

Kinley Creek Monitoring Sites

Data Gaps

- The KINA station was damaged during the October flooding event. Repairs were performed on the station on November 3rd, and the sonde was redeployed.
- No data gaps were recorded at the KINB station during this deployment.

SCDHEC Standards

- The KINA station did not record any violations of the pH standards during this deployment.
- The KINB station recorded a maximum pH level of 8.7, slightly above the 8.5 maximum limit set by SCDHEC. This exceedance occurred on October 27th, during a small storm event, and may have been the result of an illicit discharge taking place during that storm.
- The KINA and KINB stations both recorded average DO concentrations above the 5.0 mg/L daily average minimum SCDHEC standard, with the KINA stations recording an average of 8.8 mg/L and the KINB station recording an average of 7.8 mg/L. Neither station violated the minimum instantaneous standard of 4 mg/L.

Storm Events

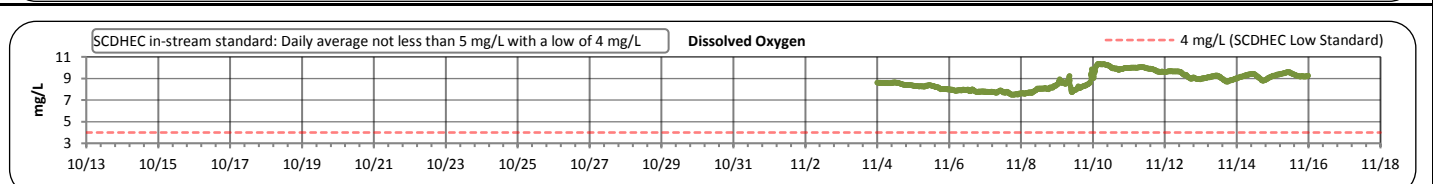
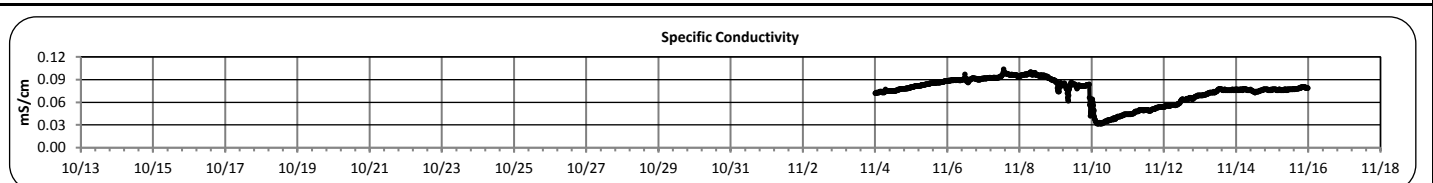
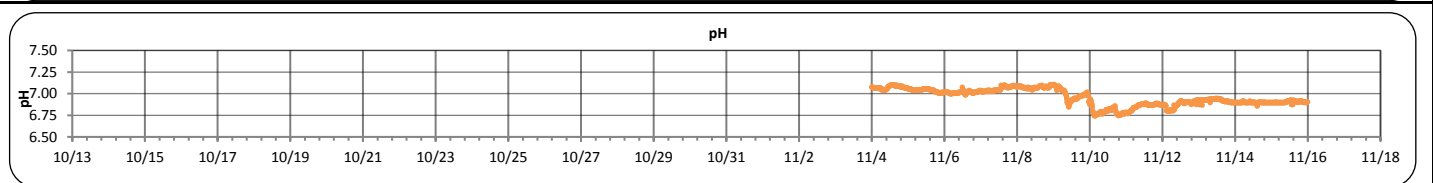
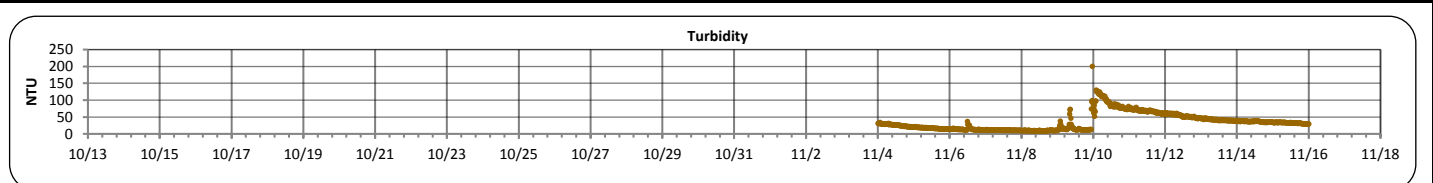
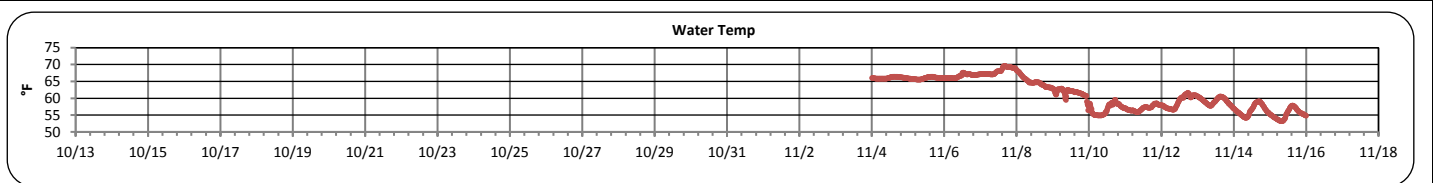
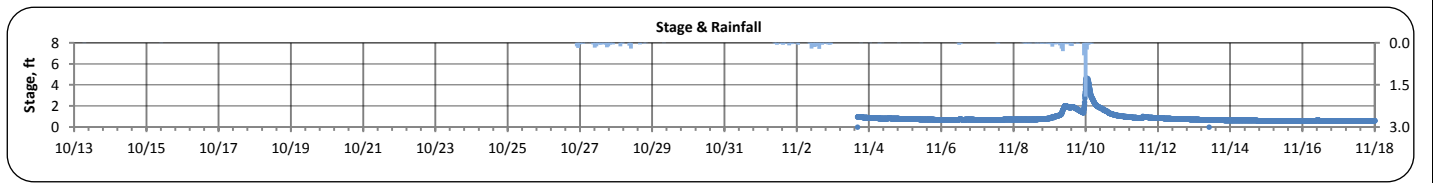
- The Kinley Creek rain gage recorded a number of small rainfall events during this period totaling 8.4 inches of precipitation over the course of the deployment.
- The most significant storm event during this period occurred in the early morning of November 10th, when 2.7 inches of precipitation was recorded.

Potential Illicit Discharges and Abnormal Events

- The KINA station did not record any potential illicit discharge events.
- As described above, the KINB station recorded a potential illicit discharge event on October 27th during a small storm event that resulted in a pH upper standard infraction. In addition, two smaller potential illicit discharge events were noted. These occurred on October 16th and November 13th and caused slight increases in specific conductivity and decreases in DO levels.

Kinley Creek A (October 13, 2015 -- November 17, 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):	0.0	4.7	0.7	0.9	0.5
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	53	70	61	61	5
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	9	200	31	36	26
COORDINATES:	34.069897, -81.164592	pH:	6.7	7.1	6.9	7.0	0.1
TMD/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.032	0.104	0.077	0.075	0.017
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	7.5	10.4	8.8	8.8	0.8
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	3.7 inches						
TOTAL RAINFALL (FOR PERIOD):	8.4 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 (October 13, 2015 -- November 17, 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.

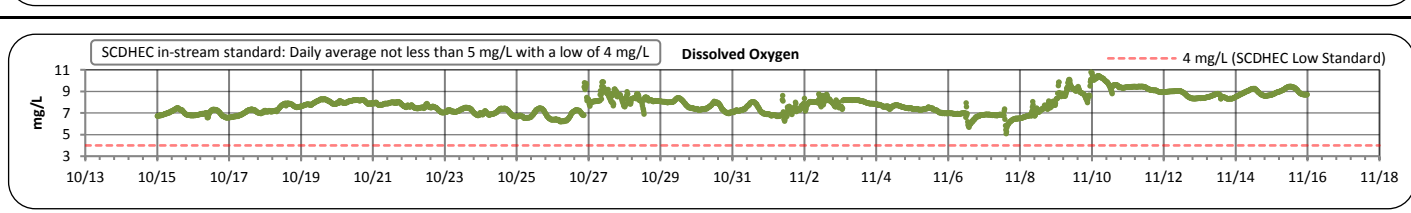
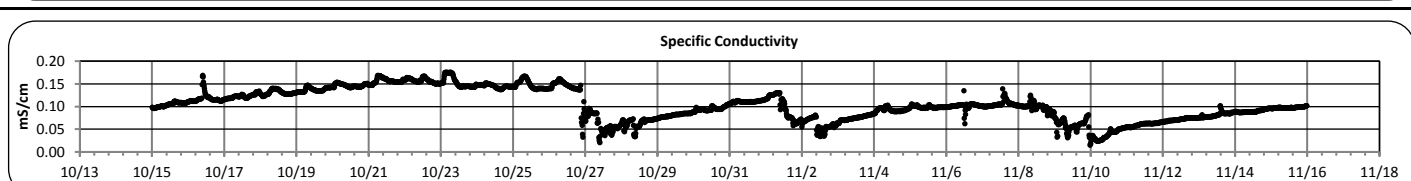
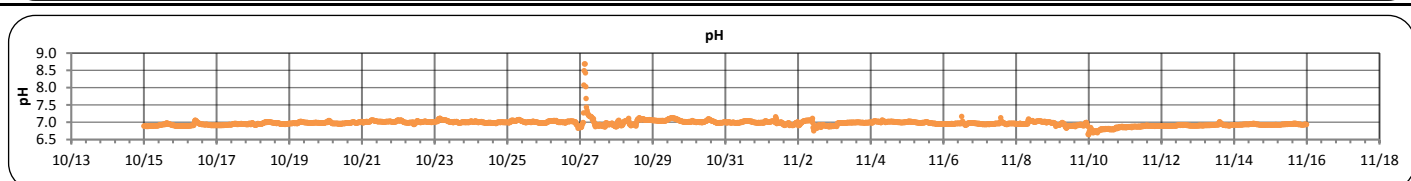
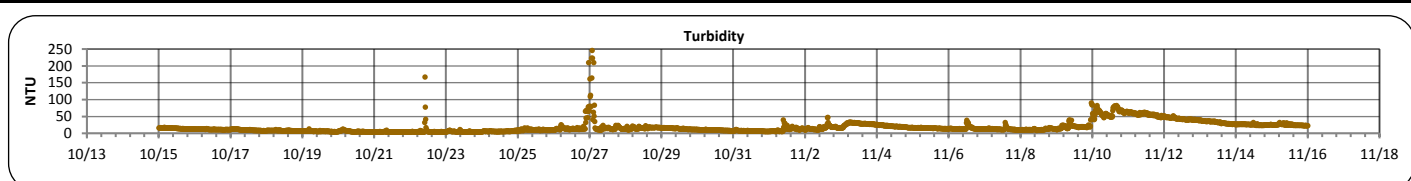
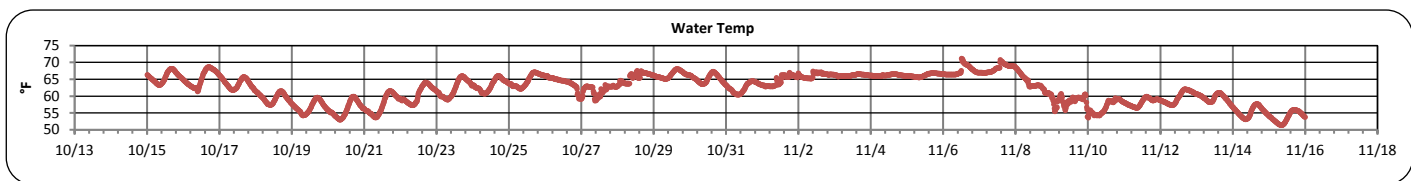
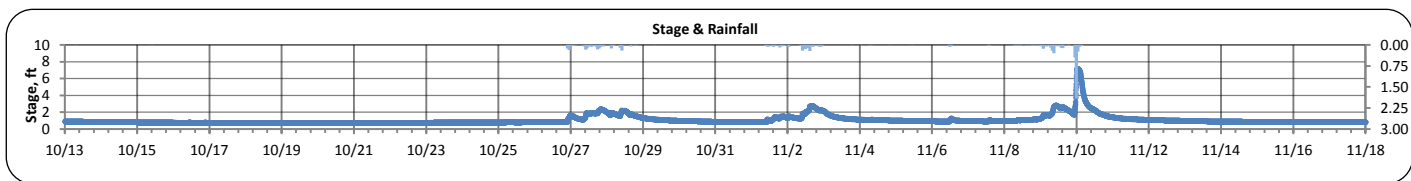
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	11/4/2015							
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	10:34	1812.0						
Total Suspended Solids (mg/L)	10:34	12						
Total Phosphorus (mg/L)	10:34	0.089						
Total Nitrogen (mg/L)	10:34	0.71						

Note: This station was damaged during the flood event in October. The data displayed on the graphs is after the station was replaced.

Kinley Creek B (October 13, 2015 -- November 17, 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	7.2	0.9	1.1	0.6
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	51	71	63	62	4
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	4	246	13	19	18
COORDINATES:	34.06635, -81.159986	pH:	6.7	8.7	7.0	7.0	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.015	0.175	0.1	0.103	0.034
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	5.1	10.8	7.7	7.8	0.9
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	9						
MAX. DAILY RAINFALL:	3.7 inches						
TOTAL RAINFALL (FOR PERIOD):	8.4 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 (October 13, 2015 -- November 17, 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	
	11/4/2015							
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	10:59	682						
Total Suspended Solids (mg/L)	10:59	8.5						
Total Phosphorus (mg/L)	10:59	0.093						
Total Nitrogen (mg/L)	10:59	0.7						

Note: