## Continuous Water Quality Monitoring Periodic Report

## Smith Branch A (May 3, 2023 - June 7, 2023)

		CONTINUOUS	SUMMARY STATISTICS				
PARAMETER	DESCRIPTION	WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Smith Branch STAGE (FT):		1.6	4.2	1.7	1.7	0.3
LOCATION:	Earlewood Park						
ADDRESS:	1111 Parkside Dr Columbia, SC 29201	TEMPERATURE (°F):	60	73	69	68	3
COORDINATES:	34.027289,-81.04265	TURBIDITY (NTU):	5	257	9	12	13
TMDL/IMPAIRMENT:	Fecal Coliform	, ,,			-		
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.5	7.4	7.0	7.0	0.1
SPATIAL LOCATION:	Most upstream site						<b></b>
TOTAL NO. STORMS OVER 0.1 INCH:	4	SPECIFIC CONDUCTIVITY (mS/cm):	0.024	0.172	0.153	0.143	0.028
MAX. DAILY RAINFALL:	1.5 inches	DISSOLVED OXYGEN					
TOTAL RAINFALL (FOR PERIOD):	0.4 inches	(mg/L):	6.6	9.4	7.7	7.7	0.6
		Stage & Rainf	all				
# 9		H.					0.0
Stage, 1							Rainfall, in
5/3 5/5 5/7	5/9 5/11 5/13 !	5/15 5/17 5/19 5/21	5/23 5/2	25 5/27 5	/29 5/31	6/2 6/4	6/6
		Water Tem	p				
75 65	~~~~	~~~	~~~		~~~	<b>~~~</b>	<b>~</b>
55 45							
5/3 5/5 5/7	5/9 5/11 5/13	5/15 5/17 5/19 5/21	5/23 5/	25 5/27 5	5/29 5/31	6/2 6/4	6/6
300		Turbidity					
200				1			
2 100							4
5/3 5/5 5/	7 5/9 5/11 5/13	5/15 5/17 5/19 5/2	21 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6
SCDHEC in-stream standar	rd: All pH values not less than 6.0 and no	ot more than 8.5 pH					
7.2 E 6.8	~~~~			~~~		~~~	
6.4				T			
5/3 5/5 5/7	5/9 5/11 5/13	5/15 5/17 5/19 5/2	1 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6
0.20		Specific Cond	uctivity	<u></u>			
0.15 0.10 0.05			مسر	<b>—</b>			
E 0.05		<b>V</b>		<b>/</b>			
5/3 5/5 5/7	5/9 5/11 5/13	5/15 5/17 5/19 5/5	21 5/23	5/25 5/27	5/29 5/31	6/2 6/4	6/6
SCDHEC in-stream stan	dard: Daily average not less than 5 mg/l	with a low of 4 mg/L Dissolved	l Oxygen			4 mg/L (SCDHEC	Low Standard)
14 12 10 8 8 6 6							
4	~~~~		~~~			~~~	~~
5/3 5/5 5/7	7 5/9 5/11 5/13	5/15 5/17 5/19 5/	21 5/23	5/25 5/27	5/29 5/31	6/2 6/4	6/6
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# **Continuous Water Quality Monitoring Periodic Report**

Smith Branch A (May 3, 2023 - June 7, 2023)

## **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:** No samples were collected at SMIA during this monitoring period.

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:**

#### **Data Gaps**

There were no data gaps at SMIA during this monitoring period.

### Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at SMIA during this monitoring period.

## Continuous Water Quality Monitoring Periodic Report

## Smith Branch B (May 3, 2023 - June 7, 2023)

	CONTINUOUS		SUMMARY STATISTICS					
PARAMETER	DESCRIPTION	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Smith Branch	STAGE (FT):	0.5	3.7	0.6	0.6	0.3	
LOCATION:	Off Mountain Drive							
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TEMPERATURE (°F):	58	77	69	69	4	
COORDINATES:	34.037933,-81.0591	TURBIDITY (NTU):	5	151	10	12	10	
TMDL/IMPAIRMENT:	Fecal Coliform							
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.6	8.2	7.3	7.4	0.2	
SPATIAL LOCATION:	Most Downstream Site							
TOTAL NO. STORMS OVER 0.1 INCH:	5	SPECIFIC CONDUCTIVITY (mS/cm):	0.013	0.161	0.146	0.138	0.028	
MAX. DAILY RAINFALL: TOTAL RAINFALL (FOR	1.5 inches 0.4 inches	DISSOLVED OXYGEN (mg/L):	7.0	10.8	8.3	8.5	0.8	
PERIOD):	U.T IIIUU						<u> </u>	
12		Stage & Rainfa	all				0.0	
# 9		17					0.5	
8 3				- 1			0.5	
5/3 5/5 5/7	5/9 5/11 5/13 5	/15 5/17 5/19 5/21	5/23 5/2	25 5/27 5	/29 5/31	6/2 6/4	6/6	
		Water Tem	р					
			·					
80	~~~~	~~~~	~~~			~~~		
70 60	mm	· · · · · · · · · · · · · · · · · · ·	~~~	<b>~</b>	~~~	<b>~~</b>	<b>~</b>	
70 60 50 40			~~~	05 5/07			5/6	
70 60 50	5/9 5/11 5/13 !	5/15 5/17 5/19 5/2:	~~~	/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 60 50 40	5/9 5/11 5/13		1 5/23 5/	/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 50 40 5/3 5/5 5/7	5/9 5/11 5/13 !	5/15 5/17 5/19 5/2: Turbidity	1 5/23 5/	/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 50 40 5/3 5/5 5/7	5/9 5/11 5/13		1 5/23 5/	/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 50 40 5/3 5/5 5/7	5/9 5/11 5/13		1 5/23 5/	25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 400 200			1 5/23 5/	/25 5/27		6/2 6/4	6/6	
70 60 40 5/3 5/5 5/5 5/7	7 5/9 5/11 5/13	5/15 5/17 5/19 5/	1 5/23 5/					
70 60 40 5/3 5/5 5/7		5/15 5/17 5/19 5/	1 5/23 5/					
70 60 50 40 5/3 5/5 5/5 5/7 600 0 5/3 5/5 5/5 5/7	7 5/9 5/11 5/13	5/15 5/17 5/19 5/	1 5/23 5/					
70 60 50 40 5/3 5/5 5/5 5/7 8.5 5/5 5/7 SCDHEC in-stream standa	7 5/9 5/11 5/13	5/15 5/17 5/19 5/	1 5/23 5/					
70 60 50 40 5/3 5/5 5/5 5/7 600 0 5/3 5/5 5/5 5/7 8.5 8.0 7.5	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	5/15 5/17 5/19 5/	5/23 5/					
70 60 50 40 5/3 5/5 5/5 5/7 8.5 8.0 8.5 8.7 8.5 8.0 8.5 8.0 6.5 8.0 6.5 8.0 6.5 8.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	5/15 5/17 5/19 5/	5/23 5/	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
FE 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	5/15 5/17 5/19 5/	21 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 50 400 5/3 5/5 5/7 600 5/3 5/5 5/7 8.5 E 7.5 7.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  5/15 5/17 5/19 5/2	21 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
F 0.20 0.15 0.15	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  5/15 5/17 5/19 5/2	21 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 50 40 5/3 5/5 5/7 600 5/3 5/5 5/7 SCDHEC in-stream standa 8.5 7.5 7.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  5/15 5/17 5/19 5/2	21 5/23 5	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 40 5/3 5/5 5/7 600 200 0 5/3 5/5 5/7 SCDHEC in-stream standa 8.5 7.5 7.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13 rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  Specific Conc	1 5/23 5/ 21 5/23 5 Suctivity	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 600 400 5/3 5/5 5/7 600 0 5/3 5/5 5/7 8.0 7.5 7.0 6.5 7.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  Specific Conc  5/15 5/17 5/19 5/	1 5/23 5/ 21 5/23 5 ductivity	5/25 5/27	5/29 5/31 5/29 5/31	6/2 6/4	6/6	
70 60 50 40 5/3 5/5 5/5 5/7 6.5 5/3 5/5 5/7 8.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13 rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  2t more than 8.5 pH  Specific Conc  5/15 5/17 5/19 5/	1 5/23 5/ 21 5/23 5 ductivity	5/25 5/27	5/29 5/31	6/2 6/4	6/6	
70 60 50 40 5/3 5/5 5/5 5/7 6.5 5/3 5/5 5/7 8.0 6.5 5/3 5/5 5/7	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  Specific Conc  5/15 5/17 5/19 5/	1 5/23 5/ 21 5/23 5 ductivity	5/25 5/27	5/29 5/31 5/29 5/31	6/2 6/4	6/6	
70 600 50 400 5/3 5/5 5/5 5/7 600 0 5/3 5/5 5/5 5/7 8.0 7.5 7.0 6.5 5/3 5/5 5/5 5/7	7 5/9 5/11 5/13  rd: All pH values not less than 6.0 and no	Turbidity  5/15 5/17 5/19 5/  at more than 8.5 pH  Specific Conc  5/15 5/17 5/19 5/	1 5/23 5/ 21 5/23 5 ductivity	5/25 5/27	5/29 5/31 5/29 5/31	6/2 6/4	6/6	

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**Sampled Data:** No samples were collected at SMIB during this monitoring period.

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:**

#### Data Gaps

There were data gaps in pH from 5/18 - 5/22 and 5/27 - 5/30 due to the sensor being burried, DO from 5/27 - 5/30 due to the sensor being burried, specific conductivity from 5/27 - 5/30 due to the sensor being burried, and turbidity from 5/18 - 5/22 and 5/27 - 5/30 due to the sensor being buried.

#### Potential Illicit Discharges and Abnormal Events:

There were no abnormal events at SMIB during this monitoring period.