



City of Chattanooga
Mayor Andy Berke

January 26, 2015

VIA CERTIFIED MAIL

Ms. Sara Schiff-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. 6 – October, 2014 to December, 2014**

Dear Ms. Schiff-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 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.

January 26, 2015
Ms. Sara Schiff-Janovitz
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Please let me know if you have any questions regarding our submittal.

Sincerely,

A handwritten signature in blue ink that reads "Michael Patrick". The signature is written in a cursive style.

Michael C. Patrick, 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
Phillip Hilliard, Office of the Attorney General
Enforcement Coordinator, Water Pollution Control, TDEC
Stephanie Durman Matheny, Esq., TCWN
Donald L. Norris, Administrator, Public Works
Mike Marino, P.E., Jacobs
Adam Sowatzka, Esq., King & Spalding



Quarterly Report No. 6

October 1 – December 31, 2014

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

January 26, 2015

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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. 6 to satisfy the reporting requirements of 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 (“WWTP”) 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 October 1, 2014 through December 31, 2014, 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**

October 1, 2014 – December 31, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
13-Oct-14	9:00 PM	929 Riverside Dr (Citico PS)	Pump Station	N/A	0.73	2,325,000	Tennessee River	Pump Station - Mechanical Failure
14-Oct-14	4:50 AM	2406 Highpoint Dr (Altamont PS)	Pump Station	N/A	0.25	2,250	Ditch*	Pump Station - Electrical Failure
14-Oct-14	5:00 AM	7450 Twinbrook Dr	Main Line	N/A	2.50	5,000	Structure*	Blockage - Grease
14-Oct-14	6:45 AM	1610 Elm St	Manhole	S118E055	0.58	7,875	Tennessee River	Pump Station - Electrical Failure
14-Oct-14	7:25 AM	122 Rowland Gap Rd (West Bank)	Main Line	N/A	17.53	9,591,752	Tennessee River	Wet Weather
14-Oct-14	8:17 AM	900 Sterling Ave	Manhole	S136H107	24.72	10,000	Tennessee River	Wet Weather
14-Oct-14	9:55 AM	6722 Hickory Creek Rd	Manhole	S138M019	23.08	750	Land*	Wet Weather
14-Oct-14	9:55 AM	6695 Hickory Brook Rd	Manhole	S138M082	23.08	1,500	Land*	Wet Weather
14-Oct-14	10:50 AM	2109 Lynnbrook	Manhole	S156G048	23.17	7,500	Ditch	Wet Weather
14-Oct-14	11:00 AM	1900 E 23rd St	Manhole	S156G049	23.00	12,500	Storm Drain	Wet Weather
14-Oct-14	11:10 AM	2001 S Kelly St	Manhole	S156G030	22.83	7,500	Storm Drain	Wet Weather
14-Oct-14	11:20 AM	1900 E 25th St Place	Manhole	S156J057	22.67	3,250	Land*	Wet Weather
14-Oct-14	11:20 AM	1900 E 25th St Place	Manhole	S156J051	22.67	3,250	Land*	Wet Weather

**Table 2-1
Quarterly SSO Report**

October 1, 2014 – December 31, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
14-Oct-14	11:25 AM	2013 S Kelly St	Manhole	S156G022	22.58	25,000	Storm Drain	Wet Weather
14-Oct-14	1:10 PM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	6.55	19,650	Wolftever Creek	Wet Weather
14-Oct-14	1:15 PM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	6.47	38,800	Wolftever Creek	Wet Weather
14-Oct-14	1:50 PM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	5.88	8,825	Wolftever Creek	Wet Weather
15-Oct-14	12:50 AM	929 Riverside Dr (Citico PS)	Manhole	S136P605	0.60	3,625,000	Tennessee River	Pump Station - Electrical Failure
15-Oct-14	12:16 PM	End of MLK Blvd (East Bank)	Main Line	N/A	0.73	11,000	Tennessee River	Defect(s)
15-Oct-14	2:00 PM	404 Tunnel Blvd	Main Line	N/A	2.83	8,000	Land*	Wet Weather
4-Nov-14	2:40 PM	3595 Crompton St	Manhole	S118F092	0.67	25	Land*	Blockage - General
17-Nov-14	11:50 AM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	2.92	17,500	Wolftever Creek	Wet Weather
18-Nov-14	6:00 AM	455 Moccasin Bend Rd	Manhole	UNK ²	4.83	1,450	Tennessee River	Pump Station - Mechanical Failure
19-Nov-14	6:00 AM	455 Moccasin Bend Rd	Manhole	S135P257	1.50	150	Tennessee River	Blockage - General
23-Dec-14	8:25 PM	627 OGrady Dr	Other	N/A	13.08	500	Structure*	Other/Misc

**Table 2-1
Quarterly SSO Report**

October 1, 2014 – December 31, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
23-Dec-14	9:47 PM	122 Rowland Gap Rd	Main Line	N/A	27.47	16,590,000	Tennessee River	Wet Weather
23-Dec-14	10:55 PM	End of MLK Blvd	Main Line	N/A	0.92	8,000	Tennessee River	Wet Weather
24-Dec-14	8:05 AM	4665 Adams Rd	Manhole	S110G020	26.33	316,000	North Chickamauga Creek	Pump Station - Capacity
24-Dec-14	9:53 AM	1100 Lupton Dr	Manhole	S136H107	49.53	5,000	Tennessee River	Wet Weather
24-Dec-14	10:03 AM	914 Sterling Dr	Manhole	S118K006	49.20	4,500	Tennessee River	Wet Weather
24-Dec-14	10:15 AM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	3.50	57,000	Wolftever Creek	Pump Station - Capacity
24-Dec-14	10:15 AM	5161 Ooltewah Ringgold Rd Collegedale PS ³	Manhole	UNK ¹	3.50	1,050	Land	Pump Station - Capacity
24-Dec-14	10:44 AM	2013 South Kelley St	Manhole	S156G022	48.27	500	Storm Drain*	Wet Weather
24-Dec-14	10:45 AM	1610 Elm St	Manhole	S118E302	9.75	14,625	Tennessee River	Pump Station - Capacity
24-Dec-14	11:00 AM	Bainbridge Rd & Birmingham Dr	Manhole	S118E077	48.58	500	Land*	Wet Weather
24-Dec-14	1:15 PM	1552 Marsh Ln	Manhole	S100O065	21.17	63,500	North Chickamauga Creek	Pump Station - Capacity

**Table 2-1
Quarterly SSO Report**

October 1, 2014 – December 31, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
24-Dec-14	1:15 PM	1590 Marsh Ln	Manhole	S100O066	21.17	127,000	North Chickamauga Creek	Pump Station - Capacity
27-Dec-14	3:25 PM	3910 Juandale Trl	Manhole	S137N003	2.08	10,000	South Chickamauga Creek	Power Failure from Power Source
27-Dec-14	3:25 PM	3910 Juandale Trl	Manhole	S137N004	2.08	100,000	South Chickamauga Creek	Power Failure from Power Source
27-Dec-14	4:00 PM	4621 Shallowford Rd	Manhole	S137N001	1.50	1,040,000	South Chickamauga Creek	Power Failure from Power Source
27-Dec-14	4:00 PM	4600 Shallowford Rd	Manhole	S137M022	1.50	5,000	South Chickamauga Creek	Power Failure from Power Source
27-Dec-14	4:00 PM	4600 Shallowford Rd	Manhole	S147D200	1.50	40,000	South Chickamauga Creek	Power Failure from Power Source
27-Dec-14	4:00 PM	4600 Shallowford Rd	Manhole	S137M021	1.50	605,000	South Chickamauga Creek	Power Failure from Power Source
29-Dec-14	12:30 PM	1207 Radmoor Ln	Manhole	S158N069	UNK ²	500	Land*	Pump Station - Electrical Failure
29-Dec-14	12:30 PM	1207 Radmoor Ln	Manhole	S158N033	UNK ²	2,500	Land*	Pump Station - Electrical Failure

**Table 2-1
Quarterly SSO Report**

October 1, 2014 – December 31, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
29-Dec-14	1:43 PM	1207 Radmoor Ln	Manhole	S158K087	UNK ²	1,500	Land*	Pump Station - Electrical Failure
29-Dec-14	2:11 PM	7600 Davidson Rd	Manhole	S170F005	UNK ²	15,000	Mackey Branch	Pump Station - Electrical Failure
29-Dec-14	4:46 PM	End of N Concord Rd	Manhole	S158N042	620.17	25,000	South Chickamauga Creek	Pump Station - Electrical Failure
30-Dec-14	2:18 PM	1 Frawley Rd	Manhole	S158O003	598.67	1,000	South Chickamauga Creek	Pump Station - Electrical Failure
30-Dec-14	2:20 PM	1 Frawley Rd	Manhole	S158O002	598.62	5,000	South Chickamauga Creek	Pump Station - Electrical Failure
30-Dec-14	4:00 PM	1000 Woodfinch Trl	Manhole	S170C065	160.88	2,500	Mackey Branch	Pump Station - Electrical Failure
30-Dec-14	4:00 PM	7600 Davidson Rd	Manhole	S170C024	160.72	4,500	Mackey Branch	Pump Station - Electrical Failure
30-Dec-14	4:00 PM	1005 Audubon Trl	Manhole	S170C001	160.80	1,500	Mackey Branch	Pump Station - Electrical Failure
30-Dec-14	7:02 PM	455 Moccasin Bend Rd	Pump Station	N/A	0.02	85,000	Tennessee River	Other/Misc

¹ Manholes are not numbered.

² This information was not available at time of reporting.

³ Common cause, within 500 yards of separate event.

* 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 October 1, 2014 through December 31, 2014.

4.0 CSO Outfall Discharges

For the reporting period of October 1, 2014 through December 31, 2014 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 stormwater runoff through a single-pipe system to Chattanooga’s WWTP or CSO outfalls. Chattanooga operates eight (8) permitted CSO outfall facilities, all of which discharged overflows from the CSS during the reporting period.

Table 4-1
Quarterly CSO Outfall Discharge Report

October 1, 2014 – December 31, 2014						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
10/3/2014	5:24 PM	19th St CSO (008)	0.23	0.0819	Tennessee River	Rain Event
10/8/2014	6:11 AM	Tremont CSO (005)	0.17	0.0426	Tennessee River	Rain Event
10/8/2014	6:20 AM	19th St CSO (008)	0.35	0.3721	Tennessee River	Rain Event
10/10/2014	5:11 PM	19th St CSO (008)	1	0.2058	Tennessee River	Rain Event
10/10/2014	5:12 PM	ML King CSO (007)	0.87	0.3544	Tennessee River	Rain Event
10/12/2014	2:57 PM	19th St CSO (008)	3.93	6.5955	Tennessee River	Rain Event
10/12/2014	11:14 PM	Carter St CSO (009)	2.07	1.6162	Tennessee River	Rain Event
10/12/2014	11:27 PM	ML King CSO (007)	1.95	0.7826	Tennessee River	Rain Event
10/12/2014	11:56 PM	Central CSO (002)	5.95	7.5565	Tennessee River	Rain Event
10/12/2014	11:58 PM	Citico CSO (004)	2.7	1.4852	Tennessee River	Rain Event
10/13/2014	12:05 AM	Tremont CSO (005)	0.6	0.1793	Tennessee River	Rain Event
10/13/2014	12:18 AM	Ross's Landing CSO (006)	0.97	1.2894	Tennessee River	Rain Event
10/13/2014	2:54 PM	Citico CSO (004)	0.15	0.0047	Tennessee River	Rain Event
10/14/2014	2:15 AM	19th St CSO (008)	7.55	16.1767	Tennessee River	Rain Event
10/14/2014	2:16 AM	Carter St CSO (009)	10.6	6.134	Tennessee River	Rain Event
10/14/2014	2:20 AM	ML King CSO (007)	8.55	3.6185	Tennessee River	Rain Event
10/14/2014	2:24 AM	Tremont CSO (005)	3.23	1.9147	Tennessee River	Rain Event
10/14/2014	2:24 AM	Central CSO (002)	5.03	21.4337	Tennessee River	Rain Event
10/14/2014	2:27 AM	Citico CSO (004)	15.4	13.303	Tennessee River	Rain Event
10/14/2014	2:46 AM	Ross's Landing CSO (006)	5.07	10.037	Tennessee River	Rain Event
10/14/2014	2:59 AM	Williams St CSO (003)	9.48	9.4906	Tennessee River	Rain Event
10/16/2014	3:37 AM	Citico CSO (004)	1.75	0.0845	Tennessee River	Rain Event
11/17/2014	3:42 AM	19th St CSO (008)	2.83	1.2943	Tennessee River	Rain Event
11/17/2014	5:11 AM	ML King CSO (007)	2.98	0.2218	Tennessee River	Rain Event

Table 4-1
Quarterly CSO Outfall Discharge Report

October 1, 2014 – December 31, 2014						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
11/23/2014	4:29 PM	19th St CSO (008)	1.93	1.6297	Tennessee River	Rain Event
12/23/2014	7:35 PM	Carter St CSO (009)	19.21	3.0036	Tennessee River	Rain Event
12/23/2014	7:35 PM	19th St CSO (008)	13	0.5093	Tennessee River	Rain Event
12/23/2014	9:02 PM	Ross's Landing CSO (006)	2.43	3.6811	Tennessee River	Rain Event
12/23/2014	9:04 PM	Tremont CSO (005)	2.03	0.4255	Tennessee River	Rain Event
12/23/2014	7:44 PM	ML King CSO (007)	21.45	2.2609	Tennessee River	Rain Event
12/23/2014	9:27 PM	Central CSO (002)	18	11.4391	Tennessee River	Rain Event
12/24/2014	1:29 AM	Williams St CSO (003)	1.75	0.0809	Tennessee River	Rain Event