



Smith Branch A (February 10, 2016 -- March 22, 2016)

STREAM NAME: Smills Branch Earlewood Park LOCATION: Earlewood Park TEMPERATURE (*F): 1.9 4.4 2.0 2.0 2.0 0.2 TEMPERATURE (*F): 43 71 50 56 7 TEMPERATURE (*F): 43 71 50 56 7 TINDLIMPARTAMENT: Focal Collion NEIGHBORING LANDUS: Residential and commercial price in the commercial part of the condition of the c		CONTINUOUS		SUMMARY STATISTICS					
LOCATION: Earewood Park ADDRESS: Columbia, SC 20201 CORDINATES: 34.027289,-91.04265 TINDLIMPARIMENT: Focal Coliform NEIGHBORING LANDUSE: Residential and commercial STATIAL LOCATION: Most upstream sale TOTAL NO. STORING OVER 6 0.1 INCH: 0.7 Inches 0.0139 0.191 0.152 0.147 0.019 MAX. DAILY RAINFALL: 0.7 Inches	PARAMETER	DESCRIPTION			_			STANDARD DEVIATION	
ADDRESS: Clause St. Control St. Colorison St	STREAM NAME:	Smith Branch	STAGE (FT):	1.9	4.4	2.0	2.0	0.2	
ADDRESS: COUMDIS, SC 29201 COORDINATES: S4.027289, 51.04265 TURBIDITY (NTU): 1 509 10 20 30 NEIGHBORING LANDUSE: Residential and commercial SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS OVER 0.1 NCH: 6 0.050cm; MAX. DAILY RAINFALL: 0.7 inches TOTAL RAINFALL: 0.8 pecific Cookoucrivity DISSOLVED OXYGEN (mg/L): 0.8 11.6 9.6 9.5 1.0 TOTAL RAINFALL FOR PERIOD: TURBIDITY (NTU): 1 509 10 20 30 DISSOLVED OXYGEN (mg/L): 0.18 11.6 9.6 9.5 1.0 TOTAL RAINFALL FOR PERIOD: TURBIDITY (NTU): 1 509 10 20 30 TURBIDITY (NT	LOCATION:	Earlewood Park							
TIMBIDITY (NTU): 1 509 10 20 30 NEIGHBORING LANDUSE: Residential and commercial SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS OVER 6 CONDUCTIVITY (mScm): DISSOLVED 0.147 0.019 MAX. DAILY RAINFALL: 0.7 inches TOTAL RAINFALL: 0.7 inches TOTAL RAINFALL: 0.7 inches TOTAL RAINFALL: 0.8 11.6 9.6 9.5 1.0 TOTAL RAINFALL: 0.7 inches TOTAL RAINFALL: 0.7 inches TOTAL RAINFALL: 0.7 inches TOTAL RAINFALL: 0.8 11.6 9.6 9.5 1.0 SPECIFIC CONDUCTIVITY (mScm): DISSOLVED 0XYGEN (mg·L): 6.8 11.6 9.6 9.5 1.0 Water Temp Water Temp Water Temp Water Temp Water Temp Water Temp PH TURBIDITY (NTU): 1 509 10 20 30 0.191 0.152 0.147 0.019 Water Temp Water Temp PH TURBIDITY (NTU): 1 509 10 20 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147 0.019 Water Temp PH TURBIDITY (NTU): 1 509 10 30 0.191 0.152 0.147	ADDRESS:		TEMPERATURE (°F):	43	71	56	56	7	
TITOLIN DISCONTING LANDUSE: Residential and commercial SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS OVER 0	COORDINATES:	34.027289,-81.04265	TURBIDITY (NTU):	1	509	10	20	30	
SPATIAL LOCATION: Most upstream site TOTAL NO. STORMS OVER G. VI. INCH: MAX. DAILY RAINFALL: O.7 inches TOTAL RAINFALL: (FOR PERIOD): Stage & Rainfall Water Temp Water Temp Water Temp Water Temp Water Temp Specific Conductivity Dissocration Water Temp Water Temp Specific Conductivity Dissocration Water Temp Specific Conductivity Specific Conduc	TMDL/IMPAIRMENT:	Fecal Coliform							
TOTAL NO. STORMS OVER 6 CONDUCTIVITY (mS/cm): DISSOLVED	NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.6	7.2	6.9	6.9	0.1	
CONDUCTIVITY 0.0339	SPATIAL LOCATION:	Most upstream site						-	
TOTAL RAINFALL (FOR PERIOD): Stage & Rainfall	TOTAL NO. STORMS OVER 0.1 INCH:	6	CONDUCTIVITY	0.039	0.191	0.152	0.147	0.019	
Stage & Rainfall	MAX. DAILY RAINFALL:	0.7 inches	DISSOLVED	0.0	44.0	0.0	0.5	4.0	
Stage & Rainfall 200 2710 2712 2714 2716 2718 2720 2722 2724 2716 2718 2720 2722 2724 2726 2728 2721 2728 2721 2728 2721 2721 2721		2.5 inches	OXYGEN (mg/L):	6.8	11.6	9.6	9.5	1.0	
Water Temp 2/10 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 2/20 2/21			Stage & Rainfall		-	-	-		
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\$\frac{7.1}{6.9} \\ \frac{7.1}{6.5} \\ \frac{7.1}{6			рН						
Specific Conductivity Specific Conductivity Speci	7.3								
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0.20 0.15 0.10 0.05 0.00 2/10 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23 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)									
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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)				V					
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Smith Branch A (February 10, 2016 -- March 22, 2016)

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:

Analyte (units)	Sample 1		Sample 2		Sample 3		Sample 4	
	2/22/2016		2/22/2016		2/22/2016			
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	11:29	1,096	13:05	9,222	15:42	2,752		
Total Suspended Solids (mg/L)	11:29	85.6	13:05	445	15:42	79		
Total Phosphorus (mg/L)	11:29	0.22	13:05	0.57	15:42	0.17		
Total Nitrogen (mg/L)	11:29	2.58	13:05	4.08	15:42	2.21		

Note:





Smith Branch B (February 10, 2016 -- March 22, 2016)

		SUMMARY STATISTICS							
PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION		
STREAM NAME:	Smith Branch	STAGE (FT):	0.2	3.2	0.3	0.3	0.2		
LOCATION:	Off Mountain Drive								
NEAREST ADDRESS:	3950 Clement Rd Columbia, SC 29203	TEMPERATURE (°F):	42	70	55	56	7		
COORDINATES:	34.037933,-81.0591	TURBIDITY (NTU):	4	381	9	17	27		
TMDL/IMPAIRMENT:	Fecal Coliform								
NEIGHBORING LANDUSE:	Residential and commercial	pH:	6.7	7.6	7.0	7.1	0.1		
SPATIAL LOCATION:	Most Downstream Site								
TOTAL NO. STORMS OVER 0.1 INCH:	6	SPECIFIC CONDUCTIVITY (mS/cm):	0.042	0.170	0.14	0.133	0.019		
MAX. DAILY RAINFALL:	0.7 inches	DISSOLVED OXYGEN	7.1	40.7	40.0	10.0	1.2		
TOTAL RAINFALL (FOR PERIOD):	2.6 inches	(mg/L):	7.1	12.7	10.2	10.0	1.2		
Water Temp									
75 65 45 2/10 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23									
400		Turbidity							
B 200 100 0	16 2/18 2/20 2/22 2/24	2/26 2/28 3/1 3/3	3 3/5 3/7	3/9 3/11	3/13 3/15	3/17 3/19	3/21 3/23		
PH 8.0 7.5 7.0 6.5 2/10 2/12 2/14 2/16 2/18 2/20 2/22 2/24 2/26 2/28 3/1 3/3 3/5 3/7 3/9 3/11 3/13 3/15 3/17 3/19 3/21 3/23									
Specific Conductivity									
0.15 0.00 0.05 0.00 2/10 2/12 2/14 2/2	16 2/18 2/20 2/22 2/24	2/26 2/28 3/1 3/3	3/5 3/7	3/9 3/11	3/13 3/15	3/17 3/19	3/21 3/23		
13 11 9 9 7 5 5	d: Daily average not less than 5 mg/L with	a low of 4 mg/L Dissolved Oxy 2/26 2/28 3/1 3/3	~~~	3/9 3/11	3/13 3/15	3/17 3/19	20w Standard) 3/21 3/23		

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

Smith Branch B (February 10, 2016 -- March 22, 2016)

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	Sample 1		Sample 2		Sample 3		Sample 4	
	2/22/2016		2/22/2016		2/22/2016			
(units)	Time	Result	Time	Result	Time	Result	Time	Result
Escherichia coli (MPN/100mL)	11:46	220	12:39	7308	15:29	5818		
Total Suspended Solids (mg/L)	11:46	2.4	12:39	102	15:29	179		
Total Phosphorus (mg/L)	11:46	0.049	12:39	0.18	15:29	0.23		
Total Nitrogen (mg/L)	11:46	1.47	12:39	1.63	15:29	1.3		

Note: