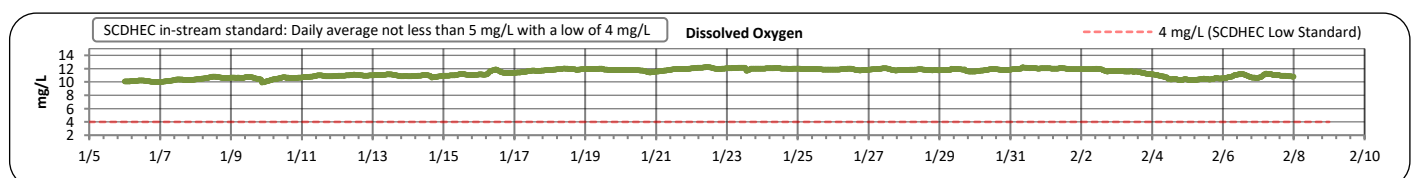
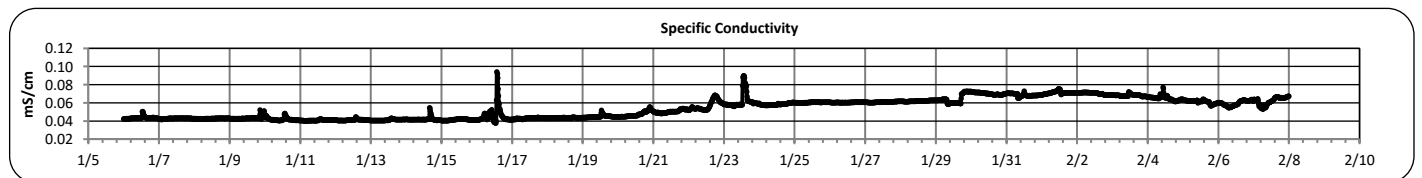
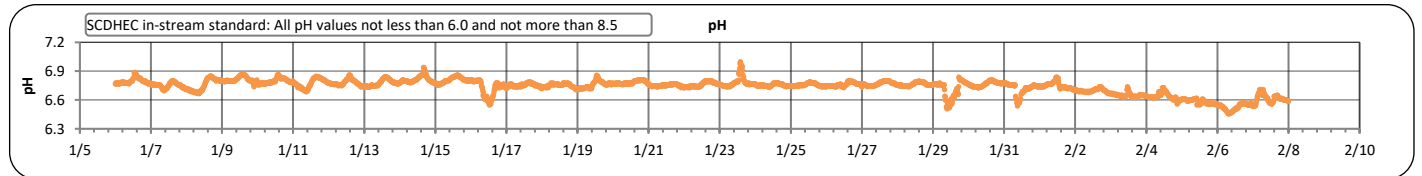
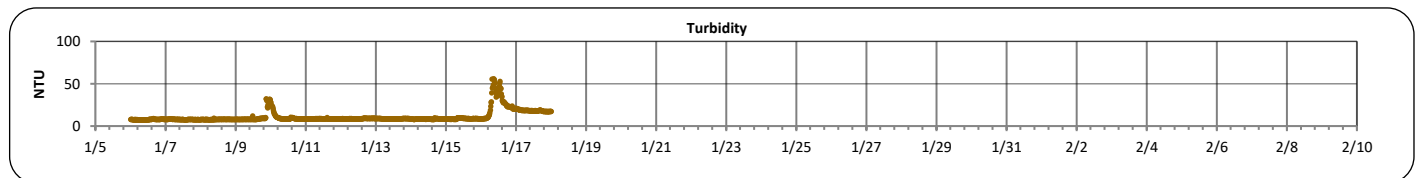
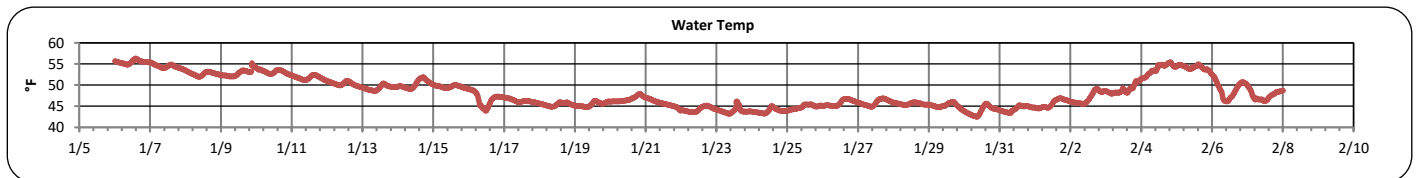
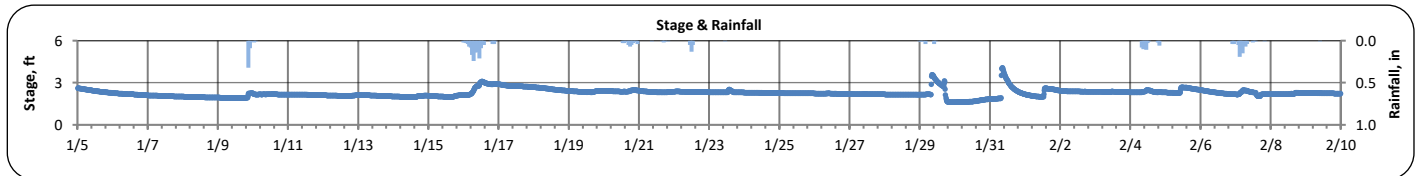


# Continuous Water Quality Monitoring Periodic Report

Gills Creek A (January 5, 2022 - February 9, 2022)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	1.6	4.1	2.3	2.3	0.3
LOCATION:	Forest Drive Bridge	TEMPERATURE (°F):	43	56	47	48	4
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TURBIDITY (NTU):	7	56	9	11	7
COORDINATES:	34.019826, -80.963566	pH:	6.5	7.0	6.8	6.7	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.038	0.094	0.055	0.054	0.011
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	9.9	12.3	11.6	11.4	0.6
APPROX. DRAINAGE AREA:	48 square miles						
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.5 inches						
TOTAL RAINFALL (FOR PERIOD):	3.9 inches						



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

REPORT GENERATED ON 3/22/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek A (January 5, 2022 - February 9, 2022)**

**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/4/2022		2/4/2022		2/4/2022		2/4/2022	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	9:37	104	10:43	104	11:17	690	11:52	976
Total Suspended Solids (mg/L)	9:37	8.0	10:43	25.6	11:17	27.2	11:52	20.4
Total Phosphorus (mg/L)	9:37	0.025	10:43	0.034	11:17	0.037	11:52	0.043
Total Nitrogen (mg/L)	9:37	0.590	10:43	0.82	11:17	0.77	11:52	0.74

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

Turbidity data was removed from January 18th to February 8th due to fouling of the sensor.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on January 9th, 14th, 16th, 22nd, 23rd 30th, and February 4th that may have been the result of illicit discharges.

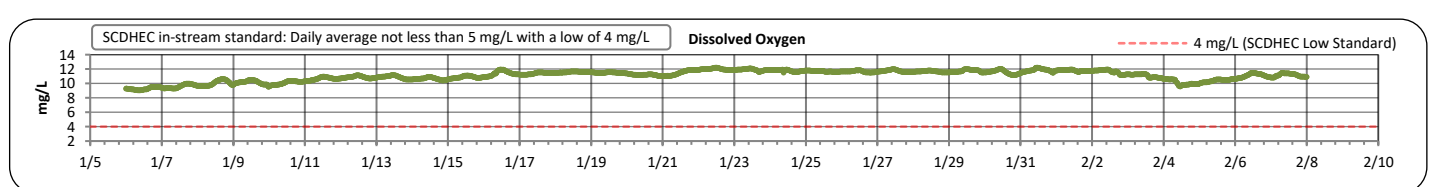
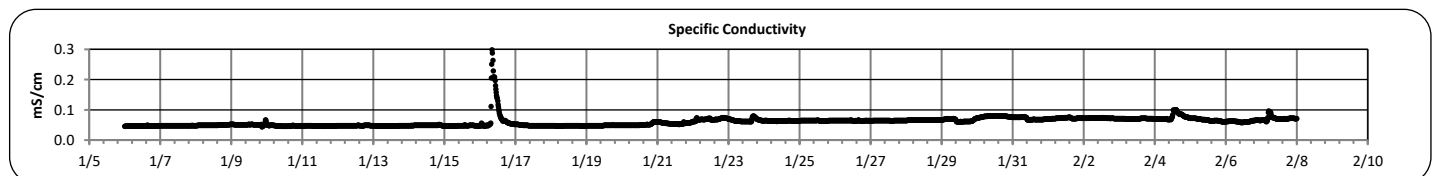
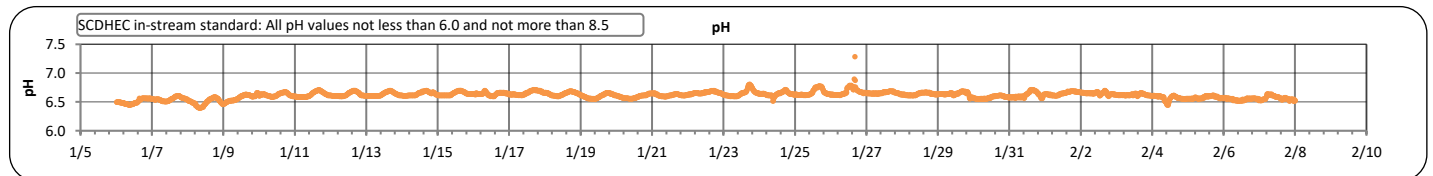
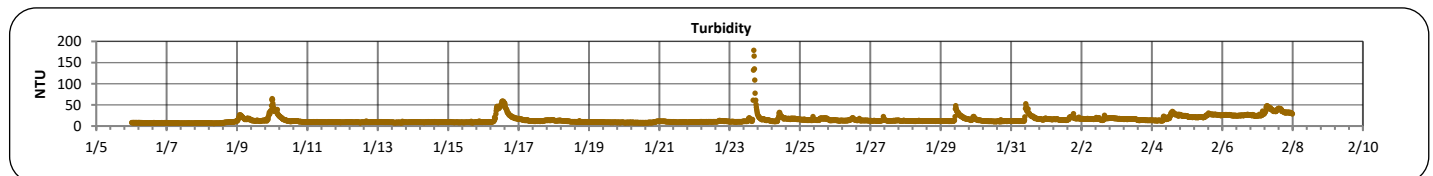
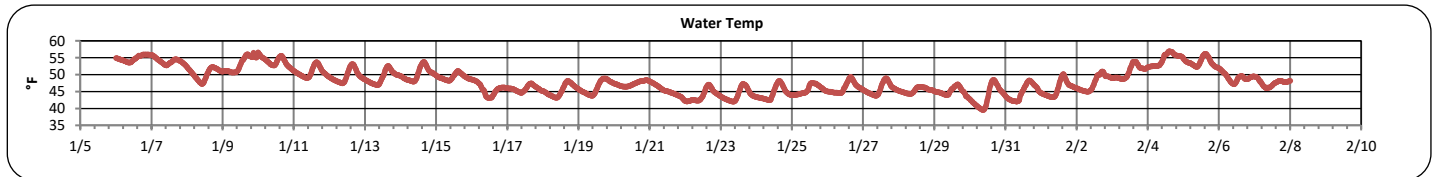
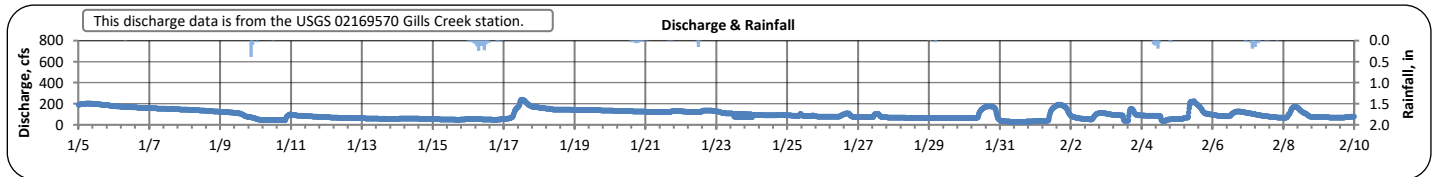
Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

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# Continuous Water Quality Monitoring Periodic Report

Gills Creek B (January 5, 2022 - February 9, 2022)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	30.3	241.0	88.3	99.2	43.2
LOCATION:	Devine Street bridge	TEMPERATURE (°F):	40	57	48	48	4
ADDRESS:	4716 Devine Street Columbia, SC 29209	TURBIDITY (NTU):	6	179	12	15	10
COORDINATES:	33.989656, -80.97433	pH:	6.4	7.3	6.6	6.6	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.043	0.298	0.062	0.060	0.016
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	9.1	12.3	11.3	11.1	0.7
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site						
TOTAL NO. STORMS OVER 0.1 INCH:	6						
MAX. DAILY RAINFALL:	1.4 inches						
TOTAL RAINFALL (FOR PERIOD):	3.9 inches						



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

REPORT GENERATED ON 3/22/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek B (January 5, 2022 - February 9, 2022)**

**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	1/20/2022		2/4/2022		2/4/2022		2/4/2022	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	7:58	120	10:25	350	10:59	682	11:35	1,508
Total Suspended Solids (mg/L)	7:57	5.6	10:25	11.6	10:59	14.7	11:35	15.7
Total Phosphorus (mg/L)			10:25	0.028	10:59	0.031	11:35	0.046
Total Nitrogen (mg/L)			10:25	0.69	10:59	0.74	11:35	0.68

Analyte (units)	Sample 5		Sample 6		Sample 7		Sample 8	
	2/4/2022							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	12:07	1,866						
Total Suspended Solids (mg/L)	12:07	19.2						
Total Phosphorus (mg/L)	12:07	0.054						
Total Nitrogen (mg/L)	12:07	0.67						

Sample 1 was collected during dry weather conditions. Samples 2-5 were collected during wet weather conditons.

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

REPORT GENERATED ON 3/22/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek B (January 5, 2022 - February 9, 2022)**

**Notes:**

Data Gaps

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

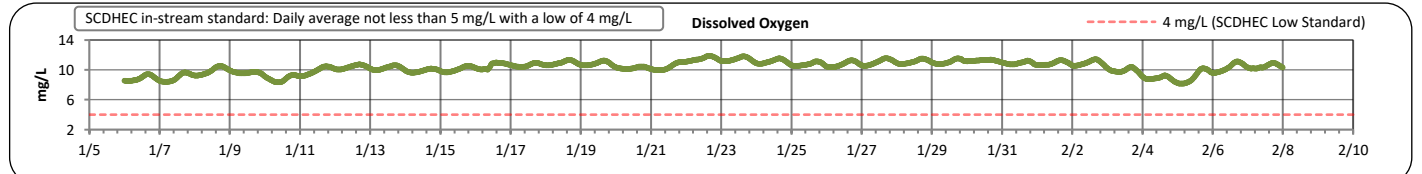
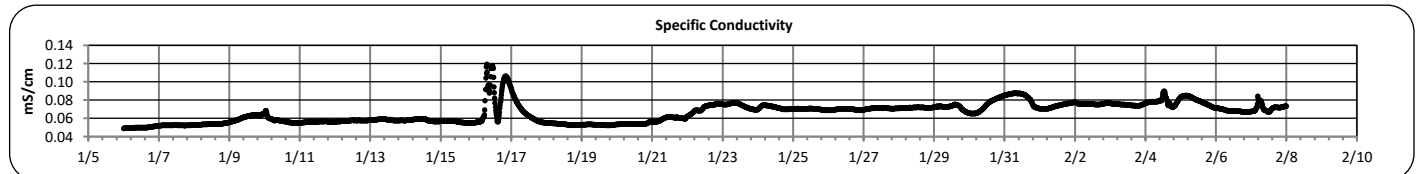
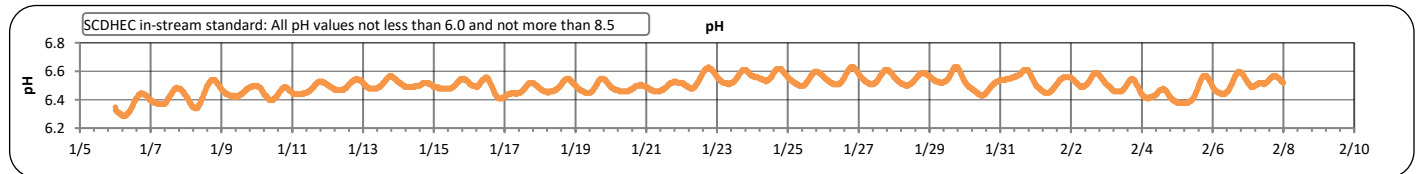
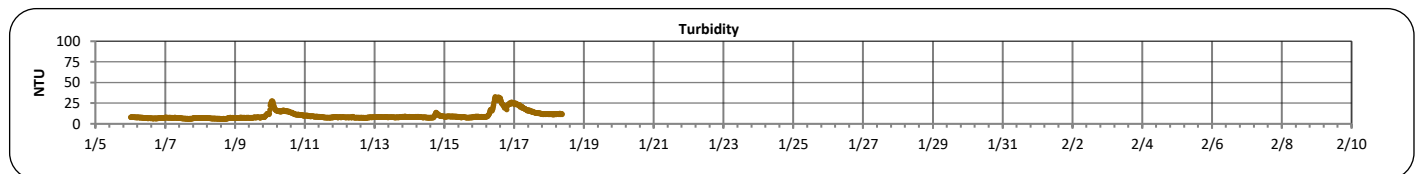
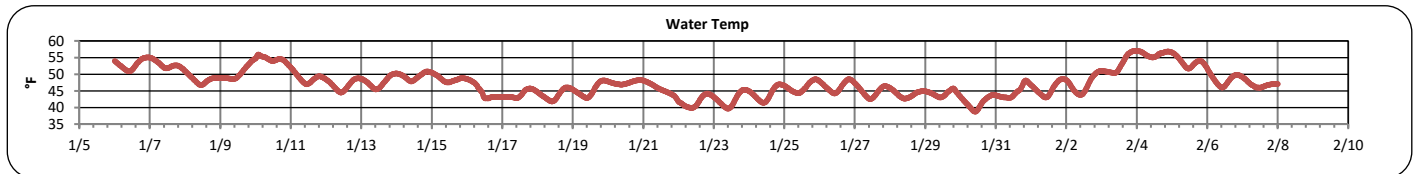
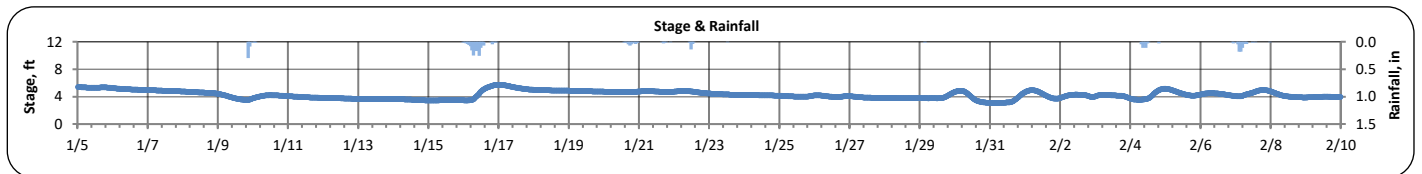
Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on January 16th that may have been the result of an illicit discharge.

# Continuous Water Quality Monitoring Periodic Report

Gills Creek C (January 5, 2022 - February 9, 2022)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	3.1	5.8	4.2	4.3	0.6
LOCATION:	Bluff Road bridge	TEMPERATURE (°F):	39	57	47	47	4
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TURBIDITY (NTU):	6	33	8	10	5
COORDINATES:	33.948043, -80.9889	pH:	6.3	6.6	6.5	6.5	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.049	0.119	0.068	0.066	0.011
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	8.2	11.9	10.6	10.4	0.8
APPROX. DRAINAGE AREA:	64 square miles						
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.67 inches						
TOTAL RAINFALL (FOR PERIOD):	3.9 inches						



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

REPORT GENERATED ON 3/22/2022

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek C (January 5, 2022 - February 9, 2022)**

**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	1/20/2022		2/4/2022		2/4/2022		2/4/2022	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	7:25	31	9:35	20	10:30	104	11:30	82
Total Suspended Solids (mg/L)	7:24	5.6	9:35	7.2	10:30	6.7	11:30	7.3
Total Phosphorus (mg/L)			9:35	0.034	10:30	0.038	11:30	0.033
Total Nitrogen (mg/L)			9:35	0.630	10:30	0.79	11:30	0.67

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

**Notes:**

Data Gaps

Turbidity data was removed from January 18th to February 8th due to fouling of the sensor.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on January 10th, 16th, 31st, February 4th, 5th, and 7th, that may have been the result of illicit discharges.

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

REPORT GENERATED ON 3/22/2022