Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (September 15, 2022 - October 18, 2022)

		CONTINUOUS		SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARE DEVIATION	
STREAM NAME:	Kinley Creek	STAGE (FT):	0.4	1.7	0.4	0.5	0.2	
LOCATION:	Longhorn Steakhouse							
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	61	80	69	70	4	
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	-	_	_	-	_	
TMDL/IMPAIRMENT:	Fecal Coliform	TONESIETT (ICTO):						
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.0	7.9	6.5	6.6	0.2	
SPATIAL LOCATION:	Most upstream site	F	0.0		0.0	0.0	0.2	
TOTAL NO. STORMS OVER 0.1 INCH:	2	SPECIFIC CONDUCTIVITY (mS/cm):	0.036	0.225	0.113	0.112	0.026	
MAX. DAILY RAINFALL:	2.3 inches	DISSOLVED OXYGEN						
TOTAL RAINFALL (FOR PERIOD):	3.3 inches	(mg/L):	-	-	-	-	-	
6		Stage & Rain	fall				0.0	
# 4							- 0.5	
9/15 9/17 9/19	9/21 9/23 9/25	9/27 9/29 10/1 1	0/3 10/5	10/7 10/9	10/11 10/13	10/15 10/1	1.0	
		Water Ten						
85								
65 9/15 9/17 9/19	9/21 9/23 9/25	9/27 9/29 10/1 1	10/3 10/5	10/7 10/9	10/11 10/13	10/15 10/2	17 10/19	
65 9/15 9/17 9/19				10/7 10/9	10/11 10/13	10/15 10/1	17 10/19	
65 9/15 9/17 9/19 9/15 9/17 9/19 100	9/21 9/23 9/25 able because the sensor was out for repair 19 9/21 9/23 9/25			10/7 10/9	10/11 10/13			
65 9/15 9/17 9/19 100 100 9/15 9/17 9/19 SCDHEC in-stream standar	able because the sensor was out for repair	9/27 9/29 10/1	y 					
9/15 9/17 9/19 Turbidity data not availa 200 100 9/15 9/17 9/ SCDHEC in-stream standar 8.5	able because the sensor was out for repair	9/27 9/29 10/1	y 					
F 65 9/15 9/17 9/19 F 20 Turbidity data not availa 300 100 100 9/15 9/17 9/	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not	9/27 9/29 10/1 more than 8.5 pH	y 			3 10/15 10/	17 10/19	
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F 65 9/15 9/17 9/19 F 20 100 100 9/15 9/17 9/19 8.5 5CDHEC in-stream standar 7.5 5.5 9/15 9/17 9/19	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not	9/27 9/29 10/1 more than 8.5 pH 9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/13	3 10/15 10/	17 10/19	
Fig. 1.25	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not	9/27 9/29 10/1 more than 8.5 pH 9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/13	3 10/15 10/	17 10/19	
F 65 9/15 9/17 9/19 Turbidity data not availa 300 100 9/15 9/17 9/19 8.5 5CDHEC in-stream standar 6.5 5.5 9/15 9/17 9/19	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not 9/21 9/23 9/25	9/27 9/29 10/1 more than 8.5 pH 9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/13	3 10/15 10/	17 10/19	
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F 65 9/15 9/17 9/19 F 65 9/15 9/17 9/19 F 65 9/15 9/17 9/19 F 60 100 9/15 9/17 9/19 F 6.5 0.25 0.10 0.05 0.00 9/15 9/17 9/19	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not 9/21 9/23 9/25	9/27 9/29 10/1 more than 8.5 pH 9/27 9/29 10/1 Specific Con 9/27 9/29 10/1	10/3 10/5 10/3 10/5 ductivity	10/7 10/9	10/11 10/13	3 10/15 10/	(17 10/19	
E 0.25 9/15 9/17 9/19 Turbidity data not available be 100 data not available 100	able because the sensor was out for repair 19 9/21 9/23 9/25 rd: All pH values not less than 6.0 and not 9/21 9/23 9/25	9/27 9/29 10/1 more than 8.5 pH 9/27 9/29 10/1 Specific Con 9/27 9/29 10/1	10/3 10/5 10/3 10/5 ductivity	10/7 10/9	10/11 10/13	3 10/15 10/ 3 10/15 10/	(17 10/19	

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

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Kinley Creek A (September 15, 2022 - October 18, 2022)

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	
	9/30/3022		9/30/3022		9/30/3022		9/30/3022	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:11	31,060	11:17	7,308	12:51	25,990	14:19	1,112
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

Notes:

Data Gaps

Turbidity and dissolved oxygen data was not collected during this monitoring period at KINA due to sensor repairs.

Potential Illicit Discharges and Abnormal Events:

Specific conductivity increased on 9/27, 9/30, 10/1-10/2, 10/11, and 10/12, which may have been the result of illicit discharges.

Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (September 15, 2022 - October 18, 2022)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Kinley Creek	STAGE (FT):	0.3	2.6	0.3	0.4	0.3	
LOCATION:	Broken Hill Rd							
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	60	81	67	68	4	
COORDINATES:	34.06635, -81.159986	TURBIDITY (NTU):	_	_	_	_	_	
TMDL/IMPAIRMENT:	Fecal Coliform	TORBIDITY (NTO).	-	-	-	-	-	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.4	7.2	6.8	6.8	0.1	
SPATIAL LOCATION:	Most downstream site							
TOTAL NO. STORMS OVER 0.1 INCH:	2	SPECIFIC CONDUCTIVITY (mS/cm):	0.016	0.175	0.142	0.131	0.033	
MAX. DAILY RAINFALL:	2.3 inches							
TOTAL RAINFALL (FOR PERIOD):	3.3 inches	DISSOLVED OXYGEN (mg/L):	-	-	-	-	-	
		Stage & Rain	fall		<u>. </u>		-	
8 6		T T					0.0	
2 tage, ft							0.5	
9/15 9/17 9/19	9/21 9/23 9/25 9,	/27 9/29 10/1 1	0/3 10/5	10/7 10/9	10/11 10/13	10/15 10/17	1.0	
3/13 3/17 3/13	3/21 3/23 3/23 3/	27 3/23 10/1 1	0/3 10/3	10/7 10/3	10/11 10/13	10/13 10/1	10/19	
95		Water Ter	np					
80								
65				^	~~~	~~	<u>~</u>	
50	9/21 9/23 9/25 9	/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/13	10/15 10/2	7 10/19	
600 Turbidity data not avai	lable because the sensor was out for repair	Turbidit	у					
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2 200								
9/15 9/17 9/	19 9/21 9/23 9/25	9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/1	.3 10/15 10	/17 10/19	
	ard: All pH values not less than 6.0 and not	more than 8.5 pH						
7.5 7.0								
± 6.5								
6.0 + · · · · + · · · · · · · · · · · · ·	9/21 9/23 9/25	9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/13	3 10/15 10	/17 10/19	
0.3		Specific Con	ductivity			ı		
₩ 0.2 ₩ 0.1								
					<u> </u>			
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DO data not available b	pecause the sensor was out for repairs.	Di 1	d Ovugo-					
10	and the second s	Dissolve	d Oxygen			4 mg/L (SCDHEC L	ow Standard)	
7/8m 4								
2			10/3 10/5					
9/15 9/17 9/1	9 9/21 9/23 9/25	9/27 9/29 10/1	10/3 10/5	10/7 10/9	10/11 10/2	13 10/15 1	0/17 10/19	

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Sampled Data:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	9/30/3022		9/30/3022		9/30/3022		9/30/3022	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	9:24	1,970	11:28	9,768	13:04	5,510	14:34	3,870
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

All samples were collected during wet weather conditions.

Notes:

Data Gaps

Turbidity and dissolved oxygen data was not collected during this monitoring period at KINB due to sensor repairs.

Potential Illicit Discharges and Abnormal Events:

There were no abnormal events that occurred during this monitoring period.