

# Kinley Creek Monitoring Sites

## Monitoring Data Summary for March 26<sup>th</sup>, 2020 – April 29<sup>th</sup>, 2020

### *Data Gaps*

- KINA did not experience any interruptions in the data during this monitoring period.
- The KINB sonde became buried for a brief period from April 14<sup>th</sup>-17<sup>th</sup>. The turbidity, DO, and pH sensors were buried so the data for these parameters were deleted during this time period.

### *SCDHEC Standards*

- Neither of the Kinley Creek monitoring stations recorded pH readings that were within the SCDHEC acceptable range of 6 to 8.5.
- The KINA and KINB station recorded average DO concentrations of 7.2 mg/L and 7.3 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 5.4 mg/L and 5.7 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 6 storm events during this deployment period that resulted in a total of 2.8 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 18.1 days in the Kinley Creek watershed, occurring prior to the April 12<sup>th</sup> storm event.

### *Potential Illicit Discharges and Abnormal Events*

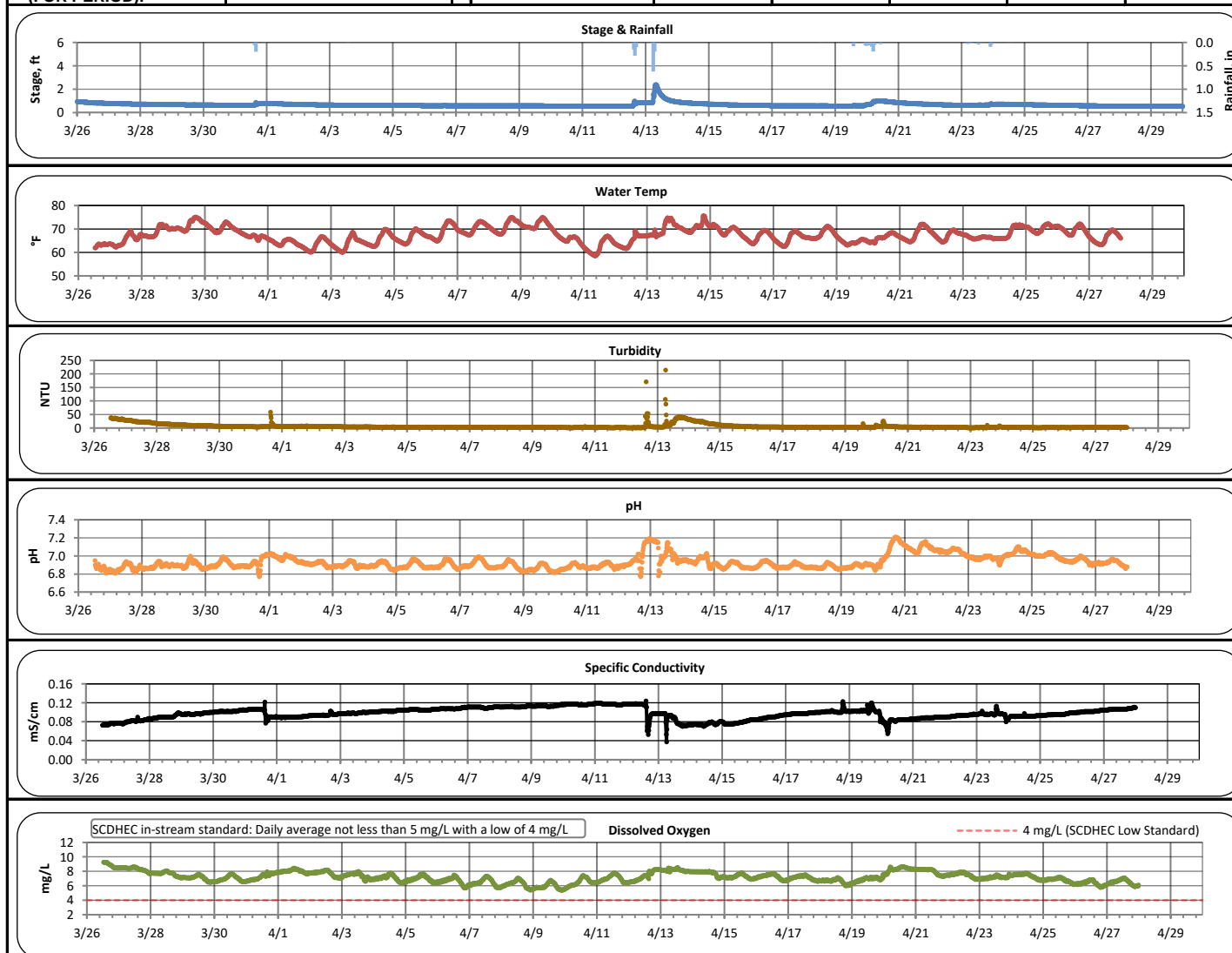
- No potential illicit discharges or abnormal events occurred in the Kinley Creek watershed during this monitoring period.

