



October 30, 2019

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. 90-5-1-1-09841

Brad Ammons
Environmental Engineer
Clean Water Enforcement Branch
Municipal and Industrial Enforcement
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

Karl Fingerhood
Environmental Enforcement Section
U.S. Department of Justice
Box 7611 Ben Franklin Station
Washington, D.C. 20044-7611

Diane Schober
Office of Pollution Control
Environmental Compliance & Enforcement Div.
P.O. Box 2261
Jackson, MS 39225-2261

Re: City of Jackson, Mississippi - EPA Consent Decree
Quarterly Report No. 26

Dear Lady and Sirs:

On behalf of the City of Jackson, please find enclosed the Jackson Consent Decree Quarterly Report No. 26. Should you have any questions, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "David Hauser".

David Hauser, P.E.
Program Manager

Enclosure

cc: Honorable Chokwe Antar Lumumba, Mayor, City of Jackson
Timothy C. Howard, City Attorney, City of Jackson
Robert Miller, Director of Public Works, City of Jackson
Terry Williamson, Legal Counsel, City of Jackson
Public Depository, Eudora Welty Public Library



The City of
JACKSON

**QUARTERLY
REPORT NO. 26**

JULY 2019 THROUGH SEPTEMBER 2019

Department of Public Works
Consent Decree Program

City of Jackson
Wastewater Infrastructure Redevelopment
Program

Quarterly Report No. 26
July 2019 through September 2019

October 30, 2019

Prepared for:

City of Jackson
Department of Public Works
P.O. Box 17
Jackson, MS 39205-0017

Prepared by:

Burns & McDonnell
9400 Ward Parkway
Kansas City, MO 64114


City of Jackson, Mississippi

Quarterly Report No. 26

July 2019 through September 2019

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.





Chokwe Antar Lumumba *for*
Mayor

10/28/2019

Date



Robert K. Miller, Director
Department of Public Works

10/28/2019

Date

Quarterly Report No. 26

July 2019 through September 2019

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1.0 Introduction

1.1 Consent Decree Overview

On March 1, 2013, the U.S. District Court for the Southern District of Mississippi entered a Consent Decree (CD) agreed to by the City of Jackson, Mississippi (City), U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ,) regarding the City's wastewater collection and treatment system.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements can be found in Section IX ¶ 57 of the Consent Decree. A copy of the Consent Decree, as well as previous reports, can be found on the City of Jackson website, <http://www.jacksonms.gov/>, under the "Wastewater Consent Decree Public Documents" link in the Document Library or <http://www.cojcd.org>.

1.2 Authority to Promulgate

Burns & McDonnell Engineering Company, Inc. was retained to assist the City in addressing the requirements of the Consent Decree under a Program Management contract. Accordingly, the Program Management team compiled this Quarterly Report from information provided by the City and its contractors to fulfill the requirements of Section IX ¶ 57 (a) set forth in the CD.

The listing and graphical summaries of the SSOs and prohibited bypasses for July 2019 – September 2019 are presented in Section 2 of this report.

2.0 Summary of SSOs and Prohibited Bypasses

SSOs are divided into three elements of the wastewater system: collection system, pump stations, and West Bank Interceptor. Prohibited bypasses at the Savanna Street Wastewater Treatment Facility (SSWWTF), in periods when they occur, are listed in Section 2.4 of this report.

2.1 Collection System SSOs

Table 1 lists SSOs in the collection system for July through September 2019. Each day of a multiple day event is considered a separate SSO, in accordance with the Consent Decree.

Figure 1 shows SSO events by month as a result of the following reported causes:

Grease Roots Solids Collapsed Pipe PS Failure Excessive flow Other

Some SSO events had multiple causes. In these instances, each cause was assigned a fractional value, adding up to one (1) cause for each event.

Figure 2 shows percentages of collection system SSOs for the quarter by cause.

Figure 3 shows total volume of SSOs for each month.

Figure 4 shows total duration of SSOs for each month.

Eighteen (18) events occurred at seventeen (17) locations on private property reported this period. The cause of these events was determined to be problems on the private laterals and the crews notified owners. These events have been reported to MDEQ.

Eighteen (18) events occurred at cleanouts on private property this period. All events were caused by problems in the City's sewer system and are included in this report.

There were fourteen (14) events for which the duration was not determined because the cause, such as collapsed pipe, has not been resolved or no SSO was ongoing but there was evidence of a previous overflow. "Previous SSO Follow up" is an SSO for which the cause, i.e. collapsed pipe, excessive flow, etc., was not resolved at the time of the first report and a crew was following up to see if an SSO was occurring until a repair could be made. Once the cause has been resolved, the total durations can be determined and reported. Volumes reported for these events are determined from periodic follow up inspections until the cause has been resolved.

There were eleven (11) for which the cause has remained undetermined and will be further investigated.

There were two (2) locations where multiple reports were filed with MDEQ for the same SSO. These are noted in Table 1 below.

Table 1
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
7/2/2019	12:55 PM	4785 I 55 Frontage Rd	Ground Surface (defective pipe underground)	Ongoing Unresolved	3,000	No	NA	0.00	Grease / Solids
7/2/2019	4:00 PM	5745 Gladewood Dr	Cleanout	0.92	100	No	NA	0.00	Grease / Solids
7/2/2019	2:05 PM	5255 Woodway Dr	Cleanout	1.75	100	No	NA	0.00	Grease / Solids
7/3/2019	1:35 PM	2308 Wild Valley Dr	Not Reported	0.33	Previous SSO	No	NA	0.00	Unknown
7/4/2019	9:25 AM	4826 Windemere Ter	Cleanout	1.25	100	No	NA	0.00	Grease / Solids
7/4/2019	11:25 AM	188 John St	Ground Surface (defective pipe underground)	0.33	50	No	NA	0.00	Grease / Solids
7/5/2019	1:00 PM	1028 Woody Dr	Cleanout	0.92	75	No	NA	0.00	Grease / Solids
7/6/2019	8:40 AM	1726 Northwood Cir	Manhole	1.67	100	No	NA	0.00	Collapsed Pipe / Grease / Solids
7/7/2019	5:41 PM	1052 Cooper Rd	Ground Surface (defective pipe underground)	1.57	75	No	NA	0.16	Collapsed Pipe
7/7/2019	4:36 PM	1915 Corley Ave	Cleanout	0.73	50	No	NA	0.03	Collapsed Pipe / Grease
7/8/2019	4:10 PM	980 S State St	Cleanout	Ongoing Unresolved	2,400	No	NA	0.00	Grease / Solids
7/8/2019	12:36 PM	4432 Wildwood Dr	Cleanout	839:40	50	No	NA	0.00	Solids
7/9/2019	4:47 PM	569 N Park Lane	Manhole	1.22	60	Yes	Eubanks	0.00	Excessive Flow
7/9/2019	9:00 AM	3203 Bienville Dr	Other	Ongoing Unresolved	6,900	Yes	Cany	0.00	Unknown
7/9/2019	11:00AM	Linde Dr / Terry Rd	Bypass Pump	Previous SSO Follow up	0	No	NA	0.00	Collapsed Pipe
7/11/2019	2:15 PM	5371 Queen Christina Ln	Manhole	1.75	100	No	NA	0.63	Grease / Solids
7/13/2019	2:25 PM	140 Ramada Cir	Other	0.83	100	No	NA	0.02	Grease / Solids

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
7/13/2019	5:30 PM	5371 Queen Christina Ln	Manhole	2.42	100	No	NA	0.35	Grease / Solids
7/13/2019	3:40 PM	304 M th Vernon Ave	Other	0.67	Previous SSO	No	NA	0.33	Unknown-Previous SSO
7/15/2019	8:49 PM	1052 Cooper Rd	Cleanout	0.83	60	No	NA	1.22	Collapsed Pipe
7/15/2019	2:50 PM	1052 Cooper Rd	Cleanout	Ongoing Unresolved	8,500	Yes	Cany	1.22	Excessive Flow / Water Main Break
7/16/2019	2:00 PM	1052 Cooper Rd	Cleanout	1.58	100	No	NA	0.08	Grease / Solids
7/17/2019	12:55 PM	2933 Greenview Dr	Other	1.33	75	No	NA	0.00	Grease / Solids
7/19/2019	9:50 AM	2033 E Northside Dr	Other	2.67	100	No	NA	0.00	Grease / Solids
7/20/2019	4:16 PM	844 Lawrence Road	Cleanout	Ongoing Unresolved	2,400	Yes	Hanging Moss	0.84	Excessive Flow
7/20/2019	4:30 PM	N State St / Iroquois Ave	Other	Ongoing Unresolved	600	Yes	Eubanks	1.41	Excessive Flow
7/24/2019	11:15 AM	Eddy St	Manhole	1.00	50	Yes	Cany	0.00	Grease
7/25/2019	12:15 PM	336 E Bell St	Manhole	1.08	250	Yes	Town	0.00	Grease
7/25/2019	10:29 PM	300 Wesley Ae	Manhole	1.15	50	Yes	Town	0.00	Grease
7/25/2019	7:28 PM	4251 Sagamore St	Manhole	0.87	60	Yes	Lynch	0.00	Grease
7/26/2019	8:00 AM	471 Roland St	Manhole	0.83	50	No	NA	0.00	Grease / Solids
7/26/2019	12:35 PM	2308 Wild Valley Dr	Ditch	1.83	100	Yes	Eastover	0.00	Grease / Solids
7/27/2019	4:05 PM	324 Rollingwood Dr	Manhole	3.50	75	No	NA	0.00	Grease / Solids
7/27/2019	8:20 AM	6030 I 55 Frontage Rd	Manhole	2.50	100	No	NA	0.00	Grease / Solids
7/29/2019	6:59 PM	E Northside Dr / Churchhill Dr	Manhole	0.95	50	Yes	Eubanks	0.04	Grease

Table 1 cont.

City of Jackson, Mississippi
 Quarterly Report No. 26 – July 2019 through September 2019
 Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
7/30/2019	10:55 AM	4090 Pine Hill Dr	Manhole	Ongoing Unresolved	200	No	NA	0.72	Grease / Solids
7/30/2019	9:50 AM	577 N Park Ln	Manhole	1.00	100	No	NA	0.15	Grease / Solids
7/31/2019	12:05 PM	5428 Queen Mary Ln	Ground Surface (defective pipe underground)	0.33	50	No	NA	0.29	Grease / Solids
7/31/2019	2:45 PM	2259 N Mill St	Manhole	1.42	100	No	NA	0.32	Grease / Solids
7/31/2019	8:10 PM	262 Queen Anne Ln	Manhole	0.58	100	No	NA	0.22	Grease / Solids
8/1/2019	1:30 PM	333 Wesley Ave	Ground Surface (defective pipe underground)	0.75	100	No	NA	No Data	Grease / Solids
8/1/2019	2:35 PM	161 Sewanee Dr	Other	6.17	100	No	NA	0.00	Undetermined
8/2/2019	4:20 PM	4094 Pine Hill Drive	Manhole	Ongoing Unresolved	3,000	No	NA	No Data	Grease / Solids
8/2/2019	1:15 PM	362 Old Spanish Trl	Ground Surface (defective pipe underground)	Ongoing Unresolved	3,000	No	NA	0.13	Collapsed Pipe / Grease / Solids
8/2/2019	5:15 PM	3442 Bailey Ave	Manhole	1.17	75	No	NA	0.00	Grease / Solids
8/3/2019	7:00 PM	2563 Sheppard Dr	Cleanout	0.58	75	No	NA	0.00	Grease / Solids
8/3/2019	4:35 PM	1902 Wingfield Cir	Other	0.75	100	No	NA	0.00	Grease / Solids
8/4/2019	10:27 AM	1286 E Northside Dr	Cleanout	1.30	30	Yes	Eastover	No Data	Grease
8/5/2019	12:34 PM	5112 Queen Eleanor Lane	Manhole	0.85	60	Yes	Lynch	0.00	Grease
8/7/2019	9:10 AM	Raymond Rd / Scanlon Dr	Manhole	1.50	50	No	NA	1.17	Grease / Solids
8/7/2019	7:16 PM	50 Northtown Dr	Manhole	0.90	50	Yes	Purple	0.04	Grease
8/7/2019	4:45 PM	1851 Belvedere Dr	Cleanout	0.97	50	No	NA	1.17	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
8/9/2019	9:25 PM	219 Livingston St	Ground Surface (defective pipe underground)	Ongoing Unresolved	1,150	No	NA	No Data	Undetermined
8/11/2019	11:06 AM	5436 Clinton Blvd	Ground Surface (defective pipe underground)	1.47	60	Yes	Lynch	0.00	Grease
8/13/2019	5:54 PM	4631 Church Hill Drive	Cleanout	1.65	20	Yes	Eubanks	No Data	Grease
8/13/2019	9:06 PM	2445 Manship St	Ground Surface (defective pipe underground)	1.22	50	Yes	Town	No Data	Excessive Flow
8/13/2019	3:55 PM	327 Mount Vernon Ave	Other	Ongoing Unresolved	1,425	No	NA	0.33	Undetermined
8/14/2019	5:10 PM	232 Wesley Ave	Manhole	0.58	100	No	NA	No Data	Grease / Solids
8/16/2019	9:15 AM	841 Lawrence Road	Other	1.17	50	No	NA	0.00	Grease / Solids
8/17/2019	8:35 AM	4080 Pine Hill Drive	Ground Surface (defective pipe underground)	Ongoing Unresolved	1,500	No	NA	0.00	Grease / Solids
8/19/2019	10:45 AM	4091 Pine Hill Drive	Ground Surface (defective pipe underground)	0.97	30	Yes	Eubanks	0.45	Collapsed Pipe
8/20/2019	10:37 PM	Raymond Rd / Scanlon Dr	Manhole	0.55	50	Yes	Hardy	0.00	Grease
8/20/2019	2:20 PM	2259 N Mill St	Manhole	1.33	100	No	NA	0.00	Grease / Solids
8/21/2019	12:55 PM	3630 Rainey Road	Manhole	1.33	100	No	NA	0.34	Grease / Solids
8/28/2019	11:20 AM	334 E Bell St	Manhole	Ongoing Unresolved	400	No	NA	0.00	Grease / Solids
8/15/2019	4:53 PM	1915 Corley Ave	Cleanout	0.82	50	No	NA	0.00	Grease
8/17/2019	10:25 AM	1516 St Charles Street	Cleanout	0.50	75	No	NA	0.00	Grease / Solids
8/24/2019	4:51 PM	334 E Bell ST	Manhole	2.40	500	Yes	Town	0.01	Collapsed Pipe / Grease / Solids
8/26/2019	12:30 PM	Springfield Cir / Colebrook Ave	Manhole	0.75	Not Reported	Yes	Lynch	2.16	Excessive Flow
8/30/2019	1:40 PM	1319 N Lamar	Manhole	2.50	100	No	NA	0.00	Grease / Roots / Solids

Table 1 cont.

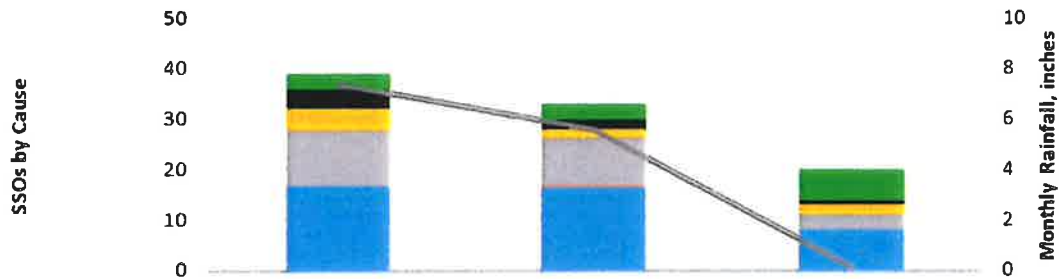
City of Jackson, Mississippi
 Quarterly Report No. 26 – July 2019 through September 2019
 Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
8/31/2019	8:40 AM	211 Shiloh Dr	Ditch	1.67	100	No	NA	0.00	Grease / Solids
8/31/2019	6:45 PM	4637 Churchill Dr	Manhole	1.00	100	No	NA	0.00	Grease / Solids
8/31/2019	8:00 PM	3154 Bienville Dr	Same location as next report below			Yes	Cany	0.00	Undetermined
8/31/2019	8:00 AM	2326 Magnolia Lane Rd / Timber Crossing Rd	Manhole	101.75	1,500	Yes	Cany	0.00	Grease / Solids
9/4/2019	8:21 PM	4048 Siwell Road	Ground Surface (defective pipe underground)	1.00	60	Yes	Big Creek	0.00	Undetermined
9/10/2019	4:05 PM	1112 Pecan Blvd	Ground Surface (defective pipe underground)	2.15	30	Yes	Lynch	0.00	Grease / Solids
9/14/2019	12:00 PM	188 John St	Ground Surface (defective pipe underground)	Previous SSO	1,700	No	NA	0.00	Undetermined
9/14/2019	9:45 AM	42 Robinw ood Pl	Same location as next report below			No	NA	0.00	Grease / Solids
9/14/2019	9:45 AM	50 Robinw ood Pl	Manhole	1.42	75	No	NA	0.00	Grease / Solids
9/15/2019	12:59 PM	219 W Northside Dr	Manhole	0.68	50	Yes	Eubanks	0.00	Undetermined
9/15/2019	10:42 AM	Forest Ave / Watkins Dr	Manhole	0.98	50	Yes	Eubanks	0.00	Grease
9/16/2019	10:15 AM	5359 Wynydyke Road	Manhole	0.92	100	No	NA	0.00	Grease / Solids
9/17/2019	8:25 PM	Sycamore Dr / Tw in Oaks Dr	Manhole	2.25	60	Yes	Trahon	0.00	Grease
9/17/2019	6:01 PM	236 Melbourne Road	Cleanout	1.48	20	No	NA	0.00	Excessive Flow
9/24/2019	7:06 PM	Forest Ave / Watkins Dr	Manhole	1.87	350	Yes	Eubanks	0.00	Grease
9/25/2019	1:00 PM	2027 Camilla Dr	Other	1.00	75	No	NA	0.00	Previous SSO
9/25/2019	5:50 PM	Raymond Road / Scanlon Dr	Manhole	1.03	50	Yes	Hardy	0.00	Grease
9/26/2019	11:00 AM	4619 Churchill Dr	Other	Ongoing Unresolved	500	No	NA	0.00	Collapsed Pipe

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
9/28/2019	8:40 AM	Poole St / Terry Rd	Manhole	1.33	75	No	NA	0.00	Grease / Solids
9/28/2019	11:00 AM	Raymond Rd / Scanlon Dr	Manhole	0.75	50	No	NA	0.00	Grease / Solids
9/28/2019	3:20 PM	311 Knob Hill Dr	Other	0.25	75	No	NA	0.00	Previous SSO
9/29/2019	10:58 AM	Hanging Moss Road / Hillside Dr	Ground Surface (defective pipe underground)	0.92	60	Yes	Hanging Moss	0.00	Undetermined
9/29/2019	9:40 AM	311 Knob Hill Dr	Other	0.92	60	Yes	Lynch	0.00	Grease
9/23/2019	2:06 PM	3280 Forest Hill Road	Ground Surface (defective pipe underground)	2.30	80	No	NA	0.00	Collapsed Pipe

Figure 1: Collection System SSOs by Cause



	Jul-19	Aug-19	Sep-19
Other	3.0	3.0	6.0
Excessive Flow	4.0	2.0	1.0
Collapsed Pipe	3.8	1.7	2.0
Solids	11.3	9.5	3.0
Roots	0.0	0.3	0.0
Grease	16.8	16.5	8.0
Rainfall	7.40	5.58	0.14

Figure 2: Percentage of Collection System SSOs by Cause

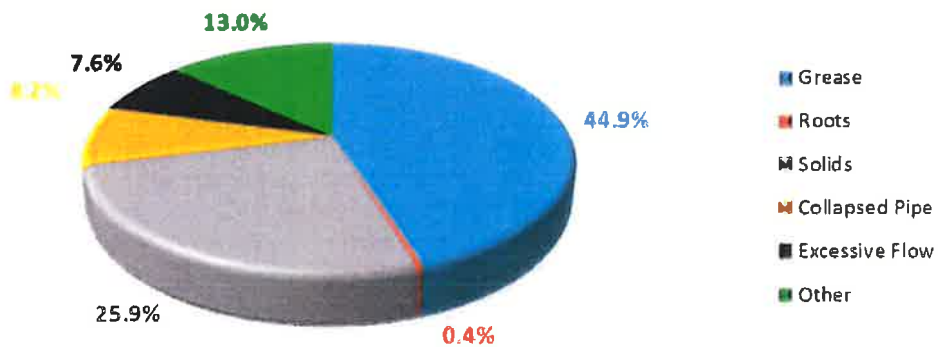


Figure 3: Collection System SSO Volume

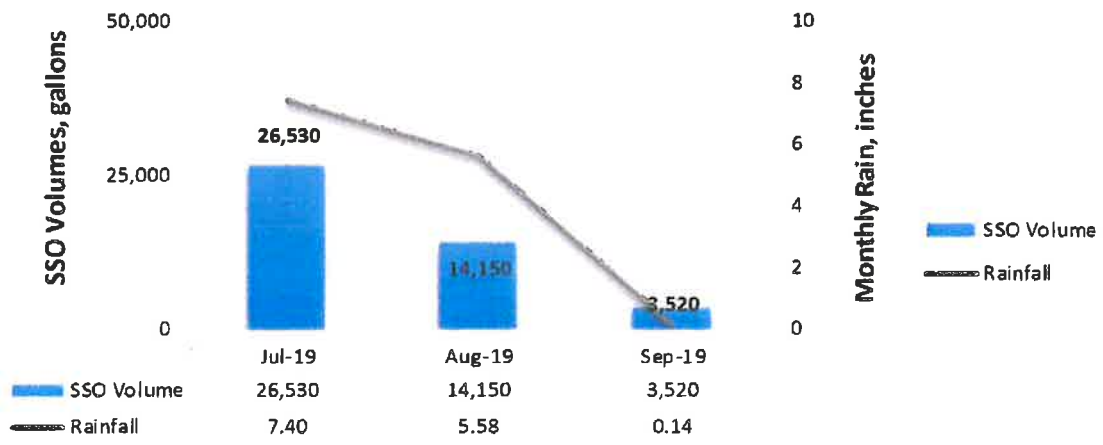
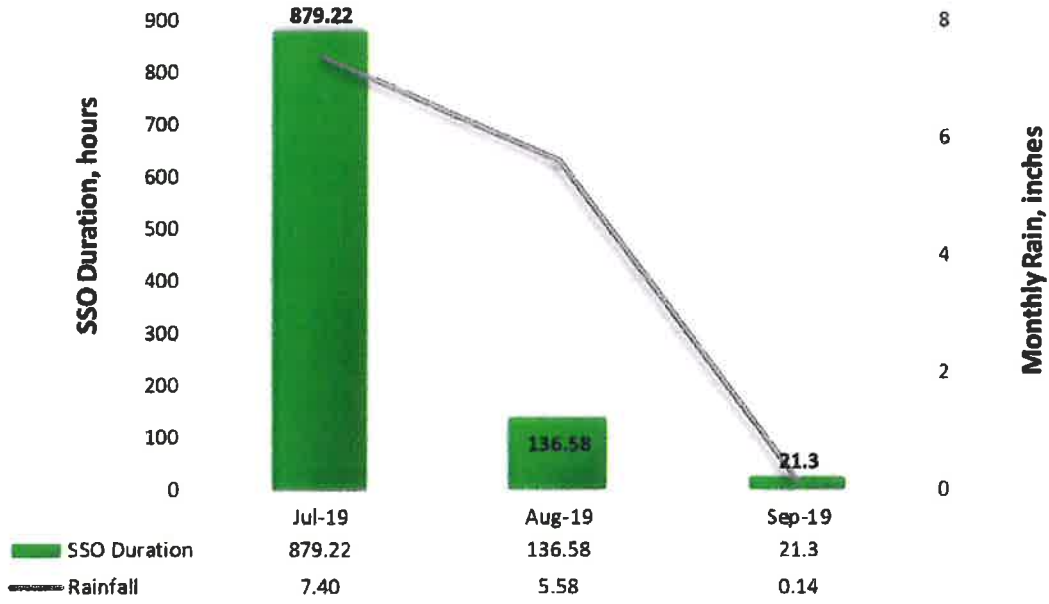


Figure 4: Collection System SSO Duration



2.2 Pump Station SSOs

Table 2 lists pump station SSOs for July through September 2019.

Figures 5 through 7 are not used in this report because no SSOs were reported at pump stations this quarter.

Table 2
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Pump Station SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
NO PUMP STATION SSOS REPORTED - July 2019									
NO PUMP STATION SSOS REPORTED - August 2019									
NO PUMP STATION SSOS REPORTED - September 2019									

2.3 West Bank Interceptor SSOs

West Bank Interceptor SSOs at the Jefferson Street location are generally caused when flow to the Savanna WWTP exceeds the facility's pumping capacity. This creates the need to restrict influent flow to the facility in order to protect the facility from flooding and catastrophic damage. Insufficient pumping capacity can be caused by equipment failures at the facility, excessive flow caused by rain events, high river levels or a combination of all the above.

Table 3 lists West Bank Interceptor SSOs for July through September 2019.

Figure 9 shows West Bank Interceptor SSO events by month by reported cause, as listed in Table 3, as well as monthly rainfall.

Figure 10 shows percentage of West Bank Interceptor SSOs by cause for the quarter.

Figure 11 shows total volume of West Bank Interceptor SSOs for each month, as well as monthly rainfall.

Figure 12 shows total duration of West Bank Interceptor SSOs for each month, as well as rainfall.

There was one (1) SSO event on the West Bank Interceptor in this reporting period. The event was caused by excessive flow due to rainfall. The Jackson area received 2.91" of rainfall on August 26, 2019.

Table 3
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
West Bank Interceptor SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
NO WEST BANK INTERCEPTOR SSOs REPORTED - July 2019									
8/26/2019	9:37 AM	408 S Jefferson St	Manhole	3.38	350,000	Yes	Pearl	2.91	Excessive flow
NO WEST BANK INTERCEPTOR SSOs REPORTED - September 2019									

Figure 9: West Bank Interceptor SSOs by Cause

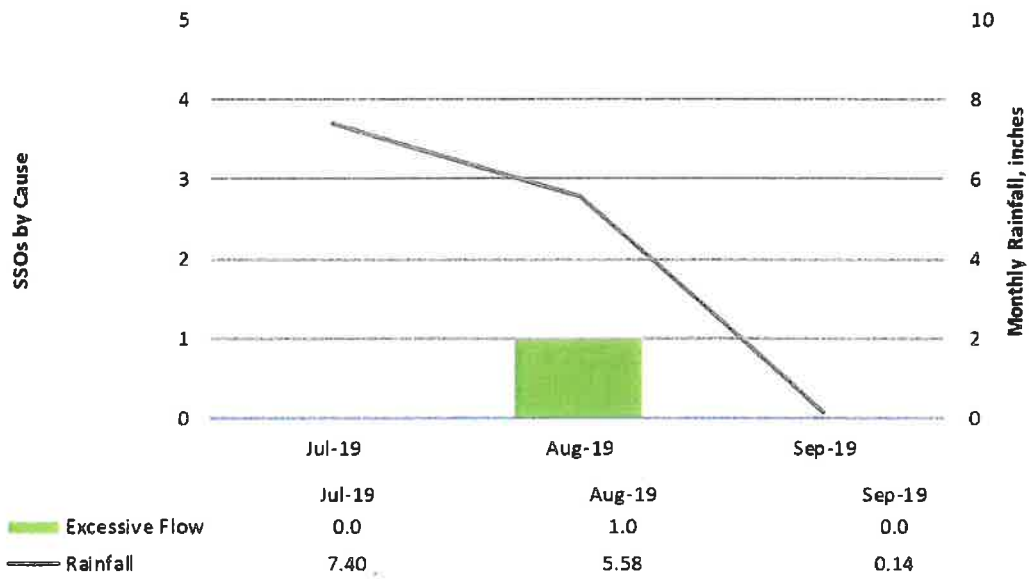


Figure 10: Percentage of West Bank Interceptor SSOs by Cause

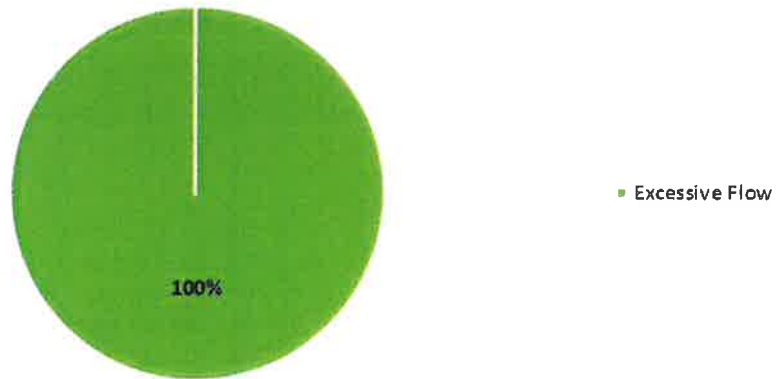


Figure 11: West Bank Interceptor SSO Volume

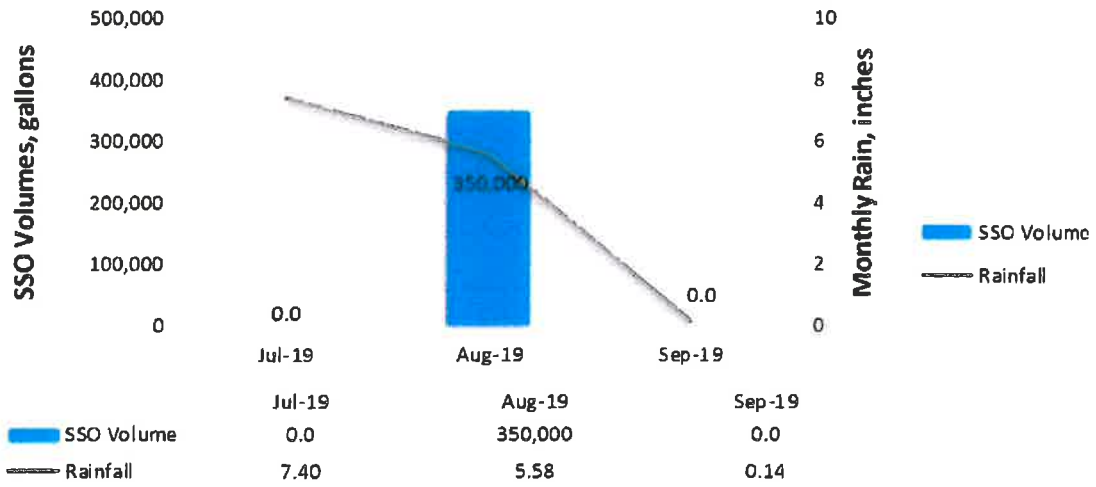
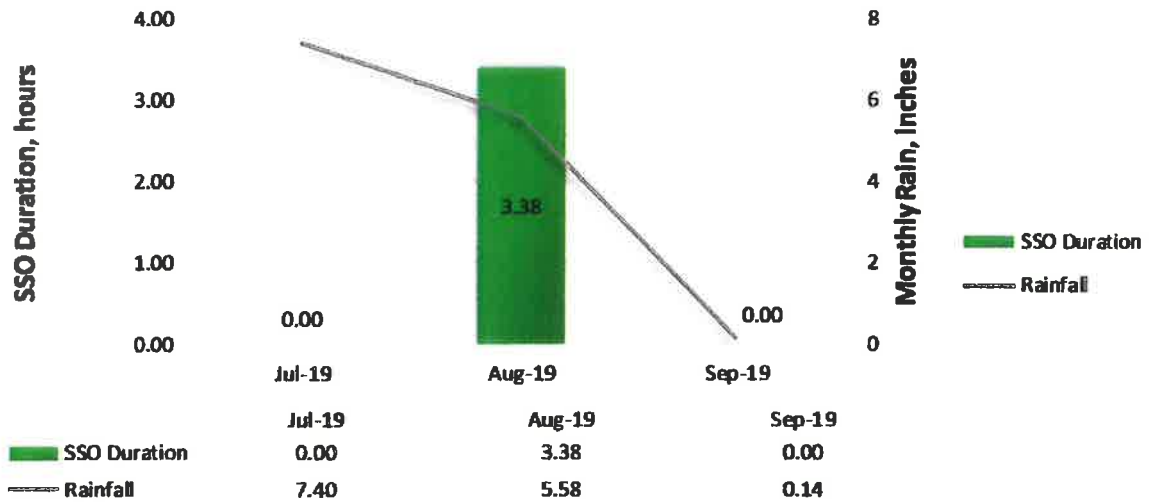


Figure 12: West Bank Interceptor SSO Duration



2.4 Prohibited Bypasses

This quarterly report does not include a graphical representation of the number of bypasses for each cause, since most bypasses at the Savanna Street WWTP are caused by excessive flow or specific causes explained below.

Table 4 lists prohibited bypasses at the wastewater treatment plant for the quarter. Unlike SSOs, each event is considered as one bypass from the day it begins to the day it ends. The event is reported in the month the bypass ends.

Figure 13 shows total volume of prohibited bypasses for each month plotted logarithmically, along with monthly rainfall.

Figure 14 shows volume and river stages.

Figures 15 and 16 plot total duration for the month, first compared to rainfall and then compared to river stages. River stages are shown as monthly average daily maximum river stage and as the monthly maximum day river stage. Note that duration of prohibited bypasses is plotted in days.

There were two bypass events this reporting period on July 15, 2019 and August 26, 2019. Both events were reported to MDEQ as being caused by excessive flow due to rainfall. The duration of these events were 4 days and 5 days respectively. The Jackson area received a total of 3.36" of rain from July 13, 2019 through July 16, 2019 and a total of 3.17" from August 21, 2019 through August 27, 2019. Rainfall totals for the months of July and August exceeded normal rainfall by 63% and 39% respectively.

All bypassed volume is chlorinated, de-chlorinated and required samples taken are prior to blending with the mechanical plant effluent and subsequently discharged to the Pearl River.

Table 4
City of Jackson, Mississippi
Quarterly Report No. 26 – July 2019 through September 2019
Prohibited Bypasses

Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
07/15/19	12:00 PM	3810 I 55 S	WWTP	4	106.58	YES	Pearl	1.43	Excessive flow
08/26/19	2:52 PM	3810 I 55 S	WWTP	5	135.95	YES	Pearl	2.91	Excessive flow

Figure 13: Prohibited Bypass Volume vs. Rainfall

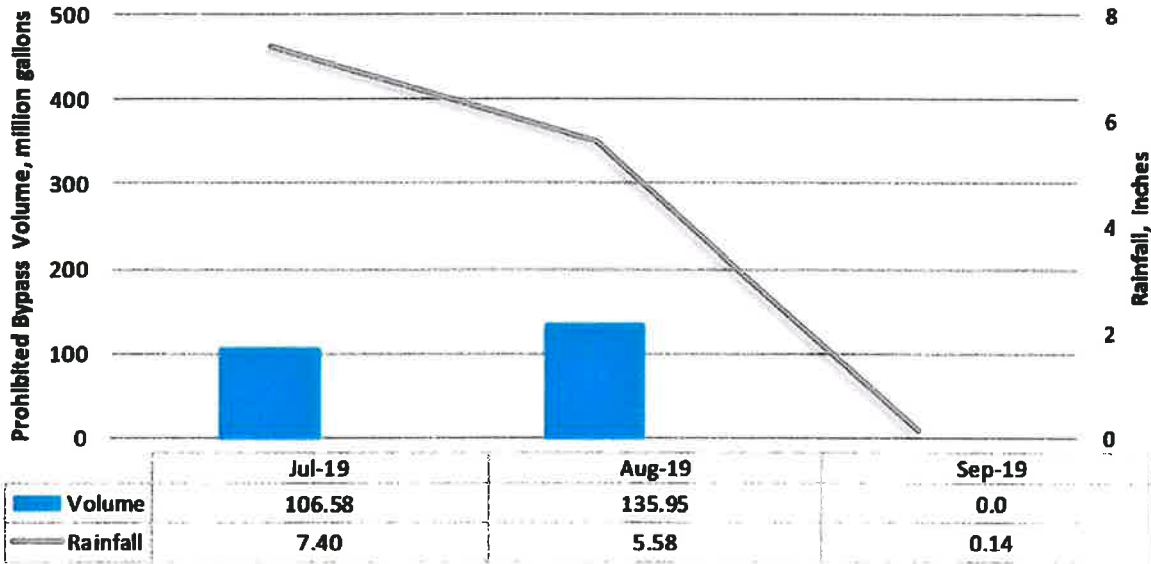


Figure 14: Prohibited Bypass Volume vs. River Stage

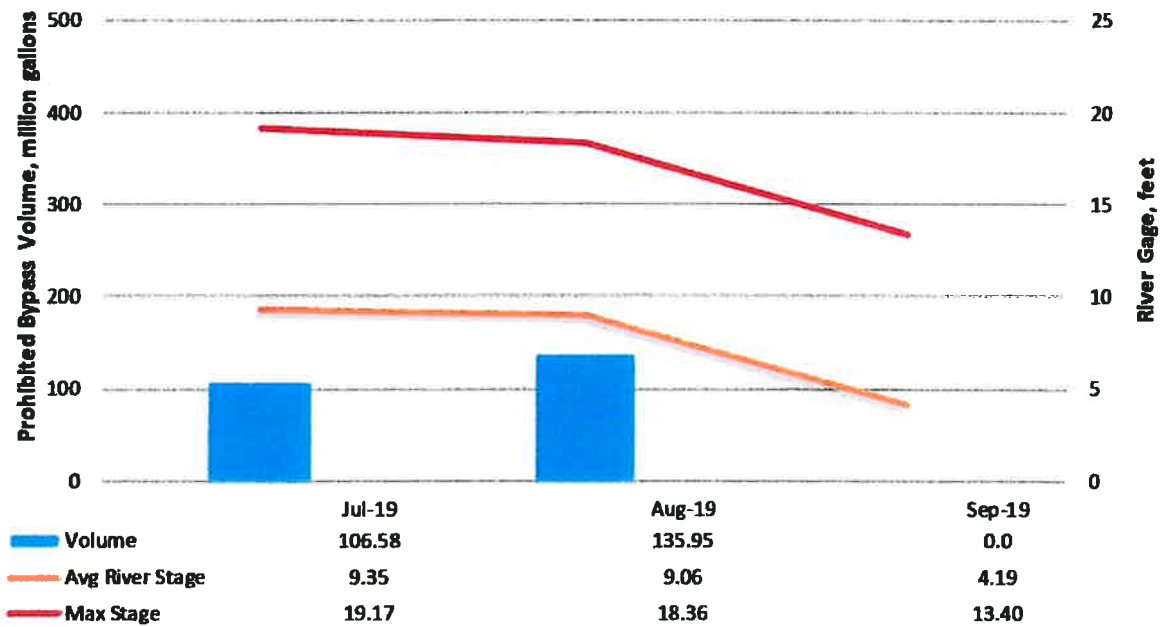


Figure 15: Prohibited Bypasses Duration vs. Rainfall

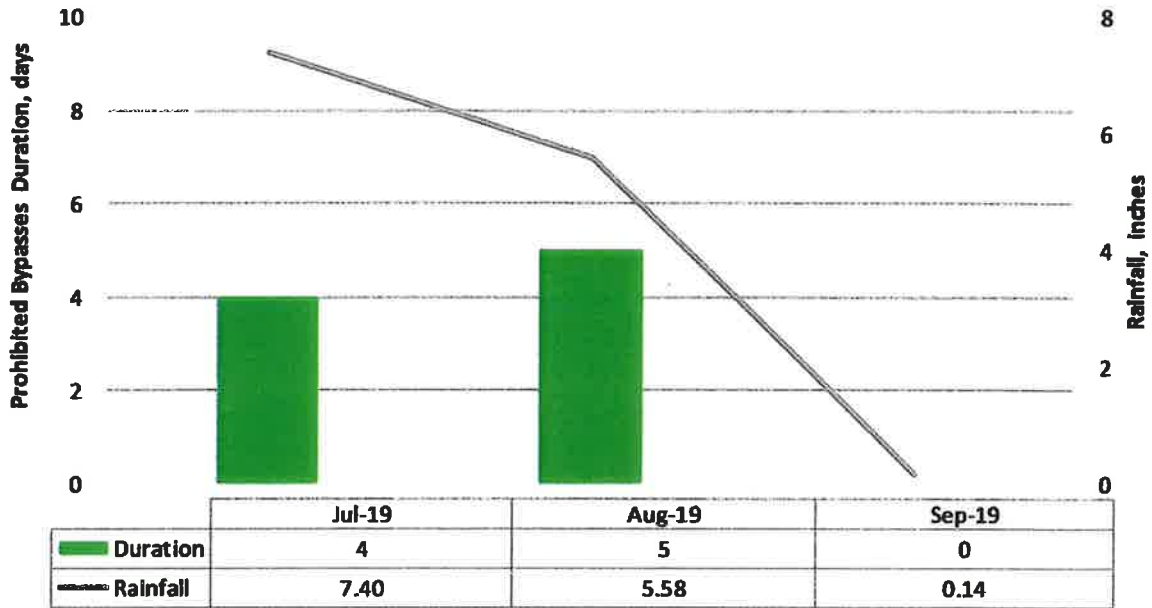


Figure 16: Prohibited Bypasses Duration vs. River Stage

