## Kinley Creek Monitoring Sites

Monitoring Data Summary for March 24<sup>th</sup>, 2021 – April 27<sup>th</sup>, 2021

#### Data Gaps

- At the KINA station, the turbidity sensor was briefly buried on March 28<sup>th</sup>-29<sup>th</sup>, March 31<sup>st</sup>, and April 5<sup>th</sup>, so those periods of turbidity data were removed.
- At the KINB station, DO data was not recorded during this monitoring period because the sensor was out for repairs. There were no other data gaps during this monitoring period.

#### **SCDHEC Standards**

- None of the Kinley Creek monitoring stations recorded any pH readings outside of the acceptable SCDHEC range of 6 to 8.5.
- The KINA station recorded an average DO concentration of 6.1 mg/L, which is above the SCDHEC daily average standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 3.5 mg/L, which is below the SCDHEC instantaneous minimum standard of 4 mg/L.

#### Storm Events

- The rain gauge along Kinley Creek recorded 5 storm events during this deployment period that resulted in a total of 1.8 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 KINA station, the specific conductivity was elevated on April 2<sup>nd</sup>-4<sup>th</sup> and April 16<sup>th</sup>, which may have been the result of illicit discharges.
- At the KINB station, the specific conductivity was elevated on April 2<sup>nd</sup>-7<sup>th</sup> and April 16<sup>th</sup>, which may have been the result of illicit discharges.

#### 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 24, 2021 - April 27, 2021)

		CONTINUOUS	SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION	
STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	1.0	0.5	0.6	0.1	
LOCATION:	Longhorn Steakhouse							
ADDRESS:	171 Harbison Blvd Columbia, SC 29212	TEMPERATURE (°F):	55	76	66	66	4	
COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	1	167	5	8	8	
TMDL/IMPAIRMENT:	Fecal Coliform	101151111 (1110).	'	107	ŭ	Ů	Ü	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	8.0	6.9	6.8	0.3	
SPATIAL LOCATION:	Most upstream site							
TOTAL NO. STORMS OVER 0.1 INCH:	5	SPECIFIC CONDUCTIVITY (mS/cm):	0.056	0.173	0.133	0.133	0.009	
MAX. DAILY RAINFALL:	0.5 inches	DISSOLVED						
TOTAL RAINFALL (FOR PERIOD):	1.8 inches	OXYGEN (mg/L):	3.5	8.7	6.0	6.1	0.8	
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SCDHEC in-stream stand	dard: Daily average not less than 5 mg/L w	ith a low of 4 mg/L Dissolve	d Oxygen			4 mg/L (SCDHEC L	ow Standard)	
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3/24 3/26 3/28	3 3/30 4/1 4/3	1/5 4/7 4/9 4/	11 4/13	4/15 4/17	4/19 4/21	4/23 4/25	4/27	

## Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (March 24, 2021 - April 27, 2021)

## **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:**

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)								
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)			-					

Notes: No samples were collected during this monitoring period.



# **Continuous Water Quality Monitoring Periodic Report**



#### Kinley Creek B (March 24, 2021 - April 27, 2021)

	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	1.7	0.4	0.5	0.2	
LOCATION:	Broken Hill Rd							
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	50	77	65	64	4	
COORDINATES:	34.06635, -81.159986	TURRIDITY (AITU).	2	404	0	10	40	
TMDL/IMPAIRMENT:	Fecal Coliform	TURBIDITY (NTU):	2	401	9	10	18	
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.1	7.1	6.8	6.7	0.3	
SPATIAL LOCATION:	Most downstream site							
TOTAL NO. STORMS OVER 0.1 INCH:	5	SPECIFIC CONDUCTIVITY (mS/cm):	0.031	0.196	0.152	0.145	0.024	
MAX. DAILY RAINFALL:	0.5 inches	DISSOLVED OXYGEN						
TOTAL RAINFALL (FOR PERIOD):	1.8 inches	(mg/L):	-	-	-	-	-	
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egg 2						N	- 0.3 - 0.6	
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12	because sensor was out for repairs.	Dissolved	Oxygen			4 mg/L (SCDHEC L	ow Standard)	
12	because sensor was out for repairs.	Dissolved	Oxygen			4 mg/L (SCDHEC L	ow Standard)	
12 10	because sensor was out for repairs.	Dissolved	Oxygen			4 mg/L (SCDHEC L	ow Standard)	

## Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (March 24, 2021 - April 27, 2021)

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## Sampled Data:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)								
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: No samples were collected during this monitoring period.