### *Flow Measurements*

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

**Kinley Creek A (March 26, 2020 - April 29, 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	2.4	0.6	0.7	0.2
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	59	76	67	68	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	215	4	7	9
COORDINATES:	34.069897, -81.164592	pH:	6.8	7.2	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.038	0.124	0.098	0.098	0.012
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.4	9.3	7.2	7.2	0.7
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	6						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	2.8 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**

**Kinley Creek A (March 26, 2020 - April 29, 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.

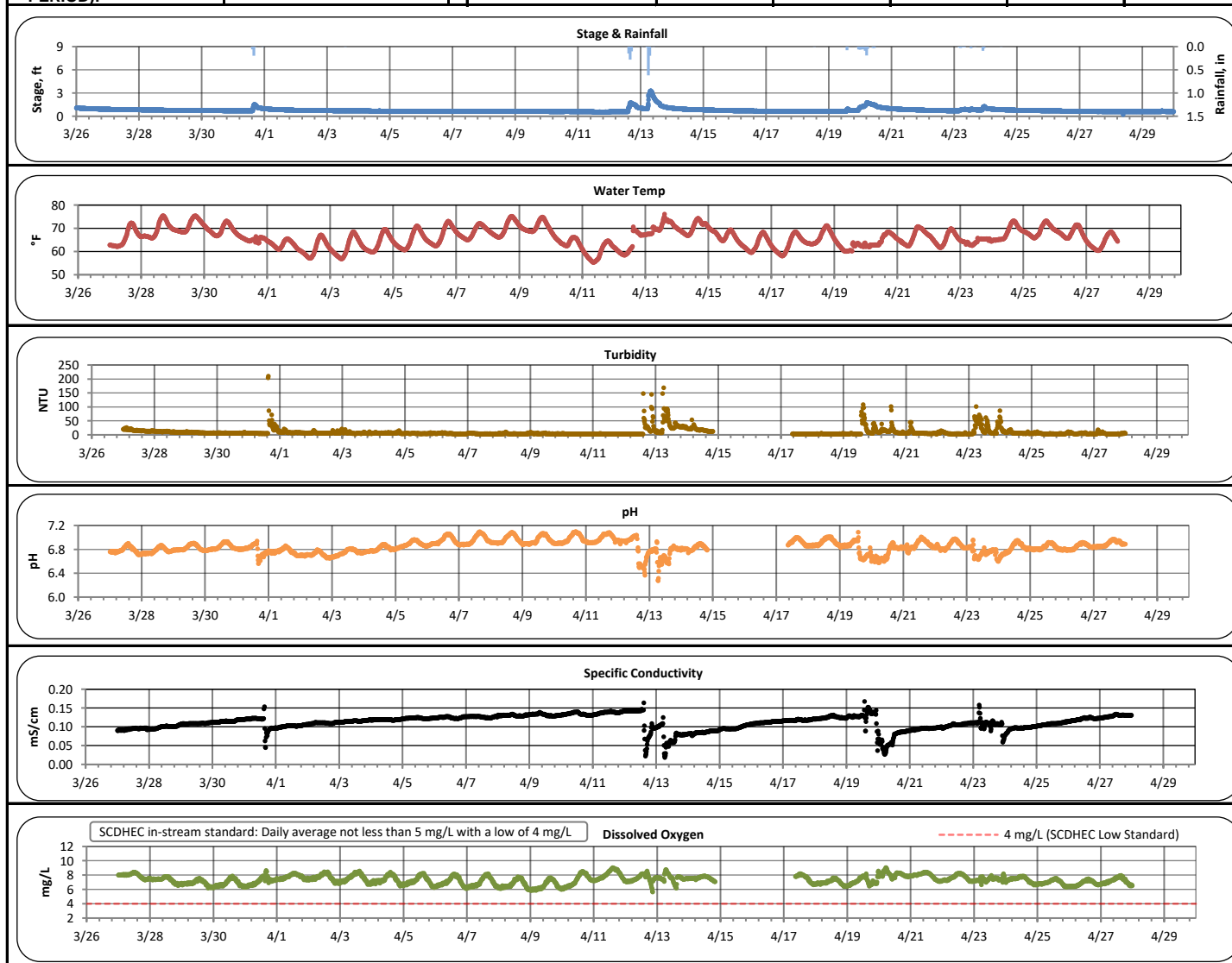
**Grab Sample Data:**

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
	4/6/2020		4/13/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	12:00	432	9:40	1,980						
Total Suspended Solids (mg/L)			9:40	15						
Total Phosphorus (mg/L)			9:40	0.1						
Total Nitrogen (mg/L)			9:40	1.14						

Note: Sample 1 was taken during dry weather conditions. Sample 2 was taken during wet weather conditions.

**Kinley Creek B (March 26, 2020 - April 29, 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):	0.2	3.3	0.7	0.8	0.3
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	55	76	66	66	4
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	3	210	6	10	14
COORDINATES:	34.06635, -81.159986	pH:	6.3	7.2	6.9	6.8	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.168	0.114	0.112	0.019
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.7	9.1	7.4	7.3	0.6
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	6						
MAX. DAILY RAINFALL:	0.9 inches						
TOTAL RAINFALL (FOR PERIOD):	2.8 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**

**Kinley Creek B (March 26, 2020 - April 29, 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	
	4/6/2020		4/13/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	12:15	346	9:55	2024						
Total Suspended Solids (mg/L)			9:55	31.7						
Total Phosphorus (mg/L)			9:55	9.3						
Total Nitrogen (mg/L)			9:55	1.13						

Note: Sample 1 was taken during dry weather conditions. Sample 2 was taken during wet weather conditions.