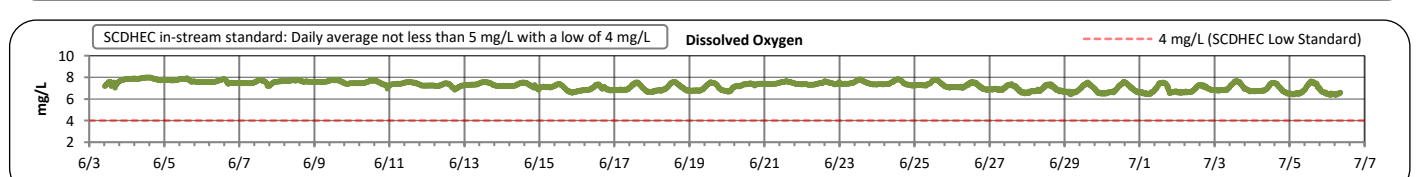
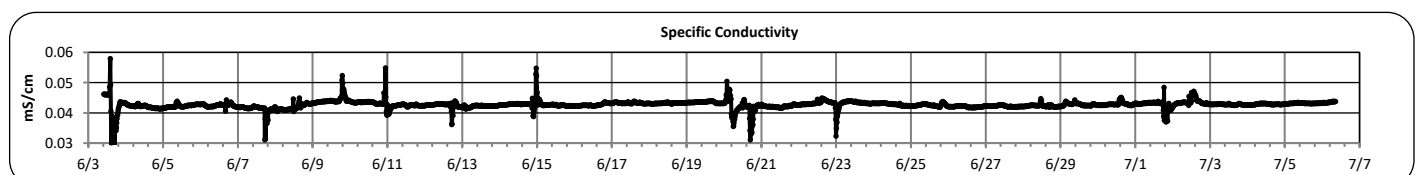
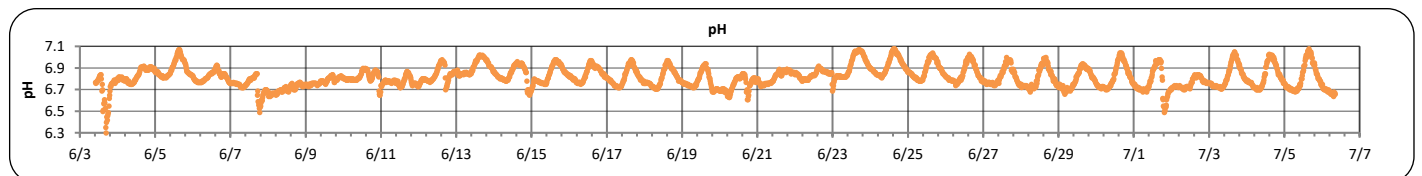
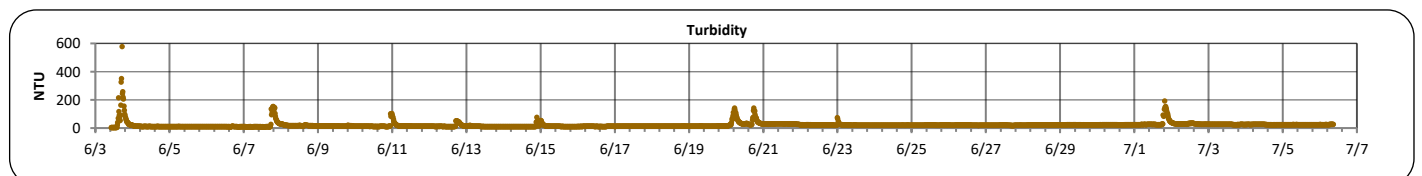
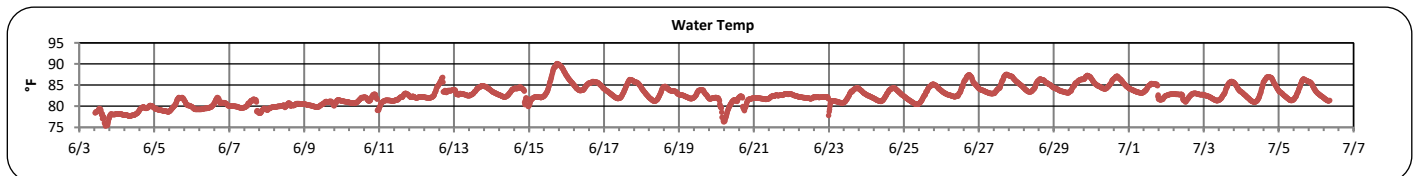
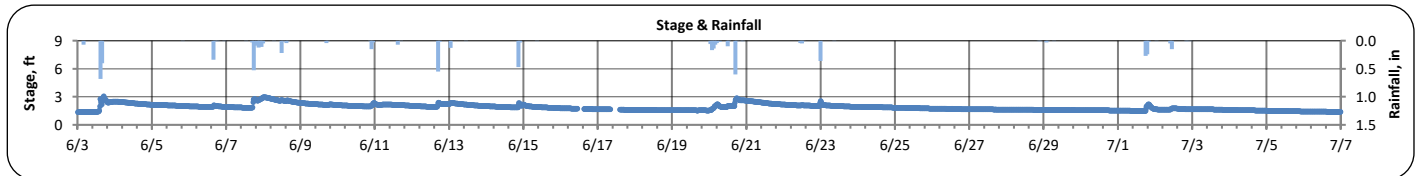


