Kinley Creek Monitoring Sites
Monitoring Data Summary for
January 4th, 2018 – February 14th, 2018

Data Gaps

- The KINA station did not experience any data gaps during this deployment period.
- The KINB station experienced some turbidity fouling from January 23rd to 24th, and that short period of data was removed from the dataset.

SCDHEC Standards

- Neither of the Kinley Creek monitoring stations recorded pH readings outside of the SCDHEC acceptable range of 6 to 8.5.
- KINA and KINB stations recorded average DO concentrations of 10.2 mg/L and 10.1 mg/L, respectively, well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 8.0 mg/L and 6.5 mg/L, respectively. These values are above the SCDHEC instantaneous minimum standard of 4.0 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded six storm events over this deployment period that resulted in 5.0 inches of precipitation.
- Both KINA and KINB 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 22.5 days in the Kinley Creek watershed occurring prior to the storm event on January 12th.

Potential Illicit Discharges and Abnormal Events

- Upstream control structure most likely released water on January 10th that resulted in a sharp increase in stage with associated changes in water quality at both Kinley Creek stations.

Flow Measurements

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

City of Columbia, SC Stormwater Management
Partnering for clean waterways

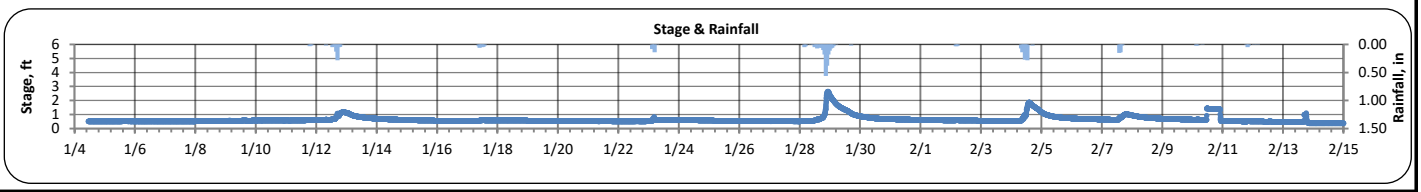
Continuous Water Quality Monitoring Periodic Report

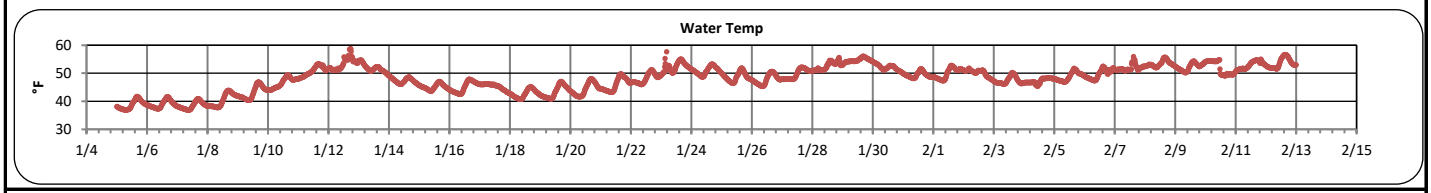
WOOLPERT

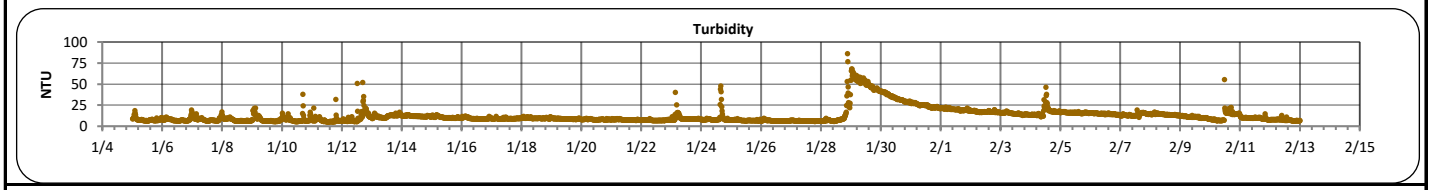
Kinley Creek A (January 4, 2018 -- February 14, 2018)

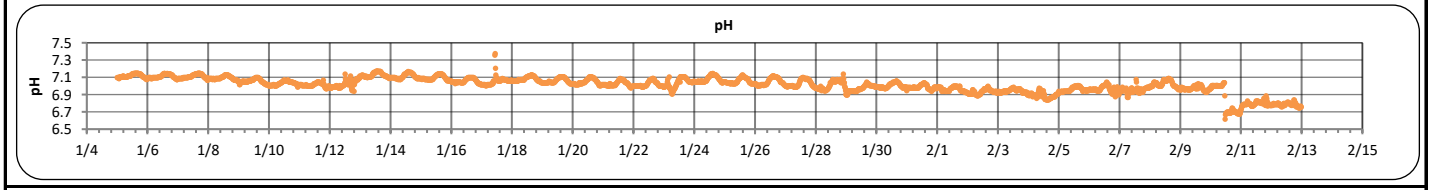
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Longhorn Steakhouse
ADDRESS:	171 Harbison Blvd Columbia, SC 29212
COORDINATES:	34.069897, -81.164592
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most upstream site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	2.0 inches
TOTAL RAINFALL (FOR PERIOD):	5.0 inches

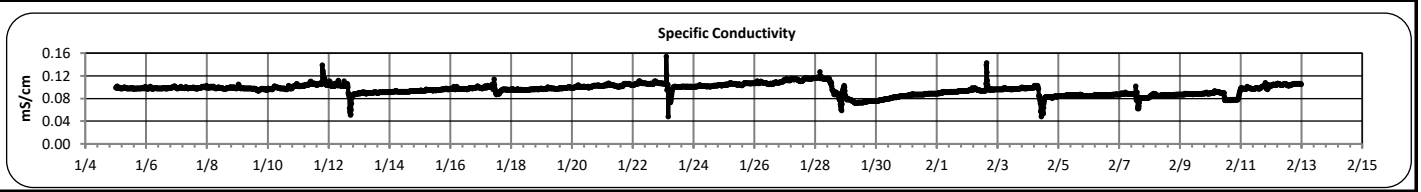
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.4	2.7	0.6	0.7	0.2
TEMPERATURE (°F):	37	59	49	48	5
TURBIDITY (NTU):	5	86	10	13	9
pH:	6.6	7.4	7.0	7.0	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.048	0.154	0.097	0.096	0.010
DISSOLVED OXYGEN (mg/L):	8.0	12.0	10.1	10.2	0.8

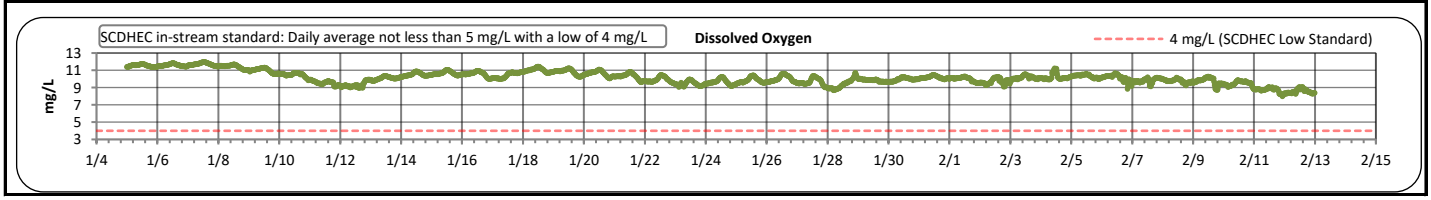












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 2/22/2018

Continuous Water Quality
Monitoring Periodic Report

Kinley Creek A (January 4, 2018 -- February 14, 2018)

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
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:

City of Columbia, SC Stormwater Management — Partnering for clean waterways

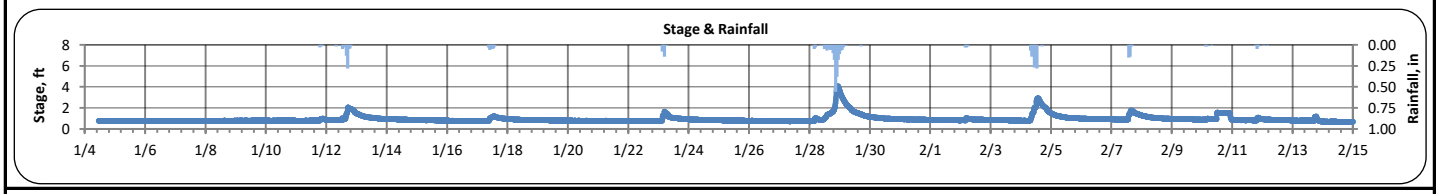
Continuous Water Quality Monitoring Periodic Report

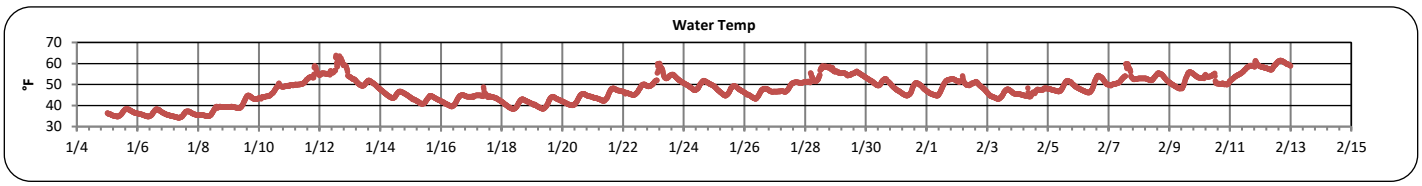
WOOLPERT

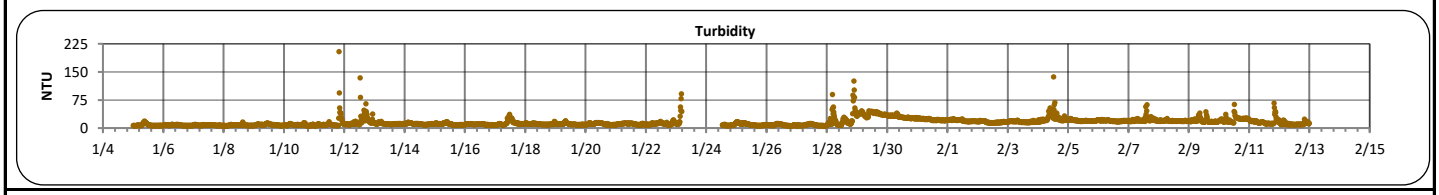
Kinley Creek B (January 4, 2018 -- February 14, 2018)

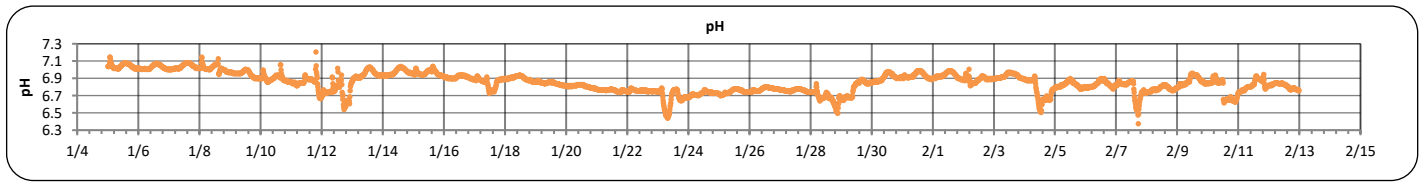
PARAMETER	DESCRIPTION
STREAM NAME:	Kinley Creek
LOCATION:	Broken Hill Rd
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212
COORDINATES:	34.06635, -81.159986
TMDL/IMPAIRMENT:	Fecal Coliform
NEIGHBORING LANDUSE:	Residential and commercial
SPATIAL LOCATION:	Most downstream site
TOTAL NO. STORMS OVER 0.1 INCH:	6
MAX. DAILY RAINFALL:	2.0 inches
TOTAL RAINFALL (FOR PERIOD):	5.0 inches

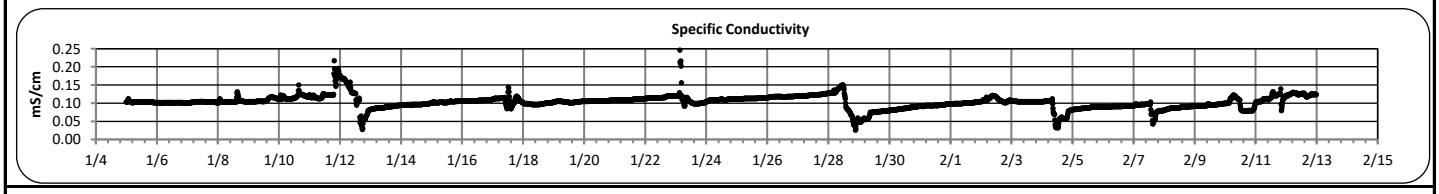
CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.7	4.1	0.8	1.0	0.3
TEMPERATURE (°F):	34	64	48	48	6
TURBIDITY (NTU):	6	205	12	16	10
pH:	6.4	7.2	6.9	6.9	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.026	0.246	0.104	0.103	0.018
DISSOLVED OXYGEN (mg/L):	6.5	12.8	10.1	10.1	1.2

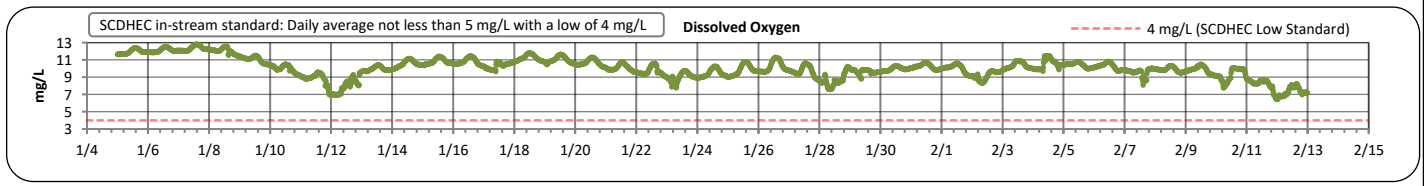












Note: Data gaps appear when the sonde is removed for calibration or when the flow depth is below the sensors

REPORT GENERATED ON 2/22/2018

Continuous Water Quality
Monitoring Periodic Report

Kinley Creek B (January 4, 2018 -- February 14, 2018)

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
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: