



City of Chattanooga

Mayor Andy Berke

April 30, 2020

VIA CERTIFIED MAIL

Mr. Richard Elliott
Environmental Engineer
Clean Water Enforcement Branch
US EPA-Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

Re: *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245*
Quarterly Report No. 27 – January 2020 to March 2020

Dear Mr. Elliott:

On behalf of the City of Chattanooga, Tennessee ("City"), and in accordance with the consent decree entered by the United States District Court for the Eastern District of Tennessee (Southern Division), on April 24, 2013, in the case styled the United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245 ("Consent Decree"), we are submitting to both the Environmental Protection Agency ("EPA") and the Tennessee Department of Environment and Conservation ("TDEC") the twenty-sixth quarterly report required pursuant to paragraph 38 of the Consent Decree. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the Consent Decree.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mr. Richard Elliott
April 30, 2020
Page Two

Please let me know if you have any questions regarding our submittal.

Sincerely,



Jeffrey A. Rose, P.E.
Director, Waste Resources Division

Enclosure

cc: Karl Fingerhood, Esq., US DOJ
Chief, Environmental Enforcement Section, US DOJ
Chief, Clean Water Enforcement Branch, US EPA Region 4
Paul Schwartz, Esq., US EPA
Sohnia Hong, Office of the Attorney General
Enforcement Coordinator, Water Pollution Control, TDEC
Shelby Ward, TN Clean Water Network
Adam Sowatzka, Esq., King & Spalding
Mike Marino, P.E., Jacobs Engineering



Quarterly Report No. 27

January 1, 2020 – March 31, 2020

Prepared for

**United States Environmental Protection Agency
and Tennessee Department of Environment and
Conservation**

City of Chattanooga
Waste Resources Division
Consent Decree Program
Case No. 1:12-cv-00245

Prepared by

City of Chattanooga
Waste Resources Division

Submitted by

Jacobs

Jacobs Engineering Group Inc.
Consent Decree Program Manager

Chattanooga, Tennessee

April 30, 2020

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Acronyms and Abbreviations

Ave	Avenue
CD	Consent Decree
CFR	Code of Federal Regulations
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
Dr	Drive
EPA	Environmental Protection Agency
Gal	Gallons
Hrs	Hours
Hwy	Highway
Ln	Lane
MBWWTP	Moccasin Bend Waste Water Treatment Plant
MG	Million Gallons
MH	Manhole
N/A	Not Applicable
No.	Number
NPDES	National Pollutant Discharge Elimination System
PS	Pump Station
Rd	Road
SSO	Sanitary Sewer Overflow
St	Street
TDEC	Tennessee Department of Environment and Conservation
Trl	Trail
UNK	Unknown
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Introduction

1.1 Purpose

The City of Chattanooga entered into a consent decree with the United States and the State of Tennessee in the case styled *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245* (“CD”), which became effective on April 24, 2013. Pursuant to Section IX, paragraph 38 of the CD, Chattanooga is required to submit reports on a quarterly basis to the Environmental Protection Agency (“EPA”) and Tennessee Department of Environment and Conservation (“TDEC”). Chattanooga has prepared Quarterly Report No. 27 to satisfy the reporting requirements of the CD. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the CD.

1.2 Requirements

As detailed in Section IX, paragraph 38 of the CD, Chattanooga is required to report the date, time, location, source, estimated duration and volume, and receiving water of the following events:

1. Sanitary sewer overflow (“SSO”) events occurring during the reporting period;
2. Combined sewer overflow (“CSO”) outfall discharges occurring during the reporting period;
and
3. Bypasses at the Moccasin Bend Wastewater Treatment Plant (“MBWWTP”) occurring during the reporting period.

This information is provided in tabular form in Sections 2.0 – 4.0 of this report.

2.0 SSO Events

For the reporting period of January 1, 2020 through March 31, 2020, Chattanooga experienced the SSOs listed in Table 2-1. An SSO event is defined in paragraph 8.(nn) of the CD as “any discharge of wastewater to waters of the United States or State from Chattanooga’s Sewer System through a point source not permitted in any National Pollutant Discharge Elimination System (“NPDES”) permit, as well as any overflow, spill, or release of wastewater to public or private property from the Sewer System that may not have reached waters of the United States or the State, including all building backups.”

Based on averaged data from the 13 rain gauges installed throughout Chattanooga, the observed rainfall in the first quarter of 2020 was 90% higher than normal (164% for the month of February) and 14% higher than the first quarter of 2019. These above normal conditions produced two storm events in February that both had total rainfall larger than the 2-year 24-hour design storm event of 3.67 inches as defined in the CD. These events occurred on February 4-7, and February 10-13, 2020 and had rainfall totals of 4.81 and 4.16 inches respectively, or 32% of the overall rainfall for this quarter. There were 95 SSOs associated with these two events, or 55% of the total number of SSOs in this quarter. These SSOs are highlighted in gray and shown in table 2-1.

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
1	02-Jan-20	10:00 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	34.00	69,000	Tennessee River	Wet Weather
2	02-Jan-20	11:00 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P018	60.00	432,000	Tennessee River	Wet Weather
3	02-Jan-20	11:35 PM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	52.08	24,065,434	Tennessee River	Wet Weather
4 ¹	03-Jan-20	9:00 AM	Terrace Ave & Young Ave	Manhole	S136A130	72.00	224,640	Tennessee River	Wet Weather
5 ¹	03-Jan-20	9:15 AM	3470 Van Buren St	Manhole	S118G114	70.75	33,960	Storm Ditch	Wet Weather
6	03-Jan-20	9:30 AM	1033 Lupton Dr	Manhole	S118K036	70.50	621,000	Tennessee River	Wet Weather
7	03-Jan-20	10:00 AM	Wilcox Blvd and Shallowford Rd	Manhole	S147F015	67.00	20,100	South Chickamauga Creek	Wet Weather
8	03-Jan-20	10:00 AM	1022 Shallowford Rd	Manhole	S147G104	67.00	8,040	South Chickamauga Creek	Wet Weather
9 ¹	03-Jan-20	10:00 AM	2914 Hamill Rd	Manhole	S110F014	70.00	330,335	North Chickamauga Creek	Wet Weather
10	03-Jan-20	11:30 AM	406 Brown Rd	Manhole	S158O004	68.50	616,500	South Chickamauga Creek	Wet Weather
11	03-Jan-20	12:00 PM	3857 Birmingham Dr	Manhole	S118D128	68.00	40,800	Tennessee River	Wet Weather
12	03-Jan-20	2:00 PM	520 Airport Rd	Manhole	S158A019	66.00	39,600	Storm Drain	Wet Weather
13	06-Jan-20	11:00 AM	5336 Austin Dr	Service Line	UNK ²	2.50	500	Structure*	Wet Weather
14	14-Jan-20	10:30 AM	914 Sterling Ave	Manhole	S136H107	22.50	67,500	Tennessee River	Wet Weather
15	14-Jan-20	10:45 AM	1033 Lupton Dr	Manhole	S118K036	UNK ²	70,125	Tennessee River	Wet Weather
16 ¹	14-Jan-20	11:00 AM	701 Lupton Dr	Manhole	S118G116	22.50	2,700	Storm Ditch	Wet Weather
17	26-Jan-20	7:30 PM	8612 Flowerdale Dr	Manhole	S171J003	4.00	240	Storm Drain	Blockage - Grease
18	04-Feb-20	8:30 AM	8310 Igou Gap Rd	Manhole	S159F041	UNK ²	500	Storm Ditch	Wet Weather
19	05-Feb-20	1:00 PM	1022 Shallowford Rd	Manhole	S147G104	44.00	52,800	South Chickamauga Creek	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
20	05-Feb-20	1:20 PM	3238 Waterfront Drive (Tiftonia#1 PS)	Manhole	S144D043	203.67	365,400	Tennessee River	Wet Weather
21	05-Feb-20	1:30 PM	914 Sterling Ave	Manhole	S136H107	66.50	603,000	Tennessee River	Wet Weather
22	05-Feb-20	1:30 PM	3728 Wilcox Blvd	Manhole	S147B301	55.50	66,000	Storm Ditch	Wet Weather
23 ¹	05-Feb-20	1:30 PM	2001 S Kelley St	Manhole	S156G030	43.50	66,000	Dobbs Branch	Wet Weather
24	05-Feb-20	2:00 PM	3801 Alton Park Blvd.	Manhole	S155N096	45.00	27,000	Storm Drain	Wet Weather
25 ¹	05-Feb-20	2:00 PM	2109 Lynnbrook Ave	Manhole	S156G048	66.50	64,500	Dobbs Branch	Wet Weather
26	05-Feb-20	2:30 PM	1020 Lupton Dr	Manhole	S118K006	288.50	4,327,500	Tennessee River	Wet Weather
27 ¹	05-Feb-20	2:30 PM	1900 E 25th Street Place	Manhole	S156J057	43.00	56,760	Storm Drain	Wet Weather
28 ¹	05-Feb-20	2:30 PM	701 Lupton Dr	Manhole	S118G116	42.00	20,160	Storm Ditch	Wet Weather
29	05-Feb-20	5:35 PM	832 MLK Bld	Manhole	S145D813	39.42	48,000	Storm Ditch	Wet Weather
30 ¹	05-Feb-20	11:15 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	35.75	813,300	Tennessee River	Wet Weather
31	06-Feb-20	4:00 AM	4602 Gann Store Rd (Big Ridge #2)	Manhole	S110M080	29.50	52,200	Tennessee River	Wet Weather
32	06-Feb-20	4:45 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	209.50	9,497,513	Tennessee River	Wet Weather
33 ¹	06-Feb-20	7:30 AM	621 Lupton Dr	Manhole	S118G077	25.00	192,000	Storm Ditch	Wet Weather
34	06-Feb-20	8:30 AM	1722 Strawberry Ln	Manhole	S110I450	24.50	225,000	Storm Drain	Wet Weather
35 ¹	06-Feb-20	8:57 AM	5626 Grubb Road	Manhole	S100H072	52.30	126,900	Storm Drain	Wet Weather
36 ¹	06-Feb-20	9:00 AM	5302 Old Mission Rd	Manhole	S157K058	48.50	631,900	Storm Drain	Wet Weather
37	06-Feb-20	9:00 AM	4500 Gann Store Rd	Manhole	S111P016	25.00	247,500	Tennessee River	Wet Weather
38 ¹	06-Feb-20	9:00 AM	5009 Creekside Preserve	Other	UNK ²	77.00	164,700	North Chickamauga Creek	Wet Weather
39	06-Feb-20	9:30 AM	End of MLK BLVD (East Bank)	Manhole	S135O547	278.42	11,878,506	Tennessee River	Wet Weather
40	06-Feb-20	9:30 AM	929 Riverside Dr (Citico PS)	Manhole	S136P605	280.50	4,207,500	Tennessee River	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
41	06-Feb-20	9:45 AM	1500 Pin Oaks Drive	Manhole	S147B083	23.25	11,520	South Chickamauga Creek	Wet Weather
42	06-Feb-20	9:55 AM	Wilcox Blvd and Shallowford Rd	Manhole	S147F015	48.08	432,000	South Chickamauga Creek	Wet Weather
43	06-Feb-20	10:00 AM	2708 Haywood	Manhole	S127A008	22.50	26,400	Storm Drain	Wet Weather
44	06-Feb-20	10:00 AM	1308 Hanover Street	Manhole	S136A140	22.50	52,800	Storm Drain	Wet Weather
45	06-Feb-20	10:30 AM	1001 Dartmouth St	Manhole	S127P060	22.00	44,000	Storm Drain	Wet Weather
46 ¹	06-Feb-20	10:30 AM	900 Terrace Ave	Manhole	S136A133	22.00	44,000	Storm Drain	Wet Weather
47	06-Feb-20	10:35 AM	1111 Plaza Drive	Manhole	S109M084	26.42	31,200	Storm Drain	Wet Weather
48	06-Feb-20	11:46 AM	100 West 38th Street	Manhole	S155N071	23.23	28,800	Storm Drain	Wet Weather
49	06-Feb-20	11:56 AM	3505 McArthur Avenue	Manhole	S137G032	21.07	25,200	Storm Drain	Wet Weather
50 ¹	06-Feb-20	12:05 PM	4610 Kemp Drive	Manhole	S147O089	45.92	50,200	Storm Drain	Wet Weather
51	06-Feb-20	12:07 PM	2401 East 14th Street	Manhole	S156C060	21.88	330,000	Storm Drain	Wet Weather
52	06-Feb-20	1:07 PM	3649 Brainerd Rd	Manhole	S157A011	20.38	120,000	Storm Drain	Wet Weather
53	06-Feb-20	1:14 PM	25 S. Germantown Rd	Manhole	S157A056	19.77	480,000	Storm Drain	Wet Weather
54	06-Feb-20	1:22 PM	1600 E 28th St	Manhole	S156I029	45.13	5,280	Storm Ditch	Wet Weather
55	06-Feb-20	1:30 PM	3604 Conner Street	Manhole	S157H080	20.00	18,000	Storm Drain	Wet Weather
56	06-Feb-20	1:39 PM	Parkway & Glendon	Manhole	S157H020	19.85	24,000	Storm Ditch	Wet Weather
57 ¹	06-Feb-20	1:40 PM	406 Brown Road	Manhole	S158P002	48.83	44,100	Storm Ditch	Wet Weather
58	06-Feb-20	2:00 PM	1511 Riverview Rd	Manhole	S136H417	235.75	353,625	Tennessee River	Wet Weather
59	06-Feb-20	2:00 PM	406 Brown Rd	Manhole	S158O004	36.50	14,000	South Chickamauga Creek	Wet Weather
60	06-Feb-20	2:30 PM	Stratton Place Dr	Manhole	S158M009	35.50	23,040	Mackey Branch	Wet Weather
61	06-Feb-20	4:00 PM	4300 Lonsdale Dr	Manhole	S157J104	19.00	22,800	Storm Drain	Wet Weather
62 ¹	06-Feb-20	4:00 PM	6695 Hickory Brook Dr	Manhole	S138M082	17.50	10,200	Storm Drain	Wet Weather
63	06-Feb-20	4:30 PM	5466 Longview Dr	Manhole	S100K027	39.50	48,000	North Chickamauga Creek	Wet Weather
64	07-Feb-20	9:15 AM	455 Moccasin Bend Rd.	Manhole	S135P254	0.42	40	Storm Drain	Wet Weather
65	07-Feb-20	9:30 AM	2003 Curtain Pole Rd	Manhole	S136G004	52.92	77,000	Tennessee River	Wet Weather
66	07-Feb-20	9:30 AM	1096 Lupton Dr	Manhole	S118N009	26.00	4,500	Tennessee River	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
67	07-Feb-20	10:00 AM	3816 Fagan St (Pump Station)	Manhole	S167D046	23.00	44,160	Chattanooga Creek	Wet Weather
68	07-Feb-20	12:30 PM	713 Pineville Rd	Manhole	S135G033	48.50	460,800	Storm Drain	Wet Weather
69	07-Feb-20	1:00 PM	600 River St	Manhole	S135L005	22.25	11,880	Tennessee River	Wet Weather
70	07-Feb-20	2:30 PM	5105 N Moore Rd	Manhole	S157D013	19.25	114,000	Storm Drain	Wet Weather
71	07-Feb-20	3:00 PM	8395 Morin Rd	Manhole	S159J003	22.00	13,200	Mackey Branch	Wet Weather
72	10-Feb-20	8:30 AM	713 Pineville Rd	Manhole	S135G033	24.00	436,500	Storm Drain	Wet Weather
73	10-Feb-20	9:00 AM	914 Sterling Ave	Manhole	S136H107	144.50	505,500	Tennessee River	Wet Weather
74	10-Feb-20	11:19 AM	3816 Fagan St (Pump Station)	Manhole	S167D046	92.68	279,950	Chattanooga Creek	Wet Weather
75	10-Feb-20	12:16 PM	1610 Elm St (DuPont PS)	Manhole	S118E057	107.23	50,250	Tennessee River	Wet Weather
76 ¹	10-Feb-20	12:56 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F058	44.07	312,300	Storm Drain	Wet Weather
77 ¹	10-Feb-20	1:30 PM	5009 Creekside Preserve	Other	UNK ²	140.50	126,450	North Chickamauga Creek	Wet Weather
78	10-Feb-20	2:30 PM	Wilcox Blvd & Shallowford Rd	Manhole	S147F015	42.00	25,200	South Chickamauga Creek	Wet Weather
79	10-Feb-20	5:15 PM	1022 Shallowford Rd	Manhole	S147G104	39.25	117,750	South Chickamauga Creek	Wet Weather
80	10-Feb-20	5:30 PM	2109 Lynnbrook Ave	Manhole	S156G048	35.50	53,250	Dobbs Branch	Wet Weather
81	10-Feb-20	5:30 PM	3857 Birmingham Dr	Manhole	S118D128	35.50	15,450	Tennessee River	Wet Weather
82	10-Feb-20	6:30 PM	2914 Hamill Rd	Manhole	S110F014	112.50	356,400	North Chickamauga Creek	Wet Weather
83	11-Feb-20	8:00 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	15.50	93,000	Tennessee River	Wet Weather
84	11-Feb-20	8:30 AM	900 Terrace Ave	Manhole	S136A133	3.75	1,125	Storm Drain	Wet Weather
85	11-Feb-20	8:30 AM	1308 Hanover Street	Manhole	S136A140	3.75	11,250	Storm Drain	Wet Weather
86	11-Feb-20	9:00 AM	511 W 38th St	Manhole	S155N049	22.50	1,350	Storm Drain	Wet Weather
87 ¹	11-Feb-20	9:00 AM	640 Lupton Dr	Manhole	S118G087	23.50	64,170	Storm Ditch	Wet Weather
88	11-Feb-20	9:15 AM	3728 Wilcox Blvd	Manhole	S147B301	23.25	2,802	Storm Ditch	Wet Weather
89 ¹	11-Feb-20	9:30 AM	6695 Hickory Brook Dr	Manhole	S138M082	23.00	51,600	Storm Drain	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
90	11-Feb-20	9:45 AM	1722 Strawberry Ln	Manhole	S110I450	24.00	7,200	Storm Drain	Wet Weather
91	11-Feb-20	11:00 AM	5441 Longview Dr	Manhole	S100O005	73.00	439,500	North Chickamauga Creek	Wet Weather
92 ¹	11-Feb-20	11:30 AM	2001 S Kelley St	Manhole	S156G030	17.50	29,400	Dobbs Branch	Wet Weather
93	11-Feb-20	1:45 PM	149 Baylor School Rd	Manhole	S126G023	95.25	228,600	Storm Drain	Wet Weather
94	12-Feb-20	9:00 AM	7139 Robin Ln	Manhole	S139P005	UNK ²	25,000	Storm Drain	Wet Weather
95	13-Feb-20	12:30 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	18.50	27,750	Tennessee River	Wet Weather
96 ¹	13-Feb-20	6:00 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F058	26.00	186,000	Storm Drain	Wet Weather
97	13-Feb-20	8:15 AM	900 Terrace Ave	Manhole	S136A133	5.75	630	Storm Drain	Wet Weather
98	13-Feb-20	8:30 AM	1308 Hanover St	Manhole	S136A140	23.50	2,820	Storm Drain	Wet Weather
99 ¹	13-Feb-20	8:45 AM	621 Lupton Dr	Manhole	S118G077	23.25	85,095	Storm Ditch	Wet Weather
100	13-Feb-20	9:00 AM	1722 Strawberry Ln	Manhole	S110I450	4.75	810	Storm Drain	Wet Weather
101	13-Feb-20	9:15 AM	3728 Wilcox Blvd	Manhole	S147B301	23.75	7,125	Storm Ditch	Wet Weather
102	13-Feb-20	9:15 AM	1022 Shallowford Rd	Manhole	S147G104	23.75	285,000	South Chickamauga Creek	Wet Weather
103	13-Feb-20	9:15 AM	3950 Brainerd Road	Manhole	S157H003	23.75	35,625	Storm Drain	Wet Weather
104 ¹	13-Feb-20	9:30 AM	3812 Provence	Manhole	S157H604	23.50	296,100	Storm Drain	Wet Weather
105	13-Feb-20	9:30 AM	3649 Brainerd Rd	Manhole	S157A011	23.50	70,500	Storm Drain	Wet Weather
106 ¹	13-Feb-20	9:30 AM	25 S. Germantown Rd	Manhole	S157A056	23.50	176,250	Storm Drain	Wet Weather
107	13-Feb-20	9:30 AM	0 Aim Way	Manhole	S157H046	23.50	141,000	Storm Drain	Wet Weather
108 ¹	13-Feb-20	10:00 AM	6695 Hickory Brook Dr	Manhole	S138M082	23.50	38,070	Storm Drain	Wet Weather
109 ¹	13-Feb-20	11:00 AM	1820 E 23rd St	Manhole	S156G049	21.50	64,500	Dobbs Branch	Wet Weather
110	13-Feb-20	11:00 AM	1900 E 25th St	Manhole	S156J051	22.00	3,840	Storm Drain	Wet Weather
111 ¹	13-Feb-20	11:00 AM	2001 S Kelley St	Manhole	S156G030	21.50	19,350	Dobbs Branch	Wet Weather
112	13-Feb-20	2:00 PM	6854 Robin Dr	Manhole	S139P062	21.00	1,260	Storm Drain	Wet Weather
113	17-Feb-20	8:00 AM	3510 Central Ave	Manhole	S155M029	UNK ²	750	Storm Drain	Blockage - Trash/Debris
114	17-Feb-20	9:00 AM	4310 Distribution Dr	Manhole	S129N099	UNK ²	2,000	Storm Drain	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
115	17-Feb-20	11:00 AM	1716 Edgehill St	Manhole	S126L004	4.00	1,200	Storm Drain	Blockage - Roots
116	18-Feb-20	8:00 AM	5120 Eldridge RD	Manhole	S099M074	1.83	300	Storm Ditch	Blockage - Trash/Debris
117	18-Feb-20	4:00 PM	End of MLK BLVD (East Bank)	Manhole	S135O547	50.92	4,981,027	Tennessee River	Wet Weather
118	18-Feb-20	6:30 PM	3150 Central Ave	Manhole	S155M029	2.00	1,200	Storm Drain	Blockage - Grease
119	24-Feb-20	10:30 PM	5203 Old Mission Rd (Golf Course PS)	Manhole	S157K070	10.00	30,000	South Chickamauga Creek	Wet Weather
120	25-Feb-20	9:00 AM	1020 Lupton Dr	Manhole	S118K006	23.00	207,000	Tennessee River	Wet Weather
121	02-Mar-20	9:30 AM	4342 Sunset Ave	Main Line	UNK ²	4.50	100	Land*	Break
122	03-Mar-20	2:30 PM	1020 Lupton Dr	Manhole	S118K006	22.50	133,500	Tennessee River	Wet Weather
123	04-Mar-20	9:00 AM	1620 Edgewood Cir	Manhole	S127O057	2.00	600	Storm Drain	Blockage - General
124	10-Mar-20	1:30 PM	212 Bass Rd	Manhole	S158I067	UNK ²	10,000	South Chickamauga Creek	Wet Weather
125	12-Mar-20	9:45 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	3.83	2,409,611	Tennessee River	Power Failure from Power Source
126 ¹	17-Mar-20	12:30 PM	406 Brown Rd	Manhole	S158I059	21.28	2,500	South Chickamauga Creek	Wet Weather
127	17-Mar-20	12:30 PM	406 Brown Rd	Manhole	S158O004	21.28	1,250	South Chickamauga Creek	Wet Weather
128	17-Mar-20	2:30 PM	4700 Shallowford Rd	Manhole	S148A011	18.50	1,110	South Chickamauga Creek	Wet Weather
129	23-Mar-20	8:15 AM	914 Sterling Ave	Manhole	S136H107	96.75	1,451,250	Tennessee River	Wet Weather
130	23-Mar-20	8:30 AM	1308 Hanover Street	Manhole	S136A140	50.00	300,000	Storm Drain	Wet Weather
131	23-Mar-20	8:45 AM	1020 Lupton Dr	Manhole	S118K006	119.25	1,788,750	Tennessee River	Wet Weather
132 ¹	23-Mar-20	8:45 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	70.75	323,025	Tennessee River	Wet Weather
133 ¹	23-Mar-20	9:00 AM	1820 E 23rd St	Manhole	S156G049	48.00	216,000	Dobbs Branch	Wet Weather
134	23-Mar-20	9:00 AM	5302 Old Mission Rd	Manhole	S157K058	71.50	70,500	Storm Drain	Wet Weather
135 ¹	23-Mar-20	9:00 AM	2001 S Kelley St	Manhole	S156G030	48.00	187,200	Dobbs Branch	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
136 ¹	23-Mar-20	9:00 AM	2914 Hamill Rd	Manhole	S110F014	97.50	1,023,750	North Chickamauga Creek	Wet Weather
137	23-Mar-20	9:20 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	109.83	11,119,940	Tennessee River	Wet Weather
138	23-Mar-20	9:30 AM	1722 Strawberry Ln	Manhole	S110I450	50.50	151,500	Storm Drain	Wet Weather
139	23-Mar-20	9:30 AM	Wilcox Blvd & Shallowford Rd	Manhole	S147F015	52.50	787,500	South Chickamauga Creek	Wet Weather
140 ¹	23-Mar-20	9:30 AM	640 Lupton Dr	Manhole	S118G087	74.50	785,800	Storm Ditch	Wet Weather
141	23-Mar-20	9:30 AM	3728 Wilcox Blvd	Manhole	S147B301	52.50	78,750	Storm Ditch	Wet Weather
142	23-Mar-20	9:30 AM	4700 Shallowford Rd	Manhole	S148A011	101.00	1,515,000	South Chickamauga Creek	Wet Weather
143 ¹	23-Mar-20	9:30 AM	1900 E 25th St	Manhole	S156J057	47.50	70,500	Storm Drain	Wet Weather
144	23-Mar-20	9:30 AM	1022 Shallowford Rd	Manhole	S147G104	53.00	477,000	South Chickamauga Creek	Wet Weather
145	23-Mar-20	9:30 AM	3605 Monte Vista Dr	Manhole	S157H050	48.00	72,000	Storm Drain	Wet Weather
146 ¹	23-Mar-20	10:00 AM	3812 Provence	Manhole	S157H604	70.50	1,269,000	Storm Drain	Wet Weather
147 ¹	23-Mar-20	10:00 AM	406 Brown Rd	Manhole	S158I059	71.50	17,240	South Chickamauga Creek	Wet Weather
148	23-Mar-20	10:00 AM	406 Brown Rd	Manhole	S158O004	71.50	107,750	South Chickamauga Creek	Wet Weather
149	23-Mar-20	10:00 AM	0 Aim Way	Manhole	S157H046	47.50	352,500	Storm Drain	Wet Weather
150	23-Mar-20	10:30 AM	3857 Birmingham Dr	Manhole	S118D128	50.50	452,250	Tennessee River	Wet Weather
151	23-Mar-20	11:00 AM	3649 Brainerd Rd	Manhole	S157A011	46.50	69,750	Storm Drain	Wet Weather
152 ¹	23-Mar-20	11:00 AM	25 S. Germantown Rd	Manhole	S157A056	46.50	209,250	Storm Drain	Wet Weather
153	23-Mar-20	11:00 AM	520 Airport Rd	Manhole	S158A019	71.00	426,000	Storm Drain	Wet Weather
154	23-Mar-20	11:30 AM	3816 Fagan St (Pump Station)	Manhole	S167D046	756.50	3,750	Chattanooga Creek	Wet Weather
155	23-Mar-20	12:30 PM	511 West 38th St	Manhole	S155N049	46.50	5,650	Storm Drain	Wet Weather
156	23-Mar-20	12:30 PM	100 West 38th Street	Manhole	S155N071	68.00	40,900	Storm Ditch	Wet Weather
157	23-Mar-20	12:30 PM	149 Baylor School Rd	Manhole	S126G023	53.50	3,195	Storm Drain	Wet Weather
158	23-Mar-20	1:30 PM	1001 Dartmouth St	Manhole	S127P060	48.00	432,000	Storm Drain	Wet Weather
159	23-Mar-20	1:30 PM	Stratton Place Dr	Manhole	S158M009	68.25	4,565	Mackey Branch	Wet Weather

**Table 2-1
Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
160	23-Mar-20	2:30 PM	6854 Robin Dr	Manhole	S139P062	46.00	2,760	Storm Drain	Wet Weather
161 ¹	23-Mar-20	2:30 PM	6695 Hickory Brook Dr	Manhole	S138M082	44.50	13,500	Storm Drain	Wet Weather
162	23-Mar-20	5:00 PM	941 Riverside Dr (Citico PS)	Manhole	S136P605	19.00	2,280	Tennessee River	Wet Weather
163	23-Mar-20	6:00 PM	5128 Delashmitt Rd	Manhole	S099N001	1.00	12,000	Storm Drain	Blockage - Trash/Debris
164	24-Mar-20	9:30 AM	8310 Igou Gap Rd	Manhole	S159F042	192.00	2,951,250	Storm Ditch	Wet Weather
165	24-Mar-20	1:00 PM	6078 Arlena Cr	Manhole	S138O011	22.00	2,640	Storm Drain	Wet Weather
166	24-Mar-20	2:00 PM	1001 Airport Rd	Manhole	S157E016	70.00	1,050,000	Storm Drain	Wet Weather
167	24-Mar-20	7:00 PM	914 Clarendon St	Manhole	S127P062	1.00	10	Storm Drain	Blockage - Roots
168	24-Mar-20	10:40 PM	End of MLK BLVD (East Bank)	Manhole	S135O547	43.08	4,966,864	Tennessee River	Wet Weather
169 ¹	25-Mar-20	12:30 AM	5203 Old Mission Rd.(Brainerd Golf Course)	Manhole	S157F058	21.50	174,900	Storm Drain	Wet Weather
170 ¹	25-Mar-20	1:00 PM	5466 Longview Dr	Manhole	S100K027	44.00	528,000	North Chickamauga Creek	Wet Weather
171	25-Mar-20	2:00 PM	1100 Lupton Dr	Manhole	S118L002	66.00	990,000	Tennessee River	Wet Weather
172	25-Mar-20	3:00 PM	1251 Carter Lake Rd	Manhole	S127G010	47.00	14,100	Storm Ditch	Wet Weather

¹ Common cause, within 500 yards of separate event.

² This information was not available at time of reporting.

* Did not reach waters of the United States

3.0 Moccasin Bend WWTP Bypasses

The CD sets forth the same definition for bypass as the EPA's regulations at 40 C.F.R. § 122.41(m), which defines a bypass as the intentional diversion of waste streams from any portion of a treatment facility. The City's current NPDES permit defines a bypass as the intentional diversion of wastewater away from any portion of a treatment facility other than through peak excess flow treatment facilities or permitted outfalls in accordance with both the long-term control plan and the nine minimum technology-based effluent controls for combined sewer systems. The City reports bypasses and wet weather discharges separately on the monthly Discharge Monitoring Reports, as a discharge from the City's permitted wet weather discharge is not a bypass under the City's current NPDES permit. Based on the foregoing, the WWTP experienced no bypasses during the reporting period of January 1, 2020 through March 31, 2020.

4.0 CSO Outfall Discharges

For the reporting period of January 1, 2020 through March 31, 2020, Chattanooga experienced CSO discharges from CSO outfall treatment facilities as listed in Table 4-1. Paragraph 8.(h) of the CD defines a CSO as “any discharge from the CSS from any outfall currently identified, or identified in the future, as a permitted combined sewer overflow outfall in any Chattanooga NPDES permit from which CSOs are discharged to waters of the United States or the State.” The CSS is defined as the portion of Chattanooga’s wastewater collection and transmission system (“WCTS”) designed to convey municipal sewage (domestic, commercial and industrial wastewaters) and storm water runoff through a single-pipe system to Chattanooga’s WWTP or CSO outfalls. Chattanooga operates eight (8) permitted CSO outfall treatment facilities, eight (8) of which discharged during the reporting period.

**Table 4-1
Quarterly CSO Outfall Discharge Report**

January 1, 2020 – March 31, 2020						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
02-Jan-20	6:13 PM	Tremont CSO (005)	41.92	3.100956	Tennessee River	Rain Event
02-Jan-20	6:58 PM	ML King CSO (007)	26.69	2.687316	Tennessee River	Rain Event
02-Jan-20	7:11 PM	19th St CSO (008)	4.08	0.875058	Tennessee River	Rain Event
02-Jan-20	7:30 PM	Carter St CSO (009)	9.75	4.552526	Tennessee River	Rain Event
02-Jan-20	7:33 PM	Citico CSO (004)	64.63	17.747396	Tennessee River	Rain Event
02-Jan-20	7:47 PM	Central Ave CSO (002)	20.68	17.462284	Tennessee River	Rain Event
02-Jan-20	8:00 PM	Ross's Landing CSO (006)	4.2	3.088120	Tennessee River	Rain Event
02-Jan-20	9:28 PM	Williams St CSO (003)	55.62	3.803532	Tennessee River	Rain Event
11-Jan-20	4:49 PM	Tremont CSO (005)	0.88	0.059371	Tennessee River	Rain Event
11-Jan-20	5:53 PM	ML King CSO (007)	3.92	0.084131	Tennessee River	Rain Event
14-Jan-20	6:46 AM	Tremont CSO (005)	4.23	0.697337	Tennessee River	Rain Event
14-Jan-20	7:15 AM	Carter St CSO (009)	31.36	30.672801	Tennessee River	Rain Event
14-Jan-20	7:18 AM	Citico CSO (004)	51.01	7.786834	Tennessee River	Rain Event
14-Jan-20	7:20 AM	Ross's Landing CSO (006)	1.37	0.712716	Tennessee River	Rain Event
14-Jan-20	7:49 AM	19th St CSO (008)	1.95	0.242701	Tennessee River	Rain Event
14-Jan-20	9:02 AM	Central Ave CSO (002)	15.4	3.511700	Tennessee River	Rain Event
05-Feb-20	12:06 PM	Tremont CSO (005)	23.93	6.270174	Tennessee River	Rain Event
05-Feb-20	12:13 PM	ML King CSO (007)	26.05	6.467356	Tennessee River	Rain Event
05-Feb-20	12:19 PM	Citico CSO (004)	23.2	23.427819	Tennessee River	Rain Event
05-Feb-20	12:20 PM	19th St CSO (008)	15.23	5.488713	Tennessee River	Rain Event
05-Feb-20	12:27 PM	Carter St CSO (009)	26.15	33.102232	Tennessee River	Rain Event
05-Feb-20	12:44 PM	Ross's Landing CSO (006)	1.3	3.845736	Tennessee River	Rain Event
05-Feb-20	5:20 AM	Williams St CSO (003)	42.1	4.194	Tennessee River	Rain Event
05-Feb-20	1:51 PM	Central Ave CSO (002)	11.1	8.109103	Tennessee River	Rain Event
06-Feb-20	3:42 AM	Ross's Landing CSO (006)	7.82	7.472618	Tennessee River	Rain Event

Table 4-1
Quarterly CSO Outfall Discharge Report

January 1, 2020 – March 31, 2020						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
07-Feb-20	1:39 AM	19th St CSO (008)	2.35	0.160405	Tennessee River	Rain Event
08-Feb-20	12:15 PM	Williams St CSO (003)	3.4	0.099	Tennessee River	Rain Event
10-Feb-20	6:15 AM	Williams St CSO (003)	93.8	6.733	Tennessee River	Rain Event
10-Feb-20	10:40 AM	Ross's Landing CSO (006)	14.25	8.780942	Tennessee River	Rain Event
12-Feb-20	9:16 PM	Tremont CSO (005)	13.37	2.137110	Tennessee River	Rain Event
12-Feb-20	9:38 PM	Ross's Landing CSO (006)	7.45	6.873407	Tennessee River	Rain Event
18-Feb-20	7:25 AM	Williams St CSO (003)	10.2	0.422	Tennessee River	Rain Event
20-Feb-20	10:20 AM	Williams St CSO (003)	28.3	0.378	Tennessee River	Rain Event
24-Feb-20	2:06 PM	19th St CSO (008)	3	0.690922	Tennessee River	Rain Event
02-Mar-20	11:53 AM	ML King CSO (007)	4.98	0.202738	Tennessee River	Rain Event
03-Mar-20	8:15 AM	19th St CSO (008)	1.37	0.345231	Tennessee River	Rain Event
03-Mar-20	8:17 AM	ML King CSO (007)	8.28	0.912313	Tennessee River	Rain Event
03-Mar-20	8:50 AM	Tremont CSO (005)	0.68	0.225375	Tennessee River	Rain Event
03-Mar-20	8:50 AM	Carter St CSO (009)	3.97	3.281117	Tennessee River	Rain Event
16-Mar-20	7:03 PM	Citico CSO (004)	3.2	1.407187	Tennessee River	Rain Event
17-Mar-20	9:17 AM	19th St CSO (008)	0.98	0.121227	Tennessee River	Rain Event
17-Mar-20	9:25 AM	Tremont CSO (005)	0.77	0.171476	Tennessee River	Rain Event
17-Mar-20	9:57 AM	Central Ave CSO (002)	5.2	2.133497	Tennessee River	Rain Event
17-Mar-20	12:02 PM	ML King CSO (007)	2.28	0.015049	Tennessee River	Rain Event
20-Mar-20	4:45 PM	Carter St CSO (009)	6.7	2.490865	Tennessee River	Rain Event
20-Mar-20	5:51 PM	19th St CSO (008)	0.8	0.017324	Tennessee River	Rain Event
20-Mar-20	6:56 PM	Central Ave CSO (002)	54.62	15.875595	Tennessee River	Rain Event
20-Mar-20	7:47 PM	Tremont CSO (005)	3.87	0.499188	Tennessee River	Rain Event
20-Mar-20	9:14 PM	Citico CSO (004)	24.9	14.396984	Tennessee River	Rain Event
23-Mar-20	4:31 AM	Tremont CSO (005)	12.85	3.447317	Tennessee River	Rain Event

Table 4-1
Quarterly CSO Outfall Discharge Report

January 1, 2020 – March 31, 2020						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
23-Mar-20	4:59 AM	19th St CSO (008)	5.62	1.641152	Tennessee River	Rain Event
23-Mar-20	5:04 AM	Citico CSO (004)	16.1	8.079769	Tennessee River	Rain Event
23-Mar-20	6:24 AM	Carter St CSO (009)	26.88	17.006317	Tennessee River	Rain Event
23-Mar-20	6:48 AM	Ross's Landing CSO (006)	4.23	6.516228	Tennessee River	Rain Event
23-Mar-20	9:44 AM	ML King CSO (007)	7.8	0.295855	Tennessee River	Rain Event