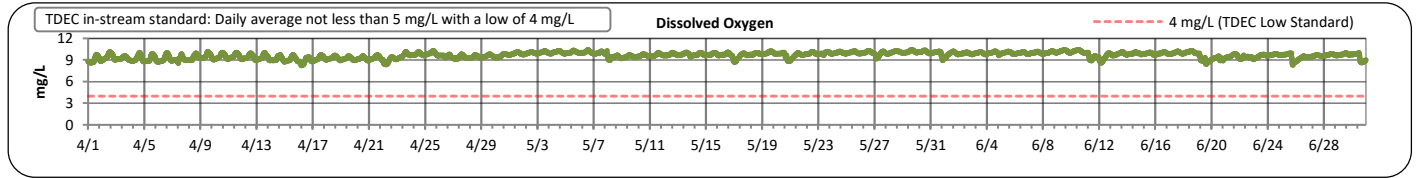
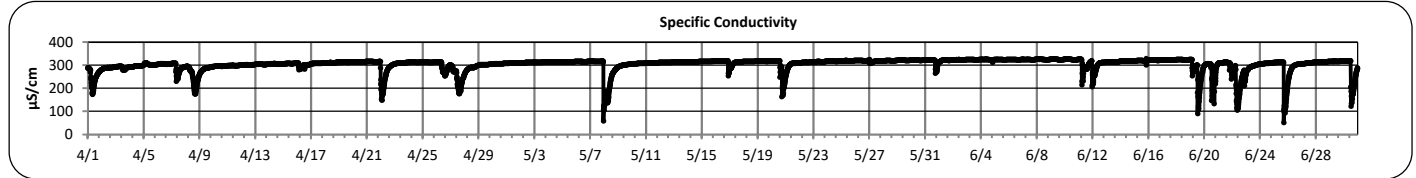
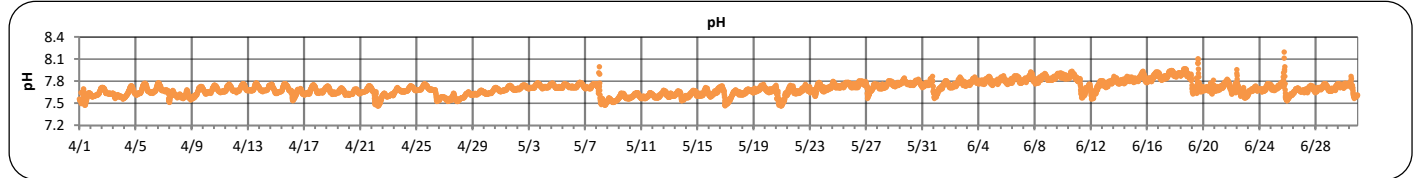
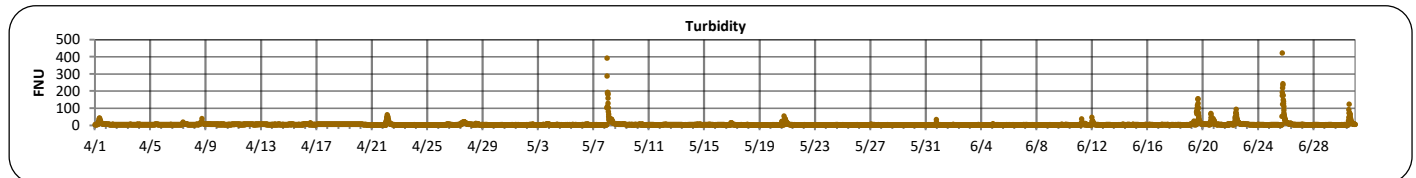
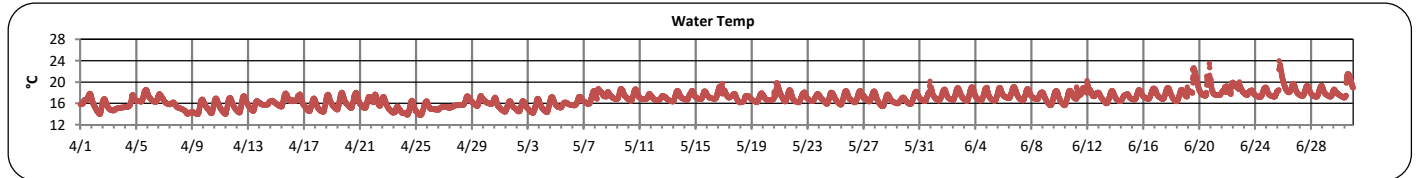
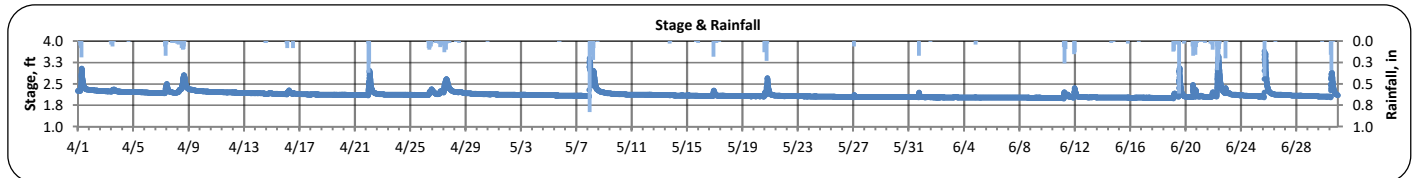




