

City of Memphis

Quarterly Report July 1 through September 30, 2013

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.



Bobby D. Allen, P.E.

10-30-13

Date

Quarterly Report

Third Quarter 2013

On September 20, 2012, the United States District Court for the Western District of Tennessee entered a Consent Decree between the City of Memphis and the United States, the State of Tennessee, and the Tennessee Clean Water Network.

To fulfill the reporting requirements defined in Section VIII.24 of the Consent Decree, the City of Memphis has prepared this Quarterly Report, which summarizes all SSO events occurring from July 1 through September 30, 2013. The table included in this report provides the date, time, location, source, estimated duration, estimated volume, receiving water (if any), and cause of the SSO event. An "SSO event" means the total time period SSOs occur at the same location and due to the same cause(s).

Also included in this report is an update on the Color Study of the Stiles Wastewater Treatment Plant effluent.

1. Color Study

The City, through their contract with the University of Memphis, has continued implementing the TDEC-approved color study during this reporting period. Sampling and analysis of true and apparent color, which was initiated in January 2013, was continued on a weekly basis throughout the reporting period. As part of the participant survey task, a survey questionnaire, which is to be completed as participants visit three locations, was developed and has been completed on a monthly basis, beginning in March 2013. An additional mechanical turk survey to assess the human perception of color change was formulated and conducted, and formulation of a second mechanical turk survey to investigate people's perception of color from wildlife camera photos is underway. Leaders from industries were also briefed on the study tasks by the City. It is anticipated that the study will continue to be implemented during the upcoming reporting period in compliance with the Scope of Work as approved by TDEC.

City of Memphis - Sanitary Sewer Overflow Report
July 1 through September 30, 2013

* Sources Definitions: C/O - Cleanout, M/H - Manhole, M/L - Main Line

Location - Address	Date and Time	Cause	Estimated Volume (gallons)	Source*	Estimated Duration (hours)	Receiving stream (if any)
HARBERT WILLETT	7/1/2013 13:43	GREASE/RAGS	660	M/L	1.1	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
256 S CAMILLA ST	7/1/2013 13:47	UNDEFINED STOPPAGE	600	M/L	1	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
3505 S MENDENHALL RD	7/2/2013 9:36	GREASE	420	WYE	1.9	Unnamed Trib to John's Creek to Nonconnah
790 E GAGE AVE	7/3/2013 18:54	UNDEFINED STOPPAGE	2,040	M/L	3.4	Unnamed Trib to Cane Creek to Nonconnah
1176 DOROTHY PL	7/3/2013 21:57	GREASE/RAGS	60	M/L	0.1	
JONES RALEIGH MILLINGTON	7/5/2013 10:23	GREASE	420	M/L	1.4	Unnamed Trib to Wolf River
703 S GREER ST	7/5/2013 13:43	GREASE/RAGS	600	M/L	1	
5315 SANTA MONICA ST	7/8/2013 13:27	GREASE	420	M/L	1.4	
5151 E RAINES RD	7/9/2013 10:32	AIR RELEASE VALVE FAILURE	540	M/L	0.9	Unnamed Trib to John's Creek to Nonconnah
GAGE PROSPECT	7/10/2013 10:17	UNDEFINED STOPPAGE	6,600	M/L	4.5	Unnamed Trib to Cane Creek to Nonconnah
3800 E MALLORY AVE	7/13/2013 17:48	GREASE/PAPER	1,320	M/L	2.2	Unnamed Trib to Nonconnah
1710 WHITTEN	7/18/2013 8:42	GREASE	1,800	M/L	2.3	Unnamed Trib to Fletcher Creek to Wolf River
1870 N PARKWAY	7/19/2013 15:49	GREASE	1,020	M/L	1.7	Unnamed Trib to Nonconnah
3229 EGYPT CENTRAL RD	7/20/2013 7:12	GREASE	690	M/L	2.3	
2115 SAINT JAMES DR	7/20/2013 7:42	GREASE	1,140	M/L	2	Unnamed Trib to Nonconnah
5041 BERTA RD	7/21/2013 21:14	GREASE/RAGS	600	M/L	1	Unnamed Trib to Nonconnah
585 E FRANK AVE	7/22/2013 10:59	GREASE	400	M/L	3.8	
BARKSDALE BARKSDALE COVE	7/22/2013 12:08	FLOODED	7,800	M/L	2.6	Unnamed Trib to Cane Creek to Nonconnah
BARKSDALE BARKSDALE COVE	7/23/2013 10:22	FLOODED	3,900	M/L	1.3	Unnamed Trib to Cane Creek to Nonconnah
2820 HARBOR AVE	7/26/2013 11:45	PUMP STATION OUT OF SERVICE	UNKNOWN (see footnote)	M/L	14.5	
3957 WILDWIND COVE	7/27/2013 10:39	GREASE	300	M/L	1	Unnamed Trib to Nonconnah
1401 GREENBROOK PKY	7/27/2013 21:11	GREASE/RAGS	600	M/L	1	Unnamed Trib to Fletcher Creek to Wolf River
131 E FRANK RD	7/29/2013 8:45	GREASE	540	M/L	1.6	
3896 CHIPPEWA ST	7/29/2013 9:52	ROOTS/GREASE	1,650	M/L	1.1	Unnamed Trib to Ten Mile to Nonconnah
2299 WARREN ST	8/1/2013 9:01	GREASE	360	M/L	1.2	
2568 SUNNY HILL DR	8/2/2013 9:07	GREASE	17,100	M/L	5.7	Unnamed Trib to Loosahatchie River
6065 PARK AVE	8/4/2013 16:33	GREASE/SAND/DEBRIS	1,140	M/L	2	Unnamed Trib to Nonconnah
3101 NATHAN AVE	8/5/2013 9:50	GREASE/RAGS	860	M/L	1.8	Unnamed Trib to Cypress Creek to Wolf River
2356 HICKORY FOREST DR	8/6/2013 8:24	GREASE/PAPER	2,850	M/L	1.9	Unnamed Trib to Nonconnah
2562 SAM COOPER BLVD	8/6/2013 9:59	GREASE	750	M/L	1.6	
8125 CORDOVA CENTRE DR SUITE 102	8/10/2013 17:43	GREASE/RAGS	1,800	M/L	3	Unnamed Trib to Wolf River
IVY MEADOWS KIRBY	8/12/2013 11:12	GREASE	390	M/L	1.3	Unnamed Trib to Nonconnah
4336 ISIS COVE	8/12/2013 14:50	GREASE	29,250	M/L	19.5	Unnamed Trib to Loosahatchie River
2820 HARBOR AVE (D/E OF HARBOR)	8/14/2013 9:40	PUMP STATION OUT OF SERVICE	UNKNOWN (see footnote)	M/L	12.5	
2107 BALL RD	8/14/2013 16:41	GREASE	1,140	M/L	1.9	Unnamed Trib to Nonconnah
4593 WINTER PARK DR	8/16/2013 18:42	GREASE/RAGS	1,050	M/L	3.5	Unnamed Trib to Nonconnah
1048 NEPTUNE ST	8/16/2013 19:29	GREASE/RAGS	420	M/L	0.7	Unnamed Trib to Mississippi River
520 S MAIN APT 201	8/17/2013 13:45	GREASE	763	M/L	1.6	
7268 COUNTRYSIDE RD	8/18/2013 14:22	GREASE	1,860	M/L	3.1	Unnamed Trib to Fletcher Creek to Wolf River
1979 TULSA AVE	8/19/2013 14:12	GREASE	3,180	M/L	5.3	Unnamed Trib to Loosahatchie River
3495 HACKS CROSS RD	8/21/2013 14:57	UNDEFINED STOPPAGE	1,680	M/L	2.8	Unnamed Trib to Nonconnah

Location - Address	Date and Time	Cause	Estimated Volume (gallons)	Source*	Estimated Duration (hours)	Receiving stream (if any)
3495 HACKS CROSS RD	8/21/2013 18:06	GREASE/PAPER	5,220	M/L	17.4	Unnamed Trib to Nonconnah
1422 RUSSWOOD RD	8/22/2013 19:04	GREASE/RAGS	610	M/L	2.7	Unnamed Trib to Wolf River
WESTMONT & SHADOWLINE	8/23/2013 10:57	GREASE/RAGS	510	M/H	3.8	Unnamed Trib to Horn Lake to Mississippi River
1731 GOWAN	8/24/2013 19:19	GREASE/RAGS	510	M/L	1.7	Unnamed Trib to Wolf River
848 ALIDA AVE	8/24/2013 19:59	GREASE	270	M/L	0.9	Unnamed Trib to Nonconnah
HOLMES SHADY RIDGE	8/25/2013 13:41	GREASE/RAGS	5,250	M/L	3.5	Unnamed Trib to John's Creek to Nonconnah
HOLMES & SHADY RIDGE	8/27/2013 9:14	GREASE/RAGS	6,900	M/L	2.3	Unnamed Trib to John's Creek to Nonconnah
4044 DEBBIDAN COVE	8/28/2013 18:19	GREASE	840	M/L	1.4	Unnamed Trib to Wolf River
CHUCK GOODLETT	8/29/2013 14:56	GREASE/RAGS	2,850	M/L	1.9	Unnamed Trib to Ten Mile to Nonconnah
4034 AUBURN RD	9/3/2013 12:51	GREASE/RAGS	570	M/L	1.9	Unnamed Trib to Nonconnah
6543 BIRKENHEAD RD	9/4/2013 13:31	GREASE	1,020	M/L	1.7	Unnamed Trib to Fletcher Creek to Wolf River
4792 BLUFF WOOD COVE	9/4/2013 16:45	GREASE	1,560	M/L	2.6	Unnamed Trib to Loosahatchie River
4677 LAURA SPRINGS DR	9/5/2013 10:10	GREASE	4,950	M/L	3.3	Unnamed Trib to Loosahatchie River
LAMAR MCLEAN	9/6/2013 14:54	GREASE/RAGS	1,920	M/L	3.2	Unnamed Trib to Nonconnah
4360 ANN ARBOR LN	9/8/2013 10:47	PUMP STATION FAILURE	420	M/L	0.7	Unnamed Trib to Loosahatchie River
1744 S PARKWAY E	9/9/2013 14:46	GREASE/PAPER	320	M/L	2.7	
3495 HACKS CROSS RD	9/10/2013 7:54	GREASE/SAND/DEBRIS	3,150	M/L	2.1	Unnamed Trib to Nonconnah
BATTLECREEK BATTLE FOREST	9/12/2013 16:59	GREASE	1,680	M/L	2.8	Unnamed Trib to Wolf River
533 S BARKSDALE ST	9/13/2013 9:21	GREASE	900	M/L	1.5	Unnamed Trib to Gayoso Bayou to Wolf River Harbor
2431 N GERMANTOWN PKY	9/14/2013 15:24	GREASE/RAGS	3,180	M/L	5.3	Unnamed Trib to Fletcher Creek to Wolf River
4181 NEW ALLEN RD	9/15/2013 7:56	GREASE/RAGS	6,600	M/L	4.4	Unnamed Trib to Loosahatchie River
8008 Tankard Drive	9/16/2013 8:53	GREASE	1,320	M/L	4.6	Unnamed Trib to Nonconnah
MCCAIN RAINES	9/17/2013 10:56	GREASE/SAND	3,750	M/L	2.5	Unnamed Trib to Nonconnah
LECONTE SIGNAL	9/18/2013 12:28	GREASE/RAGS	3,450	M/L	2.3	Unnamed Trib to Wolf River
1900 E ALCY RD	9/21/2013 13:00	BROKE DOWN	570	M/H	1.9	Unnamed Trib to Nonconnah
1963 LYDGATE COVE	9/22/2013 16:02	GREASE	450	M/L	1.5	Unnamed Trib to Cane Creek to Nonconnah
1500 PARKWAY VIEW CIR	9/23/2013 10:47	GREASE/RAGS	600	M/L	2	Unnamed Trib to Cane Creek to Nonconnah
5371 FONTANA AVE	9/26/2013 9:58	GREASE	690	M/L	2.3	Unnamed Trib to John's Creek to Nonconnah
1967 DRIFTWOOD AVE	9/29/2013 15:29	GREASE/RAGS	450	M/H	1.5	Unnamed Trib to Wolf River
1979 TULSA AVE	9/30/2013 10:36	GREASE	600	M/L	1	Unnamed Trib to Loosahatchie River

For 2820 Harbor Ave, overflow was intentionally diverted to a bermed area that had originally been constructed for just such purposes. Storage/collection of the wastewater in the bermed area allowed the majority of the wastewater to be drained back into the sewer system following restoration of pump station service. The stored/collected wastewater which was returned to the sewer system is not an SSO. The volume of any amount of water that may have remained in the berm is unknown.