

MAYOR JIM GRAY



**LEXINGTON**

CHARLES H. MARTIN, P.E.  
DIRECTOR  
WATER QUALITY

July 27, 2017

Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, D.C. 20044-7611  
Re: DOJ No. 90-5-1-1-08858

Chief  
Water Programs Enforcement Branch  
Environmental Protection Agency Region 4  
61 Forsyth Street SW  
Atlanta, Georgia 30303

RE: Civil Action No. 5:06-cv-386  
Lexington-Fayette Urban County Government – Kentucky  
KPDES Permit Nos.: KY0021491 / KY0021504 / KYS000002  
Quarterly Report (April – June 2017)

Dear Sir / Madam:

In accordance with the provisions of Section X, Paragraph 29.A of the above referenced document, the Lexington-Fayette Urban County Government (LFUCG) submits the enclosed April – June 2017 Quarterly Report to provide an update on Consent Decree projects and activities during the past quarter.

If you should have any questions, please contact me at (859) 425-2400.

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 the 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.





Signed

7-27-17

Date

Charles H. Martin, P.E., Director  
Division of Water Quality

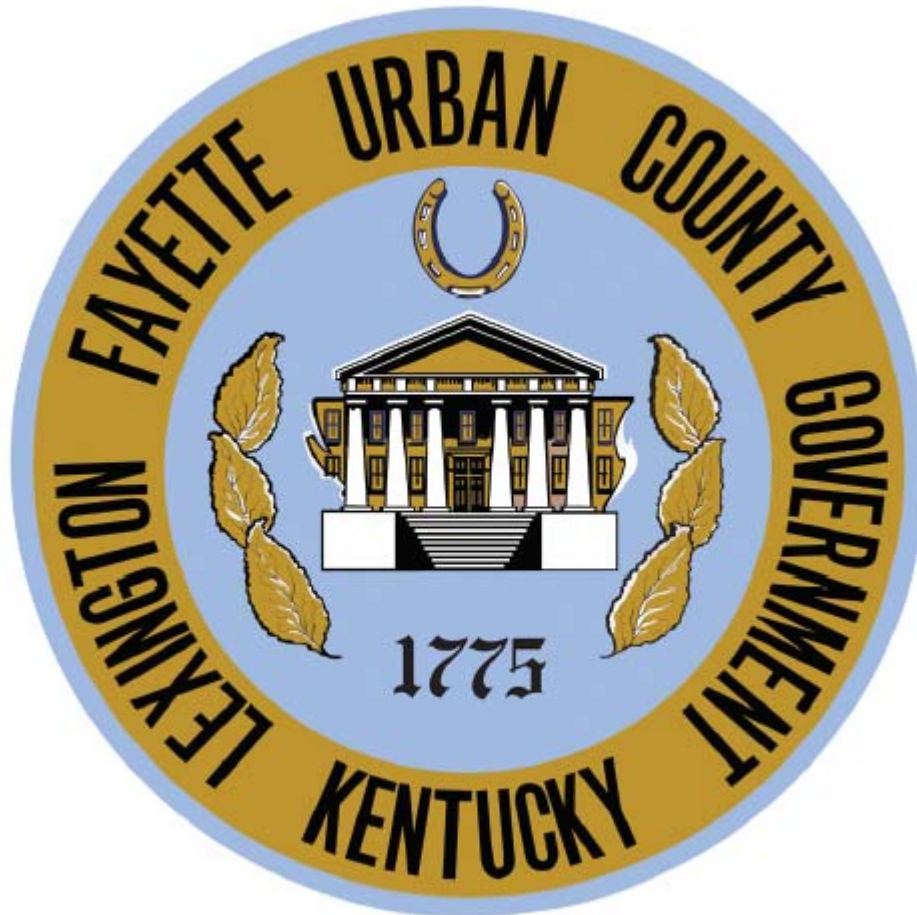
Enclosure: 2 copies to Water Programs Enforcement Branch; 1 copy to all other addresses

pc: Director of the Division of Enforcement  
Department for Environmental Protection  
300 Sower Boulevard  
Frankfort, KY 40601

Janet Graham, LFUCG Commissioner of Law  
Dowell Hoskins-Squier, P.E., LFUCG Commissioner of Environmental Quality and Public  
Works



# Consent Decree Quarterly Report



April – June 2017 Quarterly Report  
Second Quarter 2017

July 27, 2017

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Section IV	Violations
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**Section I**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**July 27, 2017**

**CD Language:**

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(i) A description of all projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format.

**LFUCG's Response:**

The following two tables provide information on projects and activities conducted during the previous calendar quarter related to the sanitary sewer system. Table 1.1 highlights activities related to the Remedial Measures Plans and the Capacity, Management, Operation and Maintenance Programs; and Table 1.2 shows the schedules for the Remedial Measures Plans projects, including interim milestones and progress to date. Based on guidance provided in a letter from EPA and KDEP to LFUCG dated February 12, 2014, LFUCG may adjust the completion years for the interim milestones. If any interim milestone dates have changed since the previously submitted quarterly report, they are highlighted yellow in Table 1.2.

Following Tables 1.1 and 1.2, Lexington is providing two tables that show the Recurring SSOs from Appendix A of the Consent Decree which have now been abated or relocated. An "Abated SSO" is a Recurring SSO from a manhole or pump station, as set forth in Appendix A of the Consent Decree, which has been "abated" by a repair or construction project and will not overflow during a rain event equal to or less than the design storm. A "Relocated SSO" is a Recurring SSO from a manhole, as set forth in Appendix A of the Consent Decree, which has been either removed from service or no longer overflows due to an adjacent construction project; however, this manhole's SSO has not been "abated" because the SSO was "relocated" to a new manhole or different existing manhole. The new SSO manhole to which the SSO was "relocated" will ultimately be "abated" by a future construction project. The list from Appendix A of the Consent Decree showed 111 Recurring SSO Locations. As of the second quarter of 2017, 48 of these locations have been abated and nine have been relocated. Table 1.3 shows the Recurring Manhole SSOs that have been abated or relocated, and Table 1.4 shows the Recurring Pump Station SSOs that have been abated.

**Table 1.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Completed – Second Quarter (April 1, 2017 – June 30, 2017)</i>	
<b>Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)</b>			
VII(15)(G)	Group 1 – Sanitary Sewer System and WWTP RMP (EH, WH, WR)	The EPA and KDEP issued a full approval of the RMPs, including the Implementation Schedule dated February 12, 2016, on March 18, 2016.	
	Group 2 – Sanitary Sewer System and WWTP RMP (TB, CR)		
	Group 3 – Sanitary Sewer System and WWTP RMP (NE, SE)		
VII(15)(G)(viii)	Sanitary Sewer System and WWTP RMP Implementation – Project Status	Table 1.2 includes a list of the RMP projects organized by group and sewershed, and shows the completion dates for the project milestones and indicates the milestones which have been completed to date.	
		<p>RMP Projects in design during the second quarter of 2017 include the following:</p> <ul style="list-style-type: none"> <li>• CR-2 Expansion Area 3 Pump Station</li> <li>• CR-3 Expansion Area 3 Force Main</li> <li>• CR-4 Expansion Area 3 Trunk</li> <li>• CR-5 Shandon Park Trunks</li> <li>• CR-6 Winburn Trunk</li> <li>• CR-7 Thoroughbred Acres Trunk</li> <li>• EH-2 East Hickman Pump Station, Phase 1</li> <li>• EH-3 East Hickman Wet Weather Storage Tank</li> <li>• EH-11 Eliminate East Lake Pump Station</li> <li>• TB-6 UK Trunk C</li> <li>• TB-7 UK Trunk D</li> <li>• TB-10 Midland Avenue Trunk, Phase 1 (TBC)</li> <li>• TB-11 WWTP-10 Primary Digesters</li> <li>• WH-1 WH7 Wet Weather Storage Tank</li> <li>• WH-5 Lansdowne South Trunk</li> <li>• WH-6 West Hickman Main Trunk D</li> <li>• WH-21 WWTP-13 Waste Sludge Holding</li> <li>• WH-21 WWTP-17 Scum Facility</li> <li>• WR-2 Wolf Run Main Trunk B</li> <li>• WR-3 Wolf Run Main Trunk C</li> </ul>	<p>RMP Projects under construction during the second quarter of 2017 include the following:</p> <ul style="list-style-type: none"> <li>• CR-1 Lower Cane Run Wet Weather Storage Tank</li> <li>• CR-9 Lower Griffin Gate Trunk</li> <li>• SE-1 South Elkhorn Pump Station Upsize</li> <li>• TB-11 WWTP-2 Primary Clarifier Equipment</li> <li>• WH-3 West Hickman Main Trunk B</li> <li>• WH-4 West Hickman Main Trunk C</li> <li>• WH-20 West Hickman WWTP Wet Weather Storage Tank</li> <li>• WH-21 WWTP-1 Influent Pump Station (with WH-20)</li> <li>• WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20)</li> <li>• WH-21 WWTP-3 Leaping Weir (with WH-20)</li> <li>• WH-21 WWTP-6 Zone 2 Aeration, Phase 2</li> <li>• WH-21 WWTP-7 Clarifier Flow Distribution</li> <li>• WH-21 WWTP-18 Non-potable Water System (with WH-20)</li> <li>• WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20)</li> </ul> <p>RMP Projects completed during the second quarter of 2017 include the following:</p> <ul style="list-style-type: none"> <li>• TB-4 UK Trunk A</li> </ul>

**Table 1.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<b>Consent Decree Section Number</b>	<b>Task</b>	<b>Work Completed – Second Quarter (April 1, 2017 – June 30, 2017)</b>
<b>Capacity, Management, Operation and Maintenance (CMOM) Programs</b>		
VII(16)	CMOM Programs Self-Assessment	<p>The CMOM Programs Self-Assessment, dated June 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continued implementation and tracking of CMOM Self-Assessment activities.</li> </ul> </li> </ul>
VII(16)(A)	Sewer Overflow Response Plan (SORP)	<p>The SORP, dated July 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Completed an internal audit to determine LFUCG’s effectiveness with implementing the SORP.</li> <li>○ Continued implementation and tracking of SORP activities with an emphasis on root cause analysis protocols.</li> </ul> </li> </ul>
VII(16)(B)	System Capacity Assurance Program (CAP)	<p>The CAP, dated March 2014, was approved by the EPA and Kentucky EEC on July 3, 2014.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continued collecting rainfall and flow data for 2017 monitoring season (27 meters). The four-month monitoring period began on March 23, 2017.</li> <li>○ Continued work on Technical Memorandum summarizing results from 2016 temporary flow monitoring and model recalibration/verification (including incorporation of completed sewer system improvements).</li> <li>○ Completed physical installation of equipment by LFUCG’s contractor at all permanent flow monitoring locations. QA/QC review of flow data at permanent flow monitoring locations to verify calibration is ongoing.</li> <li>○ Completed development of final deliverables identifying rehabilitation/replacement needs and earned capacity credit potential based on analysis of CCTV inspections by LFUCG of the wastewater collection system in the East Hickman, West Hickman, Cane Run, and North Elkhorn sewersheds.</li> <li>○ Continued CAP implementation by reviewing/processing capacity requests for flow increases to the LFUCG sewer system in accordance with the System Capacity Assurance Program Plan.</li> <li>○ Used hydraulic model to evaluate impact of theoretical inflow and infiltration removal on RMP project sizing.</li> <li>○ Completed smoke testing on the approximately 64,000 LF of the gravity wastewater collection system upstream of manholes NE1_117 and NE2_28. Smoke testing was undertaken to identify inflow sources contributing to wet weather peaks observed in flow monitoring results.</li> <li>○ Continued to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG.</li> <li>○ Harvested earned credits from sewer improvements completed by LFUCG in 2Q17.</li> <li>○ Continued implementation and tracking of CAP activities.</li> </ul> </li> </ul>



**Table 1.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<b>Consent Decree Section Number</b>	<b>Task</b>	<b>Work Completed – Second Quarter (April 1, 2017 – June 30, 2017)</b>
VII(16)(C)	Fats, Oils, and Grease (FOG) Control Program	<p>The FOG Control Program, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Completed permitting for all known FSEs, continued to find and permit previously unknown and new facilities.</li> <li>○ Issued 38 FOG permits and waivers (34 permits, 4 waivers).</li> <li>○ Continued routine inspections of Food Service Establishments (FSEs) based on risk ranking.</li> <li>○ Performed 376 FOG inspections (373 permits, 3 waivers).</li> <li>○ Issued 20 Notices of Violation (NOVs).</li> <li>○ No enforcement actions issued this quarter.</li> <li>○ Continued work with the Lexington-Fayette County Health Department (LFCHD) to include FOG training services in LFCHD’s Food Manager Certification Classes.</li> <li>○ Continued implementation and tracking of FOG Control Program activities.</li> </ul> </li> </ul>
VII(16)(D)	Gravity Line Preventative Maintenance Program (GLPMP)	<p>The GLPMP, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continued an internal review of the preventative maintenance (PM) list to validate current procedures and priorities.</li> <li>○ Continued implementation and tracking of GLPMP activities.</li> </ul> </li> </ul>
VII(16)(E)	Pump Station Operation Plan for Power Outages (PSOPPO)	<p>The PSOPPO, dated September 2012, was approved by the EPA and Kentucky EEC on October 3, 2013.</p> <ul style="list-style-type: none"> <li>• Work completed or in progress during the second quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continued implementation and tracking of PSOPPO activities.</li> </ul> </li> </ul>



**Table 1.2**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**RMP Project Milestones**



Completion deadlines are based on the approved schedule dated February 12, 2016.

 = Completed Work  
 = Adjusted Interim Milestone

Group	Sewer-shed	No.	Project Name	Preliminary Design	Complete Design	Award Contract	Begin Construction	Complete Permitting	Complete Construction
Group 1	East Hickman	1	East Hickman FM <sup>1</sup>	2017	2023	2024	2024	2024	2025
		2	East Hickman PS, Phase 1	2016	2017	2018	2018	2018	2019
			East Hickman PS, Phase 2 <sup>1</sup>	NA	NA	NA	2025	2025	2025
		3	East Hickman WWS Tank	2016	2017	2018	2018	2018	2019
		4	Overbrook Farm FM	2021	2021	2022	2022	2022	2022
		5	Overbrook Farm PS	2020	2020	2021	2021	2021	2022
		6	Overbrook Farm Trunk	2021	2021	2022	2022	2022	2022
		7	Delong Road PS & FM	2022	2022	2023	2023	2023	2024
		8	Armstrong Mill Trunks	2023	2023	2024	2024	2024	2024
		9	Hartland 2 & 3 Trunks	2023	2023	2024	2024	2024	2024
		10	Hartland 1 Trunk	2023	2023	2024	2024	2024	2024
		11	Eliminate East Lake PS	2018	2018	2019	2019	2019	2019
		12	Century Hills Trunk Upsize	2013	2013	2014	2014	2014	2014
		13	East Lake Trunk Upsize	2013	2013	2014	2014	2014	2014
		14	Autumn Ridge Trunk Upsize	2025	2025	2026	2026	2026	2026
	Expansion Area #1 Property Acquisition	2020	2020						
Group 1	West Hickman	1	WH7 WWS Tank	2017	2017	2017	2017	2017	2018
		2	West Hickman Main Trunk A	2013	2013	2014	2014	2014	2015
		3	West Hickman Main Trunk B	2016	2016	2017	2017	2017	2017
		4	West Hickman Main Trunk C	2016	2016	2017	2017	2017	2017
		5	Lansdowne South Trunk	2018	2018	2019	2019	2019	2019
		6	West Hickman Main Trunk D	2018	2018	2019	2019	2019	2019
		7	Merrick Trunk	2023	2023	2024	2024	2024	2024
		8	Ecton Trunk	2024	2024	2025	2025	2025	2025
		9	Southeastern Hills Trunk	2020	2020	2021	2021	2021	2021
		10	West Hickman Main Trunk E	2022	2022	2023	2023	2023	2023
		11	West Hickman Main Trunk F	2023	2023	2024	2024	2024	2024
		12	Sutherland Trunk	2025	2025	2026	2026	2026	2026
		13	Idle Hour Trunk	2013	2013	2014	2014	2014	2014
		14	Centre Parkway Trunk	2025	2025	2026	2026	2026	2026
		15	The Island Trunks	2025	2025	2026	2026	2026	2026
		16	Woodhill Trunk	2013	2015	2015	2015	2015	2015
		17	Prather Road Trunk	2025	2025	2026	2026	2026	2026
		18	Richmond Road Trunk	2025	2025	2026	2026	2026	2026
		19	Wildwood Park Trunk	2021	2021	2022	2022	2022	2022
		20	WH WWTP WWS Tank	2015	2016	2016	2016	2016	2018
			WH WWTP WWS Tank Phase 2	2021	2021	2022	2022	2022	2023
		21	West Hickman WWTP Reliability Upgrades						
			WWTP-1 Influent Pump Station	2018	2018	2018	2018	2018	2018
			WWTP-2 Raw Sewage Pump Station	2018	2018	2018	2018	2018	2018
			WWTP-3 Leaping Weir	2018	2018	2018	2018	2018	2018
			WWTP-4 BPR Improvements	2019	2020	2020	2020	2020	2020
			WWTP-5 Zone 1 Aeration	2013	2014	2014	2014	2014	2014
			WWTP-6 Zone 2 Aeration, Phase 1	2013	2014	2014	2014	2014	2014
			Zone 2 Aeration, Phase 2	2017	2017	2017	2017	2017	2017
			WWTP-7 Clarifier Flow Distribution	2019	2019	2019	2019	N/A	2019
			WWTP-8 Disinfection	2022	2022	2022	2022	2022	2022
			WWTP-9 Dechlorination	2022	2022	2022	2022	2022	2022
	WWTP-10 Final Effluent PS	2020	2021	2021	2021	2021	2021		
	WWTP-11 Return Activated Sludge Pumping	2023	2023	2023	2023	2023	2023		
	WWTP-12 Waste Activated Sludge Pumping	2024	2024	2024	2024	2024	2024		
	WWTP-13 Waste Sludge Holding	2018	2018	2018	2018	2018	2018		
	WWTP-14 Waste Sludge Thickening	2025	2025	2025	2025	2025	2025		
	WWTP-15 Belt Press Replacement	2021	2021	2021	2021	2021	2021		
	WWTP-16 Dewatering	2024	2024	2024	2024	2024	2024		
	WWTP-17 Scum Facility	2018	2018	2018	2018	2018	2018		
	WWTP-18 Non-potable Water System	2018	2018	2018	2018	2018	2018		
	WWTP-19 Emergency Electrical Power	2023	2023	2023	2023	2023	2023		
	WWTP-20 Odor Control Facilities, Phase 1	2013	2014	2014	2014	2014	2014		
	Odor Control Facilities, Phase 2	2018	2018	2018	2018	2018	2018		
	WWTP-21 Road Repair	2026	2026	2026	2026	2026	2026		
Group 1	Wolf Run	1	Wolf Run Main Trunk A	2013	2014	2014	2014	2014	2015
		2	Wolf Run Main Trunk B	2017	2017	2018	2018	2018	2018
		3	Wolf Run Main Trunk C	2017	2017	2018	2018	2018	2019
		4	Wolf Run Main Trunk D	2020	2020	2021	2021	2021	2021
		5	Wolf Run Main Trunk E	2020	2020	2021	2021	2021	2021
		6	Wolf Run Main Trunk F	2021	2021	2022	2022	2022	2022
		7	Wolf Run Main Trunk G	2022	2022	2023	2023	2023	2023
		8	Wolf Run WWS Tank	2014	2015	2015	2015	2015	2016
		9	Parkers Mill Trunk	2022	2022	2023	2023	2023	2023
		10	Bob O Link Trunk	2013	2013	2014	2014	2014	2014
		11	Wolf Run Pump Station	2009	-	2012	2012	-	2014

**Table 1.2**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**RMP Project Milestones**

Completion deadlines are based on the approved schedule dated February 12, 2016.

 = Completed Work  
 = Adjusted Interim Milestone

Group	Sewer-shed	No.	Project Name	Preliminary Design	Complete Design	Award Contract	Begin Construction	Complete Permitting	Complete Construction	
Group 2	Cane Run	1	Lower Cane Run WWS Tank	2014	2015	2015	2015	2015	2017	
		2	Expansion Area 3 PS	2016	2017	2017	2017	2017	2018	
		3	Expansion Area 3 FM	2016	2017	2017	2017	2017	2018	
		4	Expansion Area 3 Trunk	2017	2017	2018	2018	2018	2018	
		5	Shandon Park Trunks	2017	2017	2018	2018	2018	2018	
		6	Winburn Trunk	2017	2017	2018	2018	2018	2018	
		7	Thoroughbred Acres Trunk	2017	2017	2018	2018	2018	2018	
		8	Sharon Village PS and FM	2018	2018	2019	2019	2019	2020	
		9	Lower Griffin Gate Trunk	2014	2016	2018	2018	2018	2018	
		10	Upper Cane Run WWS Tank	2020	2020	2021	2021	2021	2021	
		11	Cane Run Trunk	2018	2018	2019	2019	2019	2019	
		12	Lexmark Trunk A	2019	2019	2020	2020	2020	2020	
		13	Lexmark Trunk B	2019	2019	2020	2020	2020	2020	
		14	New Circle Trunk A	2020	2020	2021	2021	2021	2021	
		15	New Circle Trunk B	2021	2021	2022	2022	2022	2022	
		16	Griffin Gate Rehab	2019	2019	2020	2020	2020	2020	
	Town Branch	1	Town Branch WWTP WWS Tank	2013	2014	2014	2014	2014	2015	2016
		2	Town Branch WWTP WWS Tank Phase 2	2023	2023	2024	2024	2024	2025	
		3	Town Branch PS Replacement	2018	2019	2019	2019	2019	2019	
		4	Tie-in Lower Cane Run FM	2014	2014	2014	2015	2015	2016	
		5	UK Trunk A	2016	2016	2016	2016	2016	2017	
		6	UK Trunk B (Newtown Pike Extension)	-	-	-	2014	-	2016	
		7	UK Trunk C	2018	2018	2019	2019	2019	2019	
		8	UK Trunk D	2019	2019	2020	2020	2020	2020	
		9	UK Trunk E	2019	2019	2020	2020	2020	2020	
		10	Georgetown Road Trunk	2024	2024	2025	2025	2025	2025	
		11	Midland Avenue Trunk, Phase 1 (TBC)	2017	2018	2018	2019	2019	2023	
		12	Midland Avenue Trunk, Phase 2	2022	2022	2023	2023	2023	2023	
		13	Town Branch WWTP Reliability Upgrades							
		14	WWTP-1 Headworks	2015	2016	2016	2016	2016	2016	
		15	WWTP-2 Primary Clarifier Equipment	2018	2018	2018	2018	2018	2018	
		16	WWTP-3 Aeration Basins	2020	2021	2021	2021	2021	2021	
		17	WWTP-4 Final Clarifier Equipment, Phase 1	2014	2014	2014	2014	2014	2014	
18		WWTP-4 Final Clarifier Equipment, Phase 2	2024	2025	2025	2025	2025	2025		
19		WWTP-5 RAS Pump Station	2022	2022	2022	2022	2022	2022		
20		WWTP-6 WAS Pump Station	2026	2026	2026	2026	2026	2026		
21	WWTP-7 Gravity Thickeners	2018	2019	2019	2019	2019	2019			
22	WWTP-8 Disinfection	2024	2024	2024	2024	2024	2024			
23	WWTP-9 Non-potable Water PS	2024	2024	2024	2024	2024	2024			
24	WWTP-10 Primary Digesters	2016	2017	2017	2017	2017	2018			
25	WWTP-11 Secondary Digesters / Sludge Holding	2019	2020	2020	2020	2020	2020			
26	WWTP-12 Dewatering	2018	2019	2019	2019	2019	2019			
27	WWTP-13 Scum Facility	2021	2021	2021	2021	2021	2021			
28	WWTP-14 Site	2023	2024	2024	2024	2024	2026			
Group 3	North Elkhorn	1	North Elkhorn PS WWS Tank	2025	2025	2026	2026	2026	2026	
		2	Eastland Trunk	2022	2022	2023	2023	2023	2023	
		3	Liberty Road Trunk	2020	2020	2021	2021	2021	2021	
		4	Greenbrier #2 PS	2024	2024	2025	2025	2025	2025	
		5	Greenbrier Trunk	2024	2024	2025	2025	2025	2025	
		6	Floyd Drive Rehab	2023	2023	2024	2024	2024	2024	
		7	Expansion Area 2A Projects	-	-	2012	2012	-	2014	
	South Elkhorn	1	South Elkhorn PS Upsize	2016	2017	2017	2017	2017	2017	
		2	Mint Lane Trunk	2024	2024	2025	2025	2025	2025	
		3	Mint Lane PS	2024	2024	2025	2025	2025	2025	

Notes: If a date was not provided for a milestone, then the milestone was completed prior to the creation of this table.

<sup>1</sup>The completion dates for these projects were revised per the EPA- and KDEP-approved modification request dated March 13, 2017.

**Table 1.3**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Recurring Manhole SSOs Abated/Relocated**

Date Abated/ Relocated	CD SSO #	SSO Manhole ID #	Manhole Address	Sewershed	Abated or Relocated	Reason for SSO Abatement/Relocation	New SSO Manhole ID #	Final RMP Project to Enable Abatement
<b>3rd Quarter 2013 Manhole Recurring SSOs Abated/Relocated</b>								
8/13/2013	25	TB5 43	410 Rose Lane	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	26	TB5 46A	457 Woodland	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	27	TB5 326	146 McDowell Road	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	28	TB5 344	1004 Slashes Road	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	49	WH4 54	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	50	WH4 32	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 1 Overflow Reported in 2Q10	N/A	N/A
8/13/2013	51	WH4 65B	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	58	WH3 500	Centre Pkwy	West Hickman	Abated	PM Issue / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	73	NE1 90	Hisle Way	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	74	NE1 199	Dartmoor Drive	North Elkhorn	Abated	Rehab Project on Dartmoor / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	75	NE1 84	Chatsworth Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	76	NE1 83	Chatsworth Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	77	NE1 25	Gayle Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	78	CR6 130A	Seventh & Jackson	Cane Run	Abated	Collection System Rehab / 0 Overflows in 11 yrs	N/A	N/A
8/13/2013	79	CR6 132A	Shelby Street	Cane Run	Abated	Manhole Removed From System	N/A	N/A
8/13/2013	80	CR5 201	Edgelawn Avenue	Cane Run	Abated	2001 Sewer Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	81	CR4 175	Pierson Drive	Cane Run	Abated	On PM list / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	83	CR2 161	Pennebaker Drive	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	94	WH10 400	Nicholasville Road	West Hickman	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	96	WR3 103A	Poppy Road	Wolf Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	97	NE2 154	Jingle Bell (1454)	North Elkhorn	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	100	TB3 486	Nelson Avenue	Town Branch	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	101	TB5 15	Park Avenue	Town Branch	Abated	Non-Recurring SSO / 1 Reported Overflow 2Q08	N/A	N/A
8/13/2013	102	CR7 134	Stanton Way (1950)	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	103	CR7 125	Newtown Pike	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	104	CR5 25	Deepwood Drive	Cane Run	Abated	On PM list / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	105	CR3 18C	Loudon Avenue (115)	Cane Run	Abated	On PM List / 1 Reported Overflow 4Q12	N/A	N/A
8/13/2013	110	TB5 17	443 Oldham Avenue	Town Branch	Abated	Identified as Relief Sewer to Euclid Avenue	N/A	N/A
8/13/2013	111	TB2 33	648 S Broadway	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
<b>4th Quarter 2013 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>1st Quarter 2014 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>2nd Quarter 2014 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>3rd Quarter 2014 Manhole Recurring SSOs Abated/Relocated</b>								
8/15/2014	108	CR3 51	772 N Broadway	Cane Run	Abated	Plugged 1/30/2014	N/A	N/A
9/30/2014	109	TB5 14	441 Park Avenue	Town Branch	Abated	Determined To Not Be a Cross Connection	N/A	N/A
<b>4th Quarter 2014 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>1st Quarter 2015 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								

**Table 1.3  
CD Quarterly Report  
Second Quarter 2017  
Recurring Manhole SSOs Abated/Relocated**

Date Abated/ Relocated	CD SSO #	SSO Manhole ID #	Manhole Address	Sewershed	Abated or Relocated	Reason for SSO Abatement/Relocation	New SSO Manhole ID #	Final RMP Project to Enable Abatement
<b>2nd Quarter 2015 Manhole Recurring SSOs Abated/Relocated</b>								
11/6/2014	106	EH3_90	1165 Mt Rushmore Way	East Hickman	Relocated	Century Hills Trunk Project (EH-12)	EH3-1030	EH WWS Tank (EH-3)
11/10/2014	62	WR4_10	586 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
11/10/2014	63	WR4_9	586 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
11/10/2014	64	WR4_25	380 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
<b>3rd Quarter 2015 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>4th Quarter 2015 Manhole Recurring SSOs Abated/Relocated</b>								
12/19/2014	10	WH7_280	204 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_931	WH7 WWS Tank (WH-1)
12/19/2014	11	WH7_294	209 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_941	WH7 WWS Tank (WH-1)
12/19/2014	12	WH7_295A	209 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_958	WH7 WWS Tank (WH-1)
9/30/2015	5	WH7_97E	2401 Richmond Road	West Hickman	Abated	Woodhill Trunk Project (WH-16)	N/A	N/A
12/19/2015	3	WH7_98	2399 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	4	WH7_97G	2399 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	6	WH7_103	2350 Woodhill Shopping	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_991	WH7 WWS Tank (WH-1)
12/19/2015	7	WH7_35A	2300 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	8	WH7_36	2300 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
<b>1st Quarter 2016 Manhole Recurring SSOs Abated/Relocated</b>								
3/31/2016	30	Basement	245 Radcliffe Road	Cane Run	Abated	Backtrap Valve Installed in 2000	N/A	N/A
3/31/2016	31	Basement	209 Radcliffe Road	Cane Run	Abated	Former Maintenance Issue	N/A	N/A
3/31/2016	32	Basement	236 Chenault Road	Town Branch	Abated	Backtrap Valve Installed in 2003 to Address Surface Water Flooding	N/A	N/A
<b>2nd Quarter 2016 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>3rd Quarter 2016 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>4th Quarter 2016 Manhole Recurring SSOs Abated/Relocated</b>								
no changes								
<b>1st Quarter 2017 Manhole Recurring SSOs Abated/Relocated</b>								
1/18/2017	N/A*	TB5_102A	1100 Nicholasville Road	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
<b>2nd Quarter 2017 Manhole Recurring SSOs Abated/Relocated</b>								
6/30/2017	99	TB1_155	Manchester Avenue	Town Branch	Abated	UK Trunk A Project (TB-4)	N/A	N/A

\*During the development of the RMP, LFUCG determined, via the hydraulic model, that manhole TB5\_102A surcharged to the point that it would be in violation of the Capacity Assurance Program. During the third quarter of 2014, LFUCG determined that manhole TB5\_102A was a cross connection and has reported it as such since then. Although this manhole is not included in Appendix A of the Consent Decree, LFUCG has completed a non-RMP capital project to remove this cross connection and now considers this manhole to be abated.

**Table 1.4**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Recurring Pump Station SSOs Abated**

Date Abated	CD SSO #	Pump Station Name	Pump Station Address	Sewershed	Reason for Recurring SSO Abatement
<b>3rd Quarter 2013 Pump Station Recurring SSO Abatement</b>					
8/13/2013	1	South Elkhorn	2500 Bowman Mill Road	South Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	2	North Elkhorn	2201 Elkhorn Road	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	16	Deep Springs	469 Anniston Drive	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	17	Dixie	1459 Huntsville Drive	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	92	Bluegrass Field	1031 Air Freight Drive	South Elkhorn	Capital Project Constructed New Pump Station
<b>4th Quarter 2013 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>1st Quarter 2014 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>2nd Quarter 2014 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>3rd Quarter 2014 Pump Station Recurring SSO Abatement</b>					
8/15/2014	88	Greenbrier #1	3770 Katkay Drive	North Elkhorn	Decommissioned
<b>4th Quarter 2014 Pump Station Recurring SSO Abatement</b>					
10/3/2014	18	Wolf Run	755 Enterprise Dr	Wolf Run	Capital Project Constructed New Pump Station
10/3/2014	24	Man-O-War	2079 Bryant Rd	North Elkhorn	Decommissioned
10/3/2014	91	Hamburg Farm	1936 Pavillion Way	North Elkhorn	Rehabilitated
<b>1st Quarter 2015 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>2nd Quarter 2015 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>3rd Quarter 2015 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>4th Quarter 2015 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>1st Quarter 2016 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>2nd Quarter 2016 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>3rd Quarter 2016 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>4th Quarter 2016 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>1st Quarter 2017 Pump Station Recurring SSO Abatement</b>					
no changes					
<b>2nd Quarter 2017 Pump Station Recurring SSO Abatement</b>					
no changes					

The following two tables provide information on projects and activities conducted during the last calendar quarter related to the storm sewer system. Table 1.5 highlights various Stormwater Quality Management Program activities and Table 1.6 shows the Performance Standards with deadlines during the previous quarter.

**Table 1.5**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Stormwater Quality Management Program**

1.	Performance Standards – see Table 1.6 highlighting the status of the Performance Standards with monthly and twice annually deadlines.
2.	Stormwater Quality Management Program – LFUCG continued implementing its <u>Stormwater Quality Management Program</u> , dated June 1, 2016.
3.	Water Quality Management Fee Implementation – Ongoing Stormwater Quality Projects Incentive Grant Program grants continued as scheduled and some were completed. Grant award agreements were forwarded to the Urban County Council for award as they were executed. The Water Quality Fees Board met on April 13, 2017. The primary topic for that meeting was to conduct site visits of grant projects. Staff promoted the grant program at a Trees Lexington meeting on May 5, 2017. Applications for Class A and Class B Education grants were due on May 12, 2017, and a pre-submittal meeting for Class B Infrastructure grants was held on June 23, 2017.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> <li>• DEQ&amp;PW staff hosted displays about stormwater, trees, and/or litter at the Arboretum on April 7th and April 29th, at the University of Kentucky’s Staff Appreciation Day on May 25th, at Lexington’s Pride Festival on June 24th, and at the Farm to Table Cooking Camp on June 30th.</li> <li>• Schools and students were honored at the annual School Recognition Ceremony to award schools that are implementing sustainable practices.</li> <li>• The database of people wanting to receive information from LFUCG’s Division of Water Quality continued to be updated.</li> <li>• The website continued to be updated.</li> <li>• DEQ&amp;PW staff appeared on local TV news shows to promote the Kentucky River Sweep event.</li> </ul>

5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> <li>• Reforest The Bluegrass was held on April 15th.</li> <li>• Household Hazardous Waste Collection was held on April 22nd.</li> <li>• River Sweep was held on June 17th.</li> <li>• DEQ&amp;PW staff gave a presentation to the Citizens Environmental Academy about water quality and Lexington’s Consent Decree on June 24th.</li> <li>• Storm drain stenciling continued.</li> <li>• The Stormwater Stakeholder Advisory Committee met on June 2nd.</li> </ul>
6.	<p>Illicit Discharge Detection and Elimination – During the second quarter of 2017, 70 IDDE investigations were completed and 16 investigations were initiated or are ongoing and in monitoring status. Ten responsible parties received NOVs. LFUCG sent 64 letters during the quarter to residents and IDDE responsible parties regarding stormwater pollution education with pertinent ordinance and cleanup information. Dry Weather Screening was completed at 90 Major Outfalls during the second quarter. Streets and Roads staff received IDDE and ESC training on June 23rd.</p>
7.	<p>Construction Site Stormwater Runoff Control – Monthly inspections of active construction sites and twice-monthly inspections of targeted construction sites continued. Streets and Roads staff received IDDE and ESC training during the second quarter.</p>
8.	<p>Post-Construction Stormwater Management in New Development and Redevelopment – Inspections of detention basins, retention ponds, stormwater control devices, and critical culverts continued. 26 water quality BMPs at eight sites were added to the inventory during the second quarter.</p>
9.	<p>Pollution Prevention for Municipal Operations – LFUCG’s Suntime units, Stormceptors, and other stormwater quality control BMPs were inspected and maintained, as needed. LFUCG continued a quarterly highlight of a Greenworks Guide on its intranet during the second quarter.</p> <p>Contractors removed over 31 tons of litter and debris from streams, drainageways, and public rights-of-way at 19 locations during the second quarter.</p>

10.	Industrial Facility Stormwater Pollution Prevention – Eight industrial facilities and one high-risk commercial facility were inspected during the second quarter. Staff gave a presentation on stormwater management to employees at C&R Asphalt on June 5th.
11.	Water Quality Monitoring – Monitoring this quarter included quarterly dry and wet weather sampling and macroinvertebrate collections. Sampling and data collection continued in Cane Run for the Watershed-Focused Monitoring Program, including the Summer Phase 2 Screening, Stream Corridor Characterizations, and Stream Biological collections.
12.	Reporting and Recordkeeping – Ongoing recordkeeping continued.
13.	TMDLs and Impaired Waters – Work continued to develop a list of appropriate BMPs for potential implementation.



**Table 1.6**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Status of Consent Decree MS4 Performance Standards as of 6/30/17**

<b>MS4 Performance Standard</b>		<b>Completion Schedule</b>	<b>Status</b>	<b>Comparison of Actual Performance to Performance Standard</b>
CS-6	Commencing with the first full calendar month after entry of the Consent Decree, conduct monthly inspections of at least 90% of active construction sites with reasonable potential to discharge to the MS4.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement each month of the second quarter of 2017 (97.9% for April, 98.9% for May, and 99.6% for June).
PPRC-14	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the publicly- and privately-owned detention basins with reasonable potential to discharge pollutants to the MS4 at least two times a year.	First Full Calendar Month After CD Effective Date	Completed, but occurs twice annually.	LFUCG met the 90% requirement for the first round of inspections in 2017. As of May 17, 2017, the first round was completed with 1,205 out of 1,205 detention basins having been inspected. One detention basin was added to the inventory and six detention basins were removed from the inventory in June 2017, for a current total inventory of 1,200.
PPRC-15	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the publicly- and privately-owned retention ponds with reasonable potential to discharge pollutants to the MS4 at least once a month.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement each month of the second quarter of 2017 (100% for all three months). As of June 30, 2017, there were 96 retention ponds on the inventory.
PPRC-16	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the culverts in Appendix LL of the SWQMP for clogging and excessive buildup of sediment at least once a month and within three days of a rainfall of 1 inch or more in a calendar day.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement for the monthly inspections for the second quarter of 2017 (100% for all three months). Additionally, there was one rain event during this quarter with greater than 1" of rainfall in a calendar day (Friday, 6/23). LFUCG completed a round of inspections within one working day of the event and achieved >90% of the inspections for this event (100% on 6/26). The critical culvert inventory has 43 locations as of June 30, 2017.

Table 1.7 provides information on progress completed during the last calendar quarter related to the implementation of the Supplemental and Commonwealth Environmental Projects required by the Consent Decree.

**Table 1.7**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Supplemental and Commonwealth Environmental Projects**

J-1	Coldstream Park Stream Corridor Restoration and Preservation SEP – Grading and earthwork commenced during the second quarter. The bioswale was constructed and seeded.
J-2	Green Infrastructure SEP – Complete. LFUCG submitted the SEP Completion Report to the EPA and Kentucky EEC on June 29, 2012.
K-1	Blue Sky Package Treatment Plant Elimination Project – Complete.
K-2	<p>Flooding Evaluation Project –</p> <p>LFUCG’s acquisition of 1653 Gayle Drive is complete.</p> <p>All demolition and site restoration on Clarksdale Court has been completed and this FEMA project is now complete.</p> <p>Wilson Downing Tributary design continued and right-of-way acquisition began during the second quarter. This project is being coordinated with RMP Project WH-5 Lansdowne South Trunk.</p> <p>The demolition of 134, 135, and 137 Elam Park is complete.</p> <p>Investigation and design, including surveying and hydrologic and hydraulic (H&amp;H) modeling, of the Southland stormwater project began during the second quarter. The rain event on June 23rd will serve as a calibration event for the H&amp;H model.</p>

**Section II**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**July 27, 2017**

**CD Language:**

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(ii) The date, locations, estimated volume, and cause (if known) of all SSOs for the most recently completed quarter; a cumulative accounting of the estimated reduction in volume and in number of occurrences of SSOs and Unpermitted Bypasses.

**LFUCG's Response:**

The attached tables provide information related to SSOs and Unpermitted Bypasses during the most recently completed calendar quarter. The following is a list of the tables included:

- Table 2.1: 2nd Quarter 2017 SSO Overview
- Table 2.2: 2nd Quarter 2017 Manhole Overflows sorted chronologically
- Table 2.3: 2nd Quarter 2017 Manhole Overflows sorted by cause
- Table 2.4: 2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 (provides a listing of individual overflow locations and lists the number of overflows for each specific location and cause for each quarter)
- Table 2.5: 2nd Quarter 2017 Pump Station Overflows and Bypasses sorted chronologically
- Table 2.6: 2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 (provides a listing of individual overflow/bypass locations and lists the number of overflows for each specific location and cause for each quarter)
- Table 2.7: 2nd Quarter 2017 WWTP Unpermitted Bypasses

**Table 2.1**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**SSO Overview**

<b>2nd Quarter 2017 SSO Report Comparative Overview</b>						
Source	Number of Overflows 2nd QTR 2017	Number of Overflows 2nd QTR 2016	Number of Overflows 1st QTR 2017	Total Estimated Overflow Volume (gallons) 2nd QTR 2017	Total Estimated Overflow Volume (gallons) 2nd QTR 2016	Total Estimated Overflow Volume (gallons) 1st QTR 2017
Manhole Overflows <sup>^</sup>	47	32	109	11,256,326	327,676	6,635,571
Pump Station Overflows and/or Bypasses	23	12	16	6,009,480	6,108,940	8,888,141
WWTP Unpermitted Bypasses	1	0	1	60,000	0	60,000
Cumulative Totals	71	44	126	17,325,806	6,436,616	15,583,712

<sup>^</sup>Includes 8 Basement Backups in 2Q17, 1 Basement Backup in 2Q16, and 4 Basement Backups in 1Q17.

<b>Quarterly Liquid Precipitation (in inches)</b>				
Quarter	April	May	June	Total Cumulative
2nd Qtr 2017	1.75	5.73	5.73	13.21
2nd Qtr 2016	3.15	6.64	4.56	14.35
	January	February	March	Total Cumulative
1st Qtr 2017	4.72	3.39	3.28	11.39
Note: Quarterly Liquid Precipitation readings were acquired from the University of Kentucky Agricultural Weather Center at the following website <a href="http://wwwagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl">http://wwwagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl</a>				

<b>Quarterly Significant Precipitation Events</b>	
Date	Inches in 24-hour Period
5/1/2017	1.07
5/21/2017	0.90
6/23/2017	3.15
Note: Quarterly Significant Precipitation Events were acquired from the University of Kentucky Agricultural Weather Center at the following website: <a href="http://wwwagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl">http://wwwagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl</a>	

**Table 2.2**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Manhole Overflows**

<b>2nd Quarter 2017 Sanitary Sewer Overflows (Manholes)</b>								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
4/17/2017	Basement	309 Ohio St	Town Branch	Debris	5	-	-	-
4/24/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	39,000	-	-	-
4/26/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	6,750	-	-	-
4/27/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	6,000	-	-	-
4/28/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	11,250	-	-	-
5/5/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	10,305,000	-	-	-
5/13/2017	SE5_891	3558 Juliann Cir	South Elkhorn	Debris	450	-	-	-
5/30/2017	SE2_202	3601 Rabbits Foot Trl	South Elkhorn	Debris	225	-	-	-
6/4/2017	NE1_356A	1505 Auburn Ct	North Elkhorn	Debris	425	-	-	-
6/14/2017	TB4_73	150 Grand Blvd	Town Branch	Debris	425	-	-	-
6/20/2017	WH6_24	3416 Heritage Pl	West Hickman	Debris	2,375	-	-	-
6/23/2017	Basement	205 Cochran Rd	Town Branch	Sustained Rain Event	1,604	-	-	-
6/23/2017	Basement	209 Cochran Rd	Town Branch	Sustained Rain Event	1,623	-	-	-
6/23/2017	Basement	216 St Ann Dr	West Hickman	Sustained Rain Event	2,145	-	-	-
6/23/2017	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	29,750	Appendix A <sup>+</sup>	29	WR-5
6/23/2017	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	2,500	-	-	-
6/23/2017	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	5,050	-	-	CR-14
6/23/2017	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	5,050	Appendix A	82	CR-14
6/23/2017	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	7,250	Table A-1a	1	EH-11
6/23/2017	WH1_51	**3770 Forest Green Dr (Belleau Wood Park)	West Hickman	Sustained Rain Event	11,000	Table A-1a	17	WH-4
6/23/2017	WH10_2	769 Rainwater Dr	West Hickman	Sustained Rain Event	10,000	-	-	WH-3
6/23/2017	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	15,750	Appendix A	59	WH-5
6/23/2017	WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	10,000	-	-	WH-9
6/23/2017	WH3_144	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	5,425	-	-	WH-7
6/23/2017	WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	27,125	Appendix A	55	WH-7
6/23/2017	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	5,425	Appendix A	54	WH-7
6/23/2017	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	27,250	Appendix A	52	WH-12
6/23/2017	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	25,375	Appendix A	45	WH-8
6/23/2017	TB3_1137	250 Lewis St	Town Branch	Sustained Rain Event	1,500	-	-	^
6/23/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	20,250	Appendix A	38	WH-11
6/23/2017	WH6_74	**3538 Creekwood Dr	West Hickman	Sustained Rain Event	23,250	Table A-1a	10	WH-11
6/23/2017	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	8,750	Appendix A	9	WH-13
6/23/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	74,000	-	-	WH-1
6/23/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	74,000	-	-	WH-1

**Table 2.2**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Manhole Overflows**

<b>2nd Quarter 2017 Sanitary Sewer Overflows (Manholes)</b>								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
6/23/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	74,000	-	-	WH-1
6/23/2017	WH8_1271	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000	-	-	^^
6/23/2017	WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	52,250	Appendix A	69	WR-5
6/23/2017	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	11,250	Table A-1a	29	WR-9
6/23/2017	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	142,000	Appendix A	71	WR-4
6/23/2017	MH1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000	-	-	^^
6/23/2017	MH2	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000	-	-	^^
6/23/2017	MH3	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000	-	-	^^
6/24/2017	Basement	766 Sandpiper Ct	Cane Run	Sustained Rain Event	2,272	-	-	-
6/24/2017	Basement	2063 New Orleans Dr	North Elkhorn	Sustained Rain Event	1,032	-	-	-
6/24/2017	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	159,500	-	-	NE-6
6/28/2017	Basement	206 Catalpa Rd	Town Branch	Sustained Rain Event	1,565	-	-	-
6/28/2017	Basement	208 Catalpa Rd	Town Branch	Sustained Rain Event	2,480	-	-	-
		Total Overflows	47	Total Estimated Overflow Volume		11,256,326		

\* Appendix A refers to Appendix A of the Consent Decree which lists the locations of recurring SSOs and unpermitted discharges. Revised Table A-1a refers to a list of additional known SSOs which were not included in Appendix A of the Consent Decree, but that will be addressed by the RMP projects.

\*\* Address for manhole was changed to match previously reported address.

† Manhole also appears on Table A-1a as #30.

^ Newly found cross connection.

^^ Overflows were caused by a sustained rain event that occurred during construction of a new trunk sewer.

**Table 2.3**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Manhole Overflows - Sorted by Cause**

<b>2nd Quarter 2017 Sanitary Sewer Overflows (Manholes)</b>					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
<b>Break</b>					
4/24/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	39,000
4/26/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	6,750
4/27/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	6,000
4/28/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	11,250
5/5/2017	PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	10,305,000
		Total Overflows	5	Total Estimated Overflow Volume	10,368,000
<b>Debris In Line/Blockage</b>					
4/17/2017	Basement	309 Ohio St	Town Branch	Debris	5
5/13/2017	SE5_891	3558 Juliann Cir	South Elkhorn	Debris	450
5/30/2017	SE2_202	3601 Rabbits Foot Trl	South Elkhorn	Debris	225
6/4/2017	NE1_356A	1505 Auburn Ct	North Elkhorn	Debris	425
6/14/2017	TB4_73	150 Grand Blvd	Town Branch	Debris	425
6/20/2017	WH6_24	3416 Heritage Pl	West Hickman	Debris	2,375
		Total Overflows	6	Total Estimated Overflow Volume	3,905
<b>Sustained Rain Event</b>					
6/23/2017	Basement	205 Cochran Rd	Town Branch	Sustained Rain Event	1,604
6/23/2017	Basement	209 Cochran Rd	Town Branch	Sustained Rain Event	1,623
6/23/2017	Basement	216 St Ann Dr	West Hickman	Sustained Rain Event	2,145
6/23/2017	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	29,750
6/23/2017	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	2,500
6/23/2017	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	5,050
6/23/2017	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	5,050
6/23/2017	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	7,250
6/23/2017	WH1_51	**3770 Forest Green Dr (Belleau Wood Park)	West Hickman	Sustained Rain Event	11,000
6/23/2017	WH10_2	769 Rainwater Dr	West Hickman	Sustained Rain Event	10,000
6/23/2017	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	15,750
6/23/2017	WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	10,000
6/23/2017	WH3_144	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	5,425

**Table 2.3**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Manhole Overflows - Sorted by Cause**

2nd Quarter 2017 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
6/23/2017	WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	27,125
6/23/2017	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	5,425
6/23/2017	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	27,250
6/23/2017	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	25,375
6/23/2017	TB3_1137	250 Lewis St	Town Branch	Sustained Rain Event	1,500
6/23/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	20,250
6/23/2017	WH6_74	**3538 Creekwood Dr	West Hickman	Sustained Rain Event	23,250
6/23/2017	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	8,750
6/23/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	74,000
6/23/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	74,000
6/23/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	74,000
6/23/2017	WH8_1271	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000
6/23/2017	WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	52,250
6/23/2017	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	11,250
6/23/2017	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	142,000
6/23/2017	MH1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000
6/23/2017	MH2	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000
6/23/2017	MH3	700 Southpoint Dr	West Hickman	Sustained Rain Event	11,000
6/24/2017	Basement	766 Sandpiper Ct	Cane Run	Sustained Rain Event	2,272
6/24/2017	Basement	2063 New Orleans Dr	North Elkhorn	Sustained Rain Event	1,032
6/24/2017	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	159,500
6/28/2017	Basement	208 Catalpa Rd	Town Branch	Sustained Rain Event	2,480
6/28/2017	Basement	206 Catalpa Rd	Town Branch	Sustained Rain Event	1,565
		Total Overflows	36	Total Estimated Overflow Volume	884,421
		All Causes Overflows	47	All Causes Total Estimated Overflow Volume	11,256,326

\*\* Address for manhole was changed to match previously reported address.



**Table 2.4**  
**CD Quarterly Report**  
**Second Quarter 2017**

vs.  
**Second Quarter 2016 and First Quarter 2017**

2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 2nd QTR 2017	Number of Overflows 2nd QTR 2016	Number of Overflows 1st QTR 2017
Basement	408 Delcamp Dr 1	Cane Run	Debris	0	0	1
Basement	223 Loch Lomond Dr	West Hickman	Debris	0	0	1
Basement	3374 Tisdale Dr	South Elkhorn	Roots	0	0	1
Basement	4085 Syringa Dr	South Elkhorn	Debris	0	0	1
Basement	309 Ohio St	Town Branch	Debris	1	0	0
Basement	205 Cochran Rd	Town Branch	Sustained Rain Event	1	0	0
Basement	209 Cochran Rd	Town Branch	Sustained Rain Event	1	0	0
Basement	216 St Ann Dr	West Hickman	Sustained Rain Event	1	0	0
Basement	766 Sandpiper Ct	Cane Run	Sustained Rain Event	1	0	0
Basement	2063 New Orleans Dr	North Elkhorn	Sustained Rain Event	1	0	0
Basement	208 Catalpa Rd	Town Branch	Sustained Rain Event	1	0	0
Basement	206 Catalpa Rd	Town Branch	Sustained Rain Event	1	0	0
Basement	720 Pine Street	Town Branch	Grease	0	1	0
BC1_56	5355 Athens Boonesboro Rd	East Hickman	Debris	0	0	1
CR2_187	1888 Costigan Dr	Cane Run	Roots	0	1	0
CR3_116_CR3_115	205 E Loudon Ave	Cane Run	Grease	0	1	0
CR3_80_CR3_380A	205 E Loudon Ave	Cane Run	Grease	0	1	0
CR4_12	444 Cane Run Rd	Cane Run	Sustained Rain Event	0	0	2
CR4_14	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	0	0	1
CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1	1	2
CR4_166	658 Eden Rd	Cane Run	Grease	0	1	0
CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	1	0	2
CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	0	0	2
CR6_101_CR6_100	712 Lancaster Ave	Cane Run	Break	0	0	2
CR6_101_CR6_100	716 Lancaster Ave	Cane Run	Break	0	0	2
CR6_71_CR6_70	530 N Limestone	Cane Run	Grease	0	1	0
CR7_300A	1972 Alice Dr	Cane Run	Main Line Break	0	1	0
EH3_1030	**1325 Fenwick Dr	East Hickman	Sustained Rain Event	0	0	3
EH3_190_EH3_188	3284 Carriage Ln	East Hickman	Grease	0	1	0
EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	1	0	1
EH4_493	3030 Richmond Rd	East Hickman	Grease	0	0	1

**Table 2.4**  
**CD Quarterly Report**  
**Second Quarter 2017**

vs.

**Second Quarter 2016 and First Quarter 2017**

2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 2nd QTR 2017	Number of Overflows 2nd QTR 2016	Number of Overflows 1st QTR 2017
EH4_494	3030 Richmond Rd	East Hickman	Grease	0	0	1
EH6_453_EH6_17	3701 Todds Rd	East Hickman	Main Line Break	0	1	0
KLND_ARV3	3440 Versailles Rd	Wolf Run	Break	0	0	1
KLND_ARV5_WR2_654	3295 Versailles Rd	Wolf Run	Structural Damage^	0	1	0
MH1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
MH2	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
MH3	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
NE1_100_NE1_99	690 E New Circle Rd	North Elkhorn	Grease	0	1	0
NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	2	1	3
NE1_290D_NE1_290C	1512 Clarksdale Ct	North Elkhorn	Break	0	0	1
NE1_329	568 Hi Crest Dr	North Elkhorn	Roots	0	0	1
NE1_356A	1505 Auburn Ct	North Elkhorn	Debris	1	0	0
NE2_153	1454 Jingle Bell Ln	North Elkhorn	Grease	0	1	0
PS_LCR_LCR_ARV1	2250 Spurr Rd	Cane Run	Break	5	0	0
SE1_10	4176 Palmetto Dr	South Elkhorn	Roots	0	0	1
SE2_126	900 Palomino Ln	South Elkhorn	Roots	0	1	0
SE2_202	3601 Rabbits Foot Trl	South Elkhorn	Debris	1	0	0
SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	1	0	0
SE5_891	3558 Juliann Cir	South Elkhorn	Debris	1	0	0
SE7_285_SE7_284	3415 Saybrook Rd	South Elkhorn	Grease	0	0	1
SE7_336	486 Osprey Cir	South Elkhorn	Grease	0	1	0
TB2_20A	837 De Roode St	Town Branch	Main Line Break	0	1	0
TB2_256_TB2_255	841 W High St	Town Branch	Debris	0	1	0
TB3_1137	250 Lewis St	Town Branch	Sustained Rain Event	1	0	0
TB3_235	190 Spruce St	Town Branch	Debris	0	0	1
TB3_991	302 Gunn St	Town Branch	Grease	0	0	1
TB4_248A_TB4_24B	201 E Maxwell St	Town Branch	Roots	0	1	0
TB4_252A_TB4_253A	365 Linden Walk	Town Branch	Grease	0	1	0
TB4_73	150 Grand Blvd	Town Branch	Debris	1	0	0
TB6_9	160 Opportunity Way	Town Branch	Debris	0	0	1
TB7_269	285 Masterson	Town Branch	Roots	0	1	0

**Table 2.4**  
**CD Quarterly Report**  
**Second Quarter 2017**

vs.

**Second Quarter 2016 and First Quarter 2017**

2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 2nd QTR 2017	Number of Overflows 2nd QTR 2016	Number of Overflows 1st QTR 2017
WH1_51	**3770 Forest Green Dr (Belleau Wood Pk)	West Hickman	Sustained Rain Event	1	0	0
WH10_2	769 Rainwater Dr	West Hickman	Sustained Rain Event	1	0	0
WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	1	0	0
WH2_395A	**1156 Appian Crossing Way	West Hickman	Sustained Rain Event	0	0	1
WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	0	0	2
WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	1	0	0
WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	0	0	1
WH2_477A	1457 Stephen Foster Dr	West Hickman	Grease	0	1	0
WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	0	0	1
WH2_78	3395 Spangler Dr	West Hickman	Sustained Rain Event	0	0	1
WH3_144	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1	0	0
WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1	0	0
WH3_171U	3175 Kirklevington Dr	West Hickman	Grease	0	1	0
WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	0	0	3
WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	0	0	1
WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1	0	2
WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	1	2	3
WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	0	0	2
WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	0	0	2
WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	1	0	2
WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	0	0	2
WH6_100	3669 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	2
WH6_101	3649 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	2
WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	3
WH6_102A	3637 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	2
WH6_103	3633 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	2
WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	0	3
WH6_24	3416 Heritage Pl	West Hickman	Debris	1	0	0
WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	1	1	3
WH6_74	**3538 Creekwood Dr	West Hickman	Sustained Rain Event	1	1	3
WH6_75	**3540 Creekwood Dr (Chinoo Creek Apts)	West Hickman	Sustained Rain Event	0	0	3

**Table 2.4**  
**CD Quarterly Report**  
**Second Quarter 2017**

vs.

**Second Quarter 2016 and First Quarter 2017**

2nd Quarter 2017 vs. 2nd Quarter 2016 and 1st Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 2nd QTR 2017	Number of Overflows 2nd QTR 2016	Number of Overflows 1st QTR 2017
WH6_98	**3544 Creekwood Dr (Chinoo Creek Apts)	West Hickman	Sustained Rain Event	0	0	3
WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	1	0	0
WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	1	0	4
WH7_977	2300 Richmond Road	West Hickman	Sustained Rain Event	0	1	0
WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	1	1	4
WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	1	1	4
WH8_1271	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
WH9_5	645 W Hickman Plant Rd	West Hickman	Debris	0	0	1
WR1_248B	2064 Deauville Dr	Wolf Run	Sustained Rain Event	0	1	0
WR2_101A	1835 Yorktown Rd	Wolf Run	Sustained Rain Event	0	0	1
WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	1	0	1
WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	1	0	1
WR2_393	**2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	0	0	2
WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	1	0	2
WR2_566	**2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	0	0	1
WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	0	0	2
WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	0	0	1
WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	1	0	0
WR6_64_WR6_63	220 Conn Terrace	Wolf Run	Grease	0	1	0
WR7_209	2220 Nicholasville Rd	Wolf Run	Debris	0	0	1
Total Number of Overflows Per Respective Qtr.				47	32	109
Total Estimated Vol. (gal.) of Overflows Per Respective Qtr.				11,256,326	327,676	6,635,571

\*\* Address for manhole was changed to reflect the official address on the Wet Weather SSO Monitoring List and/or previously reported address.

^ The force main was damaged by a non-LFUCG contractor.

**Table 2.5**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Pump Station Overflows/Bypasses**

<b>2nd Quarter 2017 Sanitary Sewer Overflows/Bypasses (Pump Stations)</b>								
Date	Bypass/ Overflow	Pump Station Name	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A*	RMP Project
4/26/2017	Bypass	East Lake	1326 Fenwick Rd	East Hickman	Mechanical Failure	58,076	87	EH-11
5/5/2017	Bypass	Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Mechanical Failure	1,378,152	84	CR-1
5/12/2017	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,208,391	87	EH-11
5/25/2017	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	340,477	87	EH-11
5/27/2017	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	4,396	90	CR-8
5/27/2017	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	359,661	13	CR-5
6/13/2017	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Lack of Capacity	2,216	107	TB-2
6/13/2017	Bypass	Winburn	1985 Russell Cave Rd	Cane Run	Power Failure	7,456	15	CR-6
6/23/2017	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	36,231	23	EH-8
6/23/2017	Overflow	East Hickman	3316 Buckhorn Dr	East Hickman	Sustained Rain Event	553,500	19	EH-3
6/23/2017	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	487,468	87	EH-11
6/23/2017	Bypass	Electronics Park	609 Bizzell Dr	Town Branch	Sustained Rain Event	11,408	-	-
6/23/2017	Overflow	Greenbrier #2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	19,196	89	NE-4
6/23/2017	Bypass	Mint Lane	1510 Man O War	South Elkhorn	Mechanical Failure	76,557	85	SE-3
6/23/2017	Overflow	Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	7,885	86	WH-8
6/23/2017	Bypass	Shandon Park #1	2330 Pierson Dr	Cane Run	Sustained Rain Event	12,303	-	CR-5
6/23/2017	Overflow	Shandon Park #2	765 Kingston Dr	Cane Run	Sustained Rain Event	162,552	14	CR-5
6/23/2017	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	102,549	90	CR-8
6/23/2017	Bypass	South Elkhorn	2500 Bowman Mill Rd	South Elkhorn	Sustained Rain Event	548,941	1	SE-1
6/23/2017	Bypass	St. Martins	961 St. Martins Ave	Town Branch	Sustained Rain Event	307	-	-
6/23/2017	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	555,776	13	CR-5
6/23/2017	Overflow	Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	30,784	107	TB-2
6/23/2017	Overflow	Winburn	1985 Russell Cave Rd	Cane Run	Sustained Rain Event	45,198	13	CR-5
Total Overflows				23	Total Estimated Overflow/ Bypass Volume	6,009,480		

\* Appendix A refers to Appendix A of the Consent Decree which lists the locations of recurring SSOs and unpermitted discharges.

**Table 2.6**  
**CD Quarterly Report**  
**Second Quarter 2017**

vs.

**Second Quarter 2016 and First Quarter 2017**  
**Pump Stations**

<b>2nd Quarter 2017 Sanitary Sewer Overflows/Bypasses vs. 2nd Quarter 2016 and 1st Quarter 2017 Sanitary Sewer Overflows/Bypasses (Pump Stations)</b>							
Pump Station Name	Address	Sewershed	Cause	Bypass/ Overflow	Number of Overflows/ Bypasses 2nd QTR 17	Number of Overflows/ Bypasses 2nd QTR 16	Number of Overflows/ Bypasses 1st QTR 17
Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	Overflow	1	0	0
East Hickman	3316 Buckhorn Dr	East Hickman	Sustained Rain Event	Overflow	1	0	0
East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	Overflow	3	5	8
East Lake	1326 Fenwick Rd	East Hickman	Mechanical Failure	Bypass	1	0	0
Electronics Park	609 Bizzell Dr	Town Branch	Sustained Rain Event	Bypass	1	0	0
Greenbrier #2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	Overflow	1	0	0
Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Sustained Rain Event	Overflow	0	1	2
Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Mechanical Failure	Bypass	1	0	0
Mint Lane	1510 Man O War	South Elkhorn	Mechanical Failure	Bypass	1	0	0
Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	Overflow	1	0	0
Shandon Park #1	2330 Pierson Dr	Cane Run	Sustained Rain Event	Bypass	1	0	0
Shandon Park #2	765 Kingston Dr	Cane Run	Sustained Rain Event	Overflow	1	0	1
Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	Overflow	2	1	2
Sharon Village	1985 Haggard Ct	Cane Run	Mechanical Failure	Bypass	0	0	1
South Elkhorn	2500 Bowman Mill Rd	South Elkhorn	Sustained Rain Event	Bypass	1	0	0
St. Martins	961 St. Martins Ave	Town Branch	Sustained Rain Event	Bypass	1	0	0
Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	Overflow	2	2	2
Town Branch	335 Jimmie Campbell Dr	Town Branch	Lack of Capacity	Bypass	1	0	0
Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	Overflow	1	0	0
Winburn	1985 Russell Cave Rd	Cane Run	Sustained Rain Event	Overflow	1	2	0
Winburn	1985 Russell Cave Rd	Cane Run	Power/Control/Mechanical Failure	Bypass	1	1	0
Total Number of Overflow(s)/Bypass(es) Per Respective Quarter					23	12	16
Total Estimated Overflow/Bypass Vol. (gal.)					6,009,480	6,108,940	8,888,141

**Table 2.7**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**WWTP Unpermitted Bypasses**

<b>2nd Quarter 2017 Unpermitted Bypasses WWTP</b>				
Date	Facility Name	Address	Cause	*Estimated Overflow Volume (gallons)
6/23/2017	West Hickman WWTP	645 W Hickman Plant Rd	Sustained Rain Event	60,000
			Total Number of Unpermitted Bypasses	1
			Total Estimated Bypass Volume	60,000

\* The estimated overflow volume is the summation of overflows occurring at the following locations: WH1\_1031, WH1\_1032, WH1\_1033, and SP WH 10.

**Section III**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**July 27, 2017**

**CD Language:**

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(iii) The anticipated projects and activities that will be performed in the next quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format.

**LFUCG's Response:**

The following table provides information on projects and activities anticipated in the next calendar quarter related to the sanitary sewer system. Table 3.1 highlights activities related to the Remedial Measures Plans and the Capacity, Management, Operation and Maintenance Programs.



**Table 3.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Third Quarter (July 1, 2017 – September 30, 2017)</i>	
<b>Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)</b>			
VII(15)(G)	Group 1 – Sanitary Sewer System and WWTP RMP (EH, WH, WR)	The EPA and KDEP issued a full approval of the RMPs, including Implementation Schedule dated February 12, 2016, on March 18, 2016.	
	Group 2 – Sanitary Sewer System and WWTP RMP (TB, CR)		
	Group 3 – Sanitary Sewer System and WWTP RMP (NE, SE)		
VII(15)(G)(viii)	Sanitary Sewer System and WWTP RMP Implementation – Project Status	<p>The following projects are anticipated to be in the design phase during the third quarter of 2017:</p> <ul style="list-style-type: none"> <li>• CR-5 Shandon Park Trunks</li> <li>• CR-6 Winburn Trunk</li> <li>• CR-7 Thoroughbred Acres Trunk</li> <li>• EH-2 East Hickman Pump Station</li> <li>• EH-3 East Hickman Wet Weather Storage Tank</li> <li>• EH-11 Eliminate East Lake Pump Station</li> <li>• TB-6 UK Trunk C</li> <li>• TB-7 UK Trunk D</li> <li>• TB-10 Midland Avenue Trunk, Phase 1 (TBC)</li> <li>• TB-11 WWTP-7 Gravity Thickeners</li> <li>• TB-11 WWTP-10 Primary Digesters</li> <li>• WH-5 Lansdowne South Trunk</li> <li>• WH-6 West Hickman Main Trunk D</li> <li>• WH-21 WWTP-13 Waste Sludge Holding</li> <li>• WH-21 WWTP-17 Scum Facility</li> <li>• WR-2 Wolf Run Main Trunk B</li> <li>• WR-3 Wolf Run Main Trunk C</li> </ul>	<p>The following projects are anticipated to be under construction during the third quarter of 2017:</p> <ul style="list-style-type: none"> <li>• CR-1 Lower Cane Run Wet Weather Storage Tank</li> <li>• CR-2 Expansion Area 3 Pump Station</li> <li>• CR-3 Expansion Area 3 Force Main</li> <li>• CR-4 Expansion Area 3 Trunk</li> <li>• CR-9 Lower Griffin Gate Trunk</li> <li>• SE-1 South Elkhorn Pump Station Upsize</li> <li>• TB-11 WWTP-2 Primary Clarifier Equipment</li> <li>• WH-1 WH7 Wet Weather Storage Tank</li> <li>• WH-3 West Hickman Main Trunk B</li> <li>• WH-4 West Hickman Main Trunk C</li> <li>• WH-20 West Hickman WWTP Wet Weather Storage Tank</li> <li>• WH-21 WWTP-1 Influent Pump Station (with WH-20)</li> <li>• WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20)</li> <li>• WH-21 WWTP-3 Leaping Weir (with WH-20)</li> <li>• WH-21 WWTP-6 Zone 2 Aeration, Phase 2</li> <li>• WH-21 WWTP-7 Clarifier Flow Distribution</li> <li>• WH-21 WWTP-18 Non-potable Water System (with WH-20)</li> <li>• WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20)</li> </ul>

**Table 3.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Third Quarter (July 1, 2017 – September 30, 2017)</i>
<b>Capacity, Management, Operation and Maintenance (CMOM) Programs</b>		
VII(16)	CMOM Programs Self-Assessment	<p>The CMOM Programs Self-Assessment, dated June 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ All CMOM elements associated with the CMOM Self-Assessment have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the CMOM Self-Assessment elements during the third quarter of 2017.</li> </ul> </li> </ul>
VII(16)(A)	Sewer Overflow Response Plan (SORP)	<p>The SORP, dated July 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ All CMOM elements associated with the SORP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the SORP elements during the third quarter of 2017.</li> </ul> </li> </ul>
VII(16)(B)	System Capacity Assurance Program (CAP)	<p>The CAP, dated March 2014, was approved by the EPA and Kentucky EEC on July 3, 2014.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Begin analysis of collected rainfall and flow data collected during 2017 monitoring season, including verification of model calibration and recalibration, as needed.</li> <li>○ Review smoke testing results from the North Elkhorn sewershed and prepare a Technical Memorandum summarizing findings and recommendations.</li> <li>○ Complete annual Technical Memorandum summarizing results from 2016 temporary flow monitoring and model recalibration/verification (including incorporation of completed sewer system improvements).</li> <li>○ Continue CAP implementation by reviewing/processing capacity requests for flow increases to the LFUCG sewer system in accordance with the System Capacity Assurance Program Plan.</li> <li>○ Continue to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG.</li> <li>○ Continue to harvest earned credits from sewer improvements completed by LFUCG in 3Q17.</li> <li>○ Perform minor enhancements/maintenance of the Credit Tracking Information Management System (CTIMS) software, as needed.</li> <li>○ All CMOM elements associated with the CAP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the CAP elements during the third quarter of 2017.</li> </ul> </li> </ul>

**Table 3.1**  
**CD Quarterly Report**  
**Second Quarter 2017**

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Third Quarter (July 1, 2017 – September 30, 2017)</i>
VII(16)(C)	Fats, Oils, and Grease (FOG) Control Program	<p>The FOG Control Program, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continue work with the Lexington-Fayette County Health Department (LFCHD) to incorporate FOG training services in Food Manager Certification Classes.</li> <li>○ Continue FOG permit application review and permit issuance.</li> <li>○ Continue routine inspections of Food Service Establishments (FSEs) based on risk ranking.</li> <li>○ Continue distribution of residential FOG brochures to apartment complexes.</li> <li>○ All CMOM elements associated with the FOG Control Program have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the FOG Control Program elements during the third quarter of 2017.</li> </ul> </li> </ul>
VII(16)(D)	Gravity Line Preventative Maintenance Program (GLPMP)	<p>The GLPMP, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ Continue an internal review of the preventative maintenance (PM) list's protocols and procedures.</li> <li>○ All CMOM elements associated with the GLPMP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the GLPMP elements during the third quarter of 2017.</li> </ul> </li> </ul>
VII(16)(E)	Pump Station Operation Plan for Power Outages (PSOPPO)	<p>The PSOPPO, dated September 2012, was approved by the EPA and Kentucky EEC on October 3, 2013.</p> <ul style="list-style-type: none"> <li>• Work anticipated to be completed during the third quarter of 2017 is as follows: <ul style="list-style-type: none"> <li>○ All CMOM elements associated with the PSOPPO have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the PSOPPO elements during the third quarter of 2017.</li> </ul> </li> </ul>

The following table provides information on projects and activities anticipated in the next calendar quarter related to the storm sewer system. Table 3.2 highlights various Stormwater Quality Management Program activities anticipated for the next quarter.

**Table 3.2**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Stormwater Quality Management Program**  
**Activities Anticipated for the Third Quarter 2017**

1.	Performance Standards – LFUCG will continue implementing recurring Performance Standards.
2.	Stormwater Quality Management Program – LFUCG will continue implementing the <u>Stormwater Quality Management Program</u> , dated June 1, 2016.
3.	Water Quality Management Fee Implementation – Ongoing Stormwater Quality Projects Incentive Grant Program grants will continue and will be completed as scheduled. Any executed grant award agreements will be forwarded to the Urban County Council for approval. Anticipated future meeting dates of the Water Quality Fees Board are July 13, 2017, and October 12, 2017. The main topic for the July meeting will be the selection of Class A and Class B Education grant recipients. FY 2018 applications for Class B Infrastructure grants will be due in July.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> <li>• LFUCG will update its website about the stormwater program.</li> <li>• The database of people wanting to receive information from DWQ by email will continue to be updated.</li> <li>• LFUCG will continue to develop and publish success stories.</li> <li>• LFUCG Department of Environmental Quality &amp; Public Works staff will attend events to promote the stormwater and water quality program.</li> <li>• LFUCG will continue to air its stormwater videos.</li> </ul>

5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> <li>• Volunteer service opportunities will continue to be facilitated by LFUCG during the third quarter.</li> <li>• Storm drain stenciling will continue.</li> <li>• The Stormwater Stakeholder Advisory Committee will continue meeting.</li> </ul>
6.	<p>Illicit Discharge Detection and Elimination – IDDE investigations will continue and staff will continue sending educational information to residents and responsible parties of illicit discharges. Dry Weather Screening will continue during the third quarter. The Visual Stream Assessment of South Elkhorn will take place during the third quarter.</p>
7.	<p>Construction Site Stormwater Runoff Control – Monthly active construction site inspections and targeted inspections will continue.</p>
8.	<p>Post-Construction Stormwater Management in New Development and Redevelopment – Inspections of detention basins, retention ponds, stormwater control devices, and critical culverts will continue. LFUCG will continue to coordinate with property owners to ensure maintenance of stormwater control devices, and will continue to conduct initial stormwater quality BMP inspections for additions to the inventory, as sites become known to DWQ staff.</p>
9.	<p>Pollution Prevention for Municipal Operations – LFUCG will continue quarterly inspections and maintenance of city-owned Suntree units, Stormceptors, and other water quality control devices. LFUCG will continue a quarterly highlight of a Greenworks Guide on its intranet during the third quarter.</p> <p>Litter and woody debris removal will continue in streams, drainageways, and public right-of-way areas adjacent to the stormwater collection system.</p>
10.	<p>Industrial Facility Stormwater Pollution Prevention – The inventory of industrial facilities and high-risk commercial facilities will continue to be updated and inspections of facilities will continue. An educational video based on BMPs relevant to industrial and high-risk facilities will be filmed during the third quarter. LFUCG will continue evaluating unclassified sites, landscaping companies, and automobile maintenance facilities for possible inclusion on the inventory of high-risk commercial facilities.</p>

11.	Water Quality Monitoring – Permit-required monitoring will continue. Phase 2 Field Screening activities, Stream Corridor Characterizations, and Stream Biological collections will continue in Cane Run for the Watershed-Focused Monitoring Program during the third quarter. Training for volunteers interested in monitoring the South Elkhorn watershed will take place in August and Phase 1 Screening will begin during the third quarter.
12.	Reporting and Recordkeeping – Ongoing recordkeeping will continue.
13.	TMDLs and Impaired Waters – Staff, with input from the SSAC, will continue to prioritize the list of BMPs that will be proposed for implementation.

Table 3.3 provides information on anticipated progress in the next calendar quarter related to the implementation of the Supplemental and Commonwealth Environmental Projects required by the Consent Decree.

**Table 3.3**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Supplemental and Commonwealth Environmental Projects**  
**Progress Anticipated for the Third Quarter 2017**

J-1	Coldstream Park Stream Corridor Restoration and Preservation SEP – The contractor will continue grading and earthwork on the wetlands and stream during the third quarter.
J-2	Green Infrastructure SEP – LFUCG is assuming this SEP is complete unless directed otherwise by the EPA.
K-1	Blue Sky Package Treatment Plant Elimination Project – Complete.
K-2	<p>Flooding Evaluation Project –</p> <p>Demolition of 1653 Gayle Drive to be completed, which will complete the Ft. Sumter / Gayle Drive Priority project.</p> <p>Right-of-way acquisition to be completed and permitting and utility coordination to commence for the Wilson Downing Tributary project.</p> <p>Investigation and design, surveying, and H&amp;H modeling to continue on the Southland stormwater project.</p> <p>LFUCG will begin analyzing the viability of the next three projects on the priority list.</p>

**Section IV**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**July 27, 2017**

**CD Language:**

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(iv) If LFUCG violates any requirement of this Consent Decree or has reason to believe that it is likely to violate any requirement of this Consent Decree in the future, LFUCG shall notify the United States and EPPC of such violation and its likely duration, with an explanation of the violation's likely cause and of the remedial steps taken, and/or to be taken, to prevent or minimize such violation. If the cause of a violation cannot be fully explained at the time the report is due, LFUCG shall include a statement to that effect in the report. LFUCG shall investigate to determine the cause of the violation and then shall submit an amendment to the report, including a full explanation of the cause of the violation, within thirty (30) days after the quarterly report.

**LFUCG's Response:**

LFUCG has not violated any requirement or deadline associated with the Consent Decree during this past quarter; however, LFUCG anticipates missing the deadline for an RMP project scheduled for completion by the end of 2018.

**Town Branch WWTP Primary Digesters**

The project to upgrade the Town Branch WWTP primary digesters is a component of RMP Project TB-11 (Town Branch WWTP Reliability Upgrades) detailed in the RMP Group 2 submittal in April 2012. According to the approved WWTP Reliability Upgrade Projects schedule dated February 2016, this project is to be functionally operational by December 31, 2018. At this time, the projected completion date for the upgrade of the primary digesters is October 31, 2019, which will be approximately 10 months past the deadline. The reason for the completion delay is provided below.

TB WWTP has three (3) primary digesters using equipment that is over 25 years old. The concrete structures associated with the digesters are in good condition; however, the digester equipment needs to be replaced to ensure functionality. The original primary digester upgrade



project components included replacement of the digester covers, mixing systems, boilers, heat exchangers, and waste gas flare.

During preliminary design discussions, it became apparent that the scope of the project needed to be significantly expanded in order to meet the requirements of NFPA 820 (Standard for Fire Protection in Wastewater Treatment and Collection Facilities, published by National Fire Protection Association), which came into effect after construction of the existing primary digester complex. The existing primary digester complex was completed in 1989 and NFPA 820 was published in 1990. NFPA 820 will require the relocation of air supply equipment, the separation of non-hazardous and hazardous classified areas, the isolation of digester gas handling equipment, and the relocation of the boilers.

At this point, the project design is anticipated to be complete by October 2017 and construction is expected to take 24 months. The expanded project design scope described above will also lengthen the original project construction schedule due to the additional work required to meet NFPA 820, the necessary equipment procurement lead times, and a more complex rehabilitation of the primary digester covers.

In summary, all the improvements associated with this project are anticipated to be complete by October 31, 2019. No recurring SSOs are anticipated to be impacted by the delay in completion of this project.

**Section V**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**July 27, 2017**

**CD Language:**

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(v) Any additional information that demonstrates that LFUCG is implementing the remedial measures required in this Consent Decree.

**LFUCG's Response:**

The following table lists the items that have been submitted to EPA and EEC, the date submitted, and the current approval status, if applicable.

**Table 5.1**  
**CD Quarterly Report**  
**Second Quarter 2017**  
**Consent Decree Deliverables**  
**Submitted as of July 27, 2017**

<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
Notification of WWTP Backup Power Installation/Completion	2008-Mar-31	N/A
SSA Work Plan	2008-Jun-09	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186

Project/Program/Report Name	Date Submitted	Current Approval Status
Hydraulic Model Report	2008-Jul-08	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186
Notification of Appendix F Cross Connections Eliminated	2008-Jul-09	N/A
Sewer Overflow Response Plan (initial submittal)	2008-Jul-25	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
CMOM Programs Self-Assessment (initial submittal)	2008-Aug-26	EPA/EEC informal comments – 2010-Dec-6 Certified Letter No. 70052570000148867697; LFUCG resubmitted
Capacity Assessment Work Plan	2008-Sep-09	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186
2008 Annual Report	2009-Jan-29	N/A
Notification of Pump Station Design, Capacity, and Equipment Condition Adequacy Evaluation Report Completion	2009-Mar-07	N/A
First Quarter 2009 Quarterly Report	2009-Apr-29	N/A
Pump Station Operation Plan for Power Outages (initial submittal)	2009-May-14	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
Second Quarter 2009 Quarterly Report	2009-Jul-29	N/A

<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
Fats, Oils, and Grease Control Program (initial submittal)	2009-Aug-10	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
Gravity Line Preventative Maintenance Program (initial submittal)	2009-Aug-13	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
North Elkhorn Force Main Diversion Project	2009-Oct-29 via quarterly report	N/A
Third Quarter 2009 Quarterly Report	2009-Oct-29	N/A
Fourth Quarter 2009 Quarterly Report	2010-Jan-28	N/A
2009 Annual Report	2010-Jan-28	N/A
First Quarter 2010 Quarterly Report	2010-Apr-29	N/A
MS4 Permit Annual Report for 2009 (Fiscal Year 2009 – Calendar Year 2009)	2010-Jul-14	N/A
Second Quarter 2010 Quarterly Report	2010-Jul-23	N/A
South Elkhorn Pump Station and Force Main Upgrade	2010-Oct-28 via quarterly report	N/A
Third Quarter 2010 Quarterly Report	2010-Oct-28	N/A
Fourth Quarter 2010 Quarterly Report	2011-Jan-28	N/A
2010 Annual Report	2011-Jan-28	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
SSA Group 1 Report	2011-Apr-12	EPA/EEC comments – 2011-Oct-14 Certified Letter No. 70101060000217055027; LFUCG response dated 2011-Nov-18
First Quarter 2011 Quarterly Report	2011-Apr-29	N/A
Sewer Overflow Response Plan (second submittal)	2011-Jun-29	EPA/EEC approved without further comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
CMOM Programs Self-Assessment (second submittal)	2011-Jul-01	EPA/EEC approved without further comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
MS4 Permit Annual Report for Calendar Year 2010	2011-Jul-14	N/A
List of Future Authorized Connections	2011-Jul-21 via quarterly report	N/A
Second Quarter 2011 Quarterly Report	2011-Jul-21	N/A
Pump Station Operation Plan for Power Outages (second submittal)	2011-Sep-30	EPA/EEC comments – 2012-Aug-17 Certified Letter No. 70101060000217059186; LFUCG resubmitted

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Group 1	2011-Oct-12	<p>EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533</p> <p><u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule</p> <p>EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722</p>
SSA Group 2 Report	2011-Oct-13	No formal comments received from EPA/EEC
Third Quarter 2011 Quarterly Report	2011-Oct-27	N/A
Fats, Oils, and Grease Control Program (second submittal)	2011-Dec-16	EPA/EEC approved with comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
Gravity Line Preventative Maintenance Program (second submittal)	2011-Dec-19	EPA/EEC approved with comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
Fourth Quarter 2011 Quarterly Report	2012-Jan-27	N/A
2011 Annual Report	2012-Jan-30	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
SSA Group 3 Report	2012-Apr-12	No formal comments received from EPA/EEC
RMP Group 2	2012-Apr-13	<p>EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533</p> <p><u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule</p> <p>EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722</p>
Deep Springs Pump Station Upgrade	2012-Apr-27 via quarterly report	N/A
Dixie Pump Station Upgrade	2012-Apr-27 via quarterly report	N/A
First Quarter 2012 Quarterly Report	2012-Apr-27	N/A
Appendix J-2 SEP Completion Report	2012-Jun-29	Under EPA/EEC Review
MS4 Permit Annual Report for Calendar Year 2011	2012-Jul-13	N/A
Second Quarter 2012 Quarterly Report	2012-Jul-20	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
Pump Station Operation Plan for Power Outages (third submittal)	2012-Sep-19	EPA/EEC approved – 2013-Oct-3 Certified Letter No. 70101670000225534553
RMP Group 3	2012-Oct-11	EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533  <u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule  EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722
SORP – Implementation Commenced	2012-Oct-29 via quarterly report	N/A
Third Quarter 2012 Quarterly Report	2012-Oct-29	N/A
System Capacity Assurance Program (initial submittal)	2012-Dec-21	EPA/EEC comments – 2014-Feb-12 Certified Letter No. 70123460000308919960; LFUCG resubmitted
Appendix J-1 SEP Coldstream Park Greenway Plan	2012-Dec-21	No formal comments received from EPA/EEC



<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
Fourth Quarter 2012 Quarterly Report	2013-Jan-29	N/A
2012 Annual Report	2013-Jan-30	N/A
First Quarter 2013 Quarterly Report	2013-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2012	2013-Jul-12	N/A
Second Quarter 2013 Quarterly Report	2013-Jul-29	N/A
SORP 2013 Update	2013-Oct-14	Under EPA/EEC Review
Third Quarter 2013 Quarterly Report	2013-Oct-29	N/A
Fourth Quarter 2013 Quarterly Report	2014-Jan-29	N/A
2013 Annual Report	2014-Jan-30	N/A
RMP Revisions	2014-Mar-14	N/A
System Capacity Assurance Program (second submittal)	2014-Mar-14	EPA/EEC approved – 2014-Jul-3 Certified Letter No. 70101060000217039041
FOG Program – Implementation	2014-Apr-29 via quarterly report	N/A
GLPM Program – Implementation	2014-Apr-29 via quarterly report	N/A
First Quarter 2014 Quarterly Report	2014-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2013	2014-Jul-14	N/A
Second Quarter 2014 Quarterly Report	2014-Jul-29	N/A
SORP 2014 Update	2014-Oct-14	Under EPA/EEC Review
RMP Project EH-13 East Lake Trunk Upsize	2014-Oct-29 via quarterly report	N/A

<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
RMP Project WH-21 WWTP-5 Zone 1 Aeration	2014-Oct-29 via quarterly report	N/A
RMP Project WH-21 WWTP-6 Zone 2 Aeration, Phase 1	2014-Oct-29 via quarterly report	N/A
CAP – Implementation Commenced	2014-Oct-29 via quarterly report	N/A
CMOM – Development & Implementation	2014-Oct-29 via quarterly report	N/A
List of Future Authorized Connections	2014-Oct-29 via quarterly report	N/A
Blue Sky Pump Station/Force Main	2014-Oct-29 via quarterly report	N/A
Third Quarter 2014 Quarterly Report	2014-Oct-29	N/A
Appendix K-1 CEP Completion Report	2014-Dec-05	EEC confirmed CEP completion – 2016-Jul-21 Certified Letter No. 70123460000234676351
Appendix J-1 SEP Coldstream Park Greenway Plan Supplement	2014-Dec-31	No formal comments received from EPA/EEC
RMP Project EH-12 Century Hills Trunk Upsize	2015-Jan-29 via quarterly report	N/A
RMP Project NE-7 Expansion Area 2A Projects	2015-Jan-29 via quarterly report	N/A

<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
RMP Project TB-11 WWTP-4 Final Clarifier Equipment, Phase 1	2015-Jan-29 via quarterly report	N/A
RMP Project WH-13 Idle Hour Trunk	2015-Jan-29 via quarterly report	N/A
RMP Project WH-21 WWTP-20 Odor Control Facilities, Phase 1	2015-Jan-29 via quarterly report	N/A
RMP Project WR-1 Wolf Run Main Trunk A	2015-Jan-29 via quarterly report	N/A
RMP Project WR-10 Bob O Link Trunk	2015-Jan-29 via quarterly report	N/A
RMP Project WR-11 Wolf Run Pump Station	2015-Jan-29 via quarterly report	N/A
List of Future Authorized Connections	2015-Jan-29 via quarterly report	N/A
Fourth Quarter 2014 Quarterly Report	2015-Jan-29	N/A
2014 Annual Report	2015-Jan-30	N/A
First Quarter 2015 Quarterly Report	2015-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2014	2015-Jul-14	N/A
RMP Project TB-3 Tie-in Lower Cane Run Force Main	2015-Jul-29 via quarterly report	N/A
Second Quarter 2015 Quarterly Report	2015-Jul-29	N/A

<b>Project/Program/Report Name</b>	<b>Date Submitted</b>	<b>Current Approval Status</b>
Appendix J-1 SEP Coldstream Park Greenway Plan Update (Original Plan Combined with Supplement)	2015-Aug-12	EPA/EEC approved – 2015-Nov-25 Certified Letter No. 70142870000033182893
SORP 2015 Update	2015-Oct-14	Under EPA/EEC Review
Third Quarter 2015 Quarterly Report	2015-Oct-29	N/A
RMP Project WH-2 West Hickman Main Trunk A	2016-Jan-28 via quarterly report	N/A
RMP Project WH-16 Woodhill Trunk	2016-Jan-28 via quarterly report	N/A
Fourth Quarter 2015 Quarterly Report	2016-Jan-28	N/A
2015 Annual Report	2016-Jan-29	N/A
First Quarter 2016 Quarterly Report	2016-Apr-26	N/A
MS4 Permit Annual Report for Calendar Year 2015	2016-Jul-14	N/A
Second Quarter 2016 Quarterly Report	2016-Jul-28	N/A
SORP 2016 Update	2016-Oct-13	Under EPA/EEC Review
Third Quarter 2016 Quarterly Report	2016-Oct-27	N/A
PSOPPO – Implementation	2017-Jan-27 via quarterly report	N/A
RMP Project TB-1 Town Branch WWTP Wet Weather Storage Tank	2017-Jan-27 via quarterly report	N/A
RMP Project TB-5 UK Trunk B (Newtown Pike Extension)	2017-Jan-27 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Project TB-11 WWTP-1 Headworks	2017-Jan-27 via quarterly report	N/A
RMP Project WR-8 Wolf Run Wet Weather Storage Tank	2017-Jan-27 via quarterly report	N/A
Fourth Quarter 2016 Quarterly Report	2017-Jan-27	N/A
2016 Annual Report	2017-Jan-30	N/A
RMP Project TB-11 WWTP-12 Dewatering	2017-Apr-27 via quarterly report	N/A
First Quarter 2017 Quarterly Report	2017-Apr-27	N/A
MS4 Permit Annual Report for Calendar Year 2016	2017-Jul-13	N/A
RMP Project TB-4 UK Trunk A	2017-Jul-27 via quarterly report	N/A