# Continuous Water Quality Monitoring Periodic Report

Gills Creek A (June 3, 2021 - July 6, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	1.4	3.1	1.9	1.9	0.3
LOCATION:	Forest Drive Bridge	TEMPERATURE (°F):	75	90	83	83	2
ADDRESS:	4840 Forest Drive, Columbia, SC 29206	TURBIDITY (NTU):	4	578	21	23	22
COORDINATES:	34.019826, -80.963566	pH:	6.3	7.1	6.8	6.8	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.026	0.058	0.043	0.043	0.001
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	6.4	8.0	7.3	7.3	0.4
APPROX. DRAINAGE AREA:	48 square miles						
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	15						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	6.9 inches						



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

REPORT GENERATED ON 07/26/2021

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek A (June 3, 2021 - July 6, 2021)**

**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	
	7/2/2021		7/2/2021		7/2/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	9:46	189	11:40	1,145	12:57	1,439		
Total Suspended Solids (mg/L)	9:46	8	11:40	14	12:57	15		
Total Phosphorus (mg/L)	9:46	0.057	11:40	0.055	12:57	ND		
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

There were brief gaps in stage data collected by the pressure transducer on June 16<sup>th</sup> and June 17<sup>th</sup> due to technical issues.

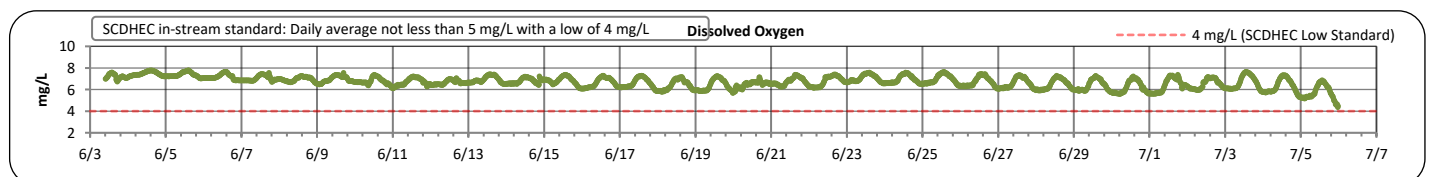
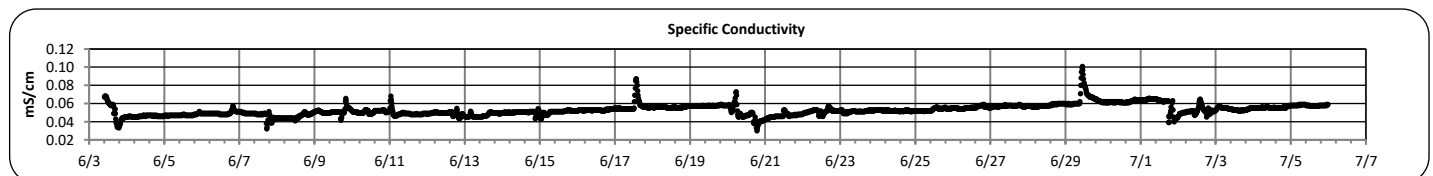
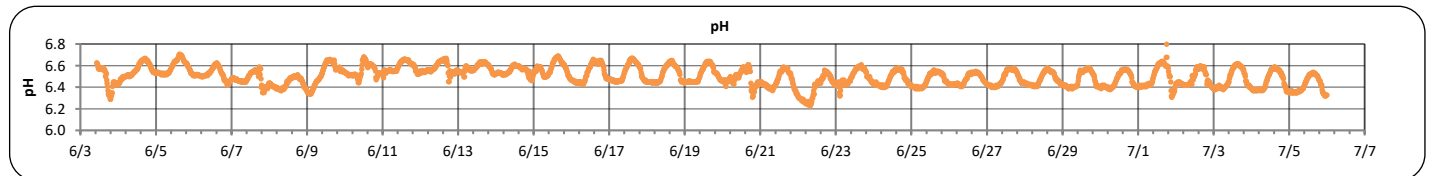
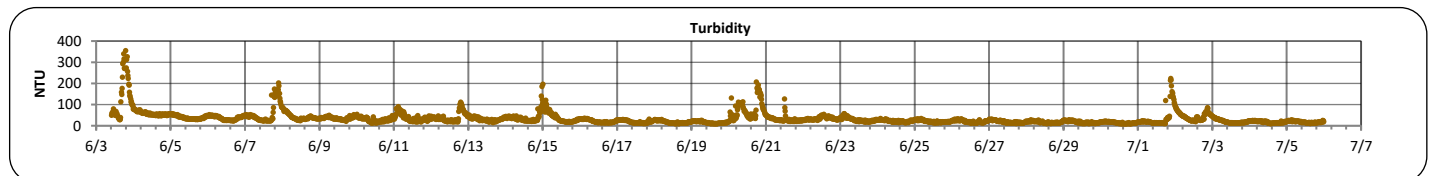
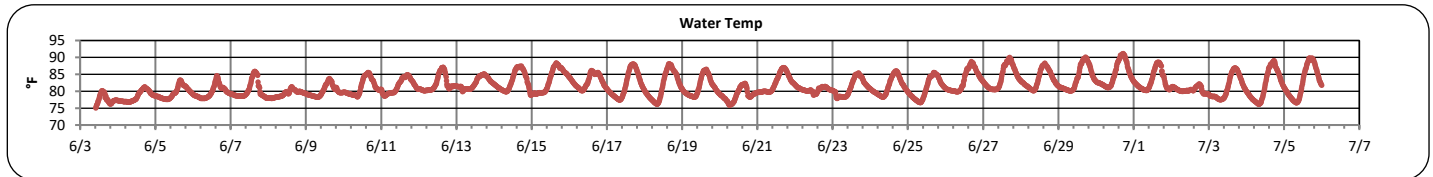
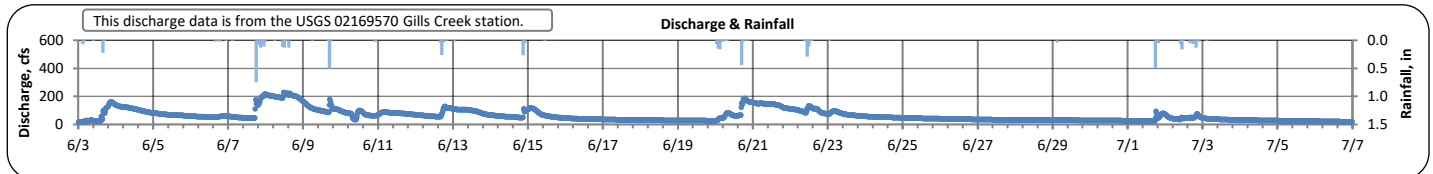
Potential Illicit Discharges and Abnormal Events:

The specific conductivity parameter increased abnormally during storm events on June 3<sup>rd</sup>, June 10<sup>th</sup>, June 14<sup>th</sup>, June 20<sup>th</sup>, and July 2<sup>nd</sup>. The specific conductivity parameter also increased on June 5<sup>th</sup>, June 9<sup>th</sup>, June 25<sup>th</sup>, June 28<sup>th</sup>, and June 30<sup>th</sup>. These events may have been the result of illicit discharges.

# Continuous Water Quality Monitoring Periodic Report

Gills Creek B (June 3, 2021 - July 6, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	DISCHARGE (CFS):	18.6	230.0	49.5	64.2	42.9
LOCATION:	Devine Street bridge	TEMPERATURE (°F):	75	91	81	82	3
ADDRESS:	4716 Devine Street Columbia, SC 29209	TURBIDITY (NTU):	10	356	26	34	31
COORDINATES:	33.989656, -80.97433	pH:	6.2	6.8	6.5	6.5	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.030	0.101	0.052	0.053	0.006
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.4	7.8	6.8	6.7	0.5
APPROX. DRAINAGE AREA:	59 square miles						
SPATIAL LOCATION:	Middle site						
TOTAL NO. STORMS OVER 0.1 INCH:	12						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	5.8 inches						



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

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek B (June 3, 2021 - July 6, 2021)**

**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	
	6/22/2021		7/2/2021		7/2/2021		7/2/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:38	2,290	10:55	4,884	12:05	2,755	13:25	4,611
Total Suspended Solids (mg/L)	11:38	55.2	10:55	24	12:05	19	13:25	28
Total Phosphorus (mg/L)			10:55	0.055	12:05	0.055	13:25	0.053
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

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

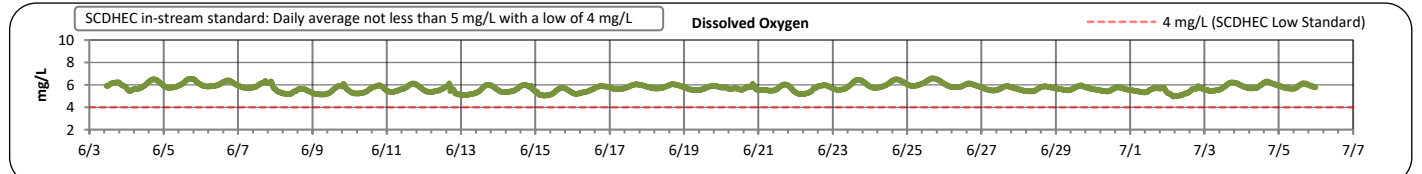
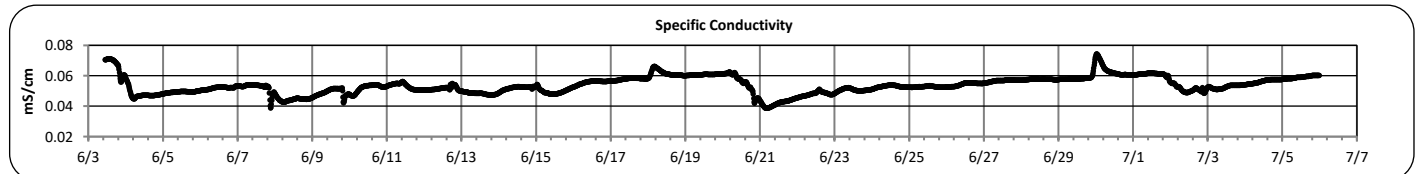
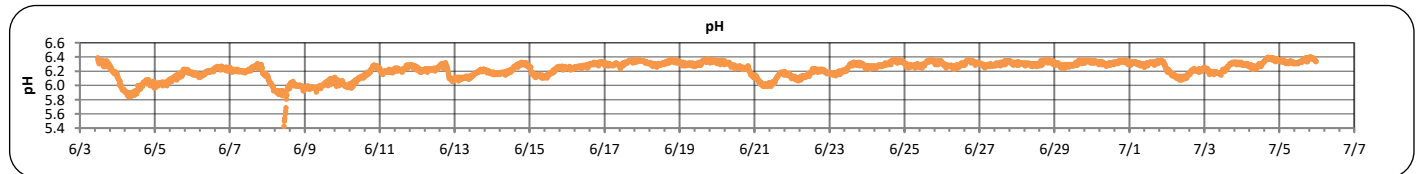
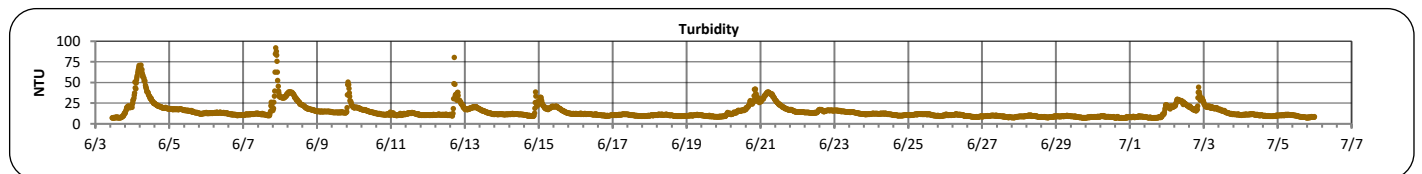
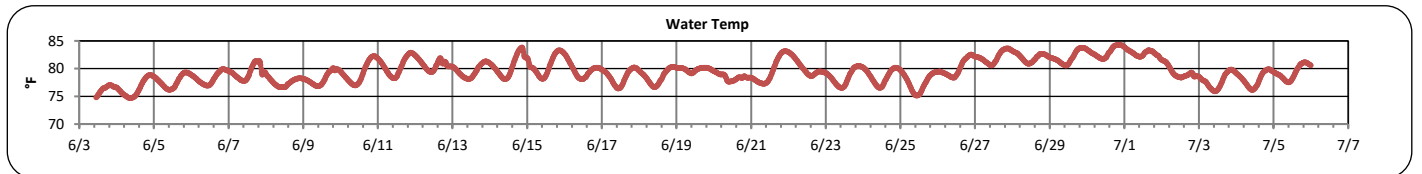
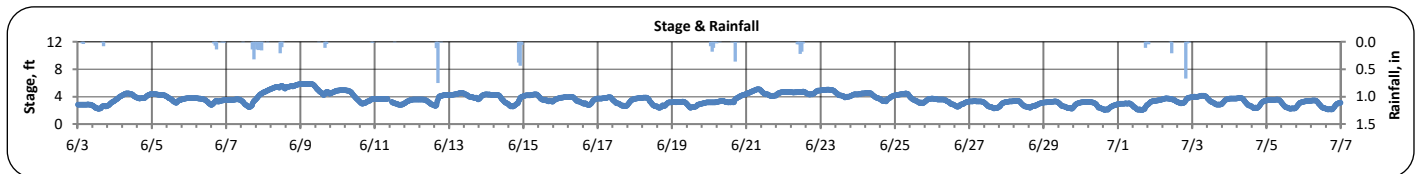
Potential Illicit Discharges and Abnormal Events:

The specific conductivity parameter increased on June 3<sup>rd</sup>, June 9<sup>th</sup>, June 11<sup>th</sup>, June 17<sup>th</sup>, June 20<sup>th</sup>, and June 29<sup>th</sup> which may have been the result of illicit discharges.

# Continuous Water Quality Monitoring Periodic Report

Gills Creek C (June 3, 2021 - July 6, 2021)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Gills Creek	STAGE (FT):	2.0	5.9	3.5	3.6	0.8
LOCATION:	Bluff Road bridge	TEMPERATURE (°F):	75	84	79	80	2
ADDRESS:	3009 Bluff Rd. Columbia, SC 29209	TURBIDITY (NTU):	7	92	12	15	9
COORDINATES:	33.948043, -80.9889	pH:	5.4	6.4	6.3	6.2	0.1
TMDL/IMPAIRMENT:	Fecal & Dissolved Oxygen	SPECIFIC CONDUCTIVITY (mS/cm):	0.0387	0.0743	0.0531	0.054	0.006
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.0	6.6	5.8	5.7	0.3
APPROX. DRAINAGE AREA:	64 square miles						
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	13						
MAX. DAILY RAINFALL:	1.05 inches						
TOTAL RAINFALL (FOR PERIOD):	6.3 inches						



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

REPORT GENERATED ON 07/26/2021

**Continuous Water Quality  
Monitoring Periodic Report**

**Gills Creek C (June 3, 2021 - July 6, 2021)**

**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	
	6/22/2021		7/2/2021		7/2/2021		7/2/2021	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	12:18	370	11:11	2,700	12:20	2,187	13:40	1597
Total Suspended Solids (mg/L)	12:18	14	11:11	19	12:20	22	13:40	18
Total Phosphorus (mg/L)			11:11	0.06	12:20	0.061	13:40	0.052
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

**Notes:**

Data Gaps

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

Potential Illicit Discharges and Abnormal Events:

The pH decreased abnormally on June 8<sup>th</sup> after a storm event. The specific conductivity increased on June 3<sup>rd</sup>, June 18<sup>th</sup>, and June 30<sup>th</sup> which may have been the result of illicit discharges.