

# Kinley Creek Monitoring Sites

## Monitoring Data Summary for April 30<sup>th</sup>, 2020 – June 3<sup>rd</sup>, 2020

### *Data Gaps*

- KINA and KINB did not experience any interruptions in the data during this monitoring period.

### *SCDHEC Standards*

- KINA did not record pH readings that were outside the SCDHEC acceptable range of 6 to 8.5. KINB recorded a minimum pH value of 5.8, which was below the SCDHEC acceptable range.
- The KINA and KINB station recorded average DO concentrations of 7.0 mg/L and 7.2 mg/L, respectively, which are both well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 5.1 mg/L and 5.0 mg/L at the KINB station, which are both above the SCDHEC instantaneous minimum standard of 4 mg/L.

### *Storm Events*

- The rain gauge along Kinley Creek recorded 13 storm events during this deployment period that resulted in a total of 8.7 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.

### *Potential Illicit Discharges and Abnormal Events*

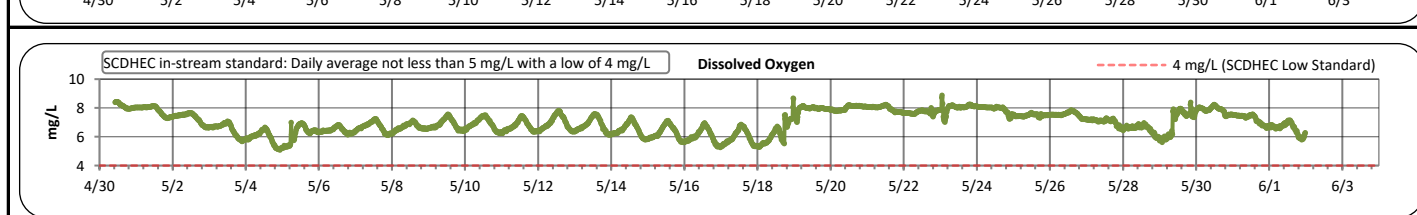
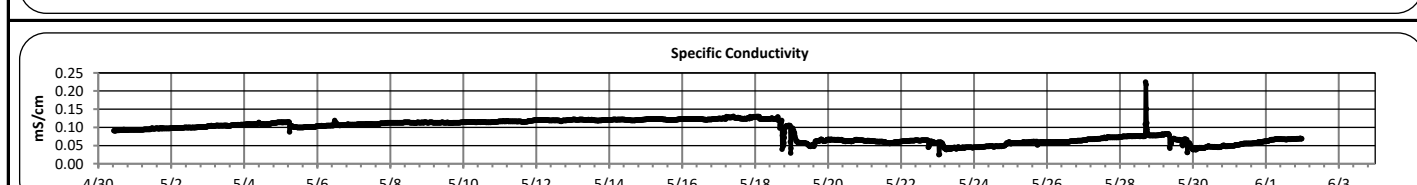
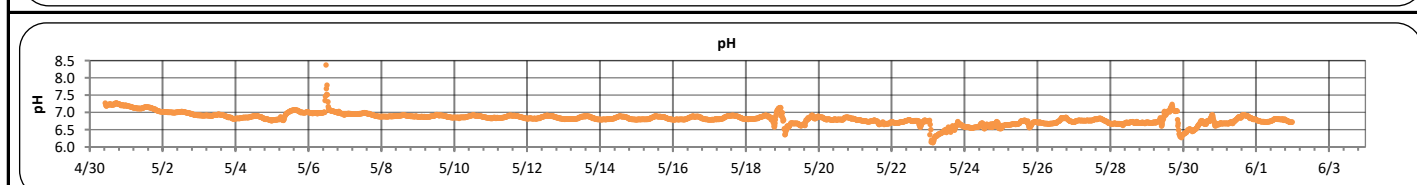
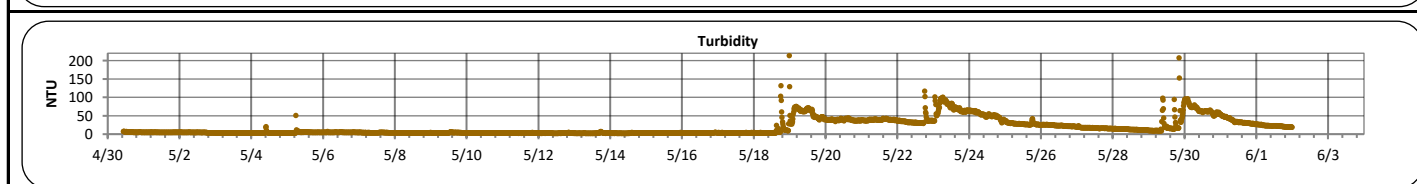
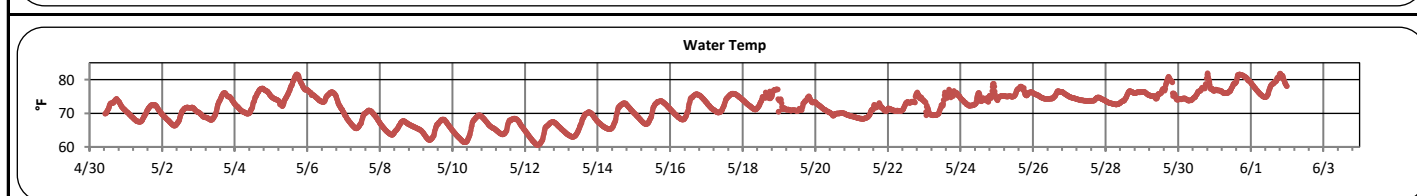
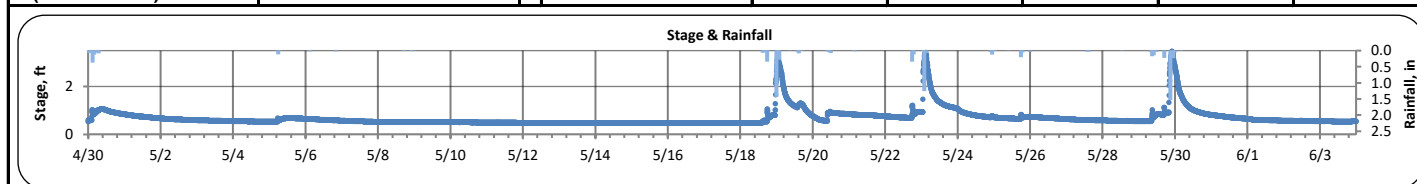
- There was a small spike in specific conductivity at KINA and KINB on May 28<sup>th</sup> that may have been the result of an illicit discharge.

