

Kinley Creek Monitoring Sites

Data Gaps

- Neither of the Kinley Creek stations experienced any submergence or fouling issues during this deployment period.

SCDHEC Standards

- The Kinley Creek monitoring stations did not record any violations of the pH standard during this monitoring period.
- No violations of the DO standard were recorded during this period. Average DO concentrations were 10.7 and 10.8 mg/L at the KINA and KINB stations, respectively.

Storm Events

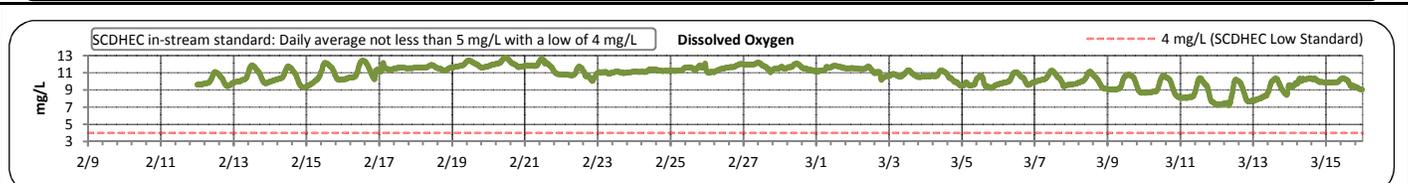
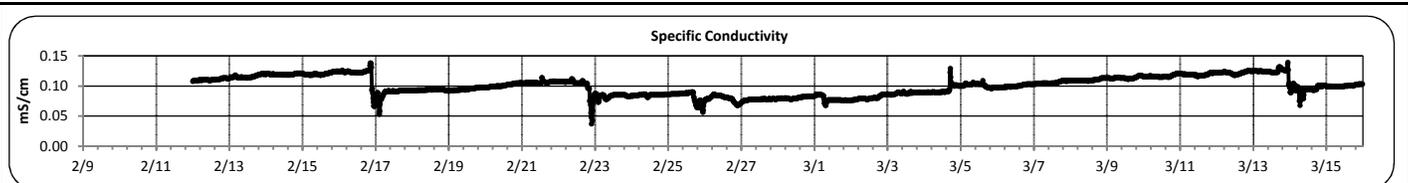
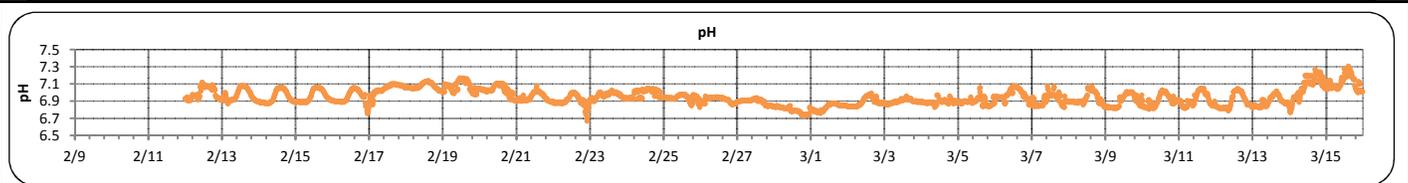
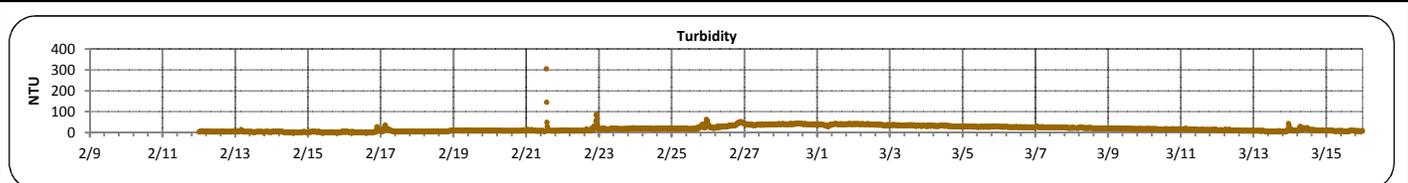
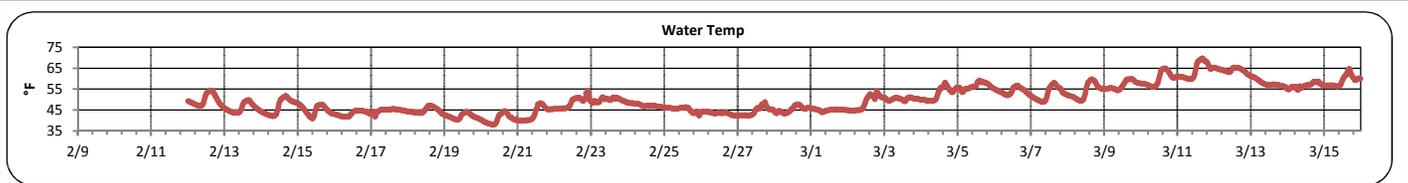
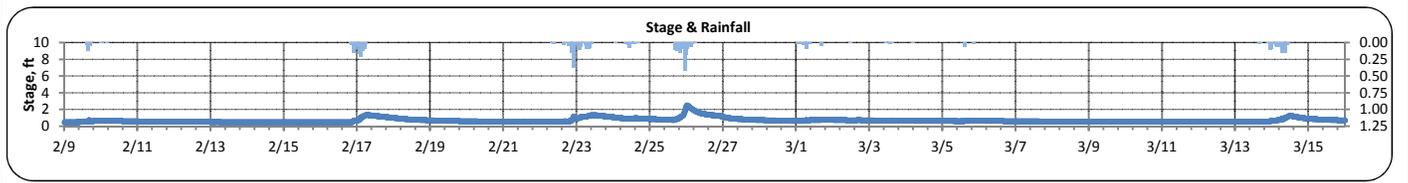
- The Kinley Creek rain gage recorded 7 storm events during this deployment period. The largest of these was recorded from February 25th to the 26th, and totaled 1.55 inches of precipitation.
- During the small storm event recorded on February 24th, as well as the larger event recorded on February 25th and 26th, the specific conductivity levels at KINB increased significantly. This may have been the result of salt application on or the roads or in the shopping center parking lots of Harbison Boulevard.

Potential Illicit Discharges and Abnormal Events

- At the KINA station, 2 potential illicit discharge events were recorded:
 - On February 21st, the specific conductivity, turbidity and stage increased at KINA. The DO was also observed to decrease slightly. This event last only 2 hours.
 - On March 4th, the specific conductivity increased significantly at KINA, lasting only one hour. This discharge event did not impact any of the other monitored parameters.
- At KINB, 5 potential illicit discharges were recorded:
 - On February 12th, the specific conductivity and turbidity increased at KINB, and the stage also experienced a very small elevation.
 - On February 15th, 18th, and 21st, the turbidity at KINB increased without any other monitored parameters being affected.
 - On February 27th, another turbidity increase was noted, along with slightly elevated pH and specific conductivity readings.
- In addition to these events, an unusual elevated turbidity level was noted at both the KINA and KINB stations from February 23rd through March 5th. Turbidity levels in this creek typically remain between 5 and 10 NTU during base flow periods, but baseflow turbidity levels between 20 and 40 NTU were recorded during this period at the KINA and KINB sites.

Kinley Creek A (February 9 -- March 15, 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	2.5	0.6	0.7	0.3
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	38	70	49	50	7
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	305	17	19	14
COORDINATES:	34.069897, -81.164592	pH:	6.7	7.3	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.037	0.139	0.100	0.100	0.016
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	7.2	12.8	10.8	10.7	1.1
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.3 inches						
TOTAL RAINFALL (FOR PERIOD):	5.7 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 (February 9 -- March 15, 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.

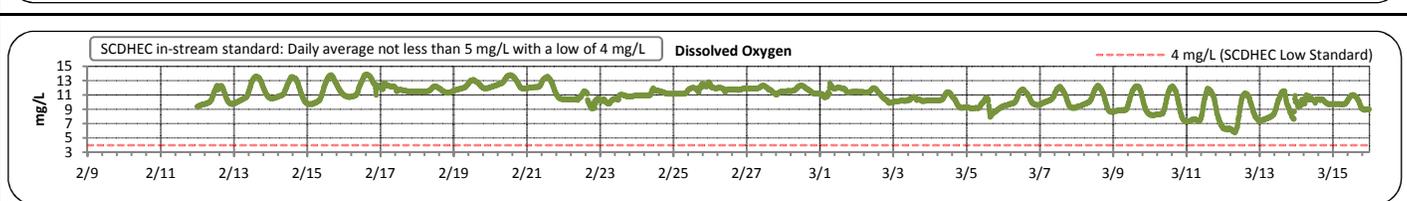
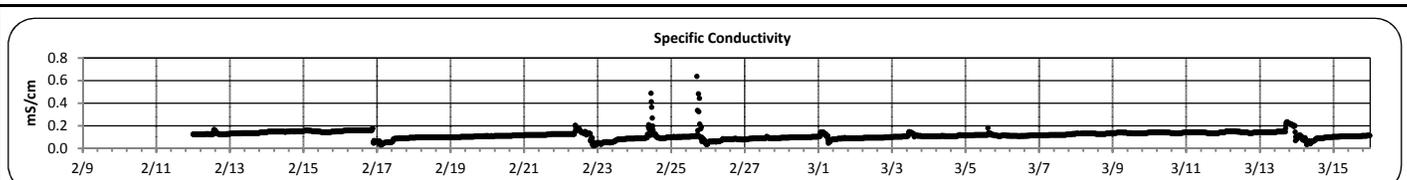
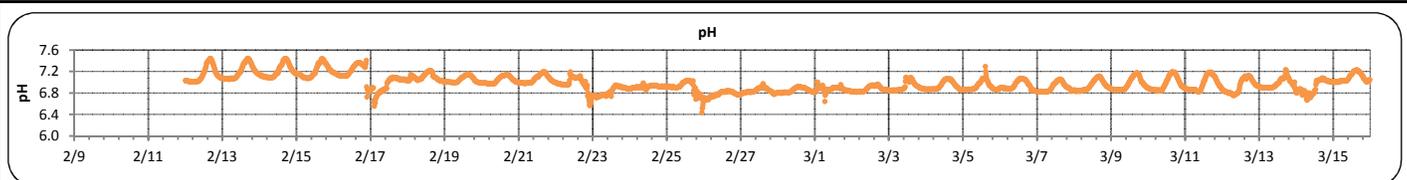
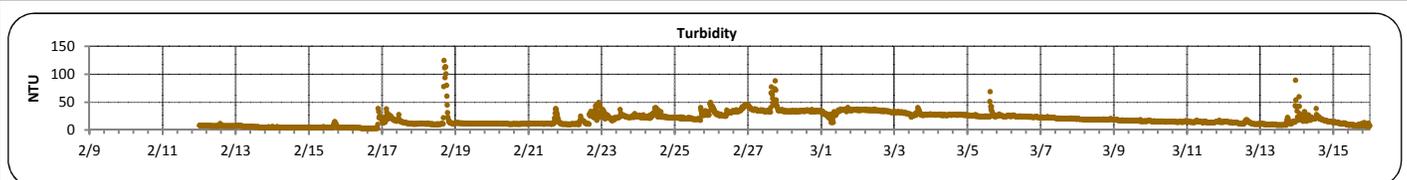
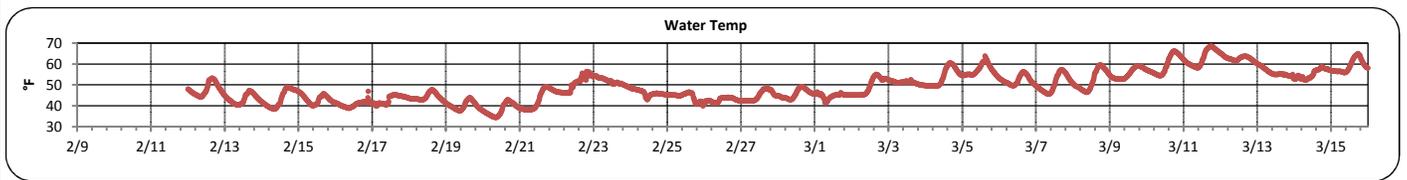
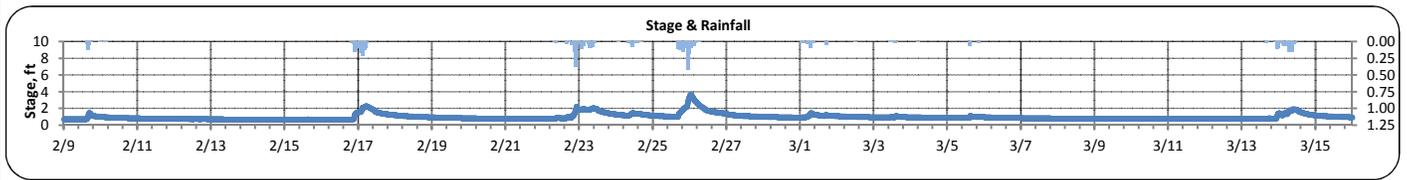
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3	
	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 (February 9 -- March 15, 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):	0.7	3.7	0.9	1.0	0.4
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	34	68	48	49	7
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	3	125	17	19	11
COORDINATES:	34.06635, -81.159986	pH:	6.4	7.5	7.0	7.0	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.023	0.637	0.113	0.115	0.033
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.8	13.9	11.0	10.8	1.5
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	7						
MAX. DAILY RAINFALL:	1.3 inches						
TOTAL RAINFALL (FOR PERIOD):	5.7 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

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Explanation of Statistics:

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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	
	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: