluff Road bridge	TEMPERATURE	40	00	40	50		
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	(°F):	43	62	49	50	4	
COORDINATES:	33.948043, -80.9889							
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	TURBIDITY (NTU):	4	54	7	8	5	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.2	6.6	6.4	6.4		
APPROX. DRAINAGE AREA:	64 square miles	pri.	0.2	6.6	0.4	0.4	0.1	
SPATIAL LOCATION:	Most downstream site	SPECIFIC						
TOTAL NO. STORMS OVER 0.1 INCH:	3	CONDUCTIVITY (mS/cm):	0.055	0.055 0.076	0.066	0.065	0.004	
MAX. DAILY RAINFALL:	1.17 inches 2.6 inches	DISSOLVED OXYGEN (mg/L):	8.4	12.0	10.2	10.2		
PERIOD):	210 11101100	<u> </u>		<u> </u>	<u>l</u>			
9		Stage & Ra	infall				0.0	
90 3							0.0 0.5 1.0 1.5 2.0	
1/10 1/12 1/14	1/16 1/18 1/20 1/23	2 1/24 1/26 1/	28 1/30 2,	/1 2/3	2/5 2/7	2/9 2/11	2/13	
		Water Te	mp					
70		Water Te	mp					
60		Water Te	mp		~~~			
60 50 40			~~~		***			
60 50	1/16 1/18 1/20 1/2		~~~	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 50 40 1/10 1/12 1/14	1/16 1/18 1/20 1/2	2 1/24 1/26 1	/28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 60 1/10 1/12 1/14	1/16 1/18 1/20 1/2		/28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 50 40 1/10 1/12 1/14	1/16 1/18 1/20 1/2	2 1/24 1/26 1	/28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
150 100 100 100 100	mm. A.	2 1/24 1/26 1 Turbidi	/28 1/30 2					
P 150 100 50	- M. M.	2 1/24 1/26 1 Turbidi	/28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
E 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm. A.	2 1/24 1/26 1 Turbidi	/28 1/30 2					
E 150 1/10 1/12 1/14 1/10 1/12 1/14 6.8	mm. A.	2 1/24 1/26 1 Turbidi	/28 1/30 2					
150 1/10 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	mm. A.	2 1/24 1/26 1 Turbidi	/28 1/30 2					
E 150 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.4 6.2 6.0	4 1/16 1/18 1/20 1,	2 1/24 1/26 1 Turbidi /22 1/24 1/26	1/28 1/30 2	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
150 1/10 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14	mm. A.	2 1/24 1/26 1 Turbidi /22 1/24 1/26	1/28 1/30 2					
E 150 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.4 6.2 6.0	4 1/16 1/18 1/20 1,	2 1/24 1/26 1 Turbidi /22 1/24 1/26 pH	/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
E 150 1/10 1/12 1/14 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.4 6.2 6.0 1/10 1/12 1/14	4 1/16 1/18 1/20 1,	2 1/24 1/26 1 Turbidi /22 1/24 1/26	/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
E 60 1/10 1/12 1/14 150 100 1/12 1/14 150 100 1/12 1/14 6.8 6.6 6.6 6.2 6.0 1/10 1/12 1/14	4 1/16 1/18 1/20 1,	2 1/24 1/26 1 Turbidi /22 1/24 1/26 pH	/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 40 1/10 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.4 6.2 6.0 1/10 1/12 1/14	4 1/16 1/18 1/20 1,	2 1/24 1/26 1 Turbidi /22 1/24 1/26 pH	/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
E 60 1/10 1/12 1/14 150 100 1/12 1/14 150 100 1/12 1/14 6.8 6.6 6.6 6.2 6.0 1/10 1/12 1/14	4 1/16 1/18 1/20 1, 1/16 1/18 1/20 1/2	2 1/24 1/26 1 Turbidi //22 1/24 1/26 pH Specific Co	1/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 40 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.4 6.2 6.0 1/10 1/12 1/14	4 1/16 1/18 1/20 1, 1/16 1/18 1/20 1/2	2 1/24 1/26 1 Turbidi //22 1/24 1/26 pH Specific Co	1/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 40 1/10 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.6 6.2 6.0 1/10 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/14 1/14 1/15 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/1	4 1/16 1/18 1/20 1, 1/16 1/18 1/20 1/2	2 1/24 1/26 1 Turbidi //22 1/24 1/26 pH Specific Co	1/28 1/30 2 ty 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/	4 1/16 1/18 1/20 1, 1/16 1/18 1/20 1/2	2 1/24 1/26 1 Turbidi //22 1/24 1/26 pH Specific Co	1/28 1/30 2 ty 1/28 1/30 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	
60 40 1/10 1/10 1/12 1/14 1/10 1/12 1/14 6.8 6.6 6.6 6.2 6.0 1/10 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/12 1/14 1/14 1/14 1/15 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/1	4 1/16 1/18 1/20 1, 1/16 1/18 1/20 1/2	2 1/24 1/26 1 Turbidi //22 1/24 1/26 pH Specific Co	1/28 1/30 2 ty 1/28 1/30 1/28 1/30	2/1 2/3	2/5 2/7	2/9 2/11	2/13	

Gills Creek C (January 10, 2019 -- February 13, 2019)

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	Sample 2		Sample 3		ple 4
Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli								
(MPN/100mL)								
Total Suspended								
Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: