

Kinley Creek Monitoring Sites

Monitoring Data Summary for June 8th, 2017 – July 12th, 2017

Data Gaps

- The KINA station did not experience any gaps in the data record during this monitoring period.
- The KINB sonde experienced turbidity fouling from June 20th – June 22nd, June 24th, and July 7th – July 8th, and this data was removed from the dataset.

SCDHEC Standards

- None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINA and KINB stations recorded average DO concentrations of 6.0 mg/L and 5.5 mg/L, respectively. These averages were above the SCDHEC daily average standard minimum of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 4.2 mg/L and 3.3 mg/L, respectively. The low DO minimums at KINB occurred during two minor rainfall events toward the end of the deployment period.

Storm Events

- The Kinley rain gauge recorded eight storm events over this deployment period, resulting in 5.7 inches of precipitation.
- Both stations recorded typical storm event responses during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 9.8 days in the Kinley Creek watershed, and occurred prior to the June 19th storm event.

Potential Illicit Discharges and Abnormal Events

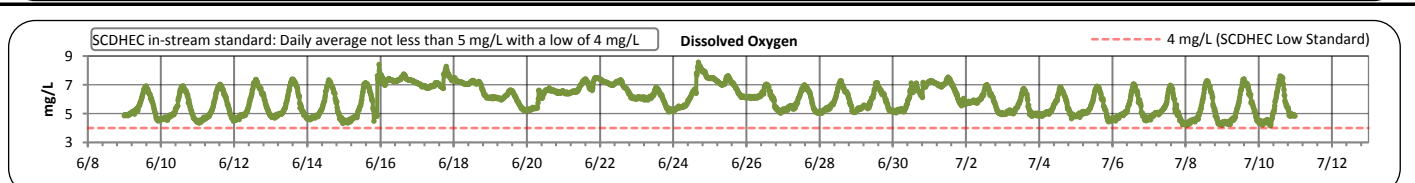
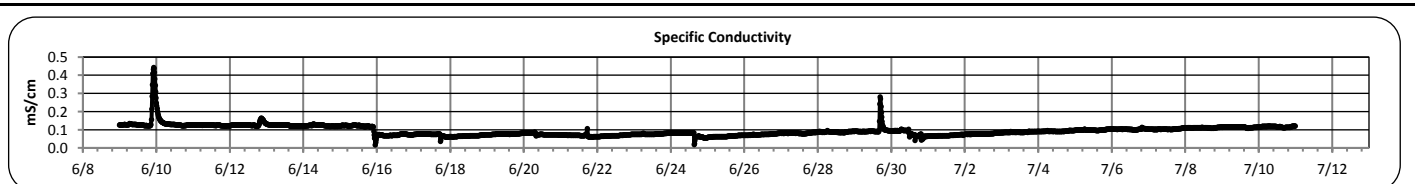
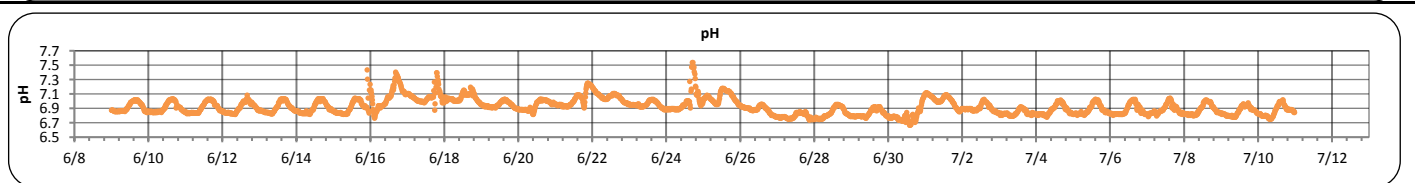
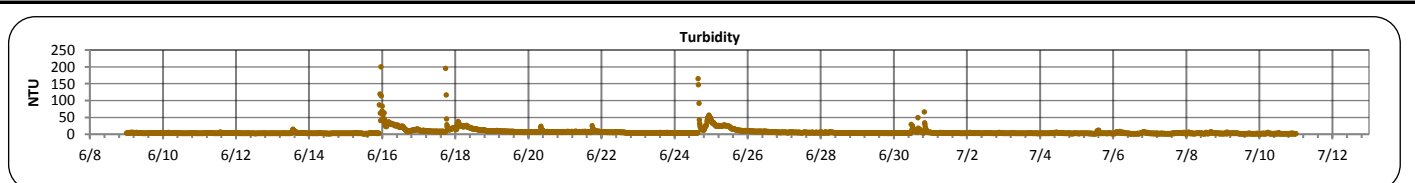
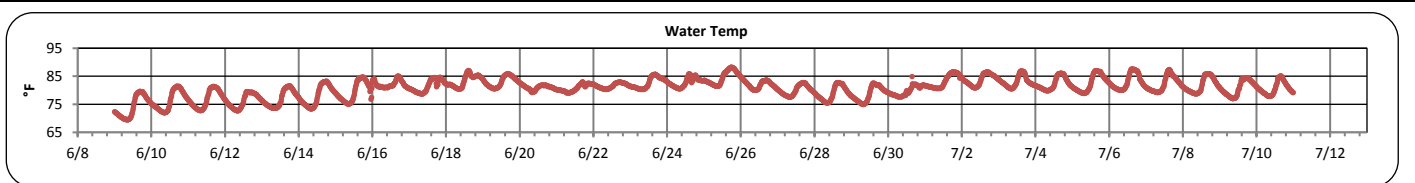
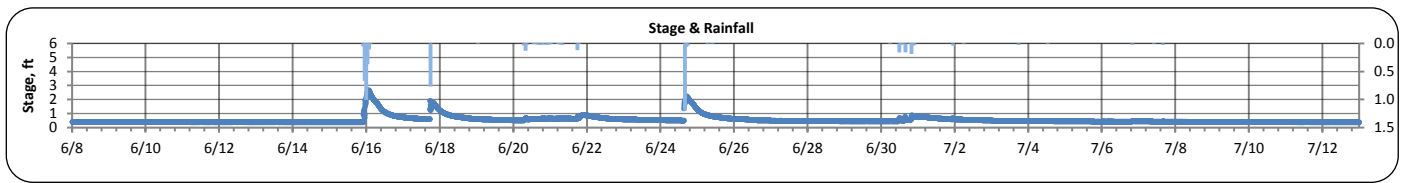
- At the KINA station, several periods of slightly elevated specific conductivity were recorded. These occurred on June 9th – 10th, June 12th, and June 29th.
- At the KINB station, two periods of elevated turbidity occurred on June 13th and July 6th.

Flow Measurements

- There were not any flow measurements taken at any of the Gills Creek stations during this deployment period.

Kinley Creek A (June 8, 2017 -- July 12, 2017)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.4	2.7	0.5	0.6	0.3
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	70	88	81	81	3
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	201	4	7	10
COORDINATES:	34.069897, -81.164592	pH:	6.7	7.5	6.9	6.9	0.1
TMD/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.016	0.443	0.089	0.094	0.030
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.2	8.6	6.1	6.0	1.0
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	1.8 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 (June 8, 2017 -- July 12, 2017)

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.

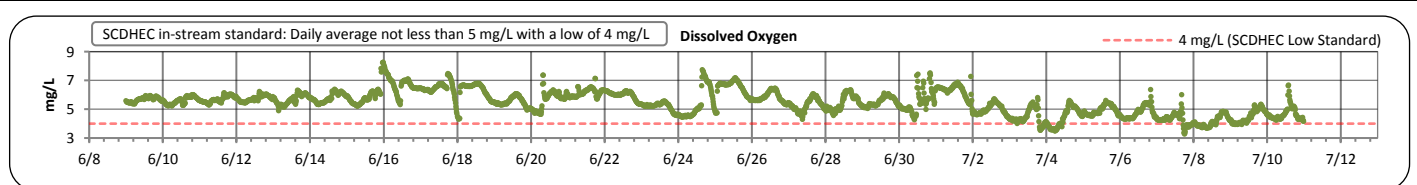
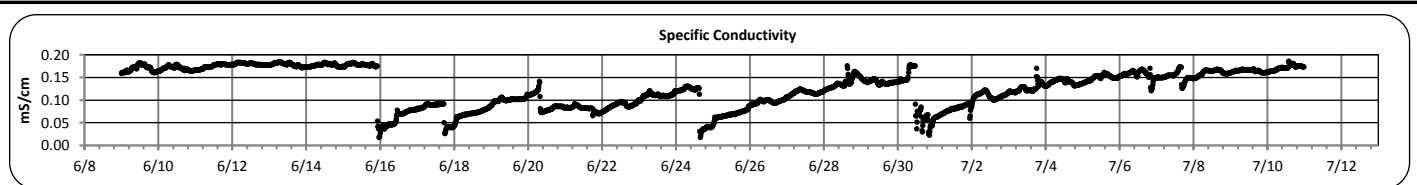
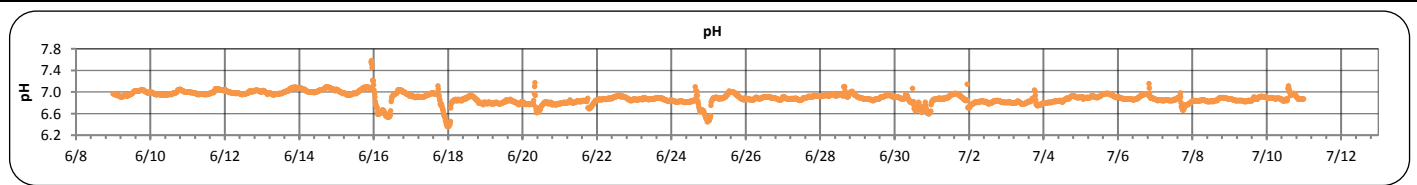
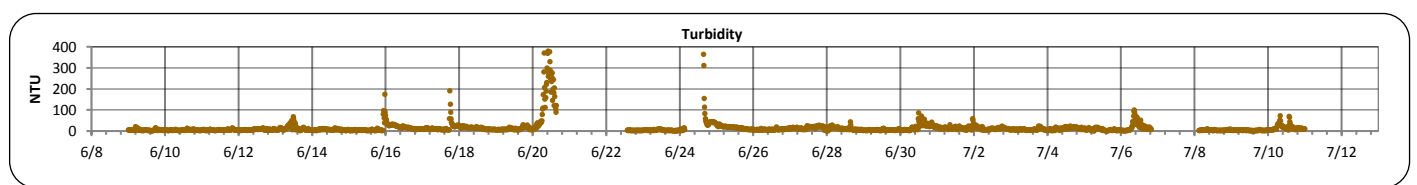
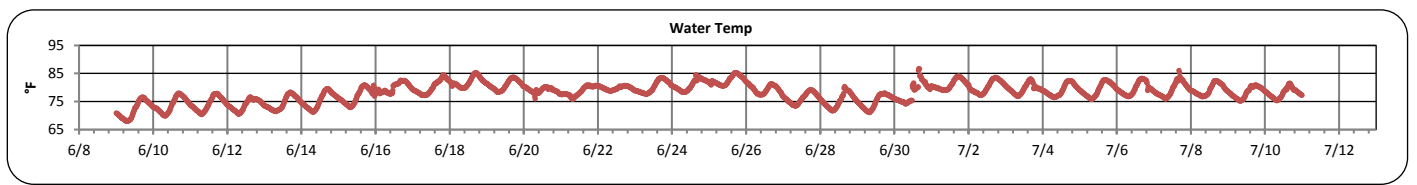
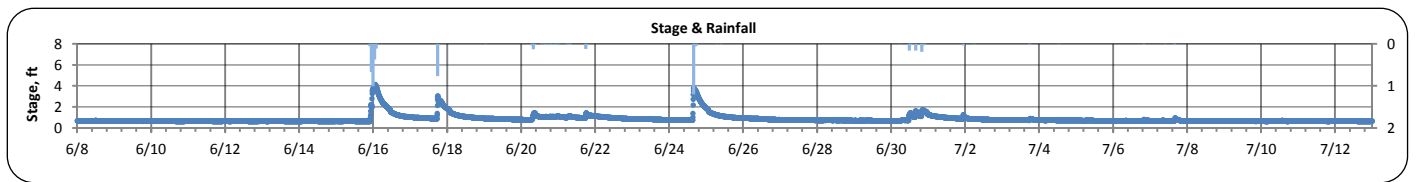
Grab Sample Data:

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 (June 8, 2017 -- July 12, 2017)

PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.6	4.1	0.7	0.9	0.4
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	68	87	79	78	3
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	380	9	15	30
COORDINATES:	34.06635, -81.159986	pH:	6.4	7.6	6.9	6.9	0.1
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.018	0.186	0.133	0.127	0.042
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	3.3	8.3	5.5	5.5	0.8
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	8						
MAX. DAILY RAINFALL:	1.8 inches						
TOTAL RAINFALL (FOR PERIOD):	5.7 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

Kinley Creek B (June 8, 2017 -- July 12, 2017)

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	
	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: