



City of Chattanooga

Mayor Andy Berke

July 28, 2014

VIA CERTIFIED MAIL

Ms. Sara Schiff
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-0024*
Quarterly Report #4 – April 2014 to June 2014**

Dear Ms. Schiff:

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-0024 (“Consent Decree”), we are submitting to both the Environmental Protection Agency (“EPA”) and the Tennessee Department of Environment and Conservation (“TDEC”) the fourth 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 Schiff
July 28, 2014
Page Two

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

Sincerely,



Alice L. Cannella, 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. 4

April 1 – June 30, 2014

Prepared for

**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

July 28, 2014

Contents

1.0	Introduction	1
1.1	Purpose	1
1.2	Requirements	1
2.0	SSO Events.....	2
3.0	Moccasin Bend WWTP Bypasses	6
4.0	CSO Outfall Discharges	8

Tables

2-1	Quarterly SSO Report	3-5
3-1	Quarterly Bypass Report	7
4-1	Quarterly CSO Outfall Discharge Report	9

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
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
UNK	Unknown
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Introduction

1.1 Purpose

On April 24, 2013, 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”). 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. 4 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 April 1, 2014 through June 30, 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

April 1, 2014 – June 30, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
2-Apr-14	2:42 PM	1300 Tabitha Drive	Main Line	N/A	23.8	6,500	Ditch	Break
2-Apr-14	3:30 PM	2120 Clematis Drive	Service Line	N/A	3.5	150	Land	Break
3-Apr-14	1:00 PM	91 S. Crest Rd.	Manhole	N/A [†]	2.83	10	Land	Blockage - General
3-Apr-14	6:35 PM	413 Derby St.	Other	N/A	0	3	Structure	Other/Misc
7-Apr-14	4:50 AM	122 Rowland Gap Rd	Main Line	N/A	15.17	8,980,000	Tennessee River	Wet Weather
7-Apr-14	6:15 AM	End of MLK Blvd (East Bank)	Main Line	N/A	UNK ²	45,000	Tennessee River	Wet Weather
7-Apr-14	7:55 AM	1004 Riverside Drive	Manhole	S136P605	0.42	6,250	Tennessee River	Wet Weather
7-Apr-14	8:00 AM	2013 South Kelley	Manhole	S156G022	25	25,000	Dobbs Branch	Wet Weather
7-Apr-14	8:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	18.8	225,600	Wolftever Creek	Wet Weather
7-Apr-14	8:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	18.8	169,200	Wolftever Creek	Wet Weather
7-Apr-14	8:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	18.8	253,800	Wolftever Creek	Wet Weather
7-Apr-14	8:20 AM	2109 Lynnbrook Drive	Manhole	S156G048	24.67	25,000	Dobbs Branch	Wet Weather
7-Apr-14	8:30 AM	1900 E 25th Street Place	Manhole	S156J053	24.50	250	Storm Drain	Wet Weather
7-Apr-14	8:45 AM	900 Sterling	Manhole	S136H107	UNK ²	50,000	Tennessee River	Wet Weather
7-Apr-14	8:45 AM	1 Aim Way	Manhole	S157H046	24.25	7,500	Ditch	Wet Weather
7-Apr-14	9:00 AM	1100 Lupton Drive	Manhole	S118K006	28.25	10,000	Tennessee River	Wet Weather
7-Apr-14	9:45 AM	1179 Old Pineville Road	Manhole	S126G010	22.33	67,000	Tennessee River	Wet Weather
7-Apr-14	10:00 AM	4610 Kemp Drive	Manhole	S157C065	23.00	50	Land*	Wet Weather
7-Apr-14	11:10 AM	6722 Hickory Creek Drive	Manhole	S138M019	UNK ²	150	Friars Branch	Wet Weather
7-Apr-14	11:10 AM	6693 Hickory Brook Road	Manhole	S138M082	UNK ²	1,500	Friars Branch	Wet Weather

Table 2-1
Quarterly SSO Report

April 1, 2014 – June 30, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
7-Apr-14	1:00 PM	3857 Birmingham Drive	Manhole	S118D128	24	500	Land*	Wet Weather
8-Apr-14	12:40 AM	1004 Riverside drive	Manhole	S136P605	1.25	729,150	Tennessee River	Other/Misc
9-Apr-14	1:00 PM	7601 Davidson Road	Manhole	S170D001	UNK ²	10,000	Mackey Branch	Wet Weather
10-Apr-14	11:53 AM	4401 Innwood Ln	Service Line	N/A	1.78	15,000	Ditch*	Blockage - Roots
11-Apr-14	12:34 AM	3330 Hixson Pike	Manhole	S118K500	16.12	1,200	Land	Defect(s)
14-Apr-14	8:40 AM	6628 Big Ridge Rd (Big Ridge #6)	Force Main	N/A	4.83	1,450	Ditch	Defect(s)
21-Apr-14	5:06 PM	2121 Glass St	Manhole	S136E051	UNK ²	2,500	Land	Wet Weather
29-Apr-14	8:45 AM	4665 Adams Rd and Crescent Club Rd (Hixson #1 PS)	Manhole	S110G020	0.75	4,500	Land	Wet Weather
29-Apr-14	8:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS"	Manhole	UNK ¹	6.50	39,000	Wolftever Creek	Wet Weather
29-Apr-14	9:10 AM	3600 Amnicola HWY (S. Chick PS)	Manhole	S127E008	6.17	60,000	South Chickamauga Creek	Defect(s)
29-Apr-14	9:10 AM	3600 Amnicola HWY (S. Chick PS)	Manhole	S127E010	6.17	60,000	South Chickamauga Creek	Defect(s)
29-Apr-14	10:57 AM	2843 Waterhaven Drive (S. Chick PS)	Manhole	S128G063	4.38	62,500	South Chickamauga Creek	Defect(s)
5-May-14	11:30 AM	1055 River Hills Circle	Manhole	S127B051	2.50	1	Land	Blockage - Trash/Debris
9-May-14	5:30 PM	6825 Northside Drive	Main Line	N/A	18.25	7,250	Ditch	Blockage - Grease
12-May-14	9:15 AM	4909 N Moore Rd	Manhole	S157C003	2.08	10	Land	Blockage - Grease
16-May-14	2:10 PM	4638 Trailwood Drive	Service Line	S129B003	1.42	1,500	Ditch	Blockage - Grease
17-May-14	4:25 PM	4790 Gann Store Rd (Big Ridge #1)	Pump Station	N/A	1.58	6,000	Land	Pump Station - Mechanical Failure
30-May-14	1:35 PM	1620 Edgewood Circle	Main Line	N/A	0.17	600	Land	Break
11-Jun-14	10:00 AM	4124 Hamill Road (Big Ridge #5)	Manhole	S111I018	1.25	2,000	Tennessee River	Power Failure from Power Source

Table 2-1
Quarterly SSO Report

April 1, 2014 – June 30, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
11-Jun-14	10:00 AM	4124 Hamill Rd (Big Ridge #5)	Manhole	S111I017	1.25	2,500	Tennessee River	Power Failure from Power Source
30-Jun-14	9:55 AM	5161 Ooltewah Ringgold Rd "Collegedale PS" ³	Manhole	UNK ¹	11.33	210,000	Wolftever Creek	Wet Weather
30-Jun-14	9:55 AM	5161 Ooltewah Ringgold Rd "Collegedale PS" ³	Manhole	UNK ¹	11.33	280,000	Wolftever Creek	Wet Weather
30-Jun-14	9:55 AM	5161 Ooltewah Ringgold Rd "Collegedale PS" ³	Manhole	UNK ¹	11.33	140,000	Wolftever Creek	Wet Weather

[†] Manhole does not currently have a facility ID, but will be assigned an ID pending survey

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

For the reporting period of April 1, 2014 through June 30, 2014, the WWTP experienced one (1) bypass during a wet weather event as listed in Table 3-1. The CD sets forth the same definition for bypass as the 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. During heavy rain events, excess flow is sent through the Moccasin Bend WWTP's wet weather process, which consists of grit removal, primary clarification and chlorine contact. A bypass occurs when either a portion of the effluent or the entire effluent flow from the wet weather process is diverted from the secondary treatment train of the WWTP and discharged to the Tennessee River.

Table 3-1
 Quarterly Bypass Report

April 1, 2014 – June 30, 2014							
Start Date	Start Time	Location	Source	Duration (hrs)	Bypass Volume (MG)	Receiving Water	Cause
7-Apr-14	2:00 PM	MBWWTP	Wet Weather Process	49	85.31	Tennessee River	Heavy Rain

4.0 CSO Outfall Discharges

For the reporting period of April 1, 2014 through June 30, 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, seven (7) of which discharged overflows from the CSS during the reporting period.

Table 4-1
Quarterly CSO Outfall Discharge Report

April 1, 2014 – June 30, 2014						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
7-Apr-14	2:39 AM	19th St CSO (008)	6.25	14.035	Tennessee River	Rain Event
7-Apr-14	2:45 AM	Ross's Landing CSO (006)	5.22	5.8358	Tennessee River	Rain Event
7-Apr-14	3:46 AM	Central CSO (002)	7.82	7.9884	Tennessee River	Rain Event
7-Apr-14	5:56 AM	Tremont CSO (005)	1.52	0.2049	Tennessee River	Rain Event
7-Apr-14	6:13 AM	ML King CSO (007)	1.4	0.3181	Tennessee River	Rain Event
7-Apr-14	9:37 AM	Citico CSO (004)	9.37	0.5661	Tennessee River	Rain Event
28-Apr-14	11:46 PM	19th St CSO (008)	1.32	0.3478	Tennessee River	Rain Event
16-May-14	9:25 AM	19th St CSO (008)	0.2	0.0286	Tennessee River	Rain Event
18-May-14	9:47 AM	19th St CSO (008)	0.7	0.1283	Tennessee River	Rain Event
11-Jun-14	4:40 PM	19th St CSO (008)	0.15	0.0147	Tennessee River	Rain Event
21-Jun-14	5:49 PM	Carter St CSO (009)	1.82	4.7923	Tennessee River	Rain Event
23-Jun-14	6:29 PM	Tremont CSO (005)	1.85	0.3396	Tennessee River	Rain Event
23-Jun-14	6:39 PM	19th St CSO (008)	1.75	0.352	Tennessee River	Rain Event
23-Jun-14	6:46 PM	Carter St CSO (009)	1.05	1.1519	Tennessee River	Rain Event
24-Jun-14	1:18 AM	19th St CSO (008)	0.13	0.0422	Tennessee River	Rain Event
24-Jun-14	4:08 PM	Central CSO (002)	3.25	1.2666	Tennessee River	Rain Event