### *Flow Measurements*

- No flow measurements were taken in the Kinley Creek watershed during this monitoring period.

**Kinley Creek A (April 30, 2020 - June 3, 2020)**

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	3.4	0.6	0.7	0.3
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	61	82	72	72	4
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	3	214	6	20	22
COORDINATES:	34.069897, -81.164592	pH:	6.1	8.4	6.8	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.025	0.225	0.100	0.090	0.028
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.1	8.9	7.0	7.0	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	13						
MAX. DAILY RAINFALL:	2.5 inches						
TOTAL RAINFALL (FOR PERIOD):	8.7 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**

**Kinley Creek A (April 30, 2020 - June 3, 2020)**

**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.

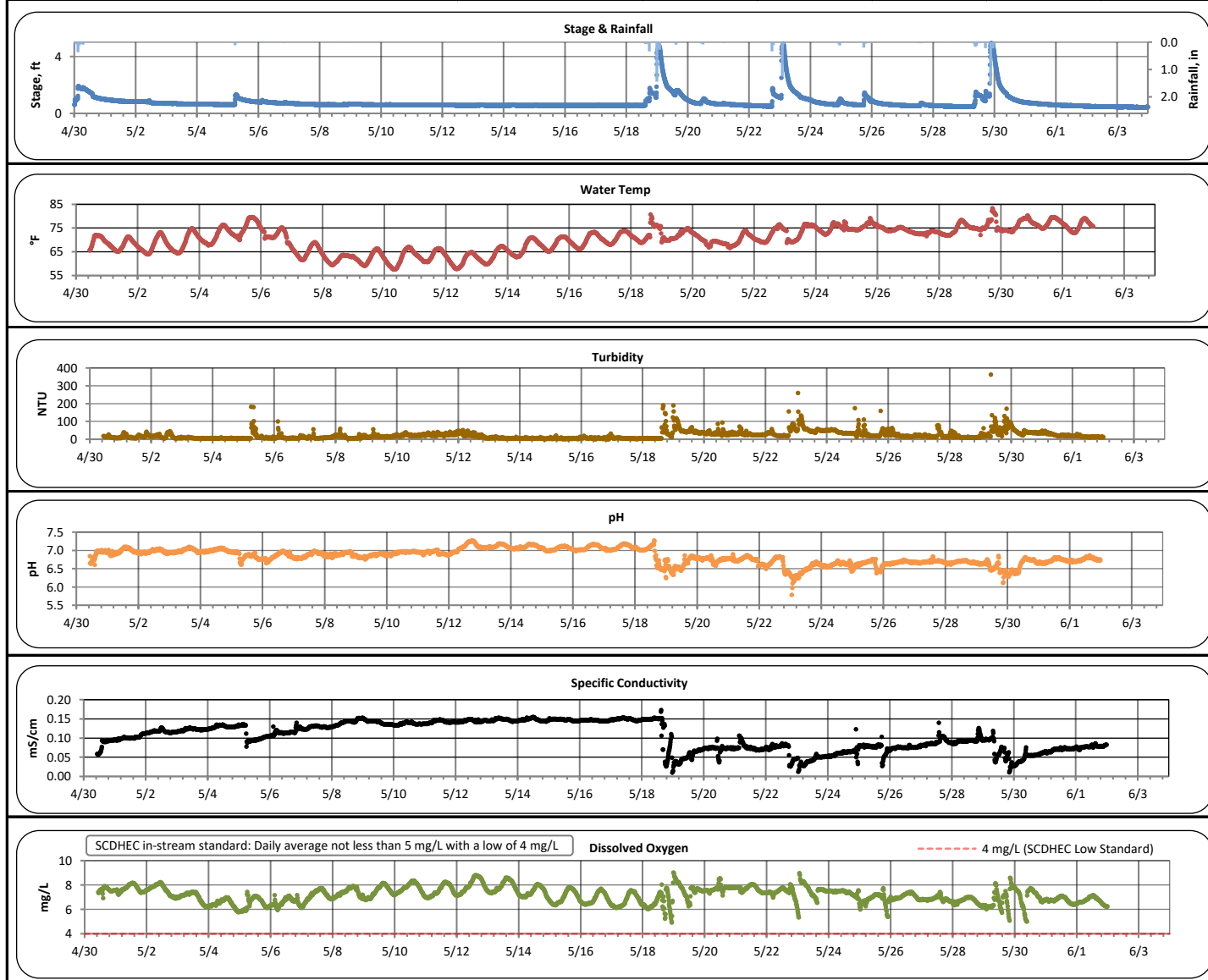
**Grab Sample Data:**

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
	5/20/2020		5/20/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:50	4,284	11:35	4,128						
Total Suspended Solids (mg/L)	9:50	17.3	11:35	18.3						
Total Phosphorus (mg/L)	9:50	0.09	11:35	0.096						
Total Nitrogen (mg/L)	9:50	1.03	11:35	0.98						

Note: Sample 1 and Sample 2 were taken during wet weather conditions.

**Kinley Creek B (April 30, 2020 - June 3, 2020)**

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	4.9	0.6	0.8	0.5
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	58	83	71	70	5
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	363	18	23	23
COORDINATES:	34.06635, -81.159986	pH:	5.8	7.3	6.9	6.8	0.2
TMDL/IMPAIEMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.010	0.173	0.106	0.105	0.036
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.0	9.0	7.2	7.2	0.6
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	13						
MAX. DAILY RAINFALL:	2.5 inches						
TOTAL RAINFALL (FOR PERIOD):	8.7 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**

**Kinley Creek B (April 30, 2020 - June 3, 2020)**

**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		Sample 5	
	5/20/2020		5/20/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	10:08	2,356	11:50	2,562						
Total Suspended Solids (mg/L)	10:08	16.4	11:50	27.4						
Total Phosphorus (mg/L)	10:08	0.087	11:50	0.095						
Total Nitrogen (mg/L)	10:08	0.82	11:50	0.84						

Note: Sample 1 and Sample 2 were taken during wet weather conditions.