The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
Stringers Branch at Signal Mountain



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Stringers Branch	STAGE (FT):	2.0	3.7	2.1	2.1	0.1
LOCATION:	Signal Mountain Rd	TEMPERATURE (°C):	14	24	17	17	1
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	422	4	6	13
		pH:	7.5	8.2	7.7	7.7	0.1
APPROX. DRAINAGE AREA:	5.7 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	51	329	313	305	30
TOTAL NO. STORMS OVER 0.1 INCH:	22						
MAX. DAILY RAINFALL:	1.2 inches	DISSOLVED OXYGEN (mg/L):	8.3	10.5	9.8	9.7	0.4
TOTAL RAINFALL (FOR PERIOD):	10.8 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring**  
**Quarterly Report (April 1, 2023 - June 30, 2023)**  
**Stringers Branch at Signal Mountain**



**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Dry Sample		Storm Sample		Storm Sample			
	5/15/2023		6/14/2023		6/14/2023			
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	13:47	60	11:10	80	-	-		
Total Suspended Solids (mg/L)	13:47	1	11:10	2	13:17	4		
Total Phosphorus (mg/L)	13:47	0.080	11:10	0.070	-	-		
Total Nitrogen (mg/L)	13:47	0.94	11:10	1.04	-	-		

**Notes:**

Data Gaps

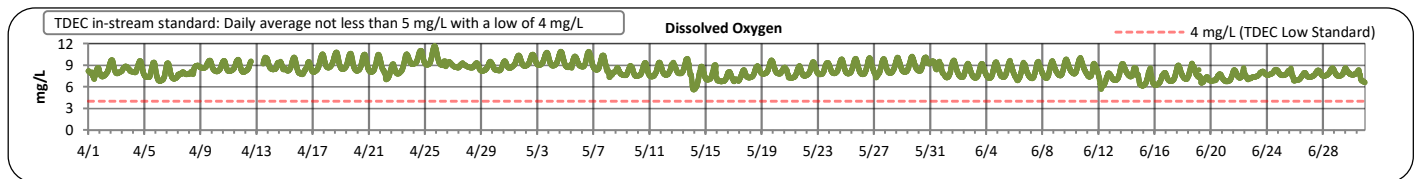
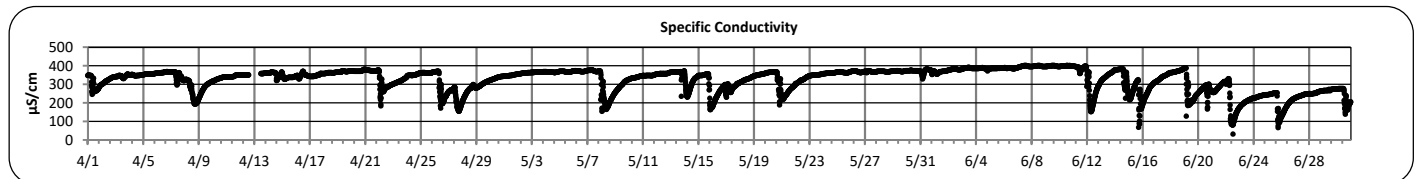
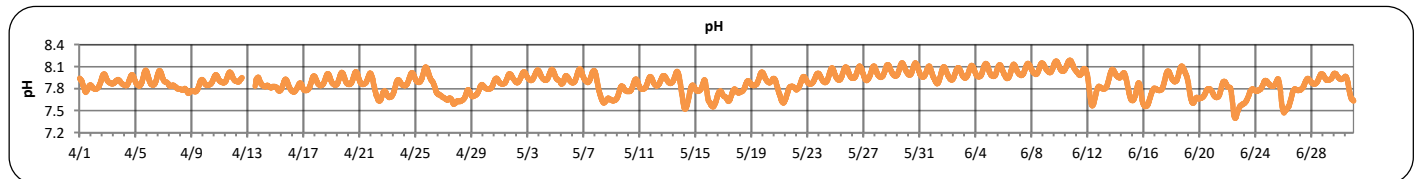
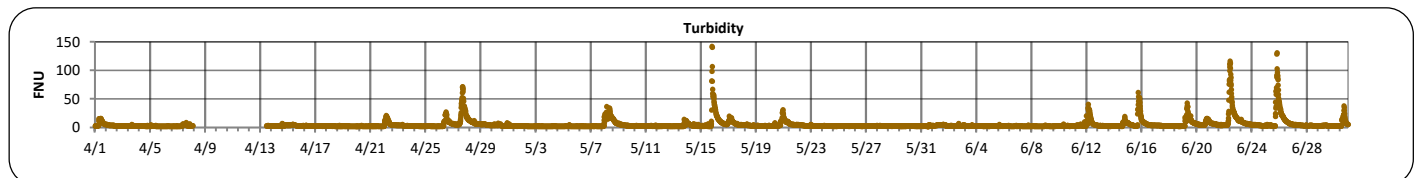
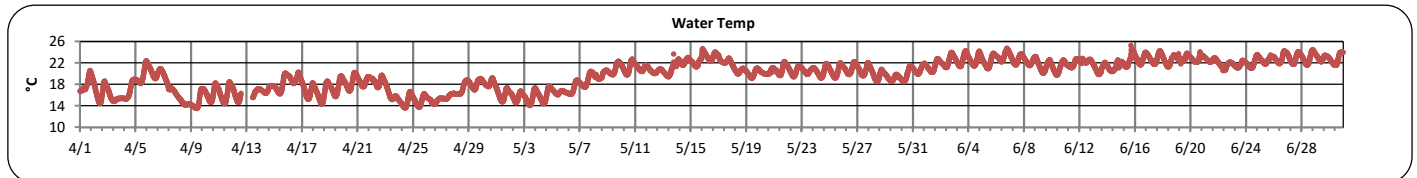
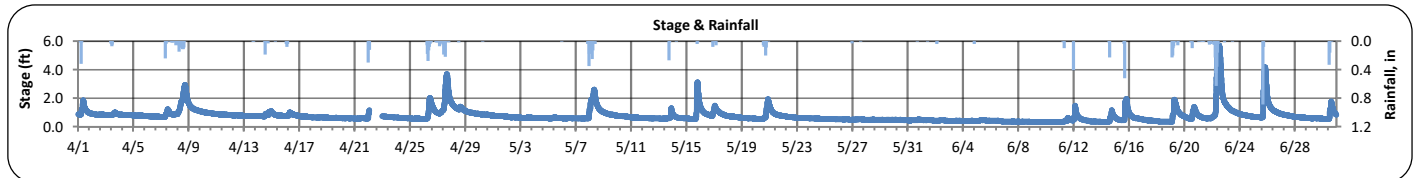
There were no data gaps at the Stringers Branch at Signal Mountain location during this monitoring period.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
Friar Branch at Polymer Drive



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Friar Branch	STAGE (FT):	0.3	5.7	0.7	0.8	0.5
LOCATION:	Polymer Drive Bridge	TEMPERATURE (°C):	14	25	20	20	3
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	2	142	3	5	9
		pH:	7.4	8.2	7.9	7.9	0.1
APPROX. DRAINAGE AREA:	20.7 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	33	403	350	327	61
TOTAL NO. STORMS OVER 0.1 INCH:	22						
MAX. DAILY RAINFALL:	2.0 inches	DISSOLVED OXYGEN (mg/L):	5.6	11.7	8.3	8.3	1.0
TOTAL RAINFALL (FOR PERIOD):	12.9 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring**  
**Quarterly Report (April 1, 2023 - June 30, 2023)**  
**Friar Branch at Polymer Drive**



**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Dry Sample		Storm Sample		Storm Sample		Storm Sample	
	5/23/2023		6/14/2023		6/14/2023		6/14/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:15	120	14:10	390	14:30	1,200	14:50	1,200
Total Suspended Solids (mg/L)	11:15	3	14:10	7	14:30	14	14:50	11
Total Phosphorus (mg/L)	11:15	<0.500	14:10	<0.500	14:30	<0.500	14:50	<0.500
Total Nitrogen (mg/L)	11:15	0.80*	14:10	1.13*	14:30	1.17*	14:50	1.17*

\*Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

**Notes:**

Data Gaps

Sonde data are unavailable between 4/12-4/13 due to the sonde being removed for maintenance and calibration.

Turbidity data between 4/8-4/12 are unavailable due to a sensor malfunction.

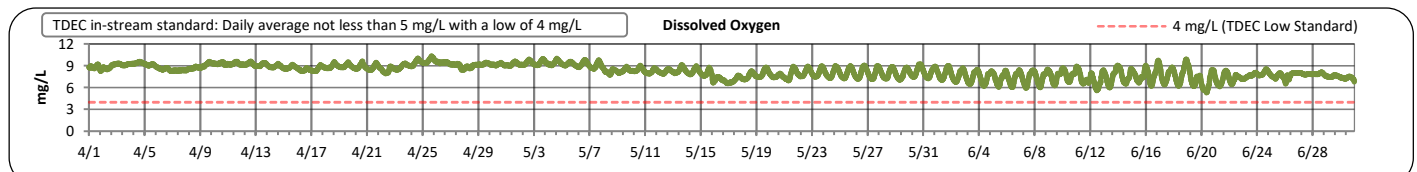
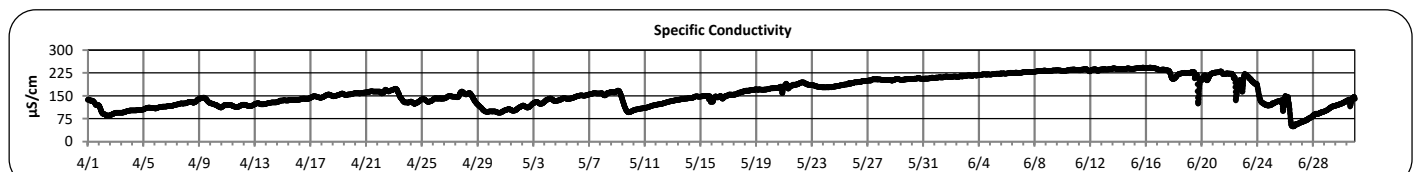
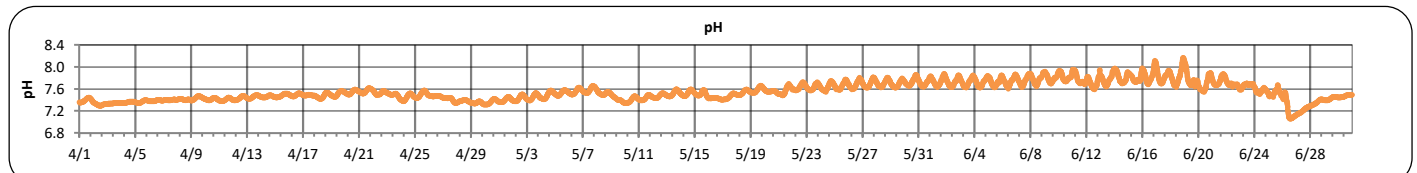
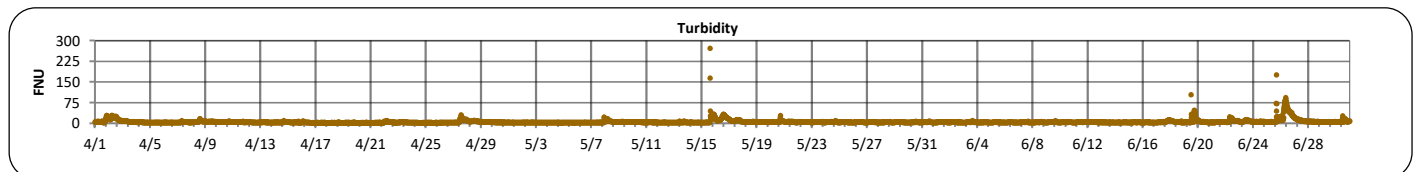
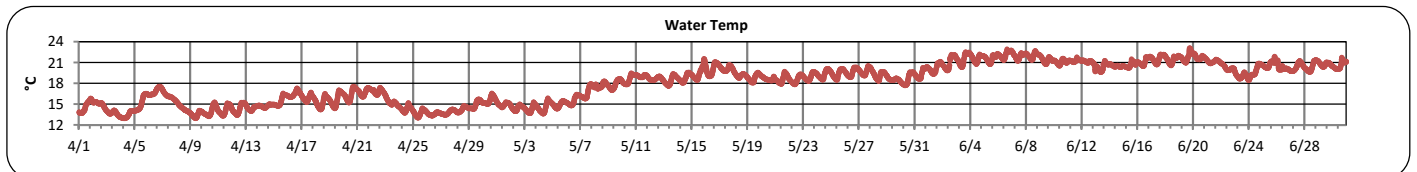
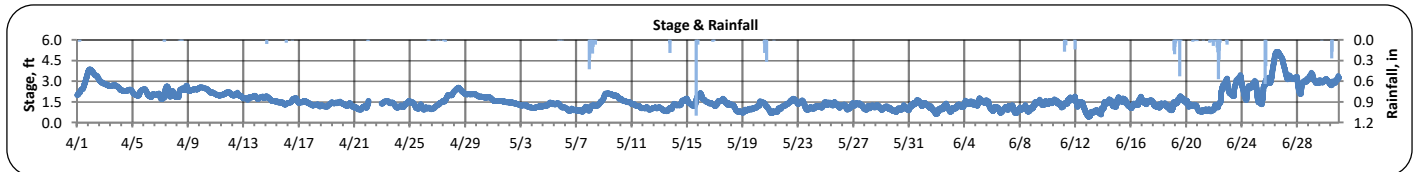
Stage data are unavailable on 4/22 due to a server outage.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
N. Chick Creek at Greenway Farms



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	N. Chick Creek	STAGE (FT):	0.4	5.2	1.4	1.6	0.7
LOCATION:	Greenway Farms Boat Launch	TEMPERATURE (°C):	13	23	19	18	3
TMDL/IMPAIRMENT:	pH, Siltation, Habitat Alteration	TURBIDITY (FNU):	2	272	4	5	7
		pH:	7.1	8.2	7.5	7.6	0.2
APPROX. DRAINAGE AREA:	117.4 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	50	243	153	163	46
TOTAL NO. STORMS OVER 0.1 INCH:	21						
MAX. DAILY RAINFALL:	1.5 inches	DISSOLVED OXYGEN (mg/L):	5.3	10.4	8.4	8.3	0.9
TOTAL RAINFALL (FOR PERIOD):	12.5 inches						





The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
N. Chick Creek at Greenway Farms



### Explanation of Statistics:

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

### Sampled Data:

Analyte (units)	Storm Sample		Storm Sample		Storm Sample		Storm Sample	
	5/23/2023		6/14/2023		6/14/2023		6/14/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	11:15	100	14:15	240	14:35	100	14:55	82
Total Suspended Solids (mg/L)	11:15	4	14:15	11	14:35	5	14:55	4
Total Phosphorus (mg/L)	11:15	<0.500	14:15	<0.500	14:35	<0.500	14:55	<0.500
Total Nitrogen (mg/L)	11:15	0.47*	14:15	0.45*	14:35	0.73*	14:55	0.45*

\*Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

### Notes:

#### Data Gaps

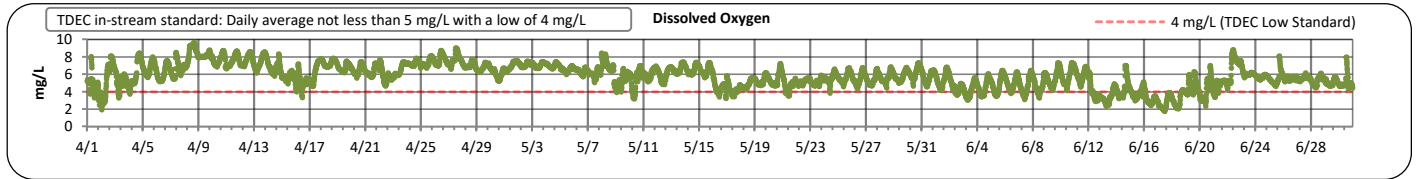
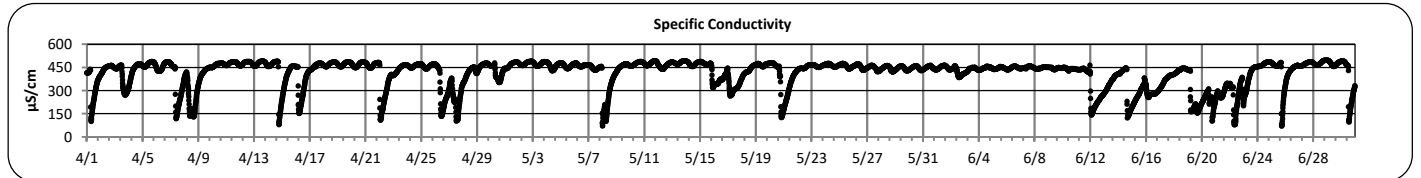
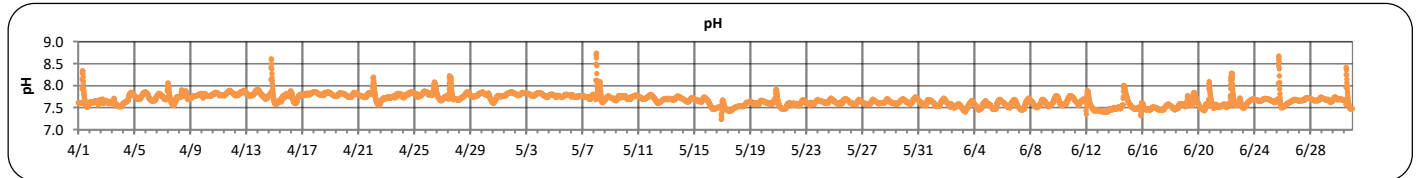
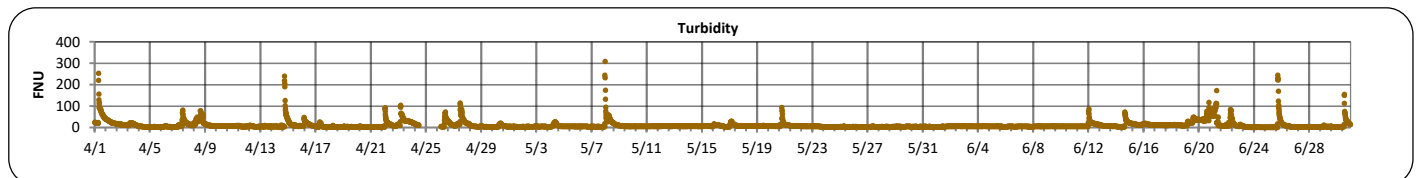
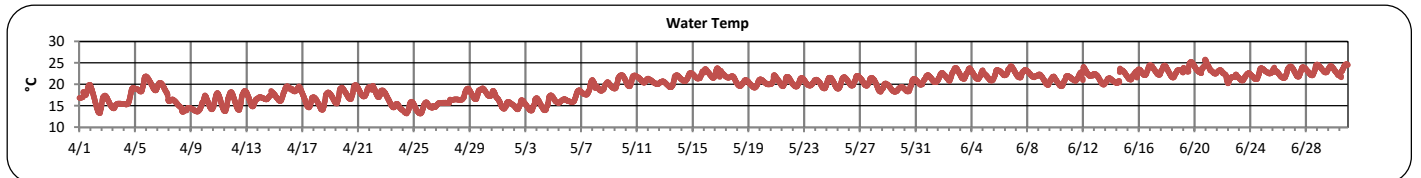
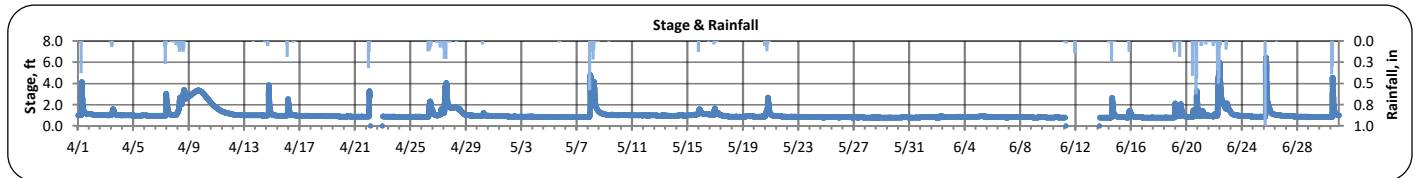
Stage data are unavailable on 4/22 due to a server outage.



The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
Dobbs Branch at Park City Park



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Dobbs Branch	STAGE (FT):	0.8	6.5	0.9	1.1	0.5
LOCATION:	Park City Park	TEMPERATURE (°C):	13	26	20	20	3
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	309	6	11	17
		pH:	7.2	8.8	7.7	7.7	0.1
APPROX. DRAINAGE AREA:	6.2 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	71	498	451	415	89
TOTAL NO. STORMS OVER 0.1 INCH:	24						
MAX. DAILY RAINFALL:	1.9 inches	DISSOLVED OXYGEN (mg/L):	1.8	9.7	5.9	5.8	1.4
TOTAL RAINFALL (FOR PERIOD):	13.3 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring**  
**Quarterly Report (April 1, 2023 - June 30, 2023)**  
**Dobbs Branch at Park City Park**



**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Dry Sample		Storm Sample		Storm Sample		Storm Sample	
	5/23/2023		6/14/2023		6/14/2023		6/14/2023	
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:15	720	15:20	24,000	15:40	24,000	16:00	40,000
Total Suspended Solids (mg/L)	10:15	4	15:20	232	15:40	198	16:00	170
Total Phosphorus (mg/L)	10:15	<0.500	15:20	0.548	15:40	<0.500	16:00	<0.500
Total Nitrogen (mg/L)	10:15	0.69*	15:20	1.82	15:40	1.62	16:00	1.44

\*Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

**Notes:**

Data Gaps

Turbidity data were removed on 4/24-4/26 due to sensor fouling.

Stage data are unavailable on 4/22 due to a server outage.

Stage data are unavailable between 6/11-6/13 due to a sensor communication issue.

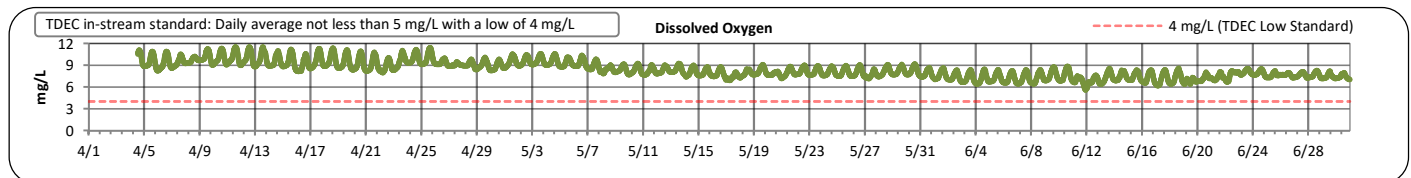
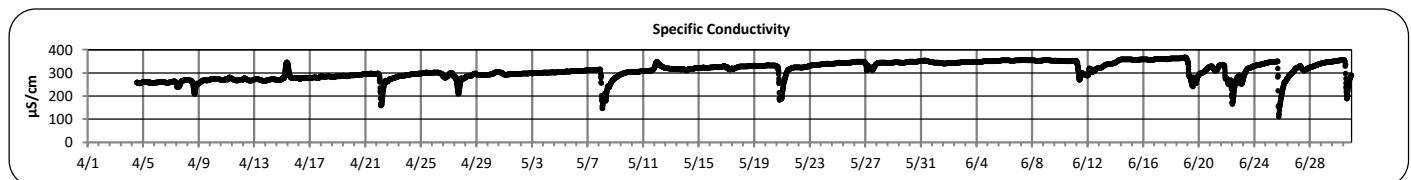
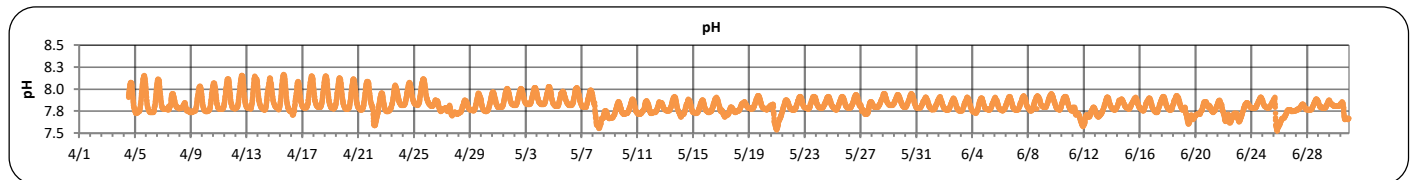
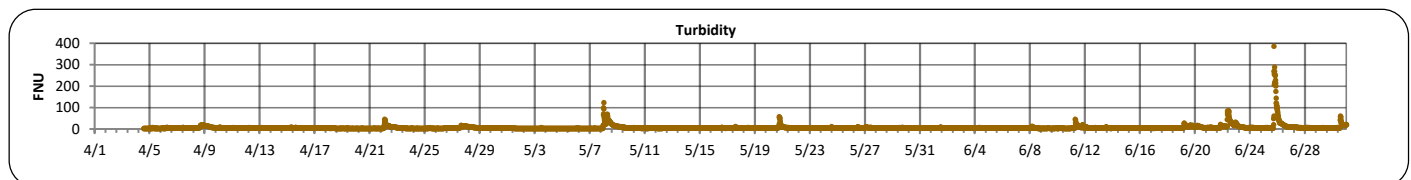
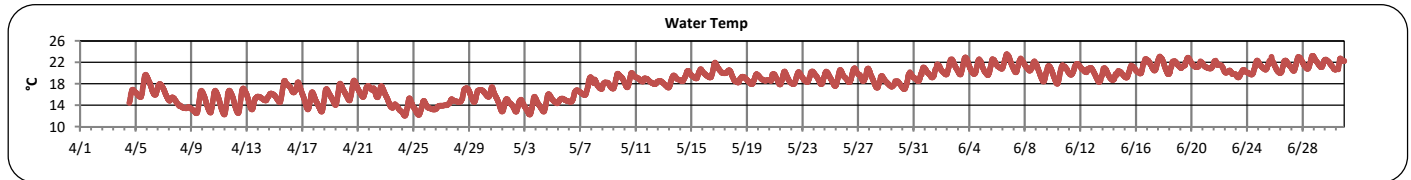
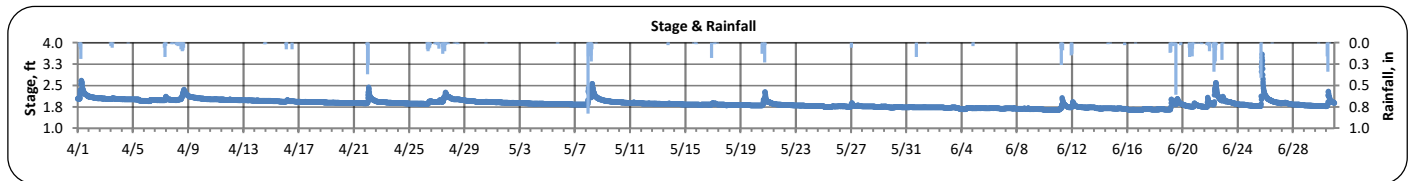




The City of Chattanooga and Hamilton County Joint Water Quality Monitoring  
Quarterly Report (April 1, 2023 - June 30, 2023)  
Mountain Creek at Elementary School



PARAMETER	DESCRIPTION	CONTINUOUS WATER QUALITY PARAMETERS:	SUMMARY STATISTICS				
			MINIMUM OBSERVED	MAXIMUM OBSERVED	MEDIAN OBSERVED	MEAN OBSERVED	STANDARD DEVIATION
STREAM NAME:	Mountain Creek	STAGE (FT):	1.6	3.6	1.9	1.9	0.1
LOCATION:	Red Bank Elementary School	TEMPERATURE (°C):	12	24	19	18	3
TMDL/IMPAIRMENT:	<i>E. coli</i> , Siltation, Habitat Alteration	TURBIDITY (FNU):	1	387	4	6	13
		pH:	7.5	8.2	7.8	7.8	0.1
APPROX. DRAINAGE AREA:	5.5 square miles	SPECIFIC CONDUCTIVITY (µS/cm):	111	368	315	311	36
TOTAL NO. STORMS OVER 0.1 INCH:	22						
MAX. DAILY RAINFALL:	1.2 inches	DISSOLVED OXYGEN (mg/L):	5.6	11.5	8.3	8.4	1.1
TOTAL RAINFALL (FOR PERIOD):	10.8 inches						





**The City of Chattanooga and Hamilton County Joint Water Quality Monitoring**  
**Quarterly Report (April 1, 2023 - June 30, 2023)**  
**Mountain Creek at Elementary School**



**Explanation of Statistics:**

<b>MINIMUM OBSERVED</b>	The minimum of the values recorded by the datasonde in 15 minute intervals.
<b>MAXIMUM OBSERVED</b>	The maximum of the values recorded by the datasonde in 15 minute intervals.
<b>MEDIAN OBSERVED</b>	The median of all the values recorded by the datasonde in 15 minute intervals.
<b>MEAN OBSERVED</b>	The average of all the values recorded by the datasonde in 15 minute intervals.
<b>STANDARD DEVIATION</b>	The standard deviation of all the values recorded by the datasonde in 15 minute intervals.

**Sampled Data:**

Analyte (units)	Dry Sample							
	5/23/2023							
	Time	Results	Time	Results	Time	Results	Time	Results
<i>Escherichia coli</i> (MPN/100mL)	10:15	110						
Total Suspended Solids (mg/L)	10:15	4						
Total Phosphorus (mg/L)	10:15	<0.500						
Total Nitrogen (mg/L)	10:15	0.45*						

\*Value represents Nitrate/Nitrite concentrations only. TKN was below the detection limit of 0.5 mg/L.

**Notes:**

The sonde was sent to Xylem for repair on 12/11/2022. A replacement sonde was received and deployed on 4/4/2023.