Kinley Creek Monitoring Sites Monitoring Data Summary for November 1st, 2018 – December 5th, 2018

Data Gaps

• Both Kinley Creek stations experienced noisy turbidity data shortly after the peak of the storm event that occurred on November 15th. Turbidity data for KINA was removed from November 15th-17th and turbidity data for KINB was removed from November 15th-20th.

SCDHEC Standards

- Both Kinley Creek monitoring stations recorded pH readings that were within the SCDHEC acceptable range of 6 to 8.5.
- The KINA station recorded an average DO concentration of 9.5 mg/L and the KINB station recorded an average DO concentration of 9.2 mg/L which are both well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 7.0 mg/L and 5.2 mg/L, respectively, which are both above the SCDHEC instantaneous minimum standard of 4.0 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 9 storm events during this deployment period that resulted in 7.5 inches of precipitation.
- Both KINA and KINB stations recorded typical response patterns to the recorded storm events during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 8.5 days in the Kinley Creek watershed which occurred prior to the November 23rd storm event.

Potential Illicit Discharges and Abnormal Events

A small illicit discharge may have occurred at the SMIA station for just a few hours overnight on November 20th, causing the specific conductivity, pH, and turbidity to increase slightly.

Flow Measurements

• No flow measurements were taken in the Kinley Creek watershed during this deployment period.



Continuous Water Quality Monitoring Periodic Report



Kinley Creek A (November 1, 2018 -- December 5, 2018)

PARAMETERS: OBSERVED OBSERVED OBSERVED DEVIATION			CONTINUOUS	SUMMARY STATISTICS					
LOCATION: Longhorn Steakhouse 171 Harbison Bids Co2012 CoOmbins SC 2021 COOMBINS SC 2021 COOMBINS SC 2021 TMDLIMHARMENT: Fenal Colliform NeiGHORRING Residential and commercial PM: 8 59 21 22 8 TMDLIMHARMENT: Fenal Colliform NeiGHORRING Residential and commercial PM: 8 59 21 22 8 STATIAL LOCATION: Most updream site SPATIAL LOCATION: Most updream site OYFATIAL LOCATION: Most updream site OYFATIAL LOCATION: DISTANCE ON THE PM: 6.8 7.6 7.0 7.0 0.1 TOTAL NO. STORMS OVER 0.1 INCH: 9 CONDUCTIVITY O.031 0.101 0.068 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 7.0 11.1 9.6 9.5 0.8 0.070 0.013 (mScient): DISSOLVED OXYGEN (mg/L): 11/23	PARAMETER	DESCRIPTION						STANDARD DEVIATION	
ADDRESS: 171 Isaniscan Brid Columbia. Sc 2221 22 8 TOCHDINATES: 3.4 0.69897. 8-1.164592 TINDLIMIPAIRMENT: Focal Coliform NEIGHBORNO Residential and commercial pH: 6.8 7.6 7.0 7.0 0.1 SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS 9 CONDITION MOST Upstream site TOTAL NO. STORMS 9 CONDITION MOST Upstream site TOTAL RAMPALL: 1.6 inches DISSOLVED 0.1011. 0.068 0.070 0.013 MAX. DAILY RAMPALL: 7.5 inches DISSOLVED 0.1021. 7.0 11.1 9.6 9.6 9.6 0.8 STORY G. INCH: (mScm): 1.1/1 11/1 11/1 11/1 11/1 11/1 11/1 11	STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	2.9	0.7	0.8	0.3	
ADDRESS:	LOCATION:	Longhorn Steakhouse	TEMPERATURE						
TNDL/IMPAIRMENT: Fecal Coliform NEIGHBORING Residential and commercial SPATIAL LOCATION: Most upstream site TOTAL ROUSTORMS 9 CONDUCTIVITY (INSUM): 0.031 0.101 0.068 0.070 0.013 MAX. DAILY RAINFALL: 1.6 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 7.5 inches CONDUCTIVITY (INSUM): 7.0 11.1 9.6 9.5 0.8 TOTAL RAINFALL: 1.6 inches Insum 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	ADDRESS:			46	68	55	56	6	
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CONDUCTIVITY O.031 O.101 O.068 O.070 O.013	SPATIAL LOCATION:	Most upstream site							
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Water Temp Value Temp Valu	4		Stage & Rair	nfall				0.0	
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Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (November 1, 2018 -- December 5, 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.
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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	
	11/20/2018							
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	9:15	40						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note:



Continuous Water Quality Monitoring Periodic Report



Kinley Creek B (November 1, 2018 -- December 5, 2018)

		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	-0.2	3.9	0.8	1.0	0.5
LOCATION:	Broken Hill Rd			70			
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	43	72	55	56	6
COORDINATES:	34.06635, -81.159986	TURRIDITY (AITU).	3	106	12	13	6
TMDL/IMPAIRMENT:	Fecal Coliform	TURBIDITY (NTU):	3	106	12	13	6
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.8	7.7	7.1	7.1	0.1
SPATIAL LOCATION:	Most downstream site	pri.	0.0	7.7	7.1	7.1	0.1
TOTAL NO. STORMS OVER 0.1 INCH:	9	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.223	0.079	0.080	0.021
MAX. DAILY RAINFALL:	1.6 inches	DISSOLVED OXYGEN	5.2	11.7	9.4	9.2	1.1
TOTAL RAINFALL (FOR PERIOD):	7.5 inches	(mg/L):	5.2	11.7	9.4	9.2	1.1
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Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (November 1, 2018 -- December 5, 2018)

Explanation of Statistics:

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Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	11/20/2018							
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	9:32	172						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: