

MAYOR JIM GRAY



LEXINGTON

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

April 27, 2018

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 (January – March 2018)

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 January – March 2018 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

4-27-18
Date

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

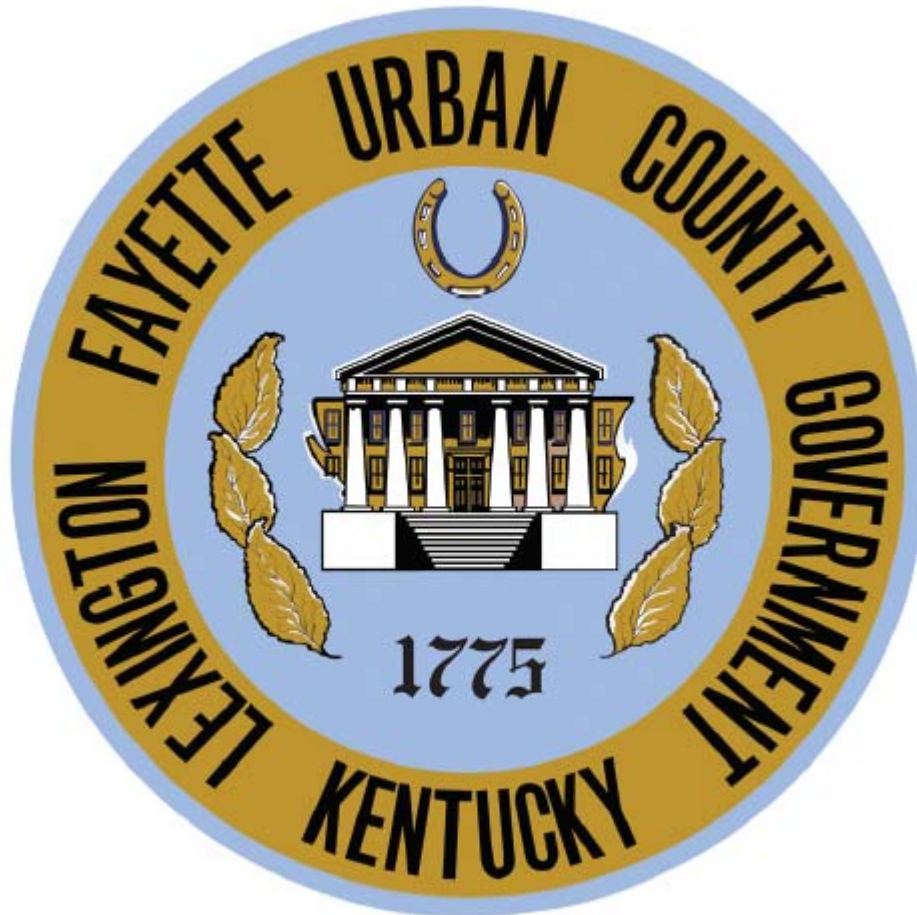
Enclosure: 2 copies to Water Programs Enforcement Branch; 1 copy to all other addresses

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



January – March 2018 Quarterly Report
First Quarter 2018

April 27, 2018

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Section I
CD Quarterly Report
First Quarter 2018
April 27, 2018

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 first quarter of 2018, 49 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
First Quarter 2018

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Completed – First Quarter (January 1, 2018 – March 31, 2018)</i>	
Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)			
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, 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 first quarter of 2018 include the following:</p> <ul style="list-style-type: none"> • TB-6 UK Trunk C • TB-7 UK Trunk D • TB-10 Midland Avenue Trunk, Phase 1 (TBC) • TB-11 WWTP-7 Gravity Thickeners • WH-5 Lansdowne South Trunk • WH-6 West Hickman Main Trunk D • WH-21 WWTP-13 Waste Sludge Holding • WH-21 WWTP-17 Scum Facility • WR-2 Wolf Run Main Trunk B • WR-3 Wolf Run Main Trunk C 	<p>RMP Projects under construction during the first quarter of 2018 include the following:</p> <ul style="list-style-type: none"> • CR-2 Expansion Area 3 Pump Station • CR-3 Expansion Area 3 Force Main • CR-4 Expansion Area 3 Trunk • CR-5 Shandon Park Trunks • CR-6 Winburn Trunk • CR-7 Thoroughbred Acres Trunk • EH-2 East Hickman Pump Station, Phase 1 • EH-3 East Hickman Wet Weather Storage Tank • EH-11 Eliminate East Lake Pump Station • TB-11 WWTP-2 Primary Clarifier Equipment • TB-11 WWTP-10 Primary Digesters • WH-1 WH7 Wet Weather Storage Tank • WH-20 West Hickman WWTP Wet Weather Storage Tank • WH-21 WWTP-1 Influent Pump Station (with WH-20) • WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20) • WH-21 WWTP-3 Leaping Weir (with WH-20) • WH-21 WWTP-7 Clarifier Flow Distribution • WH-21 WWTP-18 Non-potable Water System (with WH-20) • WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20)

Table 1.1
CD Quarterly Report
First Quarter 2018



<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Completed – First Quarter (January 1, 2018 – March 31, 2018)</i>
Capacity, Management, Operation and Maintenance (CMOM) Programs		
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of CMOM Self-Assessment activities.
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of SORP activities with an emphasis on root cause analysis protocols.
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Completed annual model verification / recalibration for 2017 flow monitoring data and updates for completed capital projects. ○ 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. ○ Continued to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG. ○ Harvested earned credits from sewer improvements completed by LFUCG in 1Q18. ○ Temporary rainfall and flow monitoring locations for 2018 monitoring season were successfully installed and 4-month monitoring period begin in March 2018. ○ Independent audit of CAP implementation for compliance with approved System Capacity Assurance Program Plan has begun. Audit is for implementation period from July 1, 2015 to June 30, 2017. ○ Completed hydraulic model profile checks for Town Branch, Wolf Run, Cane Run, North Elkhorn, and South Elkhorn. (Model profile checks in West Hickman and East Hickman were completed in 2015 and 2016, respectively.) Corrections to the Town Branch model have been completed. ○ Performed minor enhancements / maintenance of the Credit Tracking Information Management System (CTIMS) software. ○ Continued implementation and tracking of CAP activities.

Table 1.1
CD Quarterly Report
First Quarter 2018

Consent Decree Section Number	Task	Work Completed – First Quarter (January 1, 2018 – March 31, 2018)
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Completed permitting for all known FSEs, continued to find and permit previously unknown and new facilities. ○ Issued 44 FOG permits and waivers (39 permits, 5 waivers). ○ Continued routine inspections of Food Service Establishments (FSEs) based on risk ranking. ○ Performed 325 FOG inspections (268 permits, 57 waivers). ○ Issued 15 Notices of Violation (NOVs). ○ No enforcement actions issued this quarter. ○ Continued work with the Lexington-Fayette County Health Department (LFCHD) to include FOG training services in LFCHD’s Food Manager Certification classes. ○ Sent 81 residential FOG letters and BMP fact sheets to addresses associated with sanitary sewer overflows caused by grease. ○ Continued implementation and tracking of FOG Control Program activities.
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of GLPMP activities.
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"> • Work completed or in progress during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of PSOPPO activities.

Table 1.2
CD Quarterly Report
First Quarter 2018
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 ¹	2017	2023	2024	2024	2024	2025	
		2	East Hickman PS, Phase 1	2016	2017	2018	2018	2018	2019	
		3	East Hickman PS, Phase 2 ¹	NA	NA	NA	2025	2025	2025	
		4	East Hickman WWS Tank	2016	2017	2018	2018	2018	2019	
		5	Overbrook Farm FM	2021	2021	2022	2022	2022	2022	
		6	Overbrook Farm PS	2020	2020	2021	2021	2021	2022	
		7	Overbrook Farm Trunk	2021	2021	2022	2022	2022	2022	
		8	Delong Road PS & FM	2022	2022	2023	2023	2023	2024	
		9	Armstrong Mill Trunks	2023	2023	2024	2024	2024	2024	
		10	Hartland 2 & 3 Trunks	2023	2023	2024	2024	2024	2024	
		11	Hartland 1 Trunk	2023	2023	2024	2024	2024	2024	
		12	Eliminate East Lake PS	2018	2018	2019	2019	2019	2019	
		13	Century Hills Trunk Upsize	2013	2013	2014	2014	2014	2014	
		14	East Lake Trunk Upsize	2013	2013	2014	2014	2014	2014	
		15	Autumn Ridge Trunk Upsize	2025	2025	2026	2026	2026	2026	
		2020	Expansion Area #1 Property Acquisition	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	
			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	2018	2018	2018	2018	2018	
		3	Wolf Run Main Trunk C	2017	2018	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
First Quarter 2018
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
Group 2	Town Branch	1	Town Branch WWTP WWS Tank	2013	2014	2014	2014	2015	2016
			Town Branch WWTP WWS Tank, Phase 2	2023	2023	2024	2024	2024	2025
		2	Town Branch PS Replacement	2018	2019	2019	2019	2019	2019
		3	Tie-in Lower Cane Run FM	2014	2014	2014	2015	2015	2016
		4	UK Trunk A	2016	2016	2016	2016	2016	2017
		5	UK Trunk B (Newtown Pike Extension)	-	-	-	2014	-	2016
		6	UK Trunk C	2018	2018	2019	2019	2019	2019
		7	UK Trunk D	2019	2019	2020	2020	2020	2020
		8	UK Trunk E	2019	2019	2020	2020	2020	2020
		9	Georgetown Road Trunk	2024	2024	2025	2025	2025	2025
		10	Midland Avenue Trunk, Phase 1 (TBC)	2017	2018	2018	2019	2019	2023
			Midland Avenue Trunk, Phase 2	2022	2022	2023	2023	2023	2023
		11	Town Branch WWTP Reliability Upgrades						
		WWTP-1	Headworks	2015	2016	2016	2016	2016	2016
		WWTP-2	Primary Clarifier Equipment	2018	2018	2018	2018	2018	2018
		WWTP-3	Aeration Basins	2020	2021	2021	2021	2021	2021
		WWTP-4	Final Clarifier Equipment, Phase 1	2014	2014	2014	2014	2014	2014
			Final Clarifier Equipment, Phase 2	2024	2025	2025	2025	2025	2025
		WWTP-5	RAS Pump Station	2022	2022	2022	2022	2022	2022
		WWTP-6	WAS Pump Station	2026	2026	2026	2026	2026	2026
WWTP-7	Gravity Thickeners	2018	2019	2019	2019	2019	2019		
WWTP-8	Disinfection	2024	2024	2024	2024	2024	2024		
WWTP-9	Non-potable Water PS	2024	2024	2024	2024	2024	2024		
WWTP-10	Primary Digesters	2016	2017	2018	2018	2018	2018		
WWTP-11	Secondary Digesters / Sludge Holding	2019	2020	2020	2020	2020	2020		
WWTP-12	Dewatering	2018	2019	2019	2019	2019	2019		
WWTP-13	Scum Facility	2021	2021	2021	2021	2021	2021		
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.

¹The 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
First Quarter 2018
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
3rd Quarter 2013 Manhole Recurring SSOs Abated / Relocated								
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
4th Quarter 2013 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
2nd Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
3rd Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
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
4th Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
no changes								

Table 1.3
CD Quarterly Report
First Quarter 2018
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
2nd Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
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
3rd Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
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)
1st Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
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
2nd Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
3rd Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								
2nd Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
6/30/2017	99	TB1_155	Manchester Avenue	Town Branch	Abated	UK Trunk A Project (TB-4)	N/A	N/A
3rd Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2018 Manhole Recurring SSOs Abated / Relocated								
no changes								

Table 1.4
CD Quarterly Report
First Quarter 2018
Recurring Pump Station SSOs Abated

Date Abated	CD SSO #	Pump Station Name	Pump Station Address	Sewershed	Reason for Recurring SSO Abatement
3rd Quarter 2013 Pump Station Recurring SSO Abatement					
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
4th Quarter 2013 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2014 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2014 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2014 Pump Station Recurring SSO Abatement					
8/15/2014	88	Greenbrier #1	3770 Katkay Drive	North Elkhorn	Decommissioned
4th Quarter 2014 Pump Station Recurring SSO Abatement					
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
1st Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2017 Pump Station Recurring SSO Abatement					
2/20/2017	84	Lower Cane Run	Coldstream Station	Cane Run	Lower Cane Run WWS Tank (CR-1)
1st Quarter 2018 Pump Station Recurring SSO Abatement					
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 (SWQMP) activities and Table 1.6 shows the Performance Standards with deadlines during the previous quarter.

Table 1.5
CD Quarterly Report
First Quarter 2018
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 (UCC) for award as they were executed. The Water Quality Fees Board met on January 11, 2018. The Board reviewed potential programmatic changes, along with the FY 2019 grant application documents.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> • DEQ&PW staff hosted displays about water quality at the Kentucky American Water Science Fair on February 3rd, at the St. Patrick’s Day Festival on March 17th, and at the Emerge Conference on March 27th. • DEQ&PW staff were interviewed for a January 18th news story on Channel 18 about the impacts of road salt on local waterways. • The database of people wanting to receive information from LFUCG’s Division of Water Quality continued to be updated. • The website continued to be updated. • In February, DEQ&PW staff began providing council members with a green tip-of-the-month to include in their newsletters to constituents.

5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> • The third West Hickman Watershed Council meeting co-hosted by LFUCG was held on February 26th. • LFUCG conducted its annual Community Appearance Index in conjunction with Keep Lexington Beautiful on March 4th to document locations with litter issues. • Storm drain stenciling continued. DEQ&PW staff began developing a series of three new stencils. • The Stormwater Stakeholder Advisory Committee met on March 2nd.
6.	<p>Illicit Discharge Detection and Elimination – During the first quarter of 2018, 19 IDDE investigations were completed and 28 investigations were initiated or are ongoing and in monitoring status. Three responsible parties received NOVs. LFUCG sent 6 letters during the quarter to property owners and IDDE responsible parties regarding stormwater pollution education with pertinent ordinance and cleanup information.</p>
7.	<p>Construction Site Stormwater Runoff Control – Monthly inspections of active construction sites and twice-monthly inspections of targeted construction sites continued. Two ESC Plan Review Workshops were held for staff and an ESC Plan Preparers Workshop for the Development and Construction Industry was held during the first 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. 22 water quality BMPs at twelve sites were added to the inventory during the first 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 first quarter.</p> <p>Contractors removed more than 44 tons of litter and debris from streams, drainageways, and public rights-of-way at 36 locations during the first quarter.</p>
10.	<p>Industrial Facility Stormwater Pollution Prevention – One facility was inspected during the first quarter. Facilities submitted their 2017 monitoring results and updated SWPPPs to LFUCG. LFUCG conducted two identical workshops for local industries and high-risk commercial facilities regarding stormwater pollution prevention in March.</p>

11.	Water Quality Monitoring – Monitoring this quarter included quarterly dry and wet weather stream sampling. The Watershed-Focused Monitoring Program’s Phase 1 Screening for the South Elkhorn watershed continued during the first quarter.
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
First Quarter 2018
Status of Consent Decree MS4 Performance Standards as of 3/31/18

MS4 Performance Standard		Completion Schedule	Status	Comparison of Actual Performance to Performance Standard
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 first quarter of 2018 (100% for all three months).
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	In process, occurs twice annually.	LFUCG is on target to meet the 90% requirement for the first round of inspections in 2018. As of March 31, 2018, 708 out of 1,202 detention basins have been inspected.
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 first quarter of 2018 (100% for all three months). As of March 31, 2018, there were 101 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 first quarter of 2018 (100% for all three months). Additionally, there were four rain events during this quarter with greater than 1" of rainfall in a calendar day (2/7, 2/16, 2/22, and 3/24). LFUCG completed a round of inspections within three working days of each event and achieved >90% of the inspections for these events (100% for all four events). The critical culvert inventory has 45 locations as of March 31, 2018.

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
First Quarter 2018
Supplemental and Commonwealth Environmental Projects

J-1	Coldstream Park Stream Corridor Restoration and Preservation SEP – The contractor resumed the planting of trees, shrubs, and plugs during the first quarter. The soil around the bur oak located east of the former farm bridge was treated with an air knife in March to loosen compaction that may have occurred during construction.
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>Utility relocation work began during the first quarter on the Wilson Downing Tributary project. Shop drawing review of the culvert also took place during the first quarter. A stakeholder meeting was held on March 19th at Southern Middle School.</p> <p>Southland stormwater project stakeholder meetings were held with Council Districts 3 and 10 during the first quarter. Design work started on the Wabash, Goodrich, Pensacola, Lackawanna (WGPL) area to construct new storm sewers to address street flooding and sump pump discharge connections.</p> <p>Initial analysis and investigation findings for the next two projects on the priority list were presented during the first quarter. These projects are Peachtree (#71.5) and Woodhill (#72).</p>

Section II
CD Quarterly Report
First Quarter 2018
April 27, 2018

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: 1st Quarter 2018 SSO Overview
- Table 2.2: 1st Quarter 2018 Manhole Overflows sorted chronologically
- Table 2.3: 1st Quarter 2018 Manhole Overflows sorted by cause
- Table 2.4: 1st Quarter 2018 vs. 1st Quarter 2017 and 4th 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: 1st Quarter 2018 Pump Station Overflows and Bypasses sorted chronologically
- Table 2.6: 1st Quarter 2018 vs. 1st Quarter 2017 and 4th 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: 1st Quarter 2018 WWTP Unpermitted Bypasses

Table 2.1
CD Quarterly Report
First Quarter 2018
SSO Overview

1st Quarter 2018 SSO Report Comparative Overview						
Source	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017	Total Estimated Overflow Volume (gallons) 1st QTR 2018	Total Estimated Overflow Volume (gallons) 1st QTR 2017	Total Estimated Overflow Volume (gallons) 4th QTR 2017
Manhole Overflows [^]	237	109	33	52,133,999	6,635,571	2,147,951
Pump Station Overflows and/or Bypasses	47	16	14	21,431,577	8,888,141	4,742,742
WWTP Unpermitted Bypasses	3	1	1	1,192,500	60,000	60,000
Cumulative Totals	287	126	48	74,758,076	15,583,712	6,950,693

[^]Includes 4 Basement Backups in 1Q18, 4 Basement Backups in 1Q17, and 2 Basement Backups in 4Q17.

Quarterly Liquid Precipitation (in inches)				
Quarter	January	February	March	Total Cumulative
1st Qtr 2018	2.10	10.44	5.32	17.86
1st Qtr 2017	4.72	3.39	3.28	11.39
4th Qtr 2017	October	November	December	Total Cumulative
4th Qtr 2017	5.77	2.35	2.36	10.48
Note: Quarterly Liquid Precipitation readings were acquired from the University of Kentucky Agricultural Weather Center at the following website http://www.wagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl				

Quarterly Significant Precipitation Events	
Date	Inches in 24-hour Period
2/7/2018	1.25
2/16/2018	1.21
2/22/2018	2.49
2/25/2018	1.38
3/24/2018	1.20
Note: Quarterly Significant Precipitation Events were acquired from the University of Kentucky Agricultural Weather Center at the following website: http://www.wagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl	

Table 2.2
CD Quarterly Report
First Quarter 2018
Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
1/8/2018	EH3_282	3264 Mt Foraker Dr	East Hickman	Debris	1,100	-	-	-
1/18/2018	SE6_332	3650 Boston Rd, 102	South Elkhorn	Debris	3,250	-	-	-
1/27/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	19,500	-	-	N/A
1/27/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	19,500	-	-	WH-1
1/27/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	19,500	-	-	WH-1
1/27/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	19,500	-	-	WH-1
1/28/2018	BS_SHCK7_BS_SHCK1	351 United Ct	Boone Creek	Break	39,500	-	-	-
1/30/2018	Basement	1613 Cantrill Dr	North Elkhorn	Debris	2,645	-	-	-
2/7/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	155,250	Table A-1a	4	WH-10
2/7/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	189,750	Appendix A	52	WH-12
2/7/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	189,750	Table A-1a	13	WH-12
2/7/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	75,750	-	-	WH-1
2/7/2018	WH7_38	2300 Richmond Rd	West Hickman	Sustained Rain Event	75,750	-	-	WH-18
2/7/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	75,750	-	-	WH-1
2/7/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	75,750	-	-	WH-1
2/7/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	144,375	Table A-1a	10	WH-11
2/7/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	13,125	Table A-1a	9	WH-11
2/7/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	2,150	Appendix A	36	WH-11
2/7/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	43,000	Appendix A	41	WH-11
2/7/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	96,750	Appendix A	38	WH-11
2/7/2018	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	6,875	-	-	EH-11
2/7/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	13,750	Table A-1a	1	EH-11
2/7/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	38,500	-	-	WH-7
2/7/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	105,875	Appendix A	54	WH-7
2/7/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	360,000	-	-	NE-6
2/7/2018	WH7_1007	2399 Richmond Rd	West Hickman	Sustained Rain Event	414,000	-	-	WH-1
2/7/2018	TB5_16	443 Park Ave	Town Branch	Debris	11,250	-	-	-
2/7/2018	TB5_16A	443 Park Ave	Town Branch	Debris	11,250	-	-	-
2/8/2018	WR1_49_WR1_48	227 Sutton Pl	Wolf Run	Debris	525	-	-	-
2/8/2018	WR7_198	2489 Eastway Dr	Wolf Run	Grease	175	-	-	-
2/11/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	32,000	-	-	WH-1
2/11/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	32,000	-	-	WH-1
2/11/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	32,000	-	-	WH-1
2/11/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	10,500	Appendix A	52	WH-12
2/11/2018	WH10_315	204 Wilson Downing Rd	West Hickman	Debris	375	-	-	-

Table 2.2
CD Quarterly Report
First Quarter 2018
Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
2/14/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	15,500	-	-	WH-1
2/16/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	753,500	-	-	WH-1
2/16/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	685,000	-	-	WH-1
2/16/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	685,000	-	-	WH-1
2/16/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	19,425	-	-	WH-7
2/16/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	194,250	-	-	WH-7
2/16/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	874,125	Appendix A	54	WH-7
2/16/2018	WH3_67	3393 Tates Creek Rd	West Hickman	Sustained Rain Event	194,250	Appendix A	56	WH-7
2/16/2018	WH3_78C	3329 Tates Creek Rd	West Hickman	Sustained Rain Event	582,750	-	-	WH-7
2/16/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	241,500	Table A-1a	4	WH-10
2/16/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	664,125	Appendix A	52	WH-12
2/16/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	664,125	Table A-1a	13	WH-12
2/16/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	632,500	Table A-1a	10	WH-11
2/16/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	57,500	Table A-1a	9	WH-11
2/16/2018	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	11,500	Appendix A	37	WH-11
2/16/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	18,925	Appendix A	44	WH-8
2/16/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	946,250	Appendix A	45	WH-8
2/16/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	107,750	Appendix A	36	WH-11
2/16/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	215,500	Appendix A	41	WH-11
2/16/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	592,625	Appendix A	38	WH-11
2/16/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	183,000	Appendix A	71	WR-4
2/16/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	206,500	Appendix A	82	CR-14
2/16/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	103,250	-	-	CR-14
2/16/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	103,250	-	-	CR-14
2/16/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	68,500	-	-	N/A
2/16/2018	WH6_858	405 Plainview Dr	West Hickman	Sustained Rain Event	6,850	-	-	N/A
2/16/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	16,725	Appendix A	69	WR-5
2/16/2018	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	12,375	-	-	EH-11
2/16/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	24,750	Table A-1a	1	EH-11
2/16/2018	WH4_88	500 Albany Rd	West Hickman	Debris	9,750	-	-	-
2/16/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	32,750	Appendix A / Table A-1a (30)	29	WR-5
2/16/2018	WH1_41	- Veterans Park	West Hickman	Sustained Rain Event	13,500	Table A-1a	18	WH-3
2/16/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	13,500	Table A-1a	8	WH-3
2/16/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	975	Table A-1a	28	WR-9

Table 2.2
CD Quarterly Report
First Quarter 2018
Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
2/16/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	9,750	Table A-1a	29	WR-9
2/16/2018	WR2_393	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	116,500	-	-	WR-9
2/16/2018	WR2_566	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	29,125	-	-	WR-9
2/16/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	6,000	Appendix A	59	WH-5
2/16/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	29,125	Appendix A	70	WR-4
2/16/2018	WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	115,500	-	-	WH-9
2/16/2018	WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	261,000	-	-	WH-9
2/16/2018	WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	262,000	Table A-1a	6	WH-9
2/16/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	312,125	Table A-1a	31	WR-7
2/16/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	5,650	Appendix A	61	WR-7
2/16/2018	WH1_45	941 Fiddler Creek Way	West Hickman	Sustained Rain Event	5,175	Table A-1a	15	WH-3
2/16/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	205,000	-	-	NE-6
2/17/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	28,320	-	-	-
2/20/2018	WH7_599	1700 Strader Dr	West Hickman	Debris	375	-	-	-
2/22/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1,952,500	Appendix A	54	WH-7
2/22/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1,438,750	Appendix A	82	CR-14
2/22/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	155,250	Appendix A	45	WH-8
2/22/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	1,403,000	-	-	WH-1
2/22/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	346,500	Appendix A	52	WH-12
2/22/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	320,375	Table A-1a	10	WH-11
2/22/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	711,000	Appendix A	71	WR-4
2/22/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	284,625	Appendix A	38	WH-11
2/22/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	192,000	Appendix A	59	WH-5
2/22/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	193,500	Appendix A	69	WR-5
2/22/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	105,750	Appendix A / Table A-1a (30)	29	WR-5
2/22/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	175,500	Table A-1a	29	WR-9
2/22/2018	^WH_1	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875	-	-	WH-20
2/22/2018	^WH_1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875	-	-	WH-20
2/22/2018	^WH_2A	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875	-	-	WH-20
2/22/2018	WH1_12	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875	-	-	WH-20
2/22/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	39,250	Table A-1a	8	WH-3
2/22/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	138,000	Table A-1a	1	EH-11
2/22/2018	WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	11,000	-	-	WH-9
2/22/2018	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	5,250	Appendix A	9	WH-13

Table 2.2
CD Quarterly Report
First Quarter 2018
Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
2/22/2018	WR2_338	1814 Parkers Mill Rd	Wolf Run	Debris	295,750	-	-	-
2/22/2018	TB1_302	521 Bright Ave	Town Branch	Debris	25,000	-	-	-
2/22/2018	TB1_155	1120 Manchester St	Town Branch	Sustained Rain Event	284,000	Appendix A	99	TB-4
2/22/2018	WH3_629	3430 Pimlico Pkwy	West Hickman	Sustained Rain Event	1,550	-	-	WH-12
2/22/2018	CR1_129	740 W New Circle Rd	Cane Run	Sustained Rain Event	324,000	-	-	CR-11
2/22/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	405,625	Table A-1a	13	WH-12
2/22/2018	WH2_131	440 Lancelot Lane	West Hickman	Sustained Rain Event	45,000	Table A-1a	5	WH-5
2/22/2018	CR4_14	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1,341,250	Table A-1a	33	CR-14
2/22/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	287,000	-	-	CR-14
2/22/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	287,000	-	-	CR-14
2/22/2018	WR1_56A	1921 Dunkirk Dr	Wolf Run	Sustained Rain Event	9,625	Table A-1a	26	N/A
2/22/2018	WH2_179	3553 Laredo Dr	West Hickman	Sustained Rain Event	383,625	Appendix A	60	WH-5
2/22/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	402,875	Table A-1a	4	WH-10
2/22/2018	WR7_48	287 Southland Dr	Wolf Run	Debris	468,000	-	-	WR-7
2/22/2018	WR7_49	258 Plaza Drive	Wolf Run	Debris	468,000	-	-	WR-7
2/22/2018	CR4_425A	621 Parkside Dr	Cane Run	Sustained Rain Event	29,500	-	-	CR-5
2/22/2018	WH3_450	3555 Olympia Rd	West Hickman	Sustained Rain Event	7,250	Appendix A	53	WH-10
2/22/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1,000,500	-	-	WH-7
2/22/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	282,000	-	-	WH-7
2/22/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	14,250	Table A-1a	9	WH-11
2/22/2018	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	401,500	Appendix A	37	WH-11
2/22/2018	WR2_389	2382 Le Havre Rd	Wolf Run	Sustained Rain Event	576,500	-	-	WR-9
2/22/2018	CR5_284	**1443 Bryan Ave (McCloy Alley)	Cane Run	Sustained Rain Event	35,500	-	-	CR-15
2/22/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	635,625	-	-	NE-6
2/22/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	28,000	Appendix A	36	WH-11
2/22/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	152,000	Table A-1a	28	WR-9
2/22/2018	WH3_67	3393 Bates Creek Rd	West Hickman	Sustained Rain Event	379,500	Appendix A	56	WH-7
2/22/2018	WH3_78C	3329 Bates Creek Rd	West Hickman	Sustained Rain Event	1,827,375	-	-	WH-7
2/22/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	326,250	Appendix A	41	WH-11
2/22/2018	WR2_393	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	287,250	-	-	WR-9
2/22/2018	WR2_566	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	287,000	-	-	WR-9
2/22/2018	WH2_395B	1145 Appian Crossing Way	West Hickman	Sustained Rain Event	1,125	-	-	WH-9
2/22/2018	WH5_43	3300 Montavesta Rd	West Hickman	Sustained Rain Event	139,750	Table A-1a	21	WH-8
2/22/2018	WH5_44	3202 Montavesta Rd	West Hickman	Sustained Rain Event	11,750	Appendix A	43	WH-8
2/22/2018	WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	862,500	Appendix A	46	WH-8

Table 2.2
CD Quarterly Report
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Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
2/22/2018	WH6_448A	505 Plainview Dr	West Hickman	Sustained Rain Event	26,500	-	-	N/A
2/22/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	53,000	-	-	N/A
2/22/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	1,073,250	Appendix A	70	WR-4
2/22/2018	WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	200,250	-	-	WH-9
2/22/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	2,035,000	Appendix A	44	WH-8
2/22/2018	WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	49,500	-	-	WH-9
2/22/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	1,637,500	-	-	WH-1
2/22/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	1,637,500	-	-	WH-1
2/22/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	357,000	Appendix A	66	WR-5
2/22/2018	WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	22,000	Table A-1a	6	WH-9
2/22/2018	WH5_123	3117 Lamar Dr	West Hickman	Sustained Rain Event	249,750	Appendix A	48	WH-8
2/22/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	36,625	Appendix A	68	WR-5
2/22/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	36,625	Appendix A	65	WR-5
2/22/2018	WR5_107	399 Sheridan Dr	Wolf Run	Debris	569,000	-	-	-
2/22/2018	WH7_930	**212 St Ann Dr (Idle Hour Park)	West Hickman	Sustained Rain Event	37,500	-	-	WH-1
2/22/2018	EH3_1030	1325 Fenwick Dr.	East Hickman	Sustained Rain Event	172,000	-	-	EH-11
2/22/2018	CR4_162	2233 Pierson Dr	Cane Run	Debris	23,000	-	-	CR-5
2/22/2018	CR4_174	2221 Pierson Dr	Cane Run	Debris	23,000	-	-	CR-5
2/22/2018	CR4_175	2217 Pierson Dr	Cane Run	Debris	23,000	Appendix A	81	CR-5
2/22/2018	WH5_165	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	371,250	Table A-1a	23	WH-8
2/22/2018	WH5_166	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	304,875	Table A-1a	24	WH-8
2/22/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	308,250	Table A-1a	31	WR-7
2/22/2018	WR7_45	299 Southland Dr	Wolf Run	Sustained Rain Event	67,750	Table A-1a	32	WR-7
2/22/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	135,500	Appendix A	61	WR-7
2/22/2018	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	33,000	-	-	N/A
2/22/2018	WH5_552	928 The Curtilage	West Hickman	Debris	6,000	-	-	-
2/25/2018	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	5,000	Appendix A	9	WH-13
2/25/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	228,375	Table A-1a	4	WH-10
2/25/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	279,125	Appendix A	52	WH-12
2/25/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	279,125	Table A-1a	13	WH-12
2/25/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	237,875	Table A-1a	10	WH-11
2/25/2018	WH6_98	**3544 Creekwood Dr (Chinoo Creek Apts)	West Hickman	Sustained Rain Event	173,000	Appendix A	37	WH-11
2/25/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	44,750	Appendix A / Table A-1a (30)	29	WR-5
2/25/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	31,250	Appendix A	59	WH-5

Table 2.2
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Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
2/25/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	10,500	Table A-1a	29	WR-9
2/25/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	74,000	Table A-1a	1	EH-11
2/25/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	18,875	Appendix A	41	WH-11
2/25/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	151,000	Appendix A	38	WH-11
2/25/2018	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	49,500	-	-	N/A
2/25/2018	WH6_75	**3540 Creekwood Dr (Chinoo Creek Apts)	West Hickman	Sustained Rain Event	4,325	Table A-1a	9	WH-11
2/25/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	39,500	Table A-1a	8	WH-3
2/25/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	221,250	-	-	CR-14
2/25/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	73,750	-	-	CR-14
2/25/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	73,000	Table A-1a	28	WR-9
2/25/2018	WR2_320	1240 Cross Keys Rd	Wolf Run	Sustained Rain Event	218,250	-	-	WR-9
2/25/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	438,000	Appendix A	68	WR-5
2/25/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	72,750	Appendix A	65	WR-5
2/25/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	291,000	Table A-1a	31	WR-7
2/25/2018	WR7_45	299 Southland Dr	Wolf Run	Sustained Rain Event	18,000	Table A-1a	32	WR-7
2/25/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	18,000	Appendix A	61	WR-7
2/25/2018	WH3_67	3393 Tates Creek Rd	West Hickman	Sustained Rain Event	427,500	Appendix A	56	WH-7
2/25/2018	WH7_930	**212 St Ann Dr (Idle Hour Park)	West Hickman	Sustained Rain Event	30,500	-	-	WH-1
2/25/2018	WH5_123	3117 Lamar Dr	West Hickman	Sustained Rain Event	141,000	Appendix A	48	WH-8
2/25/2018	WH5_165	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	219,750	Table A-1a	23	WH-8
2/25/2018	WH5_155A	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	36,375	Table A-1a	22	WH-8
2/25/2018	WH5_166	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	145,500	Table A-1a	24	WH-8
2/25/2018	WH1_14	700 Southpoint Dr	West Hickman	Debris	22,975	-	-	-
2/25/2018	CR1_25	500 Hollow Creek Rd	Cane Run	Debris	20,825	-	-	-
2/27/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	29,125	-	-	-
3/5/2018	WR2_491	1046 Della Dr	Wolf Run	Debris	1,100	-	-	-
3/7/2018	EH2_152	1536 Springfield Dr	East Hickman	Debris	250	-	-	-
3/8/2018	TB5_188	1125 Tates Creek Rd	Town Branch	Debris	250	-	-	-
3/16/2018	Basement	1609 Raleigh Rd	North Elkhorn	Roots	805	-	-	-
3/18/2018	Basement	821 Bennett Ave	Town Branch	Debris	844	-	-	-
3/20/2018	WR1_37A	2000 Dunkirk Dr	Wolf Run	Debris	425	-	-	-
3/24/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	189,500	-	-	WH-1
3/24/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	189,500	-	-	WH-1
3/24/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	189,500	-	-	WH-1
3/24/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	37,500	Appendix A	52	WH-12

Table 2.2
CD Quarterly Report
First Quarter 2018
Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
3/24/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	44,500	-	-	WH-7
3/24/2018	WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	44,500	Appendix A	55	WH-7
3/24/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	89,000	-	-	WH-7
3/24/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	400,500	Appendix A	54	WH-7
3/24/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	30,000	Table A-1a	10	WH-11
3/24/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	26,500	Appendix A	38	WH-11
3/24/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	397,125	Appendix A	45	WH-8
3/24/2018	WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	264,750	Appendix A	46	WH-8
3/24/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	237,000	Appendix A	68	WR-5
3/24/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	79,000	Appendix A	69	WR-5
3/24/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	21,250	Appendix A	82	CR-14
3/24/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	79,750	Table A-1a	1	EH-11
3/24/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	29,500	Appendix A / Table A-1a (30)	29	WR-5
3/25/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	255,750	Appendix A	70	WR-4
3/25/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	31,000	Appendix A	71	WR-4
3/25/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	93,000	Appendix A	66	WR-5
3/25/2018	Basement	1831 Bellefonte Dr	West Hickman	Roots	410	-	-	-
3/26/2018	TB3_215A	144 E Fifth St	Town Branch	Debris	325	-	-	-
3/28/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	179,250	-	-	WH-1
3/28/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	89,625	-	-	WH-1
3/28/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	89,625	-	-	WH-1
3/29/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	917,125	Appendix A	54	WH-7
3/29/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	113,875	-	-	-
3/29/2018	WH5_44	3202 Montavesta Rd	West Hickman	Sustained Rain Event	717,750	Appendix A	43	WH-8
3/29/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	159,500	Appendix A	44	WH-8
3/29/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	159,500	Appendix A	45	WH-8
3/30/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	27,875	Appendix A	69	WR-5
3/30/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	5,575	Appendix A	65	WR-5
3/30/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	4,550	Appendix A	71	WR-4
3/30/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	6,525	Appendix A	66	WR-5
		Total Overflows	237		Total Estimated Overflow Volume	52,133,999		

Table 2.2
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Manhole Overflows

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)							
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*	RMP Project

* 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.

^ This is a recently constructed MH in the West Hickman Trunk B (WH-3) project area that has not yet received an official MH number.

Table 2.3
CD Quarterly Report
First Quarter 2018
Manhole Overflows - Sorted by Cause

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
Break					
1/28/2018	BS_SHCK7_BS_SHCK1	351 United Ct	Boone Creek	Break	39,500
		Total Overflows	1	Total Estimated Overflow Volume	39,500
Debris In Line / Blockage					
1/8/2018	EH3_282	3264 Mt Foraker Dr	East Hickman	Debris	1,100
1/18/2018	SE6_332	3650 Boston Rd, 102	South Elkhorn	Debris	3,250
1/30/2018	Basement	1613 Cantrill Dr	North Elkhorn	Debris	2,645
2/7/2018	TB5_16	443 Park Ave	Town Branch	Debris	11,250
2/7/2018	TB5_16A	443 Park Ave	Town Branch	Debris	11,250
2/8/2018	WR1_49 WR1_48	227 Sutton Pl	Wolf Run	Debris	525
2/11/2018	WH10_315	204 Wilson Downing Rd	West Hickman	Debris	375
2/16/2018	WH4_88	500 Albany Rd	West Hickman	Debris	9,750
2/17/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	28,320
2/20/2018	WH7_599	1700 Strader Dr	West Hickman	Debris	375
2/22/2018	WR2_338	1814 Parkers Mill Rd	Wolf Run	Debris	295,750
2/22/2018	TB1_302	521 Bright Ave	Town Branch	Debris	25,000
2/22/2018	WR7_48	287 Southland Dr	Wolf Run	Debris	468,000
2/22/2018	WR7_49	258 Plaza Drive	Wolf Run	Debris	468,000
2/22/2018	WR5_107	399 Sheridan Dr	Wolf Run	Debris	569,000
2/22/2018	CR4_162	2233 Pierson Dr	Cane Run	Debris	23,000
2/22/2018	CR4_174	2221 Pierson Dr	Cane Run	Debris	23,000
2/22/2018	CR4_175	2217 Pierson Dr	Cane Run	Debris	23,000
2/22/2018	WH5_552	928 The Curtilage	West Hickman	Debris	6,000
2/25/2018	WH1_14	700 Southpoint Dr	West Hickman	Debris	22,975
2/25/2018	CR1_25	500 Hollow Creek Rd	Cane Run	Debris	20,825
2/27/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	29,125
3/5/2018	WR2_491	1046 Della Dr	Wolf Run	Debris	1,100
3/7/2018	EH2_152	1536 Springfield Dr	East Hickman	Debris	250
3/8/2018	TB5_188	1125 Tates Creek Rd	Town Branch	Debris	250
3/18/2018	Basement	821 Bennett Ave	Town Branch	Debris	844

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Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
3/20/2018	WR1_37A	2000 Dunkirk Dr	Wolf Run	Debris	425
3/26/2018	TB3_215A	144 E Fifth St	Town Branch	Debris	325
3/29/2018	WH5_44A	3150 Montavesta Rd	West Hickman	Debris	113,875
		Total Overflows	29	Total Estimated Overflow Volume	2,159,584
Grease					
2/8/2018	WR7_198	2489 Eastway Dr	Wolf Run	Grease	175
		Total Overflows	1	Total Estimated Overflow Volume	175
Roots					
3/16/2018	Basement	1609 Raleigh Rd	North Elkhorn	Roots	805
3/25/2018	Basement	1831 Bellefonte Dr	West Hickman	Roots	410
		Total Overflows	2	Total Estimated Overflow Volume	1,215
Sustained Rain Event					
1/27/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	19,500
1/27/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	19,500
1/27/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	19,500
1/27/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	19,500
2/7/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	155,250
2/7/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	189,750
2/7/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	189,750
2/7/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	75,750
2/7/2018	WH7_38	2300 Richmond Rd	West Hickman	Sustained Rain Event	75,750
2/7/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	75,750
2/7/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	75,750
2/7/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	144,375
2/7/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	13,125
2/7/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	2,150
2/7/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	43,000
2/7/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	96,750

Table 2.3
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1st Quarter 2018 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/7/2018	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	6,875
2/7/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	13,750
2/7/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	38,500
2/7/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	105,875
2/7/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	360,000
2/7/2018	WH7_1007	2399 Richmond Rd	West Hickman	Sustained Rain Event	414,000
2/11/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	32,000
2/11/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	32,000
2/11/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	32,000
2/11/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	10,500
2/14/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	15,500
2/16/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	753,500
2/16/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	685,000
2/16/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	685,000
2/16/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	19,425
2/16/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	194,250
2/16/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	874,125
2/16/2018	WH3_67	3393 Tates Creek Rd	West Hickman	Sustained Rain Event	194,250
2/16/2018	WH3_78C	3329 Tates Creek Rd	West Hickman	Sustained Rain Event	582,750
2/16/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	241,500
2/16/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	664,125
2/16/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	664,125
2/16/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	632,500
2/16/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	57,500
2/16/2018	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	11,500
2/16/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	18,925
2/16/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	946,250
2/16/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	107,750
2/16/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	215,500
2/16/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	592,625

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1st Quarter 2018 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/16/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	183,000
2/16/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	206,500
2/16/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	103,250
2/16/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	103,250
2/16/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	68,500
2/16/2018	WH6_858	405 Plainview Dr	West Hickman	Sustained Rain Event	6,850
2/16/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	16,725
2/16/2018	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	12,375
2/16/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	24,750
2/16/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	32,750
2/16/2018	WH1_41	- Veterans Park	West Hickman	Sustained Rain Event	13,500
2/16/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	13,500
2/16/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	975
2/16/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	9,750
2/16/2018	WR2_393	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	116,500
2/16/2018	WR2_566	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	29,125
2/16/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	6,000
2/16/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	29,125
2/16/2018	WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	115,500
2/16/2018	WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	261,000
2/16/2018	WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	262,000
2/16/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	312,125
2/16/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	5,650
2/16/2018	WH1_45	941 Fiddler Creek Way	West Hickman	Sustained Rain Event	5,175
2/16/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	205,000
2/22/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1,952,500
2/22/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1,438,750
2/22/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	155,250
2/22/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	1,403,000
2/22/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	346,500

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1st Quarter 2018 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/22/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	320,375
2/22/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	711,000
2/22/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	284,625
2/22/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	192,000
2/22/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	193,500
2/22/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	105,750
2/22/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	175,500
2/22/2018	^WH_1	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875
2/22/2018	^WH_1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875
2/22/2018	^WH_2A	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875
2/22/2018	WH1_12	700 Southpoint Dr	West Hickman	Sustained Rain Event	215,875
2/22/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	39,250
2/22/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	138,000
2/22/2018	WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	11,000
2/22/2018	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	5,250
2/22/2018	TB1_155	1120 Manchester St	Town Branch	Sustained Rain Event	284,000
2/22/2018	WH3_629	3430 Pimlico Pkwy	West Hickman	Sustained Rain Event	1,550
2/22/2018	CR1_129	740 W New Circle Rd	Cane Run	Sustained Rain Event	324,000
2/22/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	405,625
2/22/2018	WH2_131	440 Lancelot Lane	West Hickman	Sustained Rain Event	45,000
2/22/2018	CR4_14	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1,341,250
2/22/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	287,000
2/22/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	287,000
2/22/2018	WR1_56A	1921 Dunkirk Dr	Wolf Run	Sustained Rain Event	9,625
2/22/2018	WH2_179	3553 Laredo Dr	West Hickman	Sustained Rain Event	383,625
2/22/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	402,875
2/22/2018	CR4_425A	621 Parkside Dr	Cane Run	Sustained Rain Event	29,500
2/22/2018	WH3_450	3555 Olympia Rd	West Hickman	Sustained Rain Event	7,250
2/22/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1,000,500
2/22/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	282,000

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Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/22/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	14,250
2/22/2018	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	401,500
2/22/2018	WR2_389	2382 Le Havre Rd	Wolf Run	Sustained Rain Event	576,500
2/22/2018	CR5_284	**1443 Bryan Ave (McCloy Alley)	Cane Run	Sustained Rain Event	35,500
2/22/2018	NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	635,625
2/22/2018	WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	28,000
2/22/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	152,000
2/22/2018	WH3_67	3393 Bates Creek Rd	West Hickman	Sustained Rain Event	379,500
2/22/2018	WH3_78C	3329 Bates Creek Rd	West Hickman	Sustained Rain Event	1,827,375
2/22/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	326,250
2/22/2018	WR2_393	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	287,250
2/22/2018	WR2_566	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	287,000
2/22/2018	WH2_395B	1145 Appian Crossing Way	West Hickman	Sustained Rain Event	1,125
2/22/2018	WH5_43	3300 Montavesta Rd	West Hickman	Sustained Rain Event	139,750
2/22/2018	WH5_44	3202 Montavesta Rd	West Hickman	Sustained Rain Event	11,750
2/22/2018	WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	862,500
2/22/2018	WH6_448A	505 Plainview Dr	West Hickman	Sustained Rain Event	26,500
2/22/2018	WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	53,000
2/22/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	1,073,250
2/22/2018	WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	200,250
2/22/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	2,035,000
2/22/2018	WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	49,500
2/22/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	1,637,500
2/22/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	1,637,500
2/22/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	357,000
2/22/2018	WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	22,000
2/22/2018	WH5_123	3117 Lamar Dr	West Hickman	Sustained Rain Event	249,750
2/22/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	36,625
2/22/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	36,625
2/22/2018	WH7_930	**212 St Ann Dr (Idle Hour Park)	West Hickman	Sustained Rain Event	37,500

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Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/22/2018	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	172,000
2/22/2018	WH5_165	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	371,250
2/22/2018	WH5_166	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	304,875
2/22/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	308,250
2/22/2018	WR7_45	299 Southland Dr	Wolf Run	Sustained Rain Event	67,750
2/22/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	135,500
2/22/2018	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	33,000
2/25/2018	WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	5,000
2/25/2018	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	228,375
2/25/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	279,125
2/25/2018	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	279,125
2/25/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	237,875
2/25/2018	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	173,000
2/25/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	44,750
2/25/2018	WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	31,250
2/25/2018	WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	10,500
2/25/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	74,000
2/25/2018	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	18,875
2/25/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	151,000
2/25/2018	SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	49,500
2/25/2018	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	4,325
2/25/2018	WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	39,500
2/25/2018	CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	221,250
2/25/2018	CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	73,750
2/25/2018	WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	73,000
2/25/2018	WR2_320	1240 Cross Keys Rd	Wolf Run	Sustained Rain Event	218,250
2/25/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	438,000
2/25/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	72,750
2/25/2018	WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	291,000
2/25/2018	WR7_45	299 Southland Dr	Wolf Run	Sustained Rain Event	18,000

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Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
2/25/2018	WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	18,000
2/25/2018	WH3_67	3393 Bates Creek Rd	West Hickman	Sustained Rain Event	427,500
2/25/2018	WH7_930	**212 St Ann Dr (Idle Hour Park)	West Hickman	Sustained Rain Event	30,500
2/25/2018	WH5_123	3117 Lamar Dr	West Hickman	Sustained Rain Event	141,000
2/25/2018	WH5_165	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	219,750
2/25/2018	WH5_155A	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	36,375
2/25/2018	WH5_166	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	145,500
3/24/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	189,500
3/24/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	189,500
3/24/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	189,500
3/24/2018	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	37,500
3/24/2018	WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	44,500
3/24/2018	WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	44,500
3/24/2018	WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	89,000
3/24/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	400,500
3/24/2018	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	30,000
3/24/2018	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	26,500
3/24/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	397,125
3/24/2018	WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	264,750
3/24/2018	WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	237,000
3/24/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	79,000
3/24/2018	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	21,250
3/24/2018	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	79,750
3/24/2018	WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	29,500
3/25/2018	WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	255,750
3/25/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	31,000
3/25/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	93,000
3/28/2018	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	179,250
3/28/2018	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	89,625
3/28/2018	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	89,625

Table 2.3
CD Quarterly Report
First Quarter 2018
Manhole Overflows - Sorted by Cause

1st Quarter 2018 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
3/29/2018	WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	917,125
3/29/2018	WH5_44	3202 Montavesta Rd	West Hickman	Sustained Rain Event	717,750
3/29/2018	WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	159,500
3/29/2018	WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	159,500
3/30/2018	WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	27,875
3/30/2018	WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	5,575
3/30/2018	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	4,550
3/30/2018	WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	6,525
		Total Overflows	204	Total Estimated Overflow Volume	49,933,525
		All Causes Overflows	237	All Causes Total Estimated Overflow Volume	52,133,999

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

^ This is a recently constructed MH in the West Hickman Trunk B (WH-3) project area that has not yet received an official MH number.

Table 2.4
CD Quarterly Report
First Quarter 2018
 vs.
First Quarter 2017 and Fourth Quarter 2017

1st Quarter 2018 vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017
Basement	1025 Lakefront Dr	West Hickman	Debris	0	0	1
Basement	3500 Greenlawn Dr	West Hickman	Grease	0	0	1
Basement	408 Delcamp Dr 1	Cane Run	Debris	0	1	0
Basement	223 Loch Lomond Dr	West Hickman	Debris	0	1	0
Basement	3374 Tisdale Dr	South Elkhorn	Roots	0	1	0
Basement	4085 Syringa Dr	South Elkhorn	Debris	0	1	0
Basement	1613 Cantrill Dr	North Elkhorn	Debris	1	0	0
Basement	821 Bennett Ave	Town Branch	Debris	1	0	0
Basement	1609 Raleigh Rd	North Elkhorn	Roots	1	0	0
Basement	1831 Bellefonte Dr	West Hickman	Roots	1	0	0
BC1_56	5355 Athens Boonesboro Rd	East Hickman	Debris	0	1	0
BS_SHCK7_BS_SHCK1	351 United Ct	Boone Creek	Break	1	0	0
CR1_129	740 W New Circle Rd	Cane Run	Sustained Rain Event	1	0	0
CR1_25	500 Hollow Creek Rd	Cane Run	Debris	1	0	0
CR2_181	1872 Costigan Drive	Cane Run	Debris	0	0	1
CR4_12	444 Cane Run Rd	Cane Run	Sustained Rain Event	0	2	0
CR4_14	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1	1	0
CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	3	2	1
CR4_162	2233 Pierson Dr	Cane Run	Debris	1	0	0
CR4_174	2221 Pierson Dr	Cane Run	Debris	1	0	0
CR4_175	2217 Pierson Dr	Cane Run	Debris	1	0	0
CR4_425A	621 Parkside Dr	Cane Run	Sustained Rain Event	1	0	0
CR4_8	444 Cane Run Rd	Cane Run	Sustained Rain Event	3	2	0
CR4_8A	438 Cane Run Rd	Cane Run	Sustained Rain Event	3	2	0
CR5_284	**1443 Bryan Ave (McCloy Alley)	Cane Run	Sustained Rain Event	1	0	0
CR6_101_CR6_100	712 Lancaster Ave	Cane Run	Break	0	2	0
CR6_101_CR6_100	716 Lancaster Ave	Cane Run	Break	0	2	0
EH2_152	1536 Springfield Dr	East Hickman	Debris	1	0	0
EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	3	3	1
EH3_131	3116 High Ridge Dr	East Hickman	Roots	0	0	1
EH3_282	3264 Mt Foraker Dr	East Hickman	Debris	1	0	0
EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	5	1	1
EH4_493	3030 Richmond Rd	East Hickman	Grease	0	1	0

Table 2.4
CD Quarterly Report
First Quarter 2018
 vs.
First Quarter 2017 and Fourth Quarter 2017

1st Quarter 2018 vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017
EH4_494	3030 Richmond Rd	East Hickman	Grease	0	1	0
KLND_ARV3	3440 Versailles Rd	Wolf Run	Break	0	1	0
NE1_132	1143 Floyd Dr	North Elkhorn	Sustained Rain Event	3	3	0
NE1_182	1019 Industry Rd	North Elkhorn	Grease	0	0	1
NE1_290D_NE1_290C	1512 Clarksdale Ct	North Elkhorn	Break	0	1	0
NE1_329	568 Hi Crest Dr	North Elkhorn	Roots	0	1	0
OPRD_ARV1_CR4_550	2025 Old Paris Rd	Cane Run	Break	0	0	1
SE1_10	4176 Palmetto Dr	South Elkhorn	Roots	0	1	0
SE2_6137	3273 Blenheim Way	South Elkhorn	Sustained Rain Event	2	0	0
SE6_332	3650 Boston Rd, 102	South Elkhorn	Debris	1	0	0
SE7_285_SE7_284	3415 Saybrook Rd	South Elkhorn	Grease	0	1	0
TB1_155	1120 Manchester St	Town Branch	Sustained Rain Event	1	0	0
TB1_302	521 Bright Ave	Town Branch	Debris	1	0	0
TB3_215A	144 E Fifth St	Town Branch	Debris	1	0	0
TB3_235	190 Spruce St	Town Branch	Debris	0	1	0
TB3_501A	628 Winchester Rd	Town Branch	Debris	0	0	1
TB3_991	302 Gunn St	Town Branch	Grease	0	1	0
TB5_16	443 Park Ave	Town Branch	Debris	1	0	0
TB5_16A	443 Park Ave	Town Branch	Debris	1	0	0
TB5_188	1125 Tates Creek Rd	Town Branch	Debris	1	0	0
TB6_9	160 Opportunity Way	Town Branch	Debris	0	1	0
^WH_1	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
^WH_1A	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
^WH_2A	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
WH1_12	700 Southpoint Dr	West Hickman	Sustained Rain Event	1	0	0
WH1_14	700 Southpoint Dr	West Hickman	Debris	1	0	0
WH1_41	- Veterans Park	West Hickman	Sustained Rain Event	1	0	0
WH1_45	941 Fiddler Creek Way	West Hickman	Sustained Rain Event	1	0	0
WH1_455	787 Tyrus Ct	West Hickman	Sustained Rain Event	3	0	0
WH10_315	204 Wilson Downing Rd	West Hickman	Debris	1	0	0
WH2_131	440 Lancelot Lane	West Hickman	Sustained Rain Event	1	0	0
WH2_179	3553 Laredo Dr	West Hickman	Sustained Rain Event	1	0	0
WH2_181	3501 Laredo Dr	West Hickman	Sustained Rain Event	3	0	0

Table 2.4
CD Quarterly Report
First Quarter 2018
 vs.
First Quarter 2017 and Fourth Quarter 2017

1st Quarter 2018 vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017
WH2_395A	**1156 Appian Crossing Way	West Hickman	Sustained Rain Event	0	1	0
WH2_395B	1145 Appian Crossing Way	West Hickman	Sustained Rain Event	1	0	0
WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event	2	2	0
WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event	1	0	0
WH2_477A	1457 Stephen Foster Dr	West Hickman	Sustained Rain Event	2	1	0
WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event	2	1	0
WH2_502E	3716 Trent Cir, Ofc	West Hickman	Debris	0	0	1
WH2_78	3395 Spangler Dr	West Hickman	Sustained Rain Event	0	1	0
WH3_144	3501 Kirklevington Dr	West Hickman	Sustained Rain Event	3	0	0
WH3_148A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1	0	0
WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	4	3	1
WH3_450	3555 Olympia Rd	West Hickman	Sustained Rain Event	1	0	0
WH3_55A	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	4	1	0
WH3_56	3051 Kirklevington Dr	West Hickman	Sustained Rain Event	5	2	1
WH3_629	3430 Pimlico Pkwy	West Hickman	Sustained Rain Event	1	0	0
WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	6	3	2
WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	4	2	1
WH3_67	3393 Bates Creek Rd	West Hickman	Sustained Rain Event	3	0	0
WH3_739	3444 Dixiana Dr	West Hickman	Grease	0	0	1
WH3_78C	3329 Bates Creek Rd	West Hickman	Sustained Rain Event	2	0	0
WH4_88	500 Albany Rd	West Hickman	Debris	1	0	0
WH5_123	3117 Lamar Dr	West Hickman	Sustained Rain Event	2	0	0
WH5_155A	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	1	0	0
WH5_165	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	2	0	0
WH5_166	260 Old Mt Tabor Rd	West Hickman	Sustained Rain Event	2	0	0
WH5_43	3300 Montavesta Rd	West Hickman	Sustained Rain Event	1	0	0
WH5_44	3202 Montavesta Rd	West Hickman	Sustained Rain Event	2	0	0
WH5_44A	3150 Montavesta Rd	West Hickman	Debris	3	0	0
WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event	3	2	0
WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event	4	2	0
WH5_45B	3134 Montavesta Rd	West Hickman	Sustained Rain Event	2	2	0
WH5_552	928 The Curtilage	West Hickman	Debris	1	0	0
WH6_100	3669 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	2	0

Table 2.4
CD Quarterly Report
First Quarter 2018
 vs.
First Quarter 2017 and Fourth Quarter 2017

1st Quarter 2018 vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017
WH6_101	3649 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	2	0
WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event	3	3	0
WH6_102A	3637 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	2	0
WH6_103	3633 Barrow Wood Ln	West Hickman	Sustained Rain Event	0	2	0
WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	4	3	1
WH6_448A	505 Plainview Dr	West Hickman	Sustained Rain Event	1	0	0
WH6_448B	2691 Tanner Ct	West Hickman	Sustained Rain Event	3	0	0
WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	5	3	2
WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	5	3	2
WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	4	3	1
WH6_858	405 Plainview Dr	West Hickman	Sustained Rain Event	1	0	0
WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	3	3	1
WH7_1007	2399 Richmond Rd	West Hickman	Sustained Rain Event	1	0	0
WH7_280A	204 St Ann Dr	West Hickman	Sustained Rain Event	2	0	0
WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	8	4	2
WH7_38	2300 Richmond Rd	West Hickman	Sustained Rain Event	1	0	0
WH7_599	1700 Strader Dr	West Hickman	Debris	1	0	0
WH7_930	**212 St Ann Dr (Idle Hour Park)	West Hickman	Sustained Rain Event	2	0	0
WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	7	4	2
WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	7	4	2
WH9_5	645 W Hickman Plant Rd	West Hickman	Debris	0	1	0
WR1_170A	1728 Hill Rise Dr, 412	Wolf Run	Debris	0	0	1
WR1_37A	2000 Dunkirk Dr	Wolf Run	Debris	1	0	0
WR1_49 WR1_48	227 Sutton Pl	Wolf Run	Debris	1	0	0
WR1_56A	1921 Dunkirk Dr	Wolf Run	Sustained Rain Event	1	0	0
WR2_101A	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	3	1	0
WR2_102	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	4	1	1
WR2_306	1745 Traveller Rd	Wolf Run	Sustained Rain Event	3	0	0
WR2_319	1733 Traveller Rd	Wolf Run	Sustained Rain Event	3	1	0
WR2_320	1240 Cross Keys Rd	Wolf Run	Sustained Rain Event	1	0	0
WR2_338	1814 Parkers Mill Rd	Wolf Run	Debris	1	0	0
WR2_389	2382 Le Havre Rd	Wolf Run	Sustained Rain Event	1	0	0
WR2_393	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	2	2	0

Table 2.4
CD Quarterly Report
First Quarter 2018
 vs.
First Quarter 2017 and Fourth Quarter 2017

1st Quarter 2018 vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 1st QTR 2018	Number of Overflows 1st QTR 2017	Number of Overflows 4th QTR 2017
WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	4	2	1
WR2_491	1046 Della Dr	Wolf Run	Debris	1	0	0
WR2_566	2401 Williamsburg Estates	Wolf Run	Sustained Rain Event	2	1	0
WR2_91	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	3	2	0
WR3_103	**1835 Yorktown Rd (Gardenside Park)	Wolf Run	Sustained Rain Event	3	0	0
WR3_308	1853 Normandy Rd	Wolf Run	Sustained Rain Event	3	1	0
WR5_107	399 Sheridan Dr	Wolf Run	Debris	1	0	0
WR5_9	782 Allendale Dr	Wolf Run	Sustained Rain Event	4	0	0
WR5_93	139 Elam Park	Wolf Run	Sustained Rain Event	3	0	0
WR7_198	2489 Eastway Dr	Wolf Run	Grease	1	0	0
WR7_209	2220 Nicholasville Rd	Wolf Run	Debris	0	1	0
WR7_45	299 Southland Dr	Wolf Run	Sustained Rain Event	2	0	0
WR7_47	275 Southland Dr	Wolf Run	Sustained Rain Event	3	0	0
WR7_48	287 Southland Dr	Wolf Run	Debris	1	0	0
WR7_49	258 Plaza Drive	Wolf Run	Debris	1	0	0
Total Number of Overflows Per Respective Qtr.				237	109	33
Total Estimated Vol. (gal.) of Overflows Per Respective Qtr.				52,133,999	6,635,571	2,147,951

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

^This is a recently constructed MH in the West Hickman Trunk B (WH-3) project area that has not yet received an official MH number.

Table 2.5
CD Quarterly Report
First Quarter 2018
Pump Station Overflows / Bypasses

1st Quarter 2018 Sanitary Sewer Overflows / Bypasses (Pump Stations)								
Date	Bypass / Overflow	Pump Station Name	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A*	RMP Project
1/27/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,236,789	87	EH-11
1/28/18	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Lack of Capacity	1,000	107	TB-2
2/7/18	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	35,478	23	EH-8
2/7/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,057,342	87	EH-11
2/7/18	Overflow	Greenbrier 2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	14,763	89	NE-4
2/7/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	590,260	13	CR-5
2/12/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	977,600	87	EH-11
2/11/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	347,200	13	CR-5
2/14/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	310,996	13	CR-5
2/16/18	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	60,740	23	EH-8
2/18/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	3,243,731	87	EH-11
2/17/18	Overflow	Greenbrier 2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	115,939	89	NE-4
2/18/18	Overflow	Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	77,494	86	WH-8
2/17/18	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	193,200	90	CR-8
2/18/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	1,656,973	13	CR-5
2/22/18	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	109,053	23	EH-8
2/22/18	Overflow	East Hickman	3316 Buckhorn Dr	East Hickman	Sustained Rain Event	433,332	19	EH-3
2/22/18	Overflow	Greenbrier 2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	145,480	89	NE-4
2/22/18	Overflow	Mint Lane	1510 Man O War Blvd	South Elkhorn	Sustained Rain Event	131,242	85	SE-3
2/22/18	Overflow	Shandon Park 2	765 Kingston Dr	Cane Run	Sustained Rain Event	281,951	14	CR-5
2/22/18	Overflow	South Elkhorn	2500 Bowman Mill Rd	South Elkhorn	Sustained Rain Event	468,234	1	SE-1
2/22/18	Bypass	St. Martins	961 St. Martins Ave	Town Branch	Sustained Rain Event	7,683	-	N/A
2/23/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	798,388	13	CR-5
2/22/18	Overflow	Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	11,306	107	TB-2
2/22/18	Overflow	Winburn	1985 Russell Cave Rd	Cane Run	Sustained Rain Event	61,954	15	CR-6
2/25/18	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	75,220	23	EH-8
2/25/18	Overflow	Greenbrier 2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	146,610	89	NE-4
2/25/18	Overflow	Shandon Park 2	765 Kingston Dr	Cane Run	Sustained Rain Event	141,947	14	CR-5
2/25/18	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	188,138	90	CR-8
2/25/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	589,716	13	CR-5
2/25/18	Overflow	Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	9,620	107	TB-2
2/25/18	Overflow	Winburn	1985 Russel Cave Rd	Cane Run	Sustained Rain Event	14,096	15	CR-6
2/26/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	235,547	87	EH-11
2/26/18	Overflow	Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Sustained Rain Event	4,738,320	84	CR-1
2/26/18	Overflow	Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	125,258	86	WH-8
3/1/18	Bypass	Thoroughbred Acres	619 Parkside Dr	Cane Run	Power Failure	9,389	13	CR-5

Table 2.5
CD Quarterly Report
First Quarter 2018
Pump Station Overflows / Bypasses

1st Quarter 2018 Sanitary Sewer Overflows / Bypasses (Pump Stations)								
Date	Bypass / Overflow	Pump Station Name	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A*	RMP Project
3/2/18	Bypass	Thoroughbred Acres	619 Parkside Dr	Cane Run	Power Failure	8,320	13	CR-5
3/12/18	Bypass	Thoroughbred Acres	619 Parkside Dr	Cane Run	Power Failure	17,517	13	CR-5
3/14/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	336,268	87	EH-11
3/18/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	50,412	87	EH-12
3/20/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	374,497	87	EH-13
3/25/18	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,757,308	87	EH-14
3/25/18	Overflow	Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	32,998	86	WH-8
3/24/18	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	18,454	90	CR-8
3/25/18	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	168,640	13	CR-5
3/30/18	Overflow	Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	23,127	86	WH-8
3/30/18	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	2,047	90	CR-8
Total Overflows				47	Total Estimated Overflow / Bypass Volume		21,431,577	

* 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
First Quarter 2018

vs.

First Quarter 2017 and Fourth Quarter 2017
Pump Stations

1st Quarter 2018 Sanitary Sewer Overflows/Bypasses vs. 1st Quarter 2017 and 4th Quarter 2017 Sanitary Sewer Overflows / Bypasses (Pump Stations)							
Pump Station Name	Address	Sewershed	Cause	Bypass / Overflow	Number of Overflows/ Bypasses 1st QTR 18	Number of Overflows/ Bypasses 1st QTR 17	Number of Overflows / Bypasses 4th QTR 17
Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	Overflow	4		1
East Hickman	3316 Buckhorn Dr	East Hickman	Sustained Rain Event	Overflow	1		
East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	Overflow	9	8	2
Greenbrier 2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	Overflow	4		2
Keeneland	4091 Versailles Rd	Wolf Run	Mechanical Failure	Bypass			1
Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Sustained Rain Event	Overflow	1	2	
Mint Lane	1510 Man O War Blvd	South Elkhorn	Sustained Rain Event	Overflow	1		
Shadeland	857 Glendover Rd	West Hickman	Sustained Rain Event	Overflow	4		
Shandon Park 2	765 Kingston Dr	Cane Run	Sustained Rain Event	Overflow	2	1	
Sharon Village	1985 Haggard Ct	Cane Run	Mechanical Failure	Bypass		1	
Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	Overflow	4	2	2
South Elkhorn	2500 Bowman Mill Rd	South Elkhorn	Sustained Rain Event	Overflow	1		
St. Martins	961 St Martins Ave	Town Branch	Sustained Rain Event	Bypass	1		
Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	Overflow	7	2	2
Thoroughbred Acres	619 Parkside Dr	Cane Run	Power Failure	Bypass	3		
Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	Bypass			4
Town Branch	335 Jimmie Campbell Dr	Town Branch	Lack of Capacity	Bypass	1		
Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	Overflow	2		
Winburn	1985 Russell Cave Rd	Cane Run	Sustained Rain Event	Overflow	2		
Total Number of Overflow(s) / Bypass(es) Per					47	16	14
Total Estimated Overflow / Bypass Vol. (gal.)					21,431,577	8,888,141	4,742,742

Table 2.7
CD Quarterly Report
First Quarter 2018
WWTP Unpermitted Bypasses

1st Quarter 2018 Unpermitted Bypasses WWTP				
Date	Facility Name	Address	Cause	Estimated Overflow Volume (gallons)
2/7/2018	West Hickman WWTP	645 W Hickman Plant Rd	Sustained Rain Event*	84,000
2/16/2018	West Hickman WWTP	645 W Hickman Plant Rd	Sustained Rain Event*	108,000
2/22/2018	West Hickman WWTP	645 W Hickman Plant Rd	Sustained Rain Event**	1,000,500
Total Number of Unpermitted Bypasses				3
Total Estimated Bypass Volume				1,192,500

* The estimated overflow volume is the summation of overflows occurring at the following locations: WH1_1031, WH1_1032, WH1_1033, and SP WH 10.

** The estimated overflow volume is the summation of overflows occurring at the following locations: WH9_6, WH1_1031, WH1_1032, WH1_1033, and SP WH 10.

Section III
CD Quarterly Report
First Quarter 2018
April 27, 2018

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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
First Quarter 2018

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Second Quarter (April 1, 2018 – June 30, 2018)</i>	
Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)			
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 second quarter of 2018:</p> <ul style="list-style-type: none"> • CR-8 Sharon Village PS and FM • CR-11 Cane Run Trunk • CR-12 Lexmark Trunk A • TB-6 UK Trunk C • TB-7 UK Trunk D • TB-11 WWTP-3 Aeration Improvements • TB-11 WWTP-7 Gravity Thickeners • WH-5 Lansdowne South Trunk • WR-2 Wolf Run Main Trunk B • WR-3 Wolf Run Main Trunk C 	<p>The following projects are anticipated to be under construction during the second quarter of 2018:</p> <ul style="list-style-type: none"> • CR-2 Expansion Area 3 Pump Station • CR-3 Expansion Area 3 Force Main • CR-4 Expansion Area 3 Trunk • CR-5 Shandon Park Trunks • CR-6 Winburn Trunk • CR-7 Thoroughbred Acres Trunk • EH-2 East Hickman Pump Station, Phase 1 • EH-3 East Hickman Wet Weather Storage Tank • EH-11 Eliminate East Lake Pump Station • TB-10 Midland Avenue Trunk, Phase 1 (TBC) • TB-11 WWTP-2 Primary Clarifier Equipment • TB-11 WWTP-10 Primary Digesters • WH-1 WH7 Wet Weather Storage Tank • WH-6 West Hickman Main Trunk D • WH-20 West Hickman WWTP Wet Weather Storage Tank • WH-21 WWTP-1 Influent Pump Station (with WH-20) • WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20) • WH-21 WWTP-3 Leaping Weir (with WH-20) • WH-21 WWTP-7 Clarifier Flow Distribution • WH-21 WWTP-13 Waste Sludge Holding • WH-21 WWTP-17 Scum Facility • WH-21 WWTP-18 Non-potable Water System (with WH-20) • WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20)

Table 3.1
CD Quarterly Report
First Quarter 2018

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Second Quarter (April 1, 2018 – June 30, 2018)</i>
Capacity, Management, Operation and Maintenance (CMOM) Programs		
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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ 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 second quarter of 2018.
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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ 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 second quarter of 2018.
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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Issue draft Technical Memorandum for 2017 model recalibration / verification. ○ Continue data collection of temporary rainfall and flow monitoring data to support 2018 model recalibration / verification. ○ Complete independent audit of CAP implementation for compliance with approved System CAP Plan. ○ Continue to make hydraulic model corrections based on completed model profile checks in Wolf Run, Cane Run, North Elkhorn, and South Elkhorn. ○ Continue CAP implementation by reviewing / processing capacity requests for flow increases to the LFUCG sewer system in accordance with the System CAP Plan. ○ Continue to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG. ○ Continue to harvest earned credits from sewer improvements completed by LFUCG in 2Q18. ○ Perform minor enhancements / maintenance of the Credit Tracking Information Management System (CTIMS) software, as needed. ○ 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 second quarter of 2018.

Table 3.1
CD Quarterly Report
First Quarter 2018

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – Second Quarter (April 1, 2018 – June 30, 2018)</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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continue FOG permit application review and permit issuance. ○ Continue routine inspections of Food Service Establishments (FSEs) based on risk ranking. ○ Continue distribution of residential FOG brochures to apartment complexes and residences. ○ Continue work with Lexington-Fayette County Health Department (LFCHD) to incorporate FOG training services in Food Manager Certification Classes. ○ 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 second quarter of 2018.
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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Finalize an internal review of the preventative maintenance (PM) list's protocols and procedures. ○ 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 second quarter of 2018.
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"> • Work anticipated to be completed during the second quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ 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 second quarter of 2018.

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
First Quarter 2018
Stormwater Quality Management Program
Activities Anticipated for the Second Quarter 2018

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 April 12, 2018, and July 12, 2018. The main topic for the April meeting will be a presentation on select completed grant projects. FY 2019 Class A Neighborhood and Class B Education grant applications are due May 11, 2018.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> • LFUCG will update its website about the stormwater program. • The database of people wanting to receive information from DWQ by email will continue to be updated. • LFUCG will continue to develop and publish success stories. • LFUCG Department of Environmental Quality & Public Works staff will attend events to promote the stormwater and water quality program, including the Bark in the Park event at a Lexington Legends baseball game. • LFUCG will continue to air its stormwater videos. • Annual SWQMP training for the UCC’s Environmental Quality and Public Works Committee will be held on April 24th.

5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> • The West Hickman Watershed Council will meet in April. • Volunteer service opportunities will continue to be facilitated by LFUCG during the second quarter, including Reforest The Bluegrass, Household Hazardous Waste Collection, Arbor Day, and River Sweep. • Storm drain stenciling will continue. • The Stormwater Stakeholder Advisory Committee will continue meeting.
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 commence during the second 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. Staff will film a video on maintenance of inlet inserts during the second quarter.</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 second 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.</p>
11.	<p>Water Quality Monitoring – Permit-required monitoring will continue. Phase 1 Field Screening activities will continue in South Elkhorn for the Watershed-Focused Monitoring Program during the second quarter, along with volunteer training and Phase 2 Field Screening implementation.</p>

12.	Reporting and Recordkeeping – Ongoing recordkeeping will continue.
13.	TMDLs and Impaired Waters – LFUCG will continue drafting a TMDL BMP Implementation Strategy that lists the 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
First Quarter 2018
Supplemental and Commonwealth Environmental Projects
Progress Anticipated for the Second Quarter 2018

J-1	Coldstream Park Stream Corridor Restoration and Preservation SEP – The contractor will continue planting trees, shrubs, and plugs during the second quarter and will repair the three crossings of the Legacy Trail. The Greenspace Trust will hold a meeting at the project site in April.
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>Construction of the Wilson Downing Tributary project will commence when public schools begin their summer recess.</p> <p>Investigation, concept design, surveying, and H&H modeling will continue on the Southland stormwater project.</p> <p>Analysis and investigation of Peachtree (#71.5) and Woodhill (#72) will continue.</p> <p>Analysis of intersection flooding at Elizabeth Street and Forest Park will begin, which will re-open project #60 on the priority list.</p>

Section IV
CD Quarterly Report
First Quarter 2018
April 27, 2018

CD Language:

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(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 December 21, 2019, which will be approximately 12 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. LFUCG originally estimated the cost to upgrade the primary digesters to be \$3,525,000; however, the expanded scope of the upgrade, which will incorporate the NFPA requirements, has created a project estimated to cost \$10,500,000.

At this point, the project's design is complete and it has been awarded for construction. The project was awarded on February 8, 2018, with a construction start date of May 1, 2018. Construction is expected to take 600 calendar days. 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 December 21, 2019. No recurring SSOs are anticipated to be impacted by the delay in completion of this project.

Section V
CD Quarterly Report
First Quarter 2018
April 27, 2018

CD Language:

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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:

On January 31, 2018, LFUCG received a stipulated penalty assessment notice for SSOs that occurred between January 1, 2016 and December 31, 2016. KDEP and EPA assessed this penalty in accordance with Section XI of the Consent Decree. LFUCG paid EPA \$14,000 via electronic funds transfer (EFT) on March 16, 2018, and hand delivered payment of \$14,000 via a check dated March 20, 2018, to KDEP on March 23, 2018.

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
First Quarter 2018
Consent Decree Deliverables
Submitted as of April 27, 2018

Project/Program/Report Name	Date Submitted	Current Approval Status
Notification of WWTP Backup Power Installation/Completion	2008-Mar-31	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
SSA Work Plan	2008-Jun-09	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
2010 Annual Report	2011-Jan-28	N/A
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	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
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
SSA Group 3 Report	2012-Apr-12	No formal comments received from EPA/EEC

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Group 2	2012-Apr-13	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
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
Pump Station Operation Plan for Power Outages (third submittal)	2012-Sep-19	EPA/EEC approved – 2013-Oct-3 Certified Letter No. 70101670000225534553

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
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

Project/Program/Report Name	Date Submitted	Current Approval Status
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
Second Quarter 2017 Quarterly Report	2017-Jul-27	N/A
SORP 2017 Update	2017-Oct-12	Under EPA/EEC Review
RMP Project CR-9 Lower Griffin Gate Trunk	2017-Oct-26 via quarterly report	N/A
Third Quarter 2017 Quarterly Report	2017-Oct-26	N/A
RMP Project CR-1 Lower Cane Run Wet Weather Storage Tank	2018-Jan-29 via quarterly report	N/A
RMP Project SE-1 South Elkhorn Pump Station Upsize	2018-Jan-29 via quarterly report	N/A
RMP Project WH-3 West Hickman Main Trunk B	2018-Jan-29 via quarterly report	N/A
RMP Project WH-4 West Hickman Main Trunk C	2018-Jan-29 via quarterly report	N/A
RMP Project WH-21 WWTP-6 Zone 2 Aeration, Phase 2	2018-Jan-29 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
Fourth Quarter 2017 Quarterly Report	2018-Jan-29	N/A
2017 Annual Report	2018-Jan-30	N/A