## Kinley Creek Monitoring Sites

## Monitoring Data Summary for February 18<sup>th</sup>, 2021 – March 23<sup>rd</sup>, 2021

#### Data Gaps

- At the KINA station, there were no data gaps during this monitoring period.
- At the KINB station, the DO data was not recorded during this monitoring period because the sensor was out for repairs.

#### SCDHEC Standards

- Neither 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 9.0 mg/L, which is above the SCDHEC daily average minimum standard of 5 mg/L.
- The instantaneous minimum DO value recorded at the KINA station was 6.5 mg/L, which is 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 2.9 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 increased on March 16<sup>th</sup>.
- At the KINB station, the specific conductivity increased on March 3<sup>rd</sup>, March 4<sup>th</sup>, and March 16<sup>th</sup>.

#### 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 (February 18, 2021 - March 23, 2021)

STREAM NAME:			CONTINUOUS	SUMMARY STATISTICS						
LOCATION:   Longhorn Steekhouse   T71 Harbiton Blod   Columbia, SC 29312   COORDINATES:   34.069897, -81.164502   TURBIDITY (NTU):   5	PARAMETER	DESCRIPTION		-	_			STANDARD DEVIATION		
ADDRESS: 0.71 Handborn Blud Columbia, 5C 29212 CORDINATES: 340 Sept. 34.16 Sept. 56 Sept. 56 Sept. 56 Sept. 35.16 Sept. 34.16	STREAM NAME:	Kinley Creek	STAGE (FT):	0.5	1.6	0.6	0.6	0.2		
ADDRESS:	LOCATION:	Longhorn Steakhouse								
TMDLIMPARRMENT: Fecal Coliform NEIGHBORING LANDUSE: Residential and commercial SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS OVER 6 0.1 INCH: 1.1 inches TOTAL RAINFALL: 1.1 inches TOTAL RAINFALL: (FOR PERIOD):  **Stage & fabrida**  **TOTAL RAINFALL:  **TOTAL RAINFALL:  **TOTAL RAINFALL:  **TOTAL RAINFALL:  **GOT PERIOD:  **Stage & fabrida**  **TOTAL RAINFALL:  **T	ADDRESS:		TEMPERATURE (°F):	46	67	56	56	5		
Pi	COORDINATES:	34.069897, -81.164592	TURBIDITY (NTU):	5	70	12	15	9		
SPECIFIC CONDUCTIVITY 0.057 0.135 0.109 0.104 0.013 (MAX. DAILY RAINFALL (FOR PERIOD): 0.150 0.100 0.104 0.013 (MAX. DAILY RAINFALL (FOR PERIOD): 0.150 0.150 0.100 0.104 0.013 (MAX. DAILY RAINFALL (FOR PERIOD): 0.150 0.150 0.150 0.100 0.104 0.013 (MAX. DAILY RAINFALL (FOR PERIOD): 0.150	TMDL/IMPAIRMENT:	Fecal Coliform	, ,							
SPECIFIC CONDUCTIVITY 0.057 0.135 0.109 0.104 0.013  MAX. DAILY RAINFALL: 1.1 inches DISSOLVED CONDUCTIVITY 0.057 0.135 0.109 0.104 0.013  MAX. DAILY RAINFALL: 2.9 inches DISSOLVED 0.57 0.135 0.109 0.104 0.013  Stage & Rainfall 0.03 0.06 0.06 0.06 0.06 0.06 0.06 0.06	NEIGHBORING LANDUSE:	Residential and commercial	nH:	6.7	7.3	6.9	7.0	0.1		
CONDUCTIVITY   0.057   0.135   0.199   0.104   0.013   0.0104   0.013   0.0104   0.013   0.104   0.013   0.104   0.013   0.0104   0.013   0.104   0.013   0.104   0.013   0.104   0.013   0.0104   0.0104	SPATIAL LOCATION:	Most upstream site	<b>,</b>	0		0.0		0		
TOTAL RAINFALL (POR PERIOD): 2.9 inches		6	CONDUCTIVITY	0.057	0.135	0.109	0.104	0.013		
Stage & Rainfall	MAX. DAILY RAINFALL:	1.1 inches	DISSOLVED							
Stage & Rainfall    0.0		2.9 inches	OXYGEN (mg/L):	6.5	11.2	9.0	9.0	1.0		
Water Temp    10			Stage & Rainfall	<del>-</del> I	<del>.</del>	-	-	0.0		
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Water Temp  ***Open Conductivity**  **Specific Conductivity**  **Spec										
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Water Temp  Turbidity  2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Specific Conductivity  Specific								0.6		
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  **Principle**  **Princip		2/24 2/26 2/28 3/2	3/4 3/6 3/8	3/10 3	/12 3/14	3/16 3/18	3/20 3/22			
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Turbidity  PH  Torbidity  Torbidity  PH  Torbidity  Torbidity  PH  Torbidity  PH  Torbidity  PH  Torbidity  Torbidity  Torbidity  PH  Torbidity  Torbidity  Torbidity  PH  Torbidity  Torbidity  Torbidity  Torbidity  Torbidity  PH  Torbidity  Tor			Water Temp							
\$10	65	A						_		
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Turbidity  PH  7.5  7.5  7.7  7.5  7.7  8.7  9H  Specific Conductivity  SCDHEC In-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  SCDHEC In-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  Dissolved Oxygen  4 mg/L (SCDHEC Low Standard)	50									
PH  7.5  7.7  7.8  7.1  7.9  6.2  6.3  6.5  6.1  8.2  6.1  6.2  6.2  6.3  6.3  6.3  6.3  6.3  6.3		2/24 2/26 2/28 3/2	3/4 3/6 3/8	3 3/10 3	3/12 3/14	3/16 3/18	3/20 3/2	2 3/24		
PH  7.5  7.7  7.8  7.1  7.9  6.2  6.3  6.5  6.1  8.2  6.1  6.2  6.2  6.3  6.3  6.3  6.3  6.3  6.3										
PH  The standard of the standard of Daily average not less than 5 mg/L with a low of 4 mg/L  Septific Conductivity  Specific Conductivity	75		Turbidity							
PH    Ph   Ph   Ph   Ph   Ph   Ph   Ph   P	<b>E</b> 50 25									
To the conductivity  Specific Conductivity  S		2/24 2/26 2/28 3/	2 3/4 3/6 3	/8 3/10	3/12 3/14		3/20 3/2	2 3/24		
7.3 7.3 7.3 6.9 6.7 6.5 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Specific Conductivity   Specific Conductivity  0.15 0.07 0.05 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  Specific Conductivity  0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1										
Specific Conductivity    Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Specific Conductivity   Score   Specific Conductivity   Score   Specific Conductivity   Score   Specific Conductivity   Speci			pH							
Specific Conductivity    Specific Conductivity   Speci	Ŧ 7.1 6.9	~~~~	~~~	~~~	V~~~	~~~~~				
Specific Conductivity  0.15 0.13 0.11 0.09 0.07 0.05 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24   SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  Dissolved Oxygen  4 mg/L (SCDHEC Low Standard)	6.5									
0.15 0.11 0.09 0.05 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  Dissolved Oxygen  4 mg/L (SCDHEC Low Standard)	2/18 2/20 2/22	2/24 2/26 2/28 3/2	3/4 3/6 3/5	8 3/10	3/12 3/14	3/16 3/18	3/20 3/2	22 3/24		
0.13 0.09 0.07 0.05 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24  SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  Dissolved Oxygen  4 mg/L (SCDHEC Low Standard) 10 10 10 10 10 10 10 10 10 10 10 10 10	·									
2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24    SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L    Dissolved Oxygen			~			-4,				
0.05 2/18 2/20 2/22 2/24 2/26 2/28 3/2 3/4 3/6 3/8 3/10 3/12 3/14 3/16 3/18 3/20 3/22 3/24   SCDHEC in-stream standard: Daily average not less than 5 mg/L with a low of 4 mg/L  Dissolved Oxygen  4 mg/L (SCDHEC Low Standard)  12 10 10 10 11 12 10 10 11 12 10 10 11 11 12 11 12 12 13 14 14 15 15 16 17 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	9 0.09 0.07									
12 10 10 10 10 10 10 10 10 10 10 10 10 10	0.05	2/24 2/26 2/28 3/3	2 3/4 3/6 3	3/8 3/10	3/12 3/14	3/16 3/18	3/20 3	/22 3/24		
12 10 10 10 10 10 10 10 10 10 10 10 10 10										
7/8 8 4 4 2	12	:: Daily average not less than 5 mg/L with a	iow of 4 mg/L Dissolved C	Oxygen			4 mg/L (SCDHEC Lo	w Standard)		
2	7/8m				~~~					
		2/24 2/26 2/28 3/	2 3/4 3/6 3	3/8 3/10	3/12 3/14	3/16 3/18	3/20	/22 3/24		

### Continuous Water Quality Monitoring Periodic Report

Kinley Creek A (February 18, 2021 - March 23, 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)	2/25/2021		3/10/2021		3/16/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:49	126	12:40	220	8:38	2,172		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Samples 1 and 2 were collected during dry weather conditions. Sample 3 was collected during wet weather conditions.



# Continuous Water Quality Monitoring Periodic Report



#### Kinley Creek B (February 18, 2021 - March 23, 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):	0.4	2.2	0.5	0.6	0.3		
LOCATION:	Broken Hill Rd								
ADDRESS:	609 Broken Hill Rd Columbia, SC 29212	TEMPERATURE (°F):	45	67	55	55	5		
COORDINATES:	34.06635, -81.159986	TURBIDITY (NTU):	3	97	7	10	7		
TMDL/IMPAIRMENT:	Fecal Coliform			-					
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.7	7.3	7.0	7.0	0.1		
SPATIAL LOCATION:	Most downstream site								
TOTAL NO. STORMS OVER 0.1 INCH:	6	SPECIFIC CONDUCTIVITY (mS/cm):	0.033	0.214	0.120	0.116	0.018		
MAX. DAILY RAINFALL:	1.1 inches	DISSOLVED OXYGEN							
TOTAL RAINFALL (FOR PERIOD):	2.9 inches	(mg/L):	-	-	-	-	-		
		Stage & Rainfall							
# 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2/24 2/26 2/28 3/2		3/10 3/2	12 3/14	3/16 3/18	3/20 3/22	0.0 0.3 0.6 0.9 3/24		
45	2/24 2/26 2/28 3/2		3/10 3/	/12 3/14	3/16 3/18	3/20 3/22	3/24		
100 75		Turbidity							
25 0 2/18 2/20 2/22	2/24 2/26 2/28 3	3/2 3/4 3/6 3,	/8 3/10	3/12 3/14	3/16 3/18	3/20 3/	22 3/24		
2/10 2/20 2/22	2/24 2/20 2/20 3		3/10	3/12 3/14	3/10 3/18	3/20 3/	3/24		
7.5 7.3 7.1 6.9 6.7		pH	~~~	^^^	1	_^_^	<b>^</b>		
6.5 2/18 2/20 2/22	2/24 2/26 2/28 3/2	2 3/4 3/6 3/8	3 3/10 3	3/12 3/14	3/16 3/18	3/20 3/2	22 3/24		
Specific Conductivity									
\$ 0.20 0.15 0.10 0.05					- ` <b>-</b>				
0.00 2/18 2/20 2/22	2/24 2/26 2/28 3	/2 3/4 3/6 3,	/8 3/10	3/12 3/14	3/16 3/18	3/20 3/	/22 3/24		
DO data not available hos	ause sensor was removed for repairs.	S	avgon			and (CODUES)	Standa: -11		
12	ause sensor was removed for repails.	Dissolved Ox	rygen		4 n	ng/L (SCDHEC Low S	otandard)		
7/8m 6									
4 2									
2/18 2/20 2/22	2/24 2/26 2/28 3	/2 3/4 3/6 3,	/8 3/10	3/12 3/14	3/16 3/18	3/20 3,	/22 3/24		

# Continuous Water Quality Monitoring Periodic Report

Kinley Creek B (February 18, 2021 - March 23, 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.

### Sampled Data:

	Sample 1		Sample 2		Sample 3		Sample 4	
Analyte (units)	2/25/2021		3/10/2021		3/16/2021			
	Time	Results	Time	Results	Time	Results	Time	Results
Escherichia coli (MPN/100mL)	10:59	242	12:55	362	8:53	15,402		
Total Suspended Solids (mg/L)								
Total Phosphorus (mg/L)								
Total Nitrogen (mg/L)								

Notes: Samples 1 and 2 were collected during dry weather conditions. Sample 3 was collected during wet weather conditions.