



City of Chattanooga

Mayor Andy Berke

September 19, 2014

Mrs. 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-0024*
Amendment to Quarterly Reports 1 thru 4
Updated SSO Destination Designations

Dear Mrs. Schiff-Janovitz:

Per phone discussions held September 3, 2014, we are submitting revised SSO tables as an amendment to each Consent Decree Quarterly Report submitted to date (1 thru 4). Revisions were made to simplify designation of SSO's that reached waters of the US. The updated convention for designating SSO destinations is as follows:

1. No asterisk indicates that an SSO did make it to waters of the US – this applies to two cases:
 - a. The obvious case – any SSO discharging directly to a stream or river
 - b. Case-by-case basis – SSO's that did not discharge directly to a stream (i.e. land, ditch, storm drain, etc.), but review by City personnel has determined that the SSO eventually made it to a stream or river
2. 1 asterisk indicates that an SSO did not make it to waters of the US and will be applied to all SSO's which were not designated as reaching waters of the US

These amendments are being submitted to you electronically in Excel format and will also be made available in the Public Document Repository for the permanent record.

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.

September 19, 2014
Mrs. Sara Schiff-Janovitz
Page Two

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

Sincerely,



Alice L. Cannella, P.E.
Director, Waste Resources Division

cc: Karl Fingerhood, Esq., US DOJ
Chief, Environmental Enforcement Section, US DOJ
Chief, Clean Water Enforcement Branch, US EPA Region 4
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Amendment to Quarterly Reports 1 – 4 Revised SSO Tables

April 24, 2013 – 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

Revised September 5, 2014

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Acronyms and Abbreviations

Ave	Avenue
Bldv	Boulevard
CSO	Combined Sewer Overflow
Dr	Drive
Gal	Gallons
Hrs	Hours
Hwy	Highway
ID	Identification
MH	Manhole
N/A	Not Applicable
No.	Number
PS	Pump Station
Rd	Road
SSO	Sanitary Sewer Overflow
St	Street
UNK	Unknown

Table 1

Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
27-Apr-13	5:30 AM	122 Rowland Gap Road (West Bank)	Outfall	N/A	2.33	35,000	Tennessee River	Wet Weather
28-Apr-13	9:25 AM	122 Rowland Gap Road (West Bank)	Outfall	N/A	29.33	484,000	Tennessee River	Wet Weather
28-Apr-13	2:20 PM	1138 Pineville Rd Pineville Pump Station	Manhole	S126O035	47.17	424,500	Ditch	Wet Weather
28-Apr-13	2:37 PM	1610 Elm Street (Dupont PS)	Manhole	S118E055	1.55	2,325	Land*	Wet Weather
28-Apr-13	3:05 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	35.13	433,600	Wolftever Creek	Wet Weather
28-Apr-13	3:05 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	35.13	433,600	Wolftever Creek	Wet Weather
28-Apr-13	3:35 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	34.63	213,800	Wolftever Creek	Wet Weather
28-Apr-13	3:40 PM	1610 Elm Street (Dupont PS)	Manhole	S118E055	0.50	8,250	Land*	Power Failure from Power Source
28-Apr-13	4:40 PM	1004 Riverside Drive (Citico Pump Station)	Manhole	S136P800	15.08	135,750	Tennessee River	Wet Weather
29-Apr-13	7:45 AM	4677 Adams Rd (Hixson#1 PS)	Manhole	S110G020	24.67	74,000	Land	Wet Weather
29-Apr-13	8:00 AM	4600 Kemp Dr	Manhole	S157C065	8.00	10,000	Land*	Wet Weather
29-Apr-13	9:00 AM	1100 Lupton Dr	Manhole	S118K006	30.00	20,000	Ditch*	Wet Weather
29-Apr-13	9:25 AM	914 Sterling Ave	Manhole	S136H107	30.58	50,000	Ditch	Wet Weather
29-Apr-13	11:45 AM	1590 Marsh Ln (Hixson#1 PS)	Manhole	S100O065	21.00	126,000	Stream	Wet Weather
03-May-13	10:30 AM	234 Aster Ave	Service Line	N/A	75.25	1,000	Land*	Blockage - Trash/Debris

Table 1

Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
03-May-13	10:30 AM	234 Aster Ave	Service Line	N/A	75.25	4,000	Land*	Blockage - Trash/Debris
04-May-13	11:35 AM	122 Rowland Gap Road (West Bank)	Outfall	N/A	110.67	1,992,000	Tennessee River	Wet Weather
04-May-13	2:38 PM	1000 Blk Shallowford Rd	Manhole	S147G087	46.37	50,000	Ditch	Wet Weather
04-May-13	6:30 PM	640 Lupton Dr.	Manhole	S118G087	40.25	50,000	Ditch	Wet Weather
04-May-13	6:30 PM	646 Lupton Dr.	Manhole	S118G086	40.25	50,000	Ditch	Wet Weather
04-May-13	7:00 PM	1610 Elm Street (Dupont PS)	Manhole	S118E055	63.67	95,500	Land	Wet Weather
04-May-13	7:00 PM	1610 Elm Street (Dupont PS)	Manhole	UNK ²	63.58	572,250	Land	Wet Weather
04-May-13	8:15 PM	1552 Marsh Ln (Hixson#1 PS)	Manhole	S100O065	60.33	724,000	Land	Wet Weather
04-May-13	8:15 PM	1590 Marsh Ln (Hixson#1 PS)	Manhole	S100O066	60.33	362,000	Land	Wet Weather
04-May-13	8:20 PM	4677 Adams Rd (Hixson#1 PS)	Manhole	S110G020	59.83	718,000	Land	Wet Weather
04-May-13	9:15 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	66.42	797,000	Wolftever Creek	Wet Weather
04-May-13	9:15 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	85.42	1,025,000	Wolftever Creek	Wet Weather
04-May-13	9:15 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	66.42	398,500	Wolftever Creek	Wet Weather
04-May-13	10:00 PM	Club Dr and N Howell	Manhole	S157K004	39.00	10,000	Land*	Wet Weather
04-May-13	11:00 PM	1138 Pineville Rd (Pineville Pump Station)	Manhole	S126J017	104.33	1,252,000	Land	Wet Weather

Table 1
Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
05-May-13	11:00 AM	5300 Old Mission Rd	Manhole	S157K058	27.00	10,000	Land	Wet Weather
05-May-13	12:05 PM	5203 Old Mission Rd.(Brainerd Golf Course)	Manhole	S157F059	45.58	273,500	Land	Wet Weather
05-May-13	UNK [†]	648 Browns Ferry Rd, Chattanooga, TN 37419 [†]	UNK [†]	UNK [†]	UNK [†]	UNK [†]	UNK ^{*†}	UNK [†]
06-May-13	7:50 AM	914 Sterling Ave	Manhole	S136H107	53.17	100,000	Ditch	Wet Weather
06-May-13	8:10 AM	1100 Lupton Dr	Manhole	S118K006	48.83	20,000	Ditch*	Wet Weather
06-May-13	8:30 AM	1179 Old Pineville Rd (Pineville Pump Station)	Manhole	S126G010	UNK ²	1,252,000	Land	Wet Weather
06-May-13	9:30 AM	1200 Talley Rd	Manhole	S147F303	54.00	50,000	Land	Wet Weather
06-May-13	10:30 AM	3857 Birmingham Dr	Manhole	S118D128	52.00	50,000	Ditch	Wet Weather
06-May-13	12:30 PM	4401 N Choctaw	Manhole	S157B015	0.50	500	Ditch*	Wet Weather
06-May-13	1:00 PM	5461 Longview Dr	Manhole	S100K027	50.50	10,000	Ditch	Wet Weather
06-May-13	1:01 PM	5010 Creekside Preserve Dr	Service Line	N/A	1.65	1,000	Ditch*	Wet Weather
06-May-13	3:50 PM	End of MLK BLVD (East Bank)	Manhole	S135O027	46.17	1,246,500	Tennessee River	Wet Weather
08-May-13	8:38 AM	980 19th. St. Southern Foundry (19th St P.S.)	Service Line	N/A	22.70	35,750	Land	Wet Weather
09-May-13	3:30 PM	1 Frawley Rd	Manhole	S158D001	UNK ²	10,000	Land	Wet Weather
12-May-13	4:30 AM	W 38th St and Hughes Ave	Manhole	S155N071	15.00	1,000	Ditch*	Blockage - General
12-May-13	6:00 AM	511 W 38th St.	Manhole	S158N093	13.50	1,000	Ditch*	Blockage - General
13-May-13	3:25 PM	704 Oxford Rd (Altamont Pump Station)	Main Line	N/A	0.58	875	Ditch*	Other/Misc
17-May-13	1:50 PM	3438 Crompton St	Service Line	N/A	1.17	50	Land*	Blockage - Trash/Debris

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Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
19-May-13	1:30 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	19.75	280,500	Wolftever Creek	Wet Weather
19-May-13	1:30 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	19.75	153,000	Wolftever Creek	Wet Weather
19-May-13	1:30 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	28.73	172,400	Wolftever Creek	Wet Weather
19-May-13	1:30 PM	5161 Ooltewah Ringgold Rd. Collegedale Pump Station ³	Manhole	UNK ¹	19.75	102,000	Wolftever Creek	Wet Weather
19-May-13	5:27 PM	122 Rowland Gap Road (West Bank)	Outfall	N/A	9.72	169,675	Tennessee River	Wet Weather
20-May-13	4:00 PM	1219 Northern Hills Rd	Manhole	S100I052	1.50	1,000	Structure*	Blockage - Gravel
21-May-13	9:15 AM	4238 Old Woodland Dr Summit Landfill Pump Station #1	Pump Station	N/A	1.58	4,750	Wet Well*	Pump Station - Electrical Failure
07-Jun-13	2:00 PM	4614 St Elmo Ave	Service Line	N/A	7.00	50	Land*	Other/Misc
10-Jun-13	6:30 PM	618 N Holly St	Other	N/A	2.00	1,000	Land*	Blockage - General
11-Jun-13	11:45 AM	6012 Hixson Pike	Other	N/A	0.50	100	Land*	Blockage - Grease
19-Jun-13	9:00 AM	W 38th St and Hughes Ave	Manhole	S155N071	7.00	5,000	Storm Drain*	Blockage - Roots
19-Jun-13	12:00 PM	W 35th St and Hughes Ave	Manhole	S155N074	0.50	1,000	Land*	Blockage - General
01-Jul-13	10:00 AM	401 E 38th St	Main Line	S167D010	UNK ²	5,000	Land*	Wet Weather
05-Jul-13	8:35 AM	1138 Pineville Rd (Pineville Pump Station)	Manhole	S126J017	119.75	35,925	Ditch	Wet Weather

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Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
05-Jul-13	1:30 PM	5205 Ooltewah Ringgold Rd. (Collegedale Pump Station) ³	Manhole	UNK ¹	4.00	1,200	Land	Wet Weather
06-Jul-13	12:45 PM	122 Rowland Gap Road (West Bank)	Outfall	N/A	138.75	2,297,625	Tennessee River	Wet Weather
06-Jul-13	2:20 PM	1610 Elm Street (Dupont PS)	Manhole	S118E055	96.17	50,000	Land	Wet Weather
06-Jul-13	4:45 PM	1552 Marsh Ln (Hixson#1 PS)	Manhole	S100O065	137.17	100,000	Land	Wet Weather
06-Jul-13	4:50 PM	1590 Marsh Ln (Hixson#1 PS)	Manhole	S100O066	93.67	50,000	Land	Wet Weather
06-Jul-13	5:05 PM	4655 Adams Rd (Hixson#1 PS)	Manhole	S110G031	136.42	1,300,000	Land	Wet Weather
06-Jul-13	8:00 PM	Shallowford Rd and McDowell St	Manhole	S147G104	58.00	50,000	Land	Wet Weather
06-Jul-13	UNK [†]	648 Browns Ferry Rd, Chattanooga, TN 37419 [†]	UNK [†]	UNK [†]	UNK [†]	UNK [†]	UNK* [†]	UNK [†]
07-Jul-13	6:30 AM	5205 Ooltewah Ringgold Rd. (Collegedale Pump Station) ³	Manhole	UNK ¹	50.58	455,250	Wolftever Creek	Wet Weather
07-Jul-13	6:30 AM	5205 Ooltewah Ringgold Rd. (Collegedale Pump Station) ³	Manhole	UNK ¹	50.58	455,250	Wolftever Creek	Wet Weather
07-Jul-13	6:30 AM	5205 Ooltewah Ringgold Rd. (Collegedale Pump Station) ³	Manhole	UNK ¹	51.08	455,250	Wolftever Creek	Wet Weather
07-Jul-13	7:30 PM	139 Browns Ferry Rd	Other	N/A	86.50	1,000	Ditch*	Wet Weather
07-Jul-13	10:00 PM	1116 Plaza Dr	Other	N/A	64.00	5,000	Land*	Wet Weather
08-Jul-13	1:00 AM	5437 Longview Dr (Hixson#1 PS)	Manhole	S100O005	61.50	50,000	Land	Wet Weather

Table 1
Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
08-Jul-13	8:00 AM	900 Sterling Ave	Manhole	S136H107	55.00	100,000	Ditch	Wet Weather
08-Jul-13	8:15 AM	1033 Lupton Dr	Manhole	S118K006	54.75	50,000	Tennessee River	Wet Weather
08-Jul-13	8:30 AM	2109 Lynnbrook Ave	Manhole	S156G048	48.50	50,000	Storm Drain	Wet Weather
08-Jul-13	8:30 AM	1100 Lupton Dr	Manhole	S118L005	48.50	10,000	Land*	Wet Weather
08-Jul-13	8:35 AM	1900 E 25th St Place	Manhole	S156J053	UNK ²	10,000	Storm Drain*	Wet Weather
08-Jul-13	8:45 AM	3928 Birmingham Dr	Manhole	S118D127	48.25	288,000	Storm Drain	Wet Weather
08-Jul-13	8:55 AM	5203 Old Mission Rd.(Brainerd Golf Course)	UNK ²	S157F057	25.42	38,125	Land*	Wet Weather
08-Jul-13	9:00 AM	607 N Market St	Service Line	N/A	UNK ²	500	Structure*	Wet Weather
08-Jul-13	9:00 AM	4238 Old Woodland Dr Summit Landfill Pump Station #1	Pump Station	N/A	23.23	27,880	Land*	Wet Weather
08-Jul-13	9:30 AM	1820 E 23rd St	Manhole	S156G049	47.50	150,000	Ditch	Wet Weather
08-Jul-13	9:45 AM	1803 S Orchard Knob Ave	Other	N/A	48.25	5,000	Land*	Wet Weather
08-Jul-13	10:00 AM	5716 Grubb Rd	Service Line	N/A	47.50	1,000	Land*	Wet Weather
08-Jul-13	10:00 AM	End of MLK BLVD (East Bank)	Outfall	S135O027	78.00	2,800,000	Tennessee River	Wet Weather
08-Jul-13	10:15 AM	0 Aim Way	Manhole	S157H046	3.25	20,000	Land*	Wet Weather
08-Jul-13	10:30 AM	4509 Kemp Dr	Manhole	S157B072	24.00	50,000	Ditch	Wet Weather
08-Jul-13	10:30 AM	4610 Kemp Dr	Manhole	S157C065	24.00	50,000	Ditch	Wet Weather
08-Jul-13	10:30 AM	1807 E 23rd St	Manhole	S156G052	46.50	200,000	Ditch	Wet Weather
08-Jul-13	10:55 AM	5300 Old Mission Rd	Manhole	S157K058	29.58	100,000	Storm Drain	Wet Weather
08-Jul-13	11:30 AM	1200 Talley Rd	Manhole	S147F017	46.50	20,000	Ditch*	Wet Weather
08-Jul-13	1:00 PM	2325 Market St	Manhole	S145M090	44.00	250,000	Ditch*	Wet Weather

Table 1

Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
08-Jul-13	1:00 PM	109 Valleybrook Rd	Service Line	N/A	58.00	100	Land*	Wet Weather
08-Jul-13	1:40 PM	20 Tremont St. (Tremont CSO)	Manhole	UNK ²	49.50	29,700	Tennessee River	Wet Weather
08-Jul-13	2:10 PM	6722 Hickory Creek Rd	Manhole	S138M019	UNK ²	10,000	Land*	Wet Weather
08-Jul-13	2:10 PM	6693 Hickory Brook Rd	Manhole	S138M082	UNK ²	50,000	Land	Wet Weather
08-Jul-13	4:00 PM	3816 Fagan St	Manhole	S167D046	42.17	362,000	Land	Wet Weather
08-Jul-13	4:30 PM	5410 Longview Dr (Hixson#1 PS)	Service Line	N/A	46.00	50,000	Structure	Wet Weather
09-Jul-13	9:30 AM	4677 Adams Rd (Hixson#1 PS)	Manhole	S110G020	23.00	276,000	Land	Wet Weather
10-Jul-13	10:25 AM	4790 Gann Store Rd. (Big Ridge #1)	Main Line	N/A	0.58	2,000	Land*	Other/Misc
11-Jul-13	8:55 AM	5205 Ooltewah Ringgold Rd. (Collegedale Pump Station) ³	Manhole	UNK ¹	16.47	1,000	Wolftever Creek	Wet Weather
11-Jul-13	9:00 AM	900 Sterling Ave	Manhole	S136H107	6.50	50,000	Ditch	Wet Weather
11-Jul-13	9:30 AM	1033 Lupton Dr	Manhole	S118K006	6.00	10,000	Tennessee River	Wet Weather
11-Jul-13	10:00 AM	5010 Creekside Preserve Dr	Other	N/A	UNK ²	5,000	Ditch*	Wet Weather
11-Jul-13	1:45 PM	406 Brown Rd	Manhole	S158P005	2.25	10,000	Stream	Wet Weather
12-Jul-13	1:00 PM	3405 Lightfoot Mill Rd	Manhole	S137C013	UNK ²	5,000	Land*	Wet Weather
17-Jul-13	9:00 AM	4100 W 41st St	Manhole	S167D004	UNK ²	1,000	Land*	Wet Weather
19-Jul-13	10:30 AM	4238 Old Woodland Dr.	Pump Station	N/A	0.67	36,000	Land*	Other/Misc
22-Jul-13	UNK [†]	648 Browns Ferry Rd, Chattanooga, TN 37419 [†]	UNK [†]	UNK [†]	UNK [†]	UNK [†]	UNK ^{*†}	UNK [†]
30-Jul-13	12:39 PM	3624 Premium Dr	Manhole	S118B065	4.52	100	Land*	Blockage - Roots

Table 1

Quarterly Report 1 – Revised SSO Report

April 24, 2013 – September 30, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
02-Aug-13	1:20 PM	7737 E Brainerd Road	Manhole	S159I009	UNK ²	100	Land*	Blockage - Trash/Debris
13-Aug-13	12:25 PM	1011 Ledford Lane	Manhole	S100I117	2.08	5,000	Land*	Blockage - Grease
20-Aug-13	1:45 PM	7324 Shallowford Road	Manhole	S149H065	UNK ²	1,000	Land*	Blockage - Grease
22-Aug-13	7:45 AM	Shallowford Road and Airport Road	Manhole	S137M020	UNK ²	10,000	Stream	Wet Weather
22-Aug-13	4:00 PM	2109 Lynnbrook Ave	Manhole	S156G048	5.00	1,000	Land*	Wet Weather
22-Aug-13	6:30 PM	Shallowford Road and McDowell Street	Manhole	S147G104	2.50	5,000	Land*	Wet Weather
22-Aug-13	9:30 PM	4790 Gann Store Road	Pump Station	N/A	1.67	220,500	Ditch	Pump Station - Electrical Failure
28-Aug-13	9:35 AM	Holtzclaw Ave	Pump Station	N/A	2.50	3,750	Storm Drain*	Pump Station - Mechanical Failure
13-Sep-13	10:00 AM	316 Tucker Street	Manhole	S135E050	4.33	200	Land*	Blockage - Trash/Debris

[†] The City of Chattanooga understands that that these SSOs were reported to TDEC and EPA directly by the owner of the property. The City was not able to verify the information related to these alleged SSOs.

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

Table 2

Quarterly Report 2 – Revised SSO Report

October 1, 2013 – December 31, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
24-Oct-13	9:45 AM	1104 Fernway Circle (rear)	MH	S127H027	4.83	250	Land/ditch*	Blockage/roots trash
8-Nov-13	12:12 PM	4215 Lake Haven Lane	MH	S129A015	3.52	10	Land*	Blockage/unknown
25-Nov-13	3:00 PM	1100 Lupton Drive	MH	S118L002	UNK ³	250	Land*	Weather/heavy rain
26-Nov-13	6:55 AM	122 Rowland Gap Road (West Bank)	MH	N/A ¹	17.92	306,000	TN River	Weather/heavy rain
26-Nov-13	8:30 AM	1117 Fernway Road	MH	S127H050	1.58	150	Land/storm drain*	Blockage/roots trash
26-Nov-13	9:00 AM	2109 Lynnbrook Ave	MH	S156G048	24.25	10	Land*	Weather/heavy rain
26-Nov-13	10:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	15.25	91,500	Wolftever Creek	Weather/Capacity
26-Nov-13	10:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	15.25	137,250	Wolftever Creek	Weather/Capacity
26-Nov-13	11:15 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	14.75	91,500	Wolftever Creek	Weather/Capacity
26-Nov-13	12:00 PM	1004 Riverside Drive (Citico Pump Station)	MH	S136P605	28	12,000	Land/TN river	Weather/Heavy Rain
26-Nov-13	12:50 PM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	19.58	29,375	Land/ storm ditch	Weather/Capacity
26-Nov-13	3:00 PM	1001 Shallowford Road	MH	S147G105	18.5	27,750	Land/ditch	Weather/Heavy Rain
26-Nov-13	3:30 PM	E 20th St and Kelly St	MH	S156G030	17.75	3,200	Land/storm drain	Weather/Heavy Rain
26-Nov-13	3:50 PM	6693 Hickory Brook Drive	MH	S138M082	0.5	25	Land/storm drain	Weather/Heavy Rain
2-Dec-13	10:10 AM	1611 Parkway Dr	MH	S147B016	1.42	40	Land*	Blockage/grease roots
4-Dec-13	2:52 PM	1548 Riverside Dr	Main Line	N/A ¹	25.13	5,000	Land/ditch	Pipe Defect
4-Dec-13	2:52 PM	1530 Riverside Dr	Main Line	N/A ¹	22.13	5,000	Land/ditch	Pipe Defect

Table 2
Quarterly Report 2 – Revised SSO Report

October 1, 2013 – December 31, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
5-Dec-13	12:45 AM	7606 Davidson Rd	MH	S170D001	UNK ³	250	Land/stream	Weather/heavy rain
5-Dec-13	12:45 AM	7606 Davidson Rd	MH	S170C021	UNK ³	10,000	Land/stream	Weather/heavy rain
6-Dec-13	7:45 AM	5401 Old Hixson Pike & RR (Hixson #2)	MH	UNK ³	0.25	672,000	North Chickamauga Creek	PS-Electrical
9-Dec-13	7:40 AM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	7.17	10,750	Land/ ditch	Weather/Capacity
9-Dec-13	8:20 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	88.38	363,450	Wolftever Creek	Weather/Capacity
9-Dec-13	9:30 AM	Birmingham Dr & Bainbridge St	MH	S118D128	1.25	10	Land/storm drain*	Weather/heavy rain
9-Dec-13	2:20 PM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	46.38	51,575	Wolftever Creek	Weather/Capacity
9-Dec-13	4:40 PM	4511 Tennessee Ave (rear)	Customer clean out	S167G049	3.83	7,500	Land*	Blockage
10-Dec-13	8:00 AM	255 Whitehall Rd	MH	S135G022	1.42	425	Land/ditch*	Blockage/grease trash
10-Dec-13	11:05 AM	Broad St & Cummings Hwy	MH	S155J015	0.55	165	Land/storm drain	Blockage/grease trash
10-Dec-13	11:15 AM	1620 Edgewood Cir	Main line	N/A ¹	UNK ³	750	Land/ditch*	Pipe Defect
12-Dec-13	1:30 PM	1004 Riverside Drive (Citico Pump Station)	MH	S136P605	0.08	149,305	Land/TN river	PS-Mechanical
14-Dec-13	5:30 PM	Davidson Rd. At Gunbarrel Rd.	MH	S170D001	17	2,500	Land/Mackey Branch	Blockage
17-Dec-13	3:00 PM	1005 Audubon Trail	MH	S170F006	5.5	250	Land/Mackey Branch	PS-Mechanical
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity

Table 2

Quarterly Report 2 – Revised SSO Report

October 1, 2013 – December 31, 2013								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity
22-Dec-13	12:05 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	26.67	132,000	Wolftever Creek	Weather/Capacity
22-Dec-13	7:00 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A ¹	21.98	395,700	Tn. River	Weather/heavy rain
22-Dec-13	11:18 AM	1138 Pineville Rd "Pineville Pump Station"	MH	S126J017	20.62	61,850	Land/ ditch	Weather/Capacity
23-Dec-13	12:40 AM	Davidson Rd. At Gunbarrel Rd.	MH	S170D001	80.33	13,800	Land/Mackey Branch	Weather/heavy rain
23-Dec-13	9:30 AM	Birmingham Dr & Bainbridge St	MH	S118D128	4.5	1,100	Land/storm drain	Weather/heavy rain
23-Dec-13	11:45 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	3.35	10,050	Wolftever Creek	Weather/Capacity
29-Dec-13	2:01 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A ¹	15.65	281,700	Tn. River	Weather/heavy rain
29-Dec-13	4:00 PM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ⁴	MH	UNK ²	9.25	55,500	Wolftever Creek	Weather/Capacity
30-Dec-13	2:00 PM	1108 N Concord Rd	MH	S158N065	UNK ³	10	Land*	Weather/heavy rain
30-Dec-13	2:43 PM	Birmingham Dr & Bainbridge St	MH	S118D128	2.03	100	Land/storm drain	Blockage/trash

¹ Not Applicable, these SSOs discharged through a source other than a manhole and do not have an ID.

² Manholes are not numbered.

³ This information was not available at time of reporting.

⁴ Common cause, within 500 yards of separate event.

* Did not reach waters of the United States

Table 3
Quarterly Report 3 – Revised SSO Report

January 1, 2014 – March 21, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
5-Jan-14	3:07 PM	7000 Shallowford Road	Manhole	S148D091	4.88	50	Ditch*	Blockage - General
6-Jan-14	2:20 PM	3500 Dodson Avenue	Manhole	S128I024	21.5	2,500	Land*	Blockage - Roots
7-Jan-14	UNK ²	7000 Shallowford Road	Manhole	S148D092	UNK ²	4,500	Storm Drain*	Blockage - General
10-Jan-14	10:23 AM	1 Frawley Road	Manhole	S158D001	UNK ²	125	Land*	Wet Weather
11-Jan-14	7:30 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A	14.75	265,500	Tennessee River	Power Failure from Power Source
11-Jan-14	12:40 PM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	5	45,000	Wolftever Creek	Wet Weather
11-Jan-14	9:20 PM	811 Boy Scout Rd. (Boy Scout P.S.)	Manhole	S082P014	0.17	3,500	Land*	Pump Station - Mechanical Failure
12-Jan-14	2:40 AM	1004 Riverside Drive (Citico Pump Station)	Manhole	S136P605	15.5	1,187,500	Tennessee River	Pump Station - Mechanical Failure
15-Jan-14	1:17 PM	1015 W 37th St	Manhole	S155N034	1.05	2,000	Land*	Blockage - Grease
16-Jan-14	8:40 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	27.58	140,250	Wolftever Creek	Pump Station - Mechanical Failure
22-Jan-14	9:00 AM	7606 Davidson Rd	Manhole	S170C021	UNK ²	500	Stream	Wet Weather
24-Jan-14	8:30 AM	1207 Concord Road	Manhole	S158N033	UNK ²	1,500	Ditch*	Wet Weather
3-Feb-14	1:30 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A	27.5	495,000	Tennessee River	Wet Weather
3-Feb-14	2:40 AM	End of MLK BLVD (East Bank)	Main Line	N/A	5.58	87,000	Tennessee River	Wet Weather
3-Feb-14	8:30 AM	3728 Wilcox Blvd	Manhole	S147B301	UNK ²	750	Land*	Wet Weather
3-Feb-14	9:19 AM	3857 Birmingham Dr	Manhole	S118D128	23	7,500	Tennessee River	Wet Weather
3-Feb-14	9:30 AM	2001 S Kelly St	Manhole	S156G022	23.25	1,500	Ditch*	Wet Weather
3-Feb-14	10:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	16.67	150,000	Wolftever Creek	Wet Weather

Table 3
Quarterly Report 3 – Revised SSO Report

January 1, 2014 – March 21, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
3-Feb-14	10:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	48.47	325,000	Wolftever Creek	Wet Weather
3-Feb-14	10:30 AM	1020 Lupton Dr	Manhole	S118K006	21.75	15,000	Tennessee River	Wet Weather
3-Feb-14	11:00 AM	914 Sterling Ave	Manhole	S136H107	21	12,000	Tennessee River	Wet Weather
3-Feb-14	11:00 AM	2407 Awtry St	Main Line	N/A	UNK ²	2,500	Structure*	Other/Misc
3-Feb-14	11:08 AM	6724 Hickory Creek Rd	Manhole	S138M019	UNK ²	75	Land*	Wet Weather
3-Feb-14	11:08 AM	6693 Hickory Brook Dr	Manhole	S138M082	UNK ²	75	Ditch*	Wet Weather
3-Feb-14	12:30 PM	1179 Old Pineville Rd (Pineville Pump Station)	Manhole	S126J017	43.5	65,250	Land	Wet Weather
3-Feb-14	2:40 PM	4238 Old Woodland Dr Summit Landfill "Pump Station #1"	Manhole	S140F003	28.83	8,650	Land*	Wet Weather
10-Feb-14	11:33 AM	6207 Bonny Oaks Dr	Manhole	S129N086	0.7	50	Land*	Blockage - General
14-Feb-14	11:10 AM	407 Shallowford Rd	Other	N/A	1.12	500	Land*	Blockage - General
14-Feb-14	1:45 PM	129 Centro St	Manhole	S154C017	UNK ²	150	Land*	Wet Weather
21-Feb-14	3:00 AM	122 Rowland Gap Road (West Bank)	Main Line	N/A	UNK ²	439,500	Tennessee River	Wet Weather
21-Feb-14	3:35 AM	End of MLK BLVD (East Bank)	Main Line	N/A	1.17	2,150	Tennessee River	Wet Weather
21-Feb-14	4:00 AM	1179 Old Pineville Rd (Pineville Pump Station)	Manhole	S126J017	76.17	22,850	Land	Wet Weather
21-Feb-14	5:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	19.17	115,000	Wolftever Creek	Wet Weather
21-Feb-14	5:25 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	18.75	28,125	Wolftever Creek	Wet Weather

Table 3

Quarterly Report 3 – Revised SSO Report

January 1, 2014 – March 21, 2014								
Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
21-Feb-14	9:00 AM	5161 Ooltewah Ringgold Rd. "Collegedale PS" ³	Manhole	UNK ¹	15.17	91,000	Wolftever Creek	Wet Weather
21-Feb-14	10:20 AM	1001 Shallowford Rd	Manhole	S147G104	1.92	15,000	Ditch	Blockage - Grease
27-Feb-14	12:10 PM	1743 White Oak Rd. (Altamont P.S.)	Manhole	S126E018	0.83	800	Ditch*	Other/Misc
28-Feb-14	3:30 PM	3709 Shamrock Dr	Manhole	S137K011	UNK ²	25,000	South Chickamauga Creek	Wet Weather
6-Mar-14	1:00 PM	1609 Edgewood Circle	Main Line	N/A	UNK ²	500	Land*	Other/Misc
27-Mar-14	12:00 PM	3405 Lightfoot Mill Road	Manhole	S137C013	UNK ²	500	Land*	Wet Weather
27-Mar-14	12:00 PM	2882 Harrison Pike	Manhole	S128F048	UNK ²	10	Land*	Wet Weather
27-Mar-14	12:00 PM	3405 Lightfoot Mill Road	Manhole	S137C503	UNK ²	5,000	South Chickamauga Creek	Wet Weather
27-Mar-14	12:00 PM	2663 Waterhaven Drive	Manhole	S128G069	UNK ²	2,500	South Chickamauga Creek	Wet Weather
27-Mar-14	12:00 PM	4063 Simmons Drive	Main Line	N/A	UNK ²	250	South Chickamauga Creek	Wet Weather

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

Table 4
Quarterly Report 4 – Revised 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

Table 4
Quarterly Report 4 – Revised 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	11:10 AM	6693 Hickory Brook Road	Manhole	S138M082	UNK ²	1,500	Friars Branch	Wet Weather
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

Table 4

Quarterly Report 4 – Revised 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
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
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