



City of Chattanooga

Mayor Andy Berke

October 25, 2018

VIA CERTIFIED MAIL

Ms. Sara Janovitz
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. 21 – July 2018 to September 2018**

Dear Ms. Janovitz:


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-first 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.

Ms. Sara Janovitz
October 25, 2018
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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
Bill Bush, 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. 21

July 1, 2018 – September 30, 2018

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

October 25, 2018

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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.21 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 July 1, 2018 through September 30, 2018, 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.”

**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	05-Jul-18	2:40 PM	1609 S Orchard Knob Ave	Main Line	N/A	UNK ²	1,500	Storm Drain	Break
2	08-Jul-18	3:00 PM	5626 Grubb Rd	Main Line	N/A	49.00	850	North Chickamauga Creek	Break
3	17-Jul-18	11:00 AM	115 Frazier Ave	Main Line	N/A	235.00	1,500	Storm Drain	Defect(s)
4	23-Aug-18	12:00 PM	3817 Grace Ave	Manhole	S128H012	1.00	100	Storm Drain	Blockage - Roots
5	31-Aug-18	12:40 PM	3207 Hixson Pike	Manhole	S118J143	UNK ²	3,500	Storm Drain	Blockage - Roots
6 ¹	10-Sep-18	4:00 PM	3055 Hickory Valley Rd	Manhole	S130P018	3.50	4,500	Storm Drain	Blockage - Trash/Debris
7	19-Sep-18	3:20 PM	455 Moccasin Bend Rd	Pump Station	UNK ²	0.05	115,000	Storm Drain	Pump Station - Electrical Failure
8	25-Sep-18	12:00 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	98.17	42,376,000	Tennessee River	Wet Weather
9	25-Sep-18	1:15 AM	929 Riverside Dr (Citico PS)	Manhole	S136P605	83.08	1,263,750	Tennessee River	Wet Weather
10	25-Sep-18	2:15 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	6.62	51,700	Tennessee River	Wet Weather
11 ¹	25-Sep-18	7:30 AM	1033 Lupton Dr	Manhole	S118K036	151.00	4,485,000	Tennessee River	Wet Weather
12 ¹	25-Sep-18	7:30 AM	634 Lupton Dr	Manhole	S118G087	102.25	122,500	Storm Drain	Wet Weather
13	25-Sep-18	10:14 AM	3857 Birmingham Dr	Manhole	S118D128	147.77	490,000	Tennessee River	Wet Weather
14 ¹	25-Sep-18	10:20 AM	6695 Hickory Brook Rd	Manhole	S138M082	95.67	92,000	Storm Drain	Wet Weather
15 ¹	25-Sep-18	10:45 AM	406 Brown Rd	Manhole	S158O004	93.75	1,800,000	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
16	25-Sep-18	10:45 AM	406 Brown Rd	Manhole	S158I060	93.75	1,450,000	South Chickamauga Creek	Wet Weather
17	25-Sep-18	11:30 AM	Stratton Place Dr	Manhole	S158M009	2.50	3,750	Mackey Branch	Wet Weather
18	25-Sep-18	12:00 PM	914 Sterling Ave	Manhole	S136H107	146.00	1,450,000	Tennessee River	Wet Weather
19 ¹	25-Sep-18	12:30 PM	3910 Juandale Trl	Manhole	S137N040	72.50	174,000	South Chickamauga Creek	Wet Weather
20 ¹	25-Sep-18	1:00 PM	2914 Hamill Rd	Manhole	S110F014	94.00	830,000	North Chickamauga Creek	Wet Weather
21	25-Sep-18	1:00 PM	4134 Hixson Pike	Manhole	S118D102	21.25	12,500	Storm Drain	Wet Weather
22	25-Sep-18	1:30 PM	1022 Shallowford Rd	Manhole	S147G104	19.50	95,000	South Chickamauga Creek	Wet Weather
23 ¹	25-Sep-18	2:45 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P016	69.08	983,500	Tennessee River	Wet Weather
24	26-Sep-18	3:15 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	48.00	216,000	Tennessee River	Wet Weather
25	26-Sep-18	5:00 AM	2109 Lynnbrook Ave	Manhole	S156G048	48.00	75,000	Dobbs Branch	Wet Weather
26 ¹	26-Sep-18	5:00 AM	2001 S Kelly St	Manhole	S156G030	48.00	14,500	Storm Drain	Wet Weather
27 ¹	26-Sep-18	10:00 AM	1722 Strawberry Ln	Manhole	S110I038	48.00	250,000	Storm Drain	Wet Weather
28 ¹	26-Sep-18	10:30 AM	1900 E 25th St Place	Manhole	S156J057	42.50	15,000	Storm Drain	Wet Weather
29 ¹	26-Sep-18	10:45 AM	5466 Longview Dr	Manhole	S100K027	72.50	392,000	North Chickamauga Creek	Wet Weather
30	26-Sep-18	11:00 AM	3728 Wilcox Blvd (rear)	Manhole	S147B301	69.00	62,000	Storm Drain	Wet Weather
31	26-Sep-18	3:30 PM	1003 Dartmouth St.	Manhole	S127P060	41.50	85,000	Storm Drain	Wet Weather
32	26-Sep-18	4:00 PM	2708 Haywood Ave	Manhole	S127A008	40.77	15,000	Storm Drain	Wet Weather
33	26-Sep-18	4:30 PM	1114 Plaza Dr	Manhole	S109M084	40.27	24,200	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
34	26-Sep-18	5:15 PM	1609 S Orchard Knob Ave	Manhole	Unassigned	88.00	468,000	Storm Drain	Wet Weather
35	26-Sep-18	7:00 PM	4909 Meadow Trace Ln	Manhole	S110J043	62.00	111,000	Storm Drain	Wet Weather
36	27-Sep-18	10:00 AM	Wilcox Blvd & Shallowford Rd	Manhole	S147F015	28.00	25,000	Storm Drain	Wet Weather
37	27-Sep-18	12:00 PM	6748 Sandwitch Rd	Service Line	N/A	122.00	256,000	North Chickamauga Creek	Wet Weather
38	27-Sep-18	4:00 PM	Terrace Ave & Young Ave	Manhole	S136A130	16.57	100,000	Tennessee River	Wet Weather
39	27-Sep-18	4:00 PM	0 Aim Way	Manhole	S157H046	18.50	75,000	Storm Drain	Wet Weather
40 ¹	27-Sep-18	4:30 PM	1306 Hanover Street	Manhole	S136A143	16.00	100,000	Storm Drain	Wet Weather
41	27-Sep-18	5:35 PM	End of MLK BLVD (East Bank)	Manhole	S135O547	1.75	53,000	Tennessee River	Wet Weather
42	28-Sep-18	10:07 AM	4134 Hixson Pike	Manhole	S118D102	30.88	13,000	Storm Drain	Wet Weather
43 ¹	28-Sep-18	2:00 PM	5014 Creekside Preserve	Service Line	N/A	21.00	45,000	North Chickamauga Creek	Wet Weather

¹ Common Cause, within 500 yards of separate event

² This information was not available at time of reporting.

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 July 1, 2018 through September 30, 2018.

4.0 CSO Outfall Discharges

For the reporting period of July 1, 2018 through September 30, 2018 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**

July 1, 2018 – September 30, 2018						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
1-Jul-18	0:00	Central Ave. CSO (002)	13.53	0.020318	Tennessee River	Rain Event
2-July thru 3-July	10:12	Central Ave. CSO (002)	23.83	0.150633	Tennessee River	Rain Event
5-Jul-18	7:48	Central Ave. CSO (002)	3.85	0.002409	Tennessee River	Rain Event
5-Jul-18	15:05	19th St. CSO (008)	0.78	0.076147	Tennessee River	Rain Event
15-July thru 16-July	16:15	Central Ave. CSO (002)	17.46	9.992498	Tennessee River	Rain Event
15-Jul-18	16:03	Ross's Landing CSO (006)	0.32	0.116209	Tennessee River	Rain Event
15-Jul-18	15:31	ML King CSO (007)	2.85	0.663839	Tennessee River	Rain Event
15-Jul-18	15:46	19th St. CSO (008)	1.57	0.175536	Tennessee River	Rain Event
15-Jul-18	15:09	Carter St. CSO (009)	3.57	2.561118	Tennessee River	Rain Event
17-July thru 18-July	4:07	Central Ave. CSO (002)	40.34	2.011698	Tennessee River	Rain Event
17-Jul-18	18:01	Citico CSO (004)	1.33	0.051734	Tennessee River	Rain Event
17-Jul-18	17:01	Tremont CSO (005)	0.50	0.474970	Tennessee River	Rain Event
17-July thru 19-July	17:48	ML King CSO (007)	48.21	0.063091	Tennessee River	Rain Event
19-Jul-18	11:27	Central Ave. CSO (002)	4.15	0.015965	Tennessee River	Rain Event
21-July thru 22-July	6:01	Central Ave. CSO (002)	27.69	3.045030	Tennessee River	Rain Event
21-Jul-18	5:08	Citico CSO (004)	0.37	0.282190	Tennessee River	Rain Event
21-Jul-18	4:33	Tremont CSO (005)	0.47	0.358440	Tennessee River	Rain Event
21-Jul-18	4:59	Ross's Landing CSO (006)	0.68	0.906753	Tennessee River	Rain Event
21-Jul-18	4:45	ML King CSO (007)	3.43	0.596304	Tennessee River	Rain Event

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

July 1, 2018 – September 30, 2018						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
21-Jul-18	4:54	19th St. CSO (008)	1.20	0.431355	Tennessee River	Rain Event
21-Jul-18	4:54	Carter St. CSO (009)	2.03	1.337779	Tennessee River	Rain Event
23-Jul-18	4:19	Central Ave. CSO (002)	11.15	0.008449	Tennessee River	Rain Event
1-Aug thru 6-Aug	19:53	Central Ave. CSO (002)	98.90	5.838280	Tennessee River	Rain Event
1-Aug-18	15:21	ML King CSO (007)	0.90	0.051249	Tennessee River	Rain Event
1-Aug-18	12:04	Carter St. CSO (009)	0.72	0.033107	Tennessee River	Rain Event
2-Aug-18	10:09	Tremont CSO (005)	0.32	0.036977	Tennessee River	Rain Event
2-Aug-18	10:09	19th St. CSO (008)	0.48	0.028752	Tennessee River	Rain Event
2-Aug-18	9:57	Carter St. CSO (009)	1.93	0.799508	Tennessee River	Rain Event
17-Aug thru 18-Aug	22:51	Central Ave. CSO (002)	22.33	6.294272	Tennessee River	Rain Event
17-Aug-18	21:42	Citico CSO (004)	1.00	0.648954	Tennessee River	Rain Event
17-Aug-18	21:06	Tremont CSO (005)	1.53	0.472501	Tennessee River	Rain Event
17-Aug-18	21:33	Ross's Landing CSO (006)	1.82	0.004823	Tennessee River	Rain Event
17-Aug thru 18-Aug	21:12	ML King CSO (007)	8.06	1.333230	Tennessee River	Rain Event
17-Aug thru 18-Aug	21:48	19th St. CSO (008)	2.23	0.705067	Tennessee River	Rain Event
17-Aug thru 18-Aug	21:39	Carter St. CSO (009)	3.11	2.631299	Tennessee River	Rain Event
30-Aug-18	22:23	Tremont CSO (005)	1.13	1.403949	Tennessee River	Rain Event
30-Aug-18	22:51	ML King CSO (007)	1.15	1.064098	Tennessee River	Rain Event
30-Aug thru 31-Aug	23:13	19th St. CSO (008)	1.98	1.502330	Tennessee River	Rain Event

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

July 1, 2018 – September 30, 2018						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
30-Aug thru 31-Aug	22:56	Carter St. CSO (009)	3.05	2.289634	Tennessee River	Rain Event
31-Aug-18	1:33	Central Ave. CSO (002)	22.37	2.562274	Tennessee River	Rain Event
1-Sep-18	0:01	Central Ave. CSO (002)	7.73	0.059937	Tennessee River	Rain Event
10-Sep-18	8:56	Carter St. CSO (009)	0.82	1.108349	Tennessee River	Rain Event
12-Sept thru 14-Sept	8:30	ML King CSO (007)	6.87	0.351414	Tennessee River	Rain Event
12-Sep-18	17:21	Carter St. CSO (009)	0.48	0.035019	Tennessee River	Rain Event
24-Sept thru 26-Sept	13:41	Central Ave. CSO (002)	55.66	50.293340	Tennessee River	Rain Event
24-Sept thru 26-Sept	19:59	William's St. CSO (003)	43.40	4.244265	Tennessee River	Rain Event
24-Sept thru 26-Sept	13:41	Citico CSO (004)	39.99	9.403794	Tennessee River	Rain Event
24-Sept thru 26-Sept	15:38	Tremont CSO (005)	19.67	5.274265	Tennessee River	Rain Event
24-Sept thru 25-Sept	13:09	Ross's Landing CSO (006)	5.05	8.396287	Tennessee River	Rain Event
24-Sept thru 30-Sept	12:40	ML King CSO (007)	99.98	9.737759	Tennessee River	Rain Event
24-Sept thru 25-Sept	12:48	19th St. CSO (008)	7.85	2.054683	Tennessee River	Rain Event
24-Sept thru 30-Sept	12:20	Carter St. CSO (009)	111.04	85.163663	Tennessee River	Rain Event
26-Sep-18	2:39	Ross's Landing CSO (006)	2.12	3.583895	Tennessee River	Rain Event
26-Sep-18	0:50	19th St. CSO (008)	4.48	1.022803	Tennessee River	Rain Event
27-Sept thru 29-Sept	8:30	William's St. CSO (003)	63.45	2.895303	Tennessee River	Rain Event
27-Sept thru 30-Sept	11:22	Citico CSO (004)	84.63	14.505458	Tennessee River	Rain Event
27-Sep-18	12:43	Tremont CSO (005)	8.67	1.763430	Tennessee River	Rain Event

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

July 1, 2018 – September 30, 2018						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
27-Sep-18	14:03	Ross's Landing CSO (006)	3.33	2.128037	Tennessee River	Rain Event
27-Sep-18	5:54	19th St. CSO (008)	5.35	2.397062	Tennessee River	Rain Event
28-Sep-18	5:27	19th St. CSO (008)	0.12	0.004717	Tennessee River	Rain Event
29-Sept thru 30-Sept	20:14	Central Ave. CSO (002)	14.35	0.815820	Tennessee River	Rain Event