Kinley Creek Monitoring Sites Monitoring Data Summary for

August 29th, 2019 – October 2nd, 2019

Data Gaps

The Kinley Creek stations did not have any interruptions in the data during this monitoring period.

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 3.7 mg/L, which is lower than the SCDHEC daily average standard of 5 mg/L. The KINB station recorded an average DO concentration of 5.7 mg/L, which is above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO values recorded at the KINA and KINB stations were 0.3 mg/L and 3.2 mg/L, respectively, which are both below the SCDHEC instantaneous minimum DO standard of 4 mg/L.

Storm Events

- The rain gauge along Kinley Creek recorded 4 storm events during this deployment period that resulted in a total of 3.5 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 12.8 days in the Kinley Creek watershed, occurring prior to the storm event on September 30th.

Potential Illicit Discharges and Abnormal Events

• The stage abruptly increased on September 2nd and remained elevated until September 3rd when the stage abruptly decreased, likely a result of activity from Lake Quail Valley. The WQ parameters were impacted during this time.

Flow Measurements

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





Kinley Creek A (August 29, 2019 -- October 2, 2019)

		CONTINUOUS		SU			
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	1.5	0.5	0.6	0.2
LOCATION:	Longhorn Steakhouse						
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	67	86	78	77	3
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	1	75	2	3	6
TMDL/IMPAIRMENT:	Fecal Coliform		· ·	70	_	Ů	Ü
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.2	7.2	6.6	6.6	0.1
SPATIAL LOCATION:	Most upstream site	P 1	0.2	7.2		0.0	0.1
TOTAL NO. STORMS OVER 0.1 INCH:	4	SPECIFIC CONDUCTIVITY (mS/cm):	0.022	0.186	0.153	0.144	0.025
MAX. DAILY RAINFALL:	1.3 inches	DISSOLVED					
TOTAL RAINFALL (FOR PERIOD):	3.5 inches	OXYGEN (mg/L):	0.3	7.7	3.6	3.7	1.1
		Stage & Rain	fall	•			
# 4							0.0
H 2 2							1.0
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90 80	m	Water Tell					
70					シスプ	22	√
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8/29 8/31 9/2	9/4 9/6 9/8			9/20 9/22	9/24 9/26	9/28 9/3	30 10/2
60 8/29 8/31 9/2	9/4 9/6 9/8	9/10 9/12 9/14 S		9/20 9/22	9/24 9/26	9/28 9/3	10/2
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8/29 8/31 9/2 100 75 75 25 0 8/29 8/31 9/2	2 9/4 9/6 9/8	9/10 9/12 9/14 pH 9/10 9/12 9/14	9/16 9/18 9/16 9/18	9/20 9/22	9/24 9/26	5 9/28 9/	30 10/2
8/29 8/31 9/2 100 75 50 8/29 8/31 9/2 100 75 7.5 6.5 8/29 8/31 9/2	2 9/4 9/6 9/8	9/10 9/12 9/14 pH 9/10 9/12 9/14	9/16 9/18 9/16 9/18	9/20 9/22	9/24 9/26	5 9/28 9/	30 10/2
8/29 8/31 9/2 100 75 50 25 0 8/29 8/31 9/2 100 75 6.5 6.0 8/29 8/31 9/2	9/4 9/6 9/8	9/10 9/12 9/14 pH 9/10 9/12 9/14	9/16 9/18 9/16 9/18	9/20 9/22	9/24 9/26	5 9/28 9/	30 10/2
8/29 8/31 9/2 100 75 50 8/29 8/31 9/2 100 75 50 8/29 8/31 9/2 100 8/29 8/31 9/2	9/4 9/6 9/8	9/10 9/12 9/14 pH 9/10 9/12 9/14 Specific Con 9/10 9/12 9/14	9/16 9/18 9/16 9/18 ductivity 9/16 9/18	9/20 9/22	9/24 9/26	5 9/28 9/ 6 9/28 9/ 26 9/28 5	30 10/2
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Kinley Creek A (August 29, 2019 -- October 2, 2019)

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	
Analyte (units)	9/4/2019							
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	12:28	418						
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: This sample was taken during dry weather conditions.





Kinley Creek B (August 29, 2019 -- October 2, 2019)

	CONTINUOUS			SUMMARY STATISTICS					
			ER QUALITY AMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Kinley Creek	STA	GE (FT):	0.5	3.0	0.5	0.6	0.3	
LOCATION:	Broken Hill Rd		TEMBERATURE (°E).		' 85				
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEM	TEMPERATURE (°F):		85	77	76	3	
COORDINATES:	34.06635, -81.159986	TURBIDITY (NTU):		1	61	2	4	6	
TMDL/IMPAIRMENT:	Fecal Coliform	TORBIDITY (NTO):		'	01	2	4	0	
NEIGHBORING LANDUSE:	Residential and commercial	pH:		6.1	7.2	6.9	6.8	0.2	
SPATIAL LOCATION:	Most downstream site								
TOTAL NO. STORMS OVER 0.1 INCH:	4		CIFIC DUCTIVITY	0.019	0.188	0.167	0.149	0.036	
MAX. DAILY RAINFALL:	1.3 inches								
TOTAL RAINFALL (FOR PERIOD):	3.5 inches	(mg/	OLVED OXYGEN L):	3.2	8.3	5.7	5.7	0.8	
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8/29 8/31 9/2	9/4 9/6 9/8	9/10 9	/12 9/14 9		9/20 9/22	9/24 9/26	9/28 9/3	0 10/2	
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80 8/29 8/31 9/2 80 60 40 20 8/29 8/31 9/ 8/31 9/ 8/31 9/2	2 9/4 9/6 9/8	9/10	9/12 9/14 pH	9/16 9/18	9/20 9/22	9/24 9/26	9/28 9/	30 10/2	
80 8/29 8/31 9/2 80 60 40 20 8/29 8/31 9/ 40 20 8/29 8/31 9/ 8/31 9/2 8/31 9/2	9/4 9/6 9/8	9/10	9/12 9/14 pH Specific Cons	9/16 9/18 9/16 9/18 ductivity	9/20 9/22	9/24 9/26	9/28 9/	30 10/2	
80 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2	9/4 9/6 9/8	9/10	9/12 9/14 pH	9/16 9/18	9/20 9/22	9/24 9/26	9/28 9/	30 10/2	
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80 80 60 80 60 40 20 8/29 8/31 9/2 8/29 8/31 9/2 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2	2 9/4 9/6 9/8 9/4 9/6 9/8	9/10	9/12 9/14 pH Specific Cont 9/12 9/14	9/16 9/18 9/16 9/18 ductivity 9/16 9/18	9/20 9/22	9/24 9/26	9/28 9/	30 10/2	
80 80 60 80 60 40 20 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/29 8/31 9/2 8/3 8/3 8/3 8/3 8/3 8/3 8/3 8/3	2 9/4 9/6 9/8 9/4 9/6 9/8	9/10	9/12 9/14 pH Specific Cont 9/12 9/14	9/16 9/18 9/16 9/18 ductivity 9/16 9/18	9/20 9/22	9/24 9/26	9/28 9/	30 10/2	

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Analyte (units)	9/4/2019							
	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	12:09	192						
Total Suspended Solids (mg/L)								
Johas (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Note: This sample was taken during dry weather conditions.