Kinley Creek Monitoring Sites
Monitoring Data Summary for
September 25th, 2020 – October 29th, 2020

Data Gaps
- At the KINA station, the turbidity, DO and specific conductivity data was not recorded during this monitoring period because the sensors were out for repairs.
- At the KINB station, the turbidity and DO data was not recorded during this monitoring period because the sensors were out for repairs.

SCDHEC Standards
- The KINA monitoring station did not record any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINB station recorded a pH value of 5.8 which is below the acceptable SCDHEC range of 6 to 8.5.

Storm Events
- The rain gauge along Kinley Creek recorded 7 storm events during this deployment period that resulted in a total of 4.2 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.
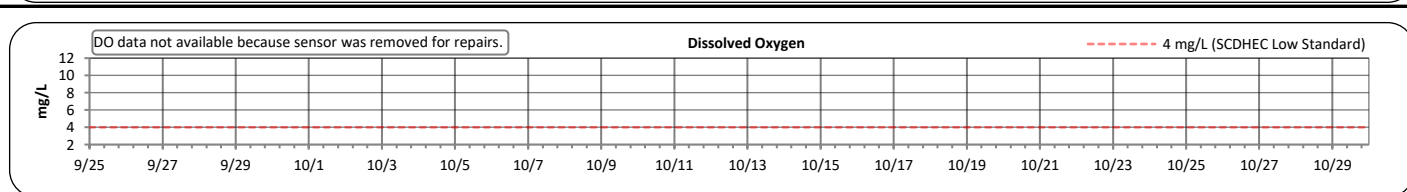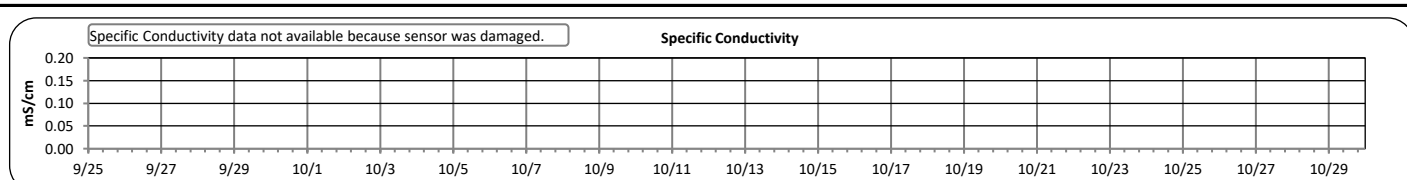
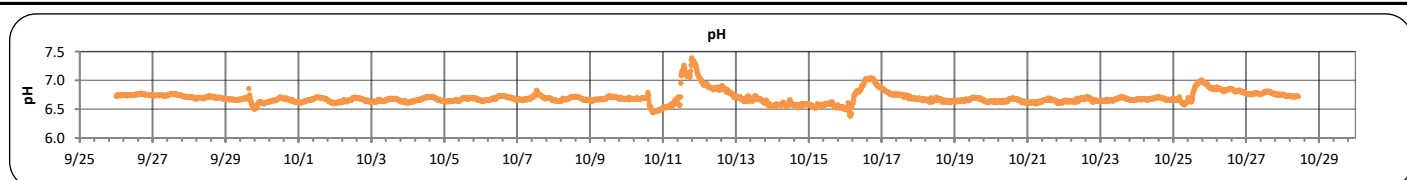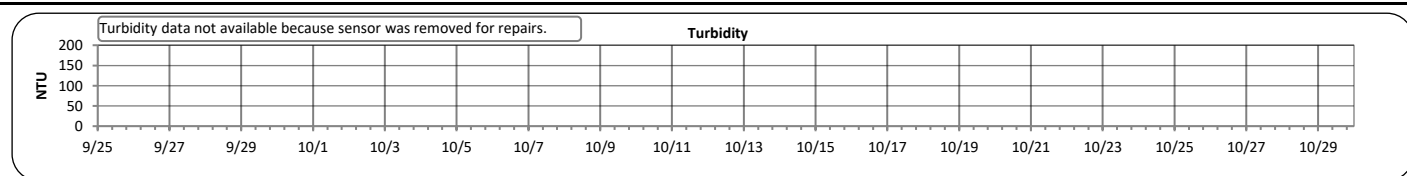*Potential Illicit Discharges and Abnormal Events*
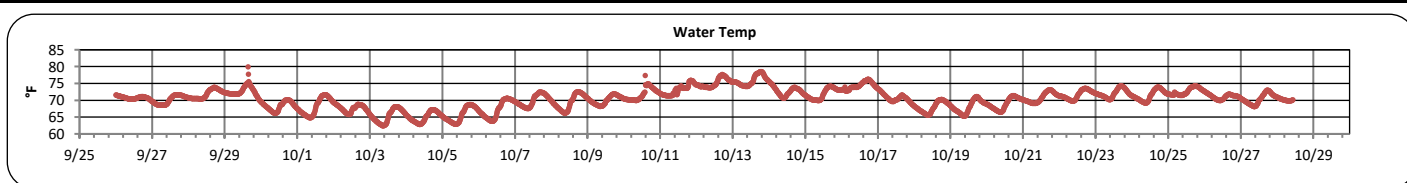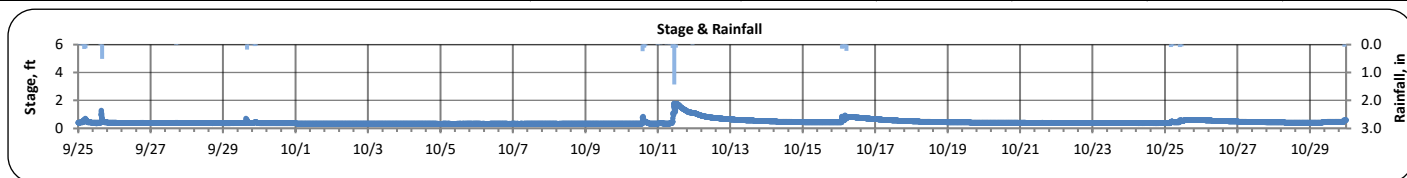- At the KINB station, the specific conductivity increased several times during this deployment period. These specific conductivity spikes occurred on the following dates: October 8th, October 14th-15th, and October 25th. These spikes in specific conductivity may have been the result of illicit discharges.

Flow Measurements
- No flow measurements were taken in the Kinley Creek watershed during this monitoring period.

City of Columbia, SC
Stormwater Management
Partnering for clean waterways

Continuous Water Quality
Monitoring Periodic Report

WOOLPERT

Kinley Creek A (September 25, 2020 - October 29, 2020)

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:	7
MAX. DAILY RAINFALL:	1.7 inches
TOTAL RAINFALL (FOR PERIOD):	4.2 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.3	1.8	0.4	0.5	0.2
TEMPERATURE (°F):	62	80	71	70	3
TURBIDITY (NTU):	-	-	-	-	-
pH:	6.4	7.4	6.7	6.7	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	-	-	-	-	-
DISSOLVED OXYGEN (mg/L):	-	-	-	-	-

Stage & Rainfall

Water Temp

Turbidity — Turbidity data not available because sensor was removed for repairs.

pH

Specific Conductivity — Specific Conductivity data not available because sensor was damaged.

Dissolved Oxygen — DO data not available because sensor was removed for repairs. — 4 mg/L (SCDHEC Low Standard)

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

Explanation of Statistics:

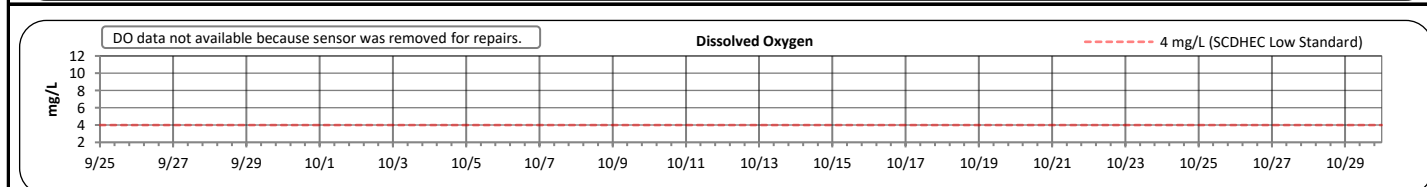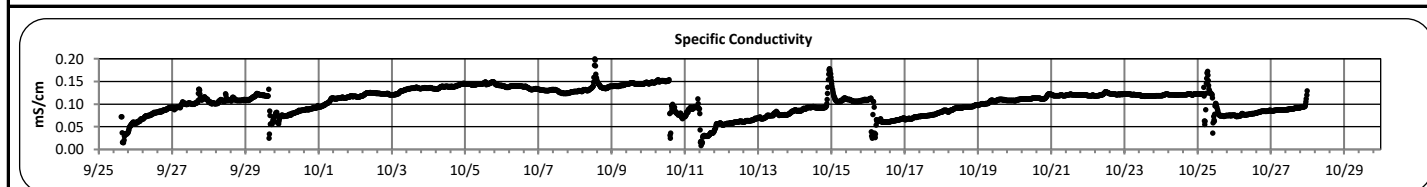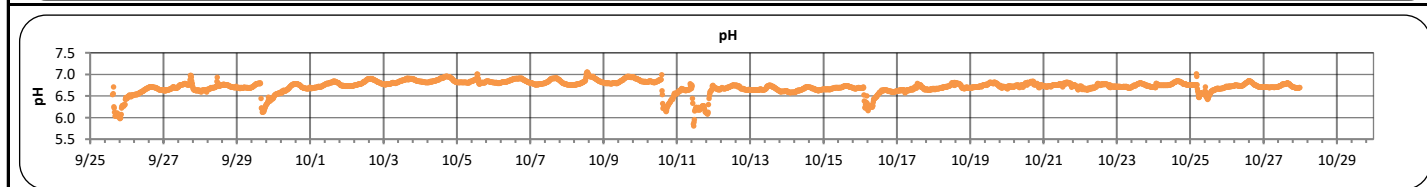|	
MINIMUM OBSERVED	The minimum of the values recorded by the datasonde in 15 minute intervals.
MAXIMUM OBSERVED	The maximum of the values recorded by the datasonde in 15 minute intervals.
MEDIAN OBSERVED	The median of all the values recorded by the datasonde in 15 minute intervals.
MEAN OBSERVED	The 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 9/28/2020		Sample 2 10/7/2020		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:45	1,008	13:55	1,476				
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: All samples were taken during dry weather conditions.

City of Columbia, SC
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Continuous Water Quality
Monitoring Periodic Report

WOOLPERT

Kinley Creek B (September 25, 2020 - October 29, 2020)

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:	7
MAX. DAILY RAINFALL:	1.7 inches
TOTAL RAINFALL (FOR PERIOD):	4.2 inches

CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STAGE (FT):	0.3	4.2	0.4	0.5	0.3
TEMPERATURE (°F):	61	80	69	69	4
TURBIDITY (NTU):	-	-	-	-	-
pH:	5.8	7.1	6.7	6.7	0.1
SPECIFIC CONDUCTIVITY (mS/cm):	0.009	0.200	0.110	0.105	0.028
DISSOLVED OXYGEN (mg/L):	-	-	-	-	-

Stage & Rainfall

Water Temp

Turbidity

Turbidity data not available because sensor was removed for repairs.

pH

Specific Conductivity

Dissolved Oxygen

DO data not available because sensor was removed for repairs.

- - - - - 4 mg/L (SCDHEC Low Standard)

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

Kinley Creek B (September 25, 2020 - October 29, 2020)

Explanation of Statistics:

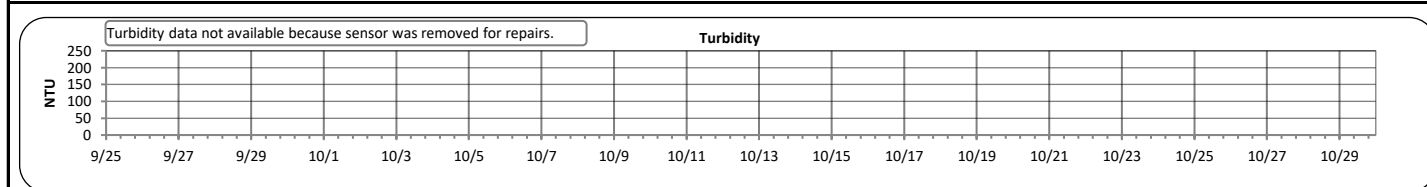|	
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STANDARD DEVIATION	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

Sampled Data:

Analyte (units)	Sample 1 9/28/2020		Sample 2 10/7/2020		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	14:35	104	13:35	518				
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: All samples were taken during dry weather conditions.