

Kinley Creek Monitoring Sites

Data Gaps

- The KINA station did not experience any fouling or submergence issues during this deployment.
- At the KINB station, the turbidity probe experienced fouling on several occasions, which was corrected by field maintenance visits. For the periods of fouling during ambient flow conditions, the dataset was modeled on depth to fill this gap.

SCDHEC Standards

- The Kinley Creek monitoring stations did not record any violations of the pH standard during this monitoring period.
- Both the KINA and KINB stations did record brief periods with DO concentrations below the daily average limit of 5 mg/L; however, neither station recorded any values below the instantaneous limit of 4 mg/L.

Storm Events

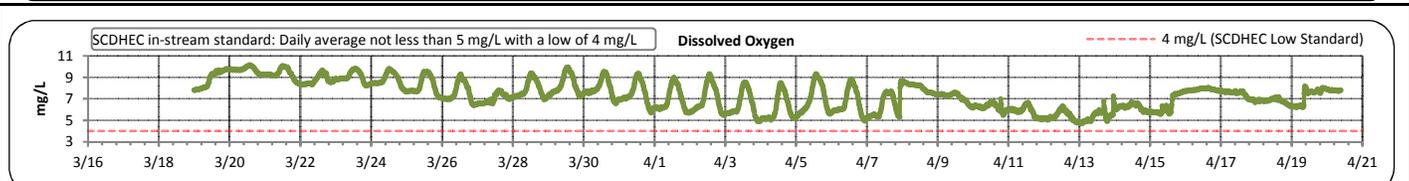
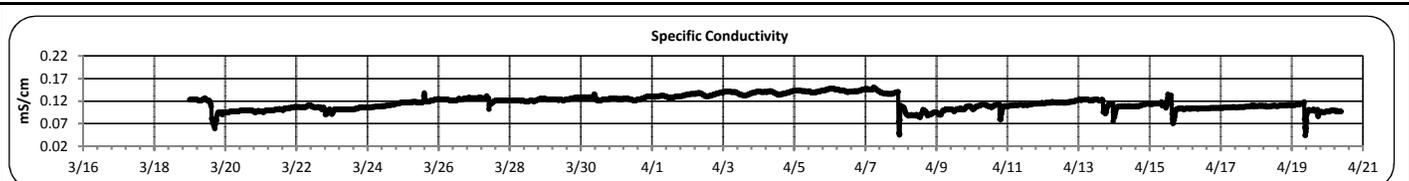
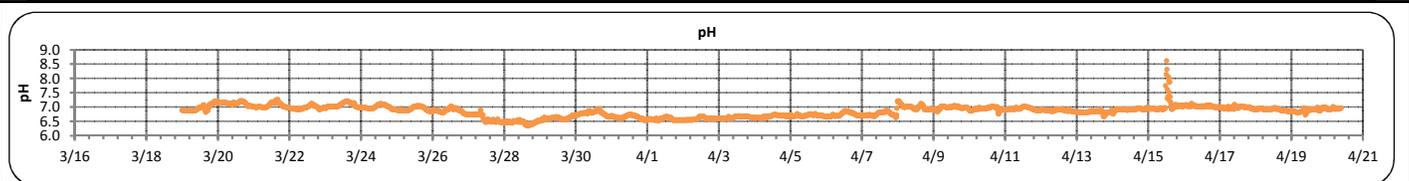
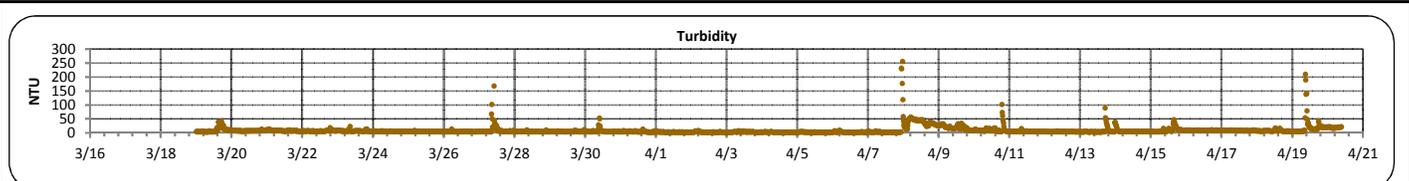
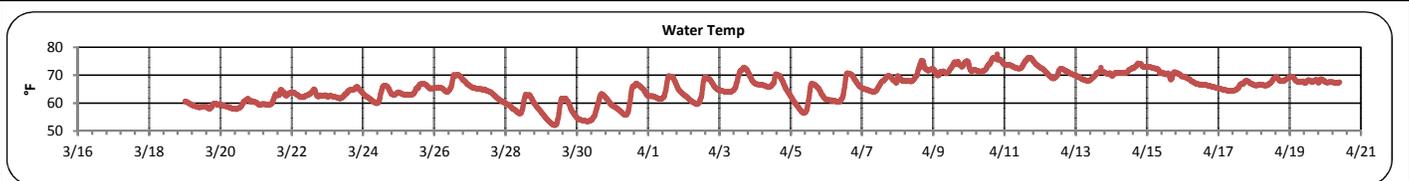
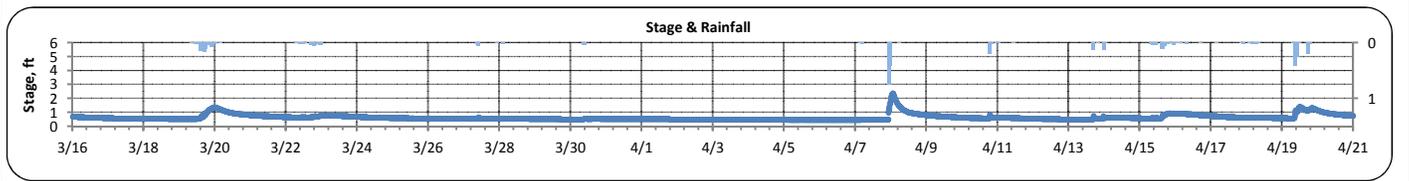
- The Kinley Creek rain gage recorded 12 small storm events during this monitoring period, with the largest event totaling 1.2 inches on April 7th.

Potential Illicit Discharges and Abnormal Events

- At the KINA station, 2 potential illicit discharge events were recorded:
 - On March 25th, an increase in specific conductivity was noted along with an increase in ammonium. This event was also observed downstream at the KINB station.
 - On April 15th, a slight increase in ammonium along with a significant increase in pH was observed during the beginning of a storm event.
- At KINB, 3 potential illicit discharges were recorded:
 - On March 25th, the specific conductivity increased for a short time. This perturbation was also recorded at the KINA station upstream.
 - On the morning of April 7th, during a very small rain event, the specific conductivity and ammonium were observed to have increased significantly, before decreasing during the larger rain event on the night of April 7th.
 - On April 9th, an increase in specific conductivity was noted during dry weather, accompanied by a slight increase in stage.

Kinley Creek A (March 16, 2015 -- April 20, 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	2.4	0.6	0.6	0.2
LOCATION:	Longhorn Steakhouse	TEMPERATURE (°F):	52	78	66	66	5
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TURBIDITY (NTU):	2	256	5	8	14
COORDINATES:	34.069897, -81.164592	pH:	6.4	8.6	6.9	6.9	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.044	0.15	0.116	0.117	0.016
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.7	10.2	7.5	7.4	1.3
SPATIAL LOCATION:	Most upstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	12						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	4.9 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 16, 2015 -- April 20, 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.

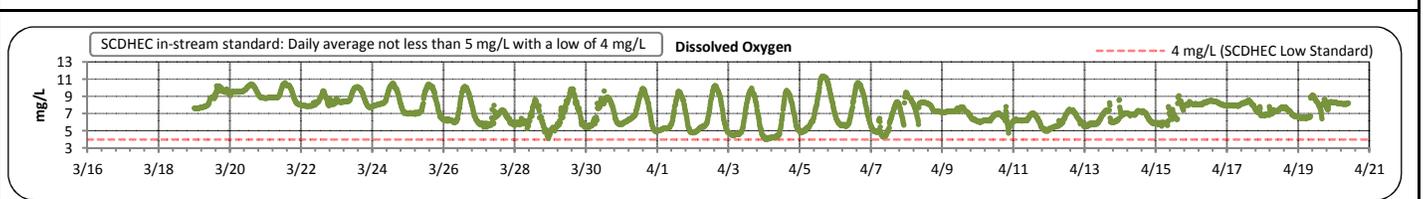
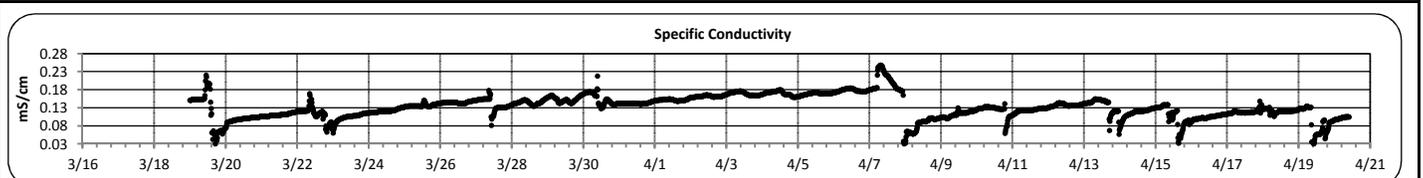
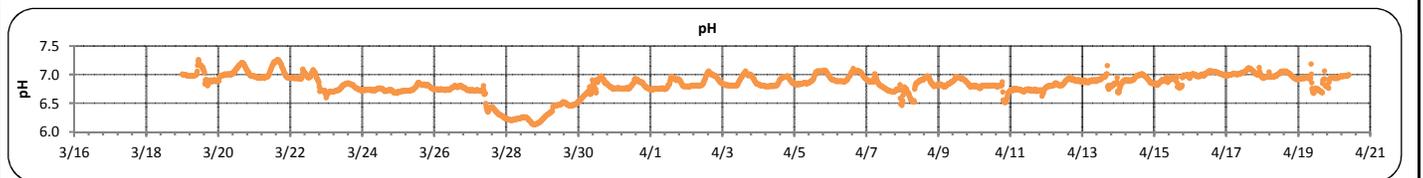
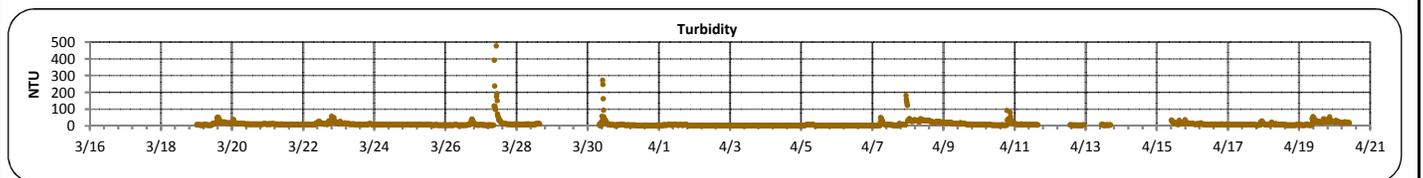
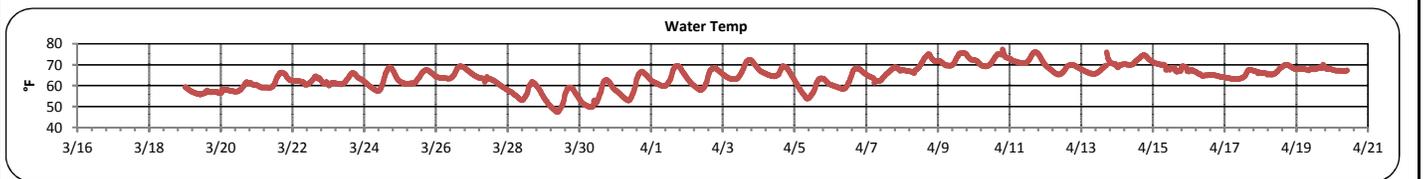
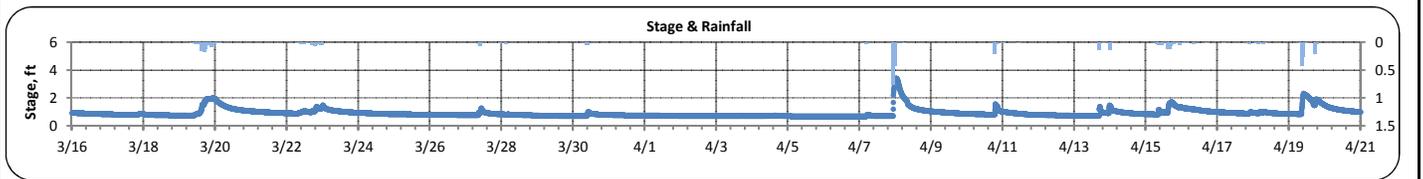
Grab Sample Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	4/15/2015		4/15/2015		4/15/2015		4/15/2015	
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:04	833.0	9:39	598	10:28	573	11:05	909
Total Suspended Solids (mg/L)	9:04	3.2	9:39	3	10:28	2.4	11:05	4
Total Phosphorus (mg/L)	9:04	0.079	9:39	0.092	10:28	0.077	11:05	0.083
Total Nitrogen (mg/L)	9:04		9:39		10:28		11:05	

Note: Samples were not collected within 72 hours of dry weather.

Kinley Creek B (March 16, 2015 -- April 20, 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	3.4	0.8	0.9	0.3
LOCATION:	Broken Hill Rd	TEMPERATURE (°F):	47	77	65	64	6
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TURBIDITY (NTU):	1	477	7	11	19
COORDINATES:	34.06635, -81.159986	pH:	6.1	7.3	6.9	6.8	0.2
TMDL/IMPAIRMENT:	Fecal Coliform	SPECIFIC CONDUCTIVITY (mS/cm):	0.023	0.248	0.132	0.133	0.032
NEIGHBORING LANDUSE:	Residential and commercial	DISSOLVED OXYGEN (mg/L):	4.1	11.4	7.3	7.4	1.5
SPATIAL LOCATION:	Most downstream site						
TOTAL NO. STORMS OVER 0.1 INCH:	12						
MAX. DAILY RAINFALL:	1.2 inches						
TOTAL RAINFALL (FOR PERIOD):	4.9 inches						



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**Continuous Water Quality
Monitoring Periodic Report**

Kinley Creek B (March 16, 2015 -- April 20, 2015)

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		Sample 4	
	4/15/2015		4/15/2015		4/15/2015		4/15/2015	
	Time	Result	Time	Result	Time	Result	Time	Result
<i>Escherichia coli</i> (MPN/100mL)	9:21	5,172	10:08	2382	10:49	2,187	11:39	9,804
Total Suspended Solids (mg/L)	9:21	56	10:08	25.6	10:49	15.6	11:39	11.8
Total Phosphorus (mg/L)	9:21	0.1	10:08	0.079	10:49	0.086	11:39	0.093
Total Nitrogen (mg/L)	9:21		10:08		10:49		11:39	

Note: Samples were not collected within 72 hours of dry weather.