Kinley Creek Monitoring Sites

Monitoring Data Summary for March 26th, 2020 – April 29th, 2020

Data Gaps

- KINA did not experience any interruptions in the data during this monitoring period.
- The KINB sonde became buried for a brief period from April 14th-17th. The turbidity, DO, and pH sensors were buried so the data for these parameters were deleted during this time period.

SCDHEC Standards

- Neither of the Kinley Creek monitoring stations recorded pH readings that were within the SCDHEC acceptable range of 6 to 8.5.
- The KINA and KINB station recorded average DO concentrations of 7.2 mg/L and 7.3 mg/L, respectively, which are both well above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 5.4 mg/L and 5.7 mg/L at the KINB station, which are both above the SCDHEC instantaneous minimum standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 6 storm events during this deployment period that resulted in a total of 2.8 inches of precipitation.
- Both the KINA and KINB stations recorded typical storm response patterns during this monitoring period.
- The maximum antecedent dry time since the last significant precipitation event (at least 0.1 inches) was approximately 18.1 days in the Kinley Creek watershed, occurring prior to the April 12th storm event.

Potential Illicit Discharges and Abnormal Events

 No potential illicit discharges or abnormal events occurred in the Kinley Creek watershed during this monitoring period.

Flow Measurements

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



Continuous Water Quality Monitoring Periodic Report



Kinley Creek A (March 26, 2020 - April 29, 2020)

			CONTINUOUS		SUMMARY STATISTICS						
PARAMETER	DESCRIPTION		WATER QU PARAMET		MINIMUM OBSERVED		MAXIMUM MEDIAN OBSERVED OBSERVED		MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Kinley Creek		STAGE (FT	Γ):	0.5		2.4	0.6	0.7	0.2	
LOCATION:	Longhorn Steakhouse	,	TEMPERA'	TURF							
ADDRESS:	171 Harbison Blvd Columbia, SC 29212		(°F):		59		76	67	68	3	
COORDINATES:	34.069897, -81.164592	2	TURBIDITY	(NTU)·	2		215	4	7	9	
TMDL/IMPAIRMENT:	Fecal Coliform		1011212111 (1110)				213		,		
NEIGHBORING LANDUSE:	Residential and commerc	cial	pH:		6.8		7.2	6.9	6.9	0.1	
SPATIAL LOCATION:	Most upstream site		-								
TOTAL NO. STORMS OVER 0.1 INCH:	6		SPECIFIC CONDUCT (mS/cm):	IVITY	0.038		0.124	0.098	0.098	0.012	
MAX. DAILY RAINFALL:	0.9 inches		DISSOLVED OXYGEN (mg/L):								
TOTAL RAINFALL (FOR PERIOD):	2.8 inches				5.4		9.3	7.2	7.2	0.7	
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0.16				Specific Co	nductivity			r			
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0.16 0.12 0.08 0.04 0.00 3/26 3/28 3/30	4/1 4/3 4/5			4/11	4/13 4/15	4/17	4/19				
8CDHEC in-stream stan	4/1 4/3 4/5			4/11	4/13 4/15	4/17	4/19				

Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (March 26, 2020 - April 29, 2020)

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:

Analyto	Sample 1		Sample 2		Sample 3		Sample 4		Sample 5	
Analyte (units)	4/6/2020		4/13/2020							
	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	12:00	432	9:40	1,980						
Total Suspended Solids (mg/L)			9:40	15						
Total Phosphorus (mg/L)			9:40	0.1						
Total Nitrogen (mg/L)			9:40	1.14						

Note: Sample 1 was taken during dry weather conditions. Sample 2 was taken during wet weather conditions.



Continuous Water Quality Monitoring Periodic Report



Kinley Creek B (March 26, 2020 - April 29, 2020)

		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	3.3	0.7	0.8	0.3			
LOCATION:	Broken Hill Rd									
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	55	76	66	66	4			
COORDINATES:	34.06635, -81.159986	TURBIDITY (NTU):	3	210	6	10	14			
TMDL/IMPAIRMENT:	Fecal Coliform	, ,								
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.3	7.2	6.9	6.8	0.1			
SPATIAL LOCATION:	Most downstream site									
TOTAL NO. STORMS OVER 0.1 INCH:	6	SPECIFIC CONDUCTIVITY (mS/cm):	0.019	0.168	0.114	0.112	0.019			
MAX. DAILY RAINFALL:	0.9 inches	DISSOLVED OXYGEN								
TOTAL RAINFALL (FOR PERIOD):	2.8 inches	(mg/L):	5.7	9.1	7.4	7.3	0.6			
		Stage & Rainf	all	•	•					
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250 3/26 3/28 3/30 PE 150 150 3/26 3/28 3/30 7.2 6.8 6.4 6.0 3/26 3/28 3/30	0 4/1 4/3 4/5	Turbidity 4/7 4/9 4/11 4/1 pH	3 4/15 4/	4/17 4/19	4/21 4/23	4/25 4/27	4/29			
250 3/26 3/28 3/30 250 200 3/26 3/28 3/30 7.2 150 0 3/26 3/28 3/30 7.2 6.8 6.4 6.4 6.0 3/26 3/28 3/30	0 4/1 4/3 4/5	Turbidity 4/7 4/9 4/11 4/1 pH	3 4/15 4/	4/17 4/19	4/21 4/23	4/25 4/27	4/29			
250 3/26 3/28 3/30 P 150 150 3/26 3/28 3/30 7.2 6.8 6.4 6.0 3/26 3/28 3/30	0 4/1 4/3 4/5	Turbidity 4/7 4/9 4/11 4/1 pH Specific Con	3 4/15 4/15 4 ductivity	4/17 4/19	4/21 4/23	4/25 4/27	4/29			
70 3/26 3/28 3/30 250 200 150 150 0 3/26 3/28 3/30 250 200 3/26 3/28 3/30 250 0 3/26 3/28 3/30 3/26 3/28 3/30	0 4/1 4/3 4/5	Turbidity 4/7 4/9 4/11 4/1 pH Specific Con 4/7 4/9 4/11 4/1	3 4/15 4/15 4/15 4/15 4/15 4/15 4/15	4/17 4/19	4/21 4/23	4/25 4/27	4/29			
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70 3/26 3/28 3/30 250 200 150 150 0 3/26 3/28 3/30 250 200 3/26 3/28 3/30 250 0 3/26 3/28 3/30 3/26 3/28 3/30	0 4/1 4/3 4/5	Turbidity 4/7 4/9 4/11 4/1 Specific Con 4/7 4/9 4/11 4/1	3 4/15 4/15 4/15 4/15 4/15 4/15 4/15	4/17 4/19	4/21 4/23	4/25 4/27 4/25 4/27	4/29			

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Sampled Data:

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Analyte (units)	4/6/2020		4/13/2020								
(units)	Time	Result	Time	Result	Time	Result	Time	Result	Time	Result	
Escherichia coli (MPN/100mL)	12:15	346	9:55	2024							
Total Suspended Solids (mg/L)			9:55	31.7							
Total Phosphorus (mg/L)			9:55	9.3							
Total Nitrogen (mg/L)			9:55	1.13							

Note: Sample 1 was taken during dry weather conditions. Sample 2 was taken during wet weather conditions.