

Kinley Creek Monitoring Sites

Data Gaps

- Neither of the Kinley Creek stations observed any data gap periods during this deployment.

SCDHEC Standards

- The Kinley Creek monitoring stations did not record any violations of the pH standard during this monitoring period.
- The KINA and KINB stations recorded average DO concentrations during this monitoring period of 4.8 and 5.8 mg/L, respectively. These relatively low DO values are likely the result of a combination of warm water temperatures and dry weather during the second part of the deployment. Additionally, the storm event recorded on June 23rd appears to have caused depressed DO concentrations in Kinley Creek, with both the KINA and KINB stations recording values below the 4 mg/L standard following this event.

Storm Events

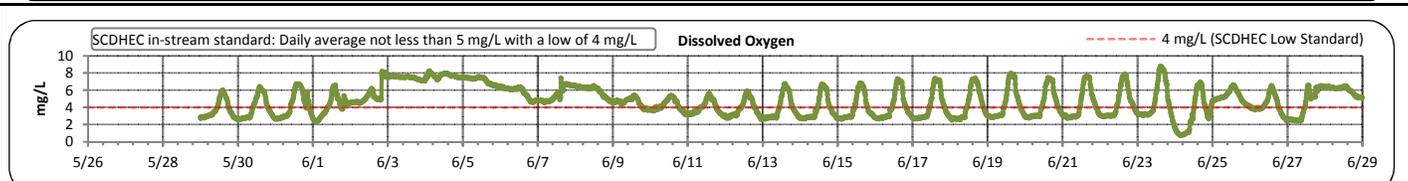
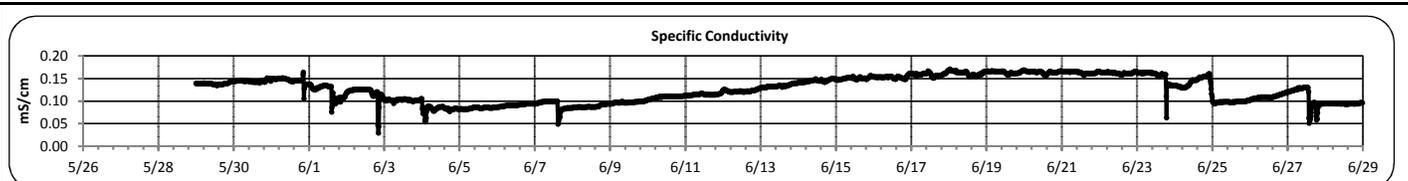
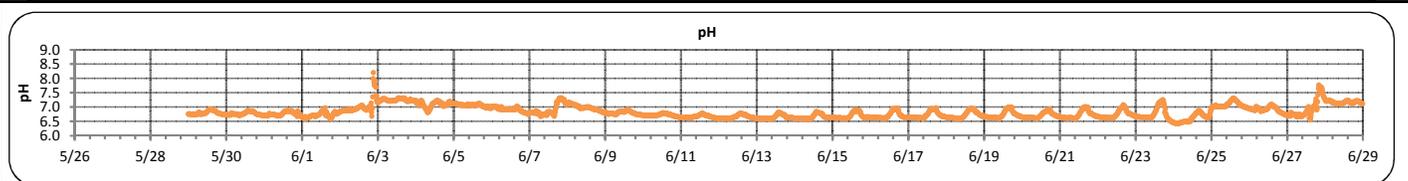
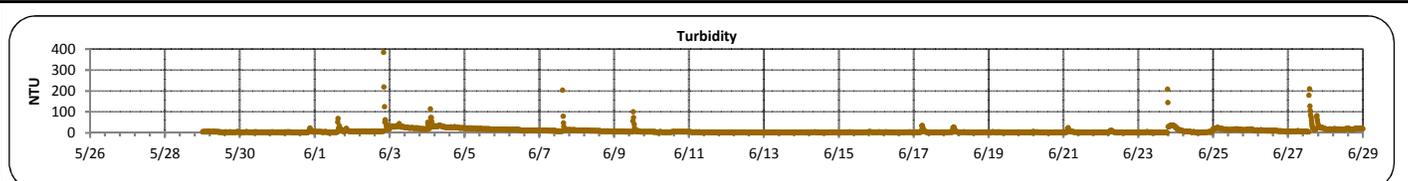
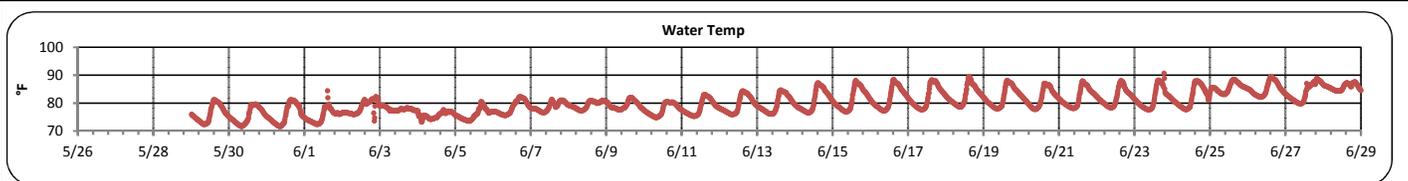
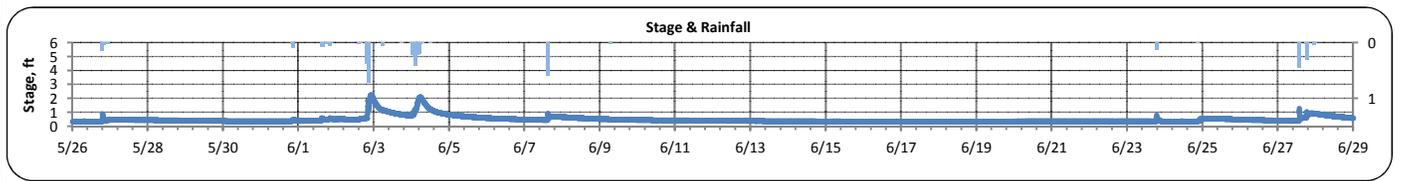
- The Kinley Creek rain gage recorded a number of storm events during the first part of the monitoring period, but no storm events were recorded between June 8th and June 22nd. A total of 4.8 inches of rain was recorded for the monitoring period.

Potential Illicit Discharges and Abnormal Events

- The KINA station recorded 4 potential illicit discharges which all caused slight increases in turbidity levels. These occurred on June 9th, 17th, 18th, and 21st.
- At the KINB station, three potential illicit events were recorded, all of which caused a slight increase in specific conductivity, along with a very small stage increase and a moderate turbidity increase. These events occurred on May 29th, June 11th, and June 19th. The event on June 11th also caused a slight decrease in DO concentration.

Kinley Creek A (May 26, 2015 -- June 28, 2015)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.3	2.2	0.4	0.5	0.2
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	72	91	80	80	4
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	385	4	9	15
COORDINATES:	34.069897, -81.164592	pH:	6.4	8.2	6.8	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.029	0.171	0.129	0.126	0.028
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	0.8	8.8	4.7	4.8	1.7
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	1.3 inches						
TOTAL RAINFALL (FOR PERIOD):	4.8 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 (May 26, 2015 -- June 28, 2015)

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.

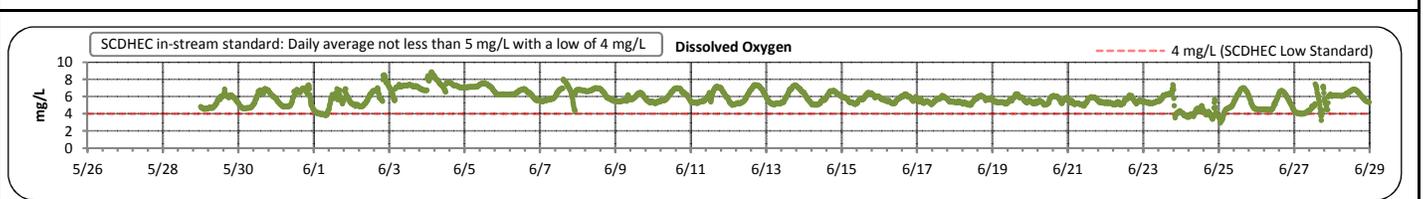
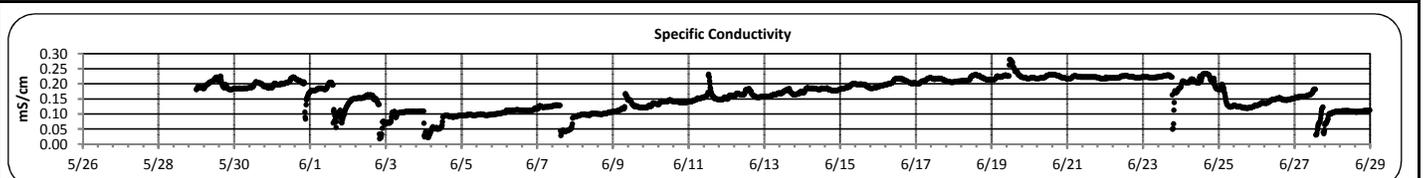
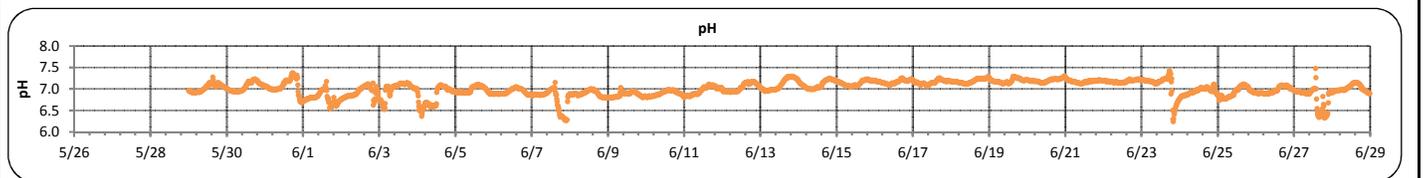
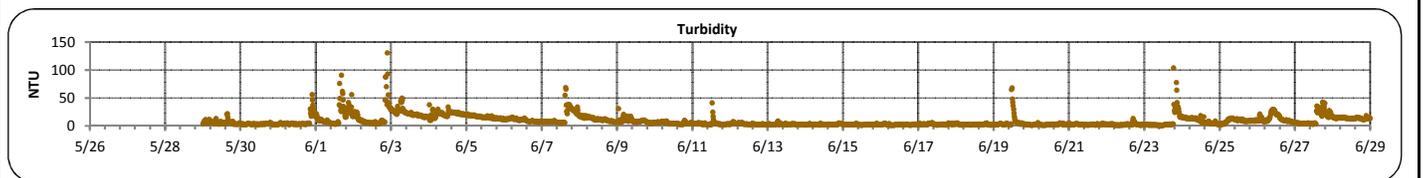
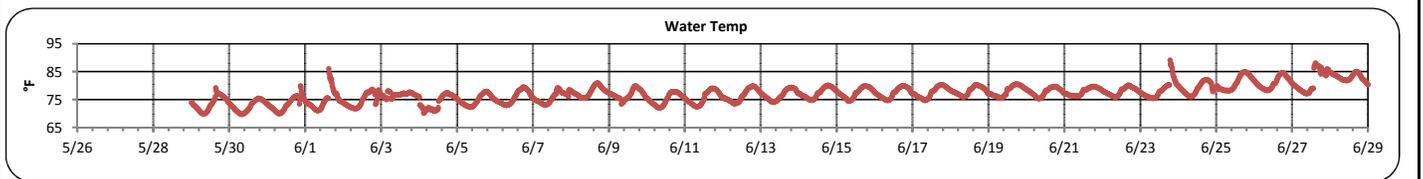
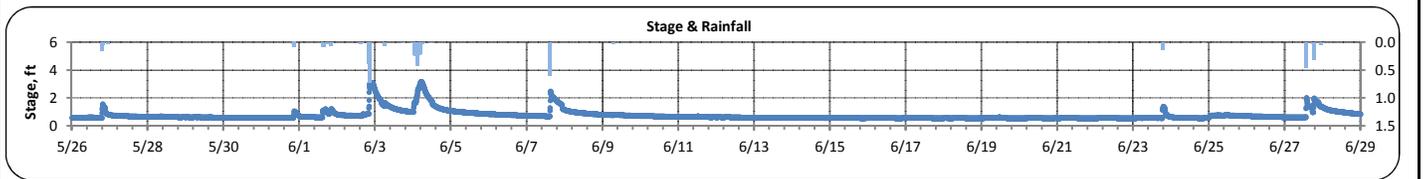
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:

Kinley Creek B (May 26, 2015 -- June 28, 2015)

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	3.2	0.6	0.8	0.4
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	70	89	77	77	3
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	131	5	9	10
COORDINATES:	34.06635, -81.159986	pH:	6.2	7.5	7.0	7.0	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.017	0.281	0.168	0.162	0.051
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.0	8.9	5.8	5.8	0.9
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	1.3 inches						
TOTAL RAINFALL (FOR PERIOD):	4.8 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 (May 26, 2015 -- June 28, 2015)

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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	6/1/2015		6/1/2015		6/1/2015			
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	14:17	1,130	14:27	1,725	14:45	7,701		
Total Suspended Solids (mg/L)	14:17	4.2	14:27	7.2	14:45	70		
Total Phosphorus (mg/L)	14:17	0.066	14:27	0.064	14:45	0.23		
Total Nitrogen (mg/L)	14:17	0.92	14:27	0.91	14:45	2.08		

Note: