

Office of the Mayor
Tony T. Yarber, Mayor



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May 8, 2014

Chief, Environmental Enforcement Section
Environment and National Resources Division
U. S. Department of Justice
Box 7611 Ben Franklin Station
Washington, DC 20044-7611
Re: DOJ No. 90-5-1-1-09841

Brad Ammons
Environmental Engineer
Clean Water Enforcement Branch
Municipal & Industrial Enforcement Section
U. S. EPA Region 4
61 Forsyth St., S. W.
Atlanta, GA 30303

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

RE: City of Jackson
EPA Consent Decree
1st Annual Report, March 2013 through February 2014
4th Quarterly Report, January – March 2014


Dear Gentlemen:

Enclosed, please find the First Annual Report for the period of March 2013 through February 2014. The report was developed and submitted by the City of Jackson in accordance with the EPA Consent Decree dated March 1, 2013.

Also enclosed is the Fourth Quarterly Report for the period of January through March 2014. This report was developed and submitted by the City of Jackson in accordance with the EPA Consent Decree dated March 1, 2013. In the May 31st letter, you agreed to change the date for the first quarterly report to July 31st.

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 gathered and evaluated the information submitted. Based on my inquiry of the 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.

Sincerely,



Tony T. Yarber, Mayor
City of Jackson Mississippi

Cc: Les Herrington, P.E., Mississippi Department of Environmental Quality
Gus McCoy, Chief Administrative Officer, City of Jackson
Monica Joiner, City Attorney, City of Jackson
Charles Williams, PhD., P. E. Interim Director, Department of Public Works, City of Jackson
Mary Carter, Deputy Director of Public Works, City of Jackson
Terry Williamson, Legal Counsel, City of Jackson
Public Depository, Eudora Welty Public Library



ANNUAL REPORT NO. 1

MARCH 2013 THROUGH FEBRUARY 2014
Department of Public Works
Wastewater Infrastructure Redevelopment Program



APRIL 30, 2014

City of Jackson
Wastewater Infrastructure Redevelopment
Program

Annual Report No. 1
March 2013 through February 2014

April 30, 2014

Prepared for:

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

Prepared by:

WEI/AJA LLC
143A LeFleurs Square
Jackson, MS 39211

City of Jackson, Mississippi

Annual Report No. 1


March 2013 through February 2014

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.




Tony T. Yarber
Mayor


Date


Charles Williams, Jr., Ph.D., P.E., Interim Director
Department of Public Works


Date

Annual Report No. 1

March 2013 through February 2014

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1.0 Introduction

1.1 Consent Decree Overview

On March 1, 2013, the Consent Decree (CD) agreed to by the City of Jackson, Mississippi, U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ) regarding the wastewater collection and treatment system was entered by the U.S. Court, Southern District of Mississippi. Over a 17½ year timeline, the Consent Decree requires the City to:

- Develop, submit, finalize, and implement plans for the continued improvement of the Wastewater Collection and Transportation System (WCTS) and Wastewater Treatment Plants (WWTPs);
- Eliminate Sanitary Sewer Overflows (SSOs), effluent limit violations (including any violations of the new effluent limits for nutrients), and reporting violations, and
- Minimize Prohibited Bypasses.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements of the CD are described below.

1.2 Authority to Promulgate

The City of Jackson Public Works Department (JPWD) established the Wastewater Infrastructure Redevelopment Program in 2004. The Waggoner Engineering/AJA Management and Technical Services joint venture company, WEI/AJA LLC, was retained to assist the City in addressing the requirements of the Consent Decree under the existing Program Management contract for the Wastewater Infrastructure Redevelopment Program. 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 (b) set forth in the CD.

1.3 Consent Decree Requirements for Annual Report

As stated in the Consent Decree Section IX ¶ 57 (b), the Quarterly Report shall be submitted beginning sixty (60) Days after the first full twelve (12)-month period following the Date of Entry of the CD, and sixty (60) Days after each subsequent twelve (12)-month period until termination of the Consent Decree, and shall include, at a minimum:

(i) A summary of the CMOM Programs implemented or modified pursuant to this Consent Decree, including a comparison of actual performance with any performance measures that have been established.

(ii) A trends analysis of the number, volume, duration, and cause of the City's SSOs for a twenty-four (24)-month period updated to reflect the SSOs that occurred during the previous twelve (12)-month period except that the first Annual Report shall only include the first twelve (12) months.

(iii) A trends analysis of the number, volume, duration, and cause of all Prohibited Bypasses for a twenty-four (24)-month period updated to reflect the Prohibited Bypasses that occurred during the previous twelve (12)-month period except that the first Annual Report shall only include the first twelve (12) months.

2.0 Summary of CMOM Programs

The Consent Decree Section VI, D ¶ 31 through 43 requires the City to implement various capacity, management, operations, and maintenance (CMOM) programs in order to properly manage, operate and maintain sanitary wastewater collection, transmission and treatment systems, investigate capacity-constrained areas of these systems, and respond to SSO events.

During the last 12 months, the City has continued its implementation of the Sewer Overflow Response Plan. It has also submitted to EPA, for that agency's approval, a Training Program, a Pump Station Operations Program, and a Pump Station Preventive Maintenance Program.

2.1 Sewer Overflow Response Plan (SORP)

The City submitted to MDEQ a SORP on September 28, 2011, pursuant to the MDEQ Agreed Order I. MDEQ and EPA approved the SORP on October 10, 2011. A copy of the SORP is Appendix E to the Consent Decree. The City shall continue to implement the SORP as an enforceable obligation under the Consent Decree.

The SORP included an implementation plan with key dates based on approval of the program by MDEQ. Elements of the implementation plan and status of each are as follows:

- 1. Personnel** – Advertise all vacant positions within the Sewer Division – 31 Positions. Positions will be advertised within 60 days of SORP adoption.

Status: All vacant positions were advertised. As of February 2014, there were 25 vacant positions of 82 budgeted positions in the Sewer Maintenance Section of the Utilities Division. Of these 25 positions, 18 have been advertised or in the administrative process of being filled. These vacancies are:

<u>Position</u>	<u>Vacancies</u>	<u>Action Pending</u>
Crew Leader	3	3
Sewer Systems Supervisor	1	1
Heavy Equipment Operator	7	3
Equipment Operator	3	0
Maintenance Worker	11	11

- 2. Training** – COJ and its subcontractors will begin preparing training materials to begin SORP Training Classes for all relevant personnel within 60 days.

Status: Training materials were prepared in October 2010. Three-hour training sessions have been given to all personnel involved in sewer overflow response in December 2010 and May 2013.

3. **PS Evaluation** – COJ will begin an inspection of each pump station to determine the capacity and needed improvements. The storage capacity of each station will be determined within 180 days.

Status: To address the response time concern referenced by the storage capacity item, the City has installed level monitors on all collection system pump stations. United Water Services Mississippi, LLC, (UWS-MS) remotely monitors the level monitors from the Savanna WWTP and dispatches crews as required.

4. **Post Rainfall Inspection** – COJ will begin inspecting known and potential overflow locations after each rainfall immediately upon adoption of the SORP. Until all staffing needs are met, COJ will use subcontractors to complete these inspections.

Status: The Utilities Division has designated one staff member in each response zone to monitor known and potential overflows after significant rainfall events. The City's contractor, WEI/AJA, LLC, updates a route map of inspection locations quarterly. Level monitors have been installed on all collection system pump stations. UWS-MS remotely monitors the level monitors from the Savanna WWTP and dispatches crews as required.

5. **Recordkeeping and Reporting** – COJ will immediately begin sending all SSO reports to subcontractor for entry into a MS Office database. This system will be utilized until the new data management system is online.

Status: The City's contractor, WEI/AJA, LLC, maintains a database of overflows in MS Access format. The Public Works Department notifies MDEQ within 24 hours of occurrence and follows up with an SSO report by email to MDEQ and the contractor within one week.

6. **Response Zones** – Within 24 months, the COJ will establish response teams within each police precinct to respond to any SSO's. In the interim, existing staff and subcontractors will respond to all SSO's.

Status: The Department of Public Works has reorganized the Sewer Maintenance Section to include two response teams for each response zone which corresponds to the police precincts.

7. **Equipment Needs** – Existing aging equipment will have to be replaced in order for sewer crews to adequately perform. COJ will evaluate existing equipment and prioritize needed equipment purchases within 60 days.

Status: The City has evaluated existing equipment and made plans to purchase new equipment where necessary. Equipment received during the reporting period included:

- 2 - CCTV Sewer Inspection Trucks
- 2 - Combination Sewer Cleaning Trucks

Planned equipment purchases not yet received include:

- 1- 12 yard Dump Truck
- 1- 3 yard Dump Truck
- 1- 1 ½ yard excavator
- 1-5 ton Low boy trailer.

In addition, an ongoing requirement of the SORP is for COJ to review the SORP annually and amend it as appropriate. The contact list of the SORP has been amended to reflect current responsible individuals and is available on the City of Jackson's Consent Decree website.

2.2 Training Program

The Training Program was completed on February 24, 2014. The final draft was transmitted via e-mail to the Department of Justice, EPA and MDEQ for review on February 28, 2014 in compliance with the requirements of the Consent Decree. The final Training Program was submitted on March 6, 2014. The delayed submittal is due to the untimely passing of Mayor Lumumba.

2.3 Pump Station Operations Program

The Pump Station Operations Program was completed on February 24, 2014. The final draft was transmitted via e-mail to the Department of Justice, EPA and MDEQ for review on February 28, 2014 in compliance with the requirements of the Consent Decree. The final Operations Program was submitted on March 6, 2014. The delayed submittal is due to the untimely passing of Mayor Lumumba. The Pump Station Operations Report documents that the City of Jackson is compliant with the requirements of the Consent Decree and that no major changes are required to the current pump station operations procedures, except for implementing additional emergency operations capabilities.

2.4 Pump Station Preventive Maintenance Program

The Pump Station Preventive Maintenance Programs report was completed on February 24, 2014. The final draft was transmitted via e-mail to the Department of Justice, EPA and MDEQ for review on February 28, 2014 in compliance with the requirements of the Consent Decree. The final Pump Station Preventative Maintenance Programs report was submitted on March 6, 2014. The delayed submittal is due to the untimely passing of Mayor Lumumba. The Pump Station Preventative Maintenance report documents that the City of Jackson is compliant with the requirements of the Consent Decree and that no major changes are required to the current pump station maintenance procedures, except for completing certain pump station improvements.

3.0 Trend Analysis of SSOs and Prohibited Bypasses

The trend analysis for the first year of CD implementation includes data for SSOs and prohibited bypasses for March 2013 through February 2014. For each month, numbers of events, total volume, and total duration are plotted with rainfall for the month. Events per month are also plotted by cause.

SSOs are divided into three elements of the wastewater system: the collection system, West Bank Interceptor, and pump stations. Prohibited bypasses were observed only at the Savanna Street Wastewater Treatment Facility (SSWWTF).

As the implementation of the CD progresses in future years, the change in occurrence in each element will be able to be tracked with repairs made to each. In future years, year-to-year comparisons will be made.

3.1 Collection System SSOs

Table 1 lists SSOs in the collection system for the year. Each day of a multiple day event is considered as a separate SSO, in accordance with the determination of penalties according to the CD.

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

- Grease
- Roots
- Solids
- Collapsed Pipe
- Pump Station Failure
- Excessive Flow
- Undersized Line
- Other

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

Figure 2 shows percentages of collection system SSOs for the year by cause. Note that just over two-thirds of the SSOs were caused by grease in the sewer mains. **Figure 3** shows total volume of SSOs for each month. Volumes are plotted on a logarithmic scale because of the large monthly variations. **Figure 4** shows total duration of SSOs for each month.

Monthly rainfall is plotted in each graph. It should be noted that there does not appear to be a correlation between rainfall and the number, volume, or duration of SSOs.

Table 1
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/1/2013	4:00 PM	GALLOWAY AVE BROADWAY AVE	Ground Surface (defective pipe underground)	1.00	800	Eubanks	Collapsed Pipe.
3/1/2013	5:30 PM	221 LAKE OF PINES DR	Manhole	0.75	150	Hanging Moss	Grease.
3/1/2013	7:30 PM	TREEHAVEN DR TERRY ROAD	Manhole	0.50	250	Hardy	Grease.
3/2/2013	10:00 AM	GALLOWAY AVE BROADWAY AVE	Manhole	4.00	1,390	Eubanks	Collapsed Pipe.
3/3/2013	1:45 PM	720 POPLAR BLVD	Manhole	1.25	7	Belhaven	Mud in line.
3/4/2013	9:20 AM	312 LAKE OF PINES DR	Cleanout	0.67	10	Hanging Moss	Grease.
3/4/2013	11:00 AM	3175 ROBINSON ROAD	Manhole	1.00	3,380	Lynch	
3/4/2013	3:00 PM	SEGURA AVE ROSSLYN AVE	Manhole		20	Lynch	Grease.
3/4/2013	5:55 PM	WOOD ST	Cleanout	0.67	2	Town	Grease.
3/5/2013	10:45 AM	1439 RIVERWOOD DR	Manhole	1.25	1,440	Hanging Moss	Grease.
3/5/2013	3:00 PM	4336 ROBINSON ROAD	Manhole	2.00	150	Lynch	Grease.
3/6/2013		928 WOODY DR					
3/6/2013	9:00 AM	GALLOWAY AVE BROADWAY AVE	Constructed Bypass	1.00	0	Lynch	Collapsed Pipe.
3/6/2013	10:10 AM	1922 CATALINA CIR	Manhole	0.50	1,000	Three Mile	Grease.
3/6/2013	5:00 PM	525 or 527 BUENA VISTA AVE	Ground Surface (defective pipe underground)	0.50	10	Lynch	Collapsed Pipe.
3/7/2013	9:00 AM	157 LIVINGSTON ST	Manhole	1.50	2,240	Town	Grease.
3/7/2013	5:00 PM	301 ELTON ROAD	Manhole	1.00	350	Cany	Grease.
3/8/2013	8:20 AM	475 BRIARWOOD DR	Manhole	1.00	1,380	Hanging Moss	Grease.
3/8/2013	9:00 AM	173 PLUMMER CIR	Manhole	1.50	1,390	Cany	Collapsed Pipe.
3/8/2013	2:30 PM	619 FOREST AVE	Manhole		0	Eubanks	Grease.
3/8/2013	5:30 PM	145 LORENZ BLVD	Cleanout		70	Town	Solids.
3/8/2013	6:45 PM	4683 HILLSIDE DR	Manhole		250	Hanging Moss	Collapsed Pipe.
3/8/2013	8:00 PM	4634 NORWAY DR	Cleanout	0.50	20	Hanging Moss	Solids.
3/10/2013	9:15 AM	5272 WYNNDYKE ROAD	Manhole	1.42	3,380	Lynch	Grease. Roots.
3/10/2013	12:15 PM	1045 AUTUMN ST	Manhole	0.33	100	Cany	Rainwater.
3/11/2013	9:00 AM	4108 MEDGAR EVERS BLVD	Manhole	1.00	1,390	Bogue Chitto	Grease.
3/11/2013	9:10 AM	RIDGEWOOD ROAD	Manhole	2.58	40	Hanging Moss	Grease. Solids.
3/11/2013	9:30 AM	3853 GAMMILL ST	Cleanout		0	Town	Grease.
3/11/2013	11:10 AM	4882 Hwy 18	Manhole	3.78	6,500	Cany	Grease.
3/11/2013	11:15 AM	1583 RIDGEWAY ST	Manhole	0.33	0	Cany	Excessive Flow.
3/11/2013	2:30 PM	145 LORENZ BLVD	Manhole	1.75	3,380	Town	Grease. Roots.
3/11/2013	2:30 PM	5462 QUEEN MARY LANE	Manhole	1.50	0	Lynch	Grease.
3/11/2013	4:50 PM	MANCHESTER AVE SPRINGFIELD CIR	Manhole	0.75	200	Lynch	Grease. Solids. Rain water.
3/12/2013	10:20 AM	781 E NORTHSIDE DR	Manhole	0.67	1,100	Eubanks	Grease.

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City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/12/2013	3:00 PM	4108 MEDGAR EVERS BLVD	Manhole	0.75	1,100	Cany	Grease. Roots.
3/13/2013	4:33 PM	904 ROYAL OAK DR	Cleanout	2.20	1,200	Lynch	Grease. Rags.
3/14/2013	10:15 AM	5205 HENLEY ST	Manhole	1.92	500	Bakers	Grease. Roots.
3/14/2013	5:30 PM	964 DORGAN ST	Cleanout	1.00	150	Three Mile	Grease.
3/14/2013	7:30 PM	2720 CAMELLIA LANE	Ground Surface (defective pipe underground)	1.00		Three Mile	Collapsed Pipe.
3/15/2013	10:30 AM	118 CULPEPPER DR	Manhole	0.50	200	Hardy	Grease.
3/15/2013	11:00 AM	117 SAVANNA AVE	Manhole	1.00	0	Cany	Grease.
3/15/2013	2:20 PM	207 CAMELLIA LANE	Manhole	1.50	3,000	Three Mile	Grease.
3/16/2013	10:30 AM	1327 DANSBY ST	Cleanout	1.50	0	Lynch	Grease.
3/16/2013	4:00 PM	5943 WESTMORE DR	Manhole	1.00	100	Hanging Moss	Grease.
3/17/2013	4:00 AM	BAY ST RIDGEWAY ST	Manhole	1.75	300	Town	Grease. Solids.
3/17/2013	6:10 AM	1828 GREENWAY DR	Manhole	0.75	10	Cany	Solids.
3/17/2013	8:00 AM	1950 MARSHALL PL	Other	0.25	25	Bogue Chitto	Roots. Collapsed Pipe.
3/17/2013	11:00 AM	1327 DANSBY ST	Manhole	1.33	200	Lynch	Grease. Roots.
3/18/2013	12:30 PM	1327 DANSBY ST	Cleanout		0	Lynch	Grease.
3/18/2013	4:20 PM	787 E NORTHSIDE DR	Manhole	0.58	400	Eubanks	Grease.
3/18/2013	5:35 PM	1515 FIRST AVE PRENTISS ST	Manhole	0.92	250	Lynch	Grease.
3/18/2013	6:30 PM	624 ELLIS AVE	Ground Surface (defective pipe underground)		50	Lynch	Excessive Flow.
3/18/2013	8:25 PM	1423 WOODY DR	Manhole	0.42	600	Cany	Grease.
3/19/2013	4:30 AM	787 E NORTHSIDE DR	Manhole	0.67	200	Eubanks	Grease. Solids.
3/19/2013	2:00 PM	2902 LA SALLE ST	Manhole	1.25	400	Hardy	Grease.
3/20/2013	10:35 AM	3040 LIVINGSTON ROAD		1.00	1,380	Town	Grease.
3/20/2013	2:30 PM	HULL ST PLEASANT AVE	Ground Surface (defective pipe underground)	1.00	1,390	Town	Collapsed Pipe.
3/21/2013	11:00 AM	3822 CALIFORNIA AVE	Cleanout	1.50	150	Town	Grease.
3/21/2013	6:00 PM	2232 BRECKENRIDGE RD	Cleanout	1.50	100	Hardy	Roots.
3/22/2013	10:00 AM	1580 RIDGEWAY ST	Manhole	1.00	1,390	Town	Solids.
3/22/2013	3:00 PM	2859 BAILEY AVE	Manhole	1.00	1,390	Town	Grease.
3/22/2013	3:55 PM	838 COMBS ST	Manhole	0.58	150	Three Mile	Grease.
3/24/2013	11:15 AM	5272 WYNNDIKE CIR	Manhole	1.25	4,590	Lynch	Grease. Roots.
3/24/2013	12:45 PM	2555 SHEPWOOD DR WINN ST	Manhole	0.83	80	Hardy	Grease.
3/25/2013	9:15 AM	I 55 S	Manhole	0.75	7,500		Grease.
3/25/2013	11:30 AM	145 LORENZ BLVD	Manhole	1.67	600	Town	Grease.
3/25/2013	12:16 PM	252 MCDOWELL PARK CIR	Manhole	1.23	6,300	Cany	Grease.
3/25/2013	3:00 PM	4126 PARKWAY AVE	Ground Surface (defective pipe underground)	0.50	1,390	Town	Grease.
3/25/2013	11:00 PM	RIDGEWAY ST WARNER AVE	Manhole	0.50	200	Town	Roots.
3/26/2013	12:00 PM	1231 CORINTH ST	Manhole	0.50	300	Lynch	Grease.
3/26/2013	1:45 PM	NORTHTOWN DR OLD CANTON RD	Manhole	2.50	800	Purple	Grease.
3/27/2013	2:15 PM	1009 DORGAN ST	Cleanout	0.50	0	Hardy	Grease.
3/28/2013	12:10 PM	121 RILEY DR	Manhole	1.00	1,380	Bogue Chitto	Grease. Roots.
3/29/2013	1:30 PM	5449 WILLIAMS DR	Cleanout		1,390	Lynch	Grease.

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Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/29/2013	1:30 PM	5449 WILLIAMS DR	Cleanout		1,390	Lynch	Grease.
3/29/2013	2:15 PM	FOREST AVE WATKINS DR	Manhole		1,380	Hanging Moss	Grease.
3/29/2013	2:15 PM	FOREST AVE WATKINS DR	Manhole		1,380	Eubanks	Grease.
4/1/2013	8:15 AM	358 ELLIS AVE	Other	0.42	30	Lynch	Collapsed Pipe. Under house.
4/1/2013	10:00 AM	1728 CENTRAL ST	Cleanout	0.50	0	Lynch	Solids.
4/1/2013	12:30 PM	3700 WARNER AVE	Manhole	0.50	400	Town	Grease.
4/1/2013	1:45 PM	1712 WILHURST ST	Manhole	0.92	300	Hanging Moss	Grease.
4/1/2013	2:15 PM	1651 FOREST AVE	Manhole	2.00	1,390	Town	Grease.
4/2/2013	6:25 AM	5760 I 55 N	Cleanout	0.33	1	White Oak	Leaves.
4/2/2013	8:45 AM	3207 WASHINGTON ST	Manhole	1.25	25	Lynch	Grease. Solids.
4/2/2013	11:00 AM	1515 FIRST AVE	Manhole	1.67	200	Lynch	Grease. Collapsed Pipe.
4/2/2013	11:00 AM	4223 WATKINS DR	Manhole	0.50	0	Hanging Moss	Grease.
4/2/2013	3:30 PM	639 W ASH ST	Ground Surface (defective pipe underground)	1.00	500	Town	Grease.
4/2/2013	6:30 PM	SAINT CHARLES ST	Ground Surface (defective pipe underground)	2.50	300	Lynch	Grease.
4/4/2013	10:00 AM	LEXINGTON AVE SAINT CHARLES ST	Manhole	1.75	400	Lynch	Grease.
4/4/2013	11:15 AM	3312 JAYNE AVE	Cleanout	1.00	150	Lynch	Grease.
4/4/2013	4:45 PM	170 TREEHAVEN DR	Cleanout		50	Hardy	Collapsed Pipe.
4/5/2013	9:30 AM	LEXINGTON AVE CAPITOL ST	Manhole	2.00	0	Town	Collapsed Pipe.
4/5/2013	1:00 PM	3040 LIVINGSTON ROAD	Manhole	0.50	0	Town	Grease.
4/6/2013	4:00 AM	PLEASANT AVE HULL ST	Manhole	1.00	150	Town	Grease.
4/6/2013	4:00 AM	PLEASANT AVE HULL ST	Manhole	1.00	300	Town	Grease.
4/6/2013	8:45 AM	5508 QUEEN ELIZABETH LANE	Manhole	1.25	1,380	Lynch	Grease. Roots.
4/7/2013	8:50 AM	121 OLD CANTON HILL DR	Cleanout	1.25	50	Purple	Roots.
4/8/2013	9:00 AM	1957 MEADOWBROOK ROAD	Manhole	4.50	200	Eastover	Roots. Collapsed Pipe.
4/9/2013	3:00 PM	2323 FOREST AVE	Manhole	0.50	300	Eubanks	Grease.
4/9/2013	7:00 PM	1770 SHADY LANE DR	Cleanout	1.50	150	Lynch	Collapsed Pipe.
4/10/2013	10:15 AM	238 GUNTER ST	Manhole	0.75	1,380	Three Mile	Grease.
4/10/2013	2:15 PM	3622 WESTCHESTER DR	Ground Surface (defective pipe underground)	0.75	0	Town	Grease.
4/10/2013	4:00 PM	3118 WHITTEN ROAD	Ground Surface (defective pipe underground)	1.00	30	Town	Solids.
4/11/2013	2:00 PM	1119 MCLEAN ST	Manhole	1.25	1,180	Lynch	Grease.
4/11/2013	3:30 PM	928 WOODY DR OAK FOREST DR	Manhole	2.25	1,180	Cany	Grease. Roots.
4/12/2013		442 ROLAND ST					
4/13/2013		700 PENNSYLVANIA AVE	Manhole				Roots.
4/13/2013	1:00 PM	475 BROWNING DR	Manhole	1.00	1,380	Bakers	Grease.
4/15/2013	8:30 AM	355 GREENHILL PL	Manhole	1.00	500	Lynch	Grease.
4/15/2013	1:15 PM	328 CATALINA CIR	Manhole	2.00	3,340	Three Mile	Grease. Roots.

Table 1
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
4/15/2013	3:15 PM	2615 LATIMER AVE	Manhole	1.00	300	Lynch	Grease.
4/16/2013	9:15 AM	320 OAK ST	Constructed Bypass	3.00	300	Town	Grease. Solids.
4/16/2013	2:30 PM	PLEASANT AVE HULL ST	Ground Surface (defective pipe underground)	1.00	1,390	Town	Grease.
4/17/2013	5:05 AM	1429 E NORTHSIDE DR	Manhole		30	Eastover	Roots.
4/17/2013	8:30 AM	FOREST AVE WATKINS DR	Manhole	2.00	300	Eubanks	Grease. Solids.
4/18/2013	10:00 AM	233 MARGARET W ALEXANDER ST	Constructed Bypass	1.00	0	Town	Collapsed Pipe.
4/18/2013	3:00 PM	850 WILLOW ST	Manhole	0.50	120	Town	Grease.
4/21/2013	8:10 AM	NOBLE ST FAULK BLVD	Manhole	1.42	1,180	Lynch	Grease. Cave in.
4/21/2013	9:45 AM	GROVER CLEVELAND CIR	Manhole	0.50	20	Bogue Chitto	Grease. Solids.
4/22/2013	6:45 AM	5832 OLD CANTON RD	Manhole	0.50	10	Purple	Solids.
4/22/2013	8:42 AM	200 REBEL WOODS	Manhole	0.68	7,500	Hardy	Grease.
4/22/2013	11:52 AM	3373 FLEETWOOD DR	Manhole	3.80	9,000	Cany	Cave in.
4/22/2013	3:50 PM	1595 HIGHLAND DR	Manhole		3,500	Lynch	Grease.
4/23/2013	5:05 AM	5866 CANTON PARK DR	Manhole	1.92	210	Purple	Grease. Solids.
4/23/2013	10:00 AM	FOREST AVE WATKINS DR	Manhole	1.00	500	Eubanks	Grease.
4/25/2013	8:00 AM	2331 MARGARET W ALEXANDER ST	Ground Surface (defective pipe underground)	1.50	0	Town	Collapsed Pipe.
4/26/2013	8:00 AM	124 GLENWAY DR	Manhole	3.00	3,760	Eubanks	Grease. Roots.
4/26/2013	8:01 AM	724 RAYMOND ROAD	Manhole	2.65	5,500	Three Mile	Grease.
4/26/2013	1:35 PM	969 LAKELAND DR	Manhole	0.92	1,380	Eubanks	Grease. Roots.
4/26/2013	5:05 PM	2500 N STATE ST	Manhole	0.67	350	Belhaven	Grease.
4/29/2013	7:30 AM	4683 HILLSIDE DR	Manhole	0.75	35	Hanging Moss	Grease. Solids.
4/29/2013	9:35 AM	914 LOTUS AVE	Manhole	1.00	5	Three Mile	Grease.
4/29/2013	10:30 AM	4264 RICHMOND CIR	Ground Surface (defective pipe underground)	0.50	0	Town	Collapsed Pipe.
4/29/2013	11:30 AM	1214 MELWOOD PL	Manhole	1.25	1,390	Eubanks	Grease.
4/29/2013	11:33 AM	4343 JACKSON HWY	Manhole	1.53	1,180	Lynch	Grease.
4/30/2013	9:00 AM	3317 FOREST AVENUE EXT	Manhole	2.50	1,390	Bogue Chitto	Grease.
5/2/2013		I 55 LAKELAND DR	Manhole		500,000	Eubanks	Collapsed Pipe.
5/2/2013	9:00 AM	E I 55 FRONTAGE COWAN PL	Manhole		500,000	Eubanks	Collapsed Pipe.
5/3/2013	8:45 AM	637 W WOODROW WILSON AVE	Ground Surface (defective pipe underground)	1.00	0	Town	Collapsed Pipe.
5/3/2013	6:25 PM	502 SPRINGFIELD CIR	Manhole	0.28		Lynch	Excessive Flow.
5/6/2013		5874 KINDER DR	Cleanout	0.00	0	Purple	Grease.
5/6/2013	10:15 AM	120 WACKER DR	Ground Surface (defective pipe underground)	0.75	1,390	Eubanks	Collapsed Pipe.
5/7/2013	9:15 AM	1959 MARSHALL PL	Manhole	1.75	200	Bogue Chitto	Grease.
5/7/2013	2:30 PM	637 WOODROW WILSON AVE	Constructed Bypass	1.50	0	Town	Collapsed Pipe.
5/8/2013	7:45 AM	2500-2600 BLOCK MEADOW ROAD	Ground Surface (defective pipe underground)	4.25	0	Town	Collapsed Pipe.
5/8/2013	10:05 AM	I 55	Manhole	1.50	1,380	Belhaven	Grease.

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Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
5/9/2013		305 DUNBAR ST	Ground Surface (defective pipe underground)	0.00	80	Town	Collapsed Pipe.
5/9/2013	4:15 AM	PEOLA ST ELLIS AVE	Manhole	0.42	20	Lynch	Collapsed Pipe.
5/9/2013	8:30 AM	116 CEDARHURST DR	Cleanout	1.00	200	Eubanks	Grease.
5/9/2013	9:23 AM	515 SYKES ROAD	Manhole	5.28	3,500	Cany	Grease.
5/9/2013	10:15 AM	3526 N STATE ST	Manhole	0.50	850	Eubanks	Grease.
5/9/2013	6:08 PM	234 PINE LAWN PL	Manhole	0.62	400	Three Mile	Solids.
5/10/2013	8:45 AM	3338 BAINBRIDGE DR	Cleanout	1.00	50	Town	Grease.
5/10/2013	1:00 PM	3944 MEDGAR EVERS BLVD	Manhole	2.00	2,130	Town	Grease. Solids.
5/10/2013	1:45 PM	3228 MEDGAR EVERS BLVD	Manhole	2.00	1,200	Town	Grease.
5/13/2013	8:15 AM	116 CEDARHURST ROAD	Cleanout	0.50	0	Eubanks	Collapsed Pipe.
5/13/2013	10:15 AM	1142 RAYMOND ROAD	Manhole	0.58	10	Hardy	Grease.
5/13/2013	11:00 AM	520 KIRKLEY DR	Cleanout	2.75	40	Eubanks	Grease.
5/13/2013	3:30 PM	302 MANSIP ST	Manhole	1.00	1,390	Town	Grease.
5/14/2013	10:00 AM	508 LINDSEY DR	Cleanout	0.50	45	Lynch	Grease.
5/14/2013	2:30 PM	3636 HANCOCK ST	Cleanout	0.50	50	Town	Grease.
5/14/2013	7:00 PM	4946 SUNNYBROOK DR	Manhole	1.00	150	Lynch	Solids.
5/15/2013		2446 BELVEDERE DR	Cleanout	0.00	50	Three Mile	Solids.
5/15/2013	11:00 AM	5508 QUEEN ELIZABETH LANE	Ground Surface (defective pipe underground)		60	Lynch	Grease.
5/15/2013	2:45 PM	224 GADDIS ST	Constructed Bypass	1.00	1,390	Town	Collapsed Pipe.
5/17/2013	9:15 AM	600 QUEEN JULIANNA LANE	Manhole	0.50	200	Lynch	Grease.
5/17/2013	6:10 PM	2446 BELVEDERE DR	Cleanout	1.67	15	Three Mile	Solids.
5/20/2013	5:30 AM	5510 CLINTON BLVD	Manhole	0.75	0	Lynch	Grease. Roots.
5/20/2013	11:00 AM	1318 ROXBURY CT	Constructed Bypass	1.50	1,390	Eubanks	Grease.
5/22/2013	9:45 AM	107 GROVER CLEVELAND CIR	Manhole	0.50	200	Bogue Chitto	Grease.
5/22/2013	10:15 AM	CRANE BLVD OLD CANTON RD	Manhole	1.58	2,280	Eubanks	Collapsed Pipe.
5/23/2013	10:30 AM	4446 FOREST PARK DR	Constructed Bypass	0.50	0	Eastover	Collapsed Pipe.
5/24/2013	1:30 PM	3612 NORTHHAVEN DR	Constructed Bypass	0.75	0	Eubanks	Collapsed Pipe.
5/27/2013	3:45 AM	612 HEATHER LANE	Manhole	0.92	50	Hanging Moss	Collapsed Pipe.
5/28/2013	8:30 AM	4683 HILLSIDE DR	Manhole	3.00	1,890	Hanging Moss	Grease. Roots. Solids. Collapsed Pipe.
5/28/2013	9:20 AM	1115 WINNROSE CT	Manhole	1.00	1,380	White Oak	Grease.
5/28/2013	12:00 PM	2424 BAILEY AVE	Manhole	11.50	150	Town	Grease. Collapsed Pipe.
5/29/2013	6:45 AM	LAKELAND DR I 55	Manhole	1.25	2,000	Eubanks	Grease. Solids. Collapsed Pipe.
5/29/2013	10:50 AM	5204 SYCAMORE DR	Manhole	2.33		Trahan	Grease. Roots.
5/29/2013	6:15 PM	211 LEA CIR	Ground Surface (defective pipe underground)	0.75		Hardy	Solids.
5/30/2013	8:00 AM	971 LAKELAND DR	Manhole	1.25	1,380	Eubanks	Collapsed Pipe.
6/1/2013	5:00 PM	405 MASON BLVD	Manhole	0.50	300	Cany	Grease. Solids.
6/1/2013	6:10 PM	4555 RAYMOND ROAD	Manhole	1.83	1,180	Big Creek	Grease.
6/1/2013	9:40 PM	494 COLLIER AVE	Manhole	0.83	1,180	Eubanks	Grease.
6/3/2013	5:40 AM	1212 MELWOOD PL	Manhole	1.08	25	Eubanks	Grease.

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6/3/2013	11:35 AM	OAK FOREST DR WOODY DR	Manhole	1.00	3,380	Cany	Grease.
6/3/2013	12:45 PM	TERRY ROAD PORTER ST	Manhole		300	Lynch	Grease.
6/3/2013	12:15 PM	TERRY ROAD HANDY AVE	Manhole	0.50	300	Lynch	Grease.
6/3/2013	12:35 PM	3289 OAK FOREST DR	Manhole	0.08	3,380	Cany	Grease.
6/3/2013	2:00 PM	715 KIRKLEY DR	Manhole	0.50	200	Eubanks	Grease.
6/3/2013	2:00 PM	775 KIRKLEY DR	Manhole	0.50	200	Eubanks	Grease.
6/3/2013	3:00 PM	434 BROADVIEW ST	Cleanout	0.75	50	Town	Grease.
6/4/2013	9:00 AM	5508 QUEEN ELIZABETH LANE	Ground Surface (defective pipe underground)	0.50	100	Lynch	Grease.
6/4/2013	9:15 AM	PARKSIDE PL	Manhole	4.42	3,380	Town	Grease.
6/4/2013	2:30 PM	572 DRYDEN AVE	Manhole	1.00	1,890	Lynch	Grease.
6/5/2013	9:50 AM	2434 CAPITOL ST	Manhole	1.17	300	Lynch	Grease.
6/5/2013	11:15 AM	131 NEATHERWOOD DR	Manhole	1.58	300	Cany	Grease.
6/5/2013	2:50 PM	560 DRYDEN AVE	Manhole	0.67	1,180	Lynch	Grease.
6/7/2013	9:15 AM	4331 PATANN ST	Manhole	1.25	0	Bogue Chitto	Grease.
6/9/2013	1:05 PM	2351 FOREST GLEN DR	Cleanout	1.00	300	Eubanks	Grease. Roots.
6/10/2013	8:30 AM	245 MANCHESTER AVE	Manhole	0.50	1,200	Lynch	Grease. Solids.
6/10/2013	8:45 AM	5140 QUEEN ELEANOR LANE	Manhole	0.50	200	Lynch	Grease. Solids.
6/10/2013	10:00 AM	3430 ALBERMARLE ROAD	Manhole	1.50	300	Town	Grease.
6/10/2013	10:20 AM	169 KINGSTON AVE	Manhole	0.33	35	Town	Grease.
6/11/2013	10:15 AM	196 KINGSTON AVE	Cleanout	0.50	0	Town	Solids.
6/12/2013	4:45 AM	1210 MELWOOD PL	Manhole	1.00		Eubanks	Grease.
6/12/2013	9:00 AM	220 LIVINGSTON ROAD	Cleanout	3.00	200	Hanging Moss	Grease.
6/12/2013	3:00 PM	3225 MEDGAR EVERS BLVD	Manhole	0.50	200	Town	Grease.
6/12/2013	4:06 PM	2343 HICKORY DR	Cleanout	1.15	50	Cany	Collapsed Pipe.
6/14/2013	8:30 AM	5510 CLINTON BLVD	Manhole	1.25	0	Lynch	Grease.
6/14/2013	9:30 AM	1113 GRAND AVE	Ground Surface (defective pipe underground)	1.00	1,900	Town	Grease.
6/15/2013	10:05 AM	3430 ALBERMARLE ROAD	Manhole	0.67	850	Town	Grease.
6/17/2013	9:00 AM	837 BUTTONWOOD DR	Manhole	2.50	1,000	Hanging Moss	Grease.
6/17/2013	2:15 PM	408 ROBINHOOD ROAD	Constructed Bypass	0.50	1,000	Eubanks	Grease.
6/19/2013	9:15 AM	3133 SYLVESTER DR	Manhole	1.08	30	Hardy	Grease.
6/19/2013	5:50 PM	223 CHIPPEWA CIR	Manhole	0.58	500	Eastover	Grease.
6/19/2013	6:40 PM	2251 FOREST GLEN DR	Manhole	1.25	150	Eubanks	Grease.
6/19/2013	9:40 PM	315 QUEEN JULIANNA LANE	Manhole	1.08	200	Lynch	Grease.
6/20/2013	4:00 PM	4917 N WESTHAVEN DR	Cleanout		50	Lynch	Grease.
6/20/2013	4:05 PM	4833 CHURCHILL DR	Cleanout	0.33	5	Eastover	Grease. Solids.
6/20/2013	6:30 PM	407 OAKHURST DR	Cleanout	0.50	20	Lynch	Grease.
6/21/2013	11:45 AM	3661 RAINEY ROAD	Manhole	1.50	1,000	Cany	Grease.
6/21/2013	12:00 PM	1957 MEADOWBROOK ROAD	Manhole	1.25	1,380	Eastover	Grease. Roots.
6/24/2013	8:30 AM	1763 SOUTH HAVEN CIR	Manhole	0.58	25	Cany	Grease.

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6/24/2013	2:30 PM	4039 N WABASH AVE	Ground Surface (defective pipe underground)	2.25	0	Town	Grease.
6/24/2013	2:30 PM	4001 N WABASH AVE	Ground Surface (defective pipe underground)	2.25	0	Town	Grease.
6/24/2013	3:20 PM	254 CHAMPION HILL DR	Cleanout	1.50	15	Hardy	Grease.
6/25/2013	10:15 AM	2010 CHADWICK DR	Manhole	1.75	1,180	Cany	Grease.
6/26/2013	10:15 AM	1244 COOPER ROAD	Manhole	1.58	300	Town	Grease.
6/27/2013	9:30 AM	1939 VENTURA DR	Manhole	0.95	900	Three Mile	Grease.
6/28/2013	4:00 PM	340 BROADVIEW ST	Cleanout	1.50	5	Lynch	Grease.
7/1/2013	9:40 AM	307 JAMES GARFIELD CIR	Manhole	1.08	1,380	Bogue Chitto	Grease.
7/8/2013	9:45 AM	550 HOUSTON AVE	Cleanout	0.83	30	Lynch	Grease.
7/8/2013	10:25 AM	3235 MEDGAR EVERS BLVD	Manhole	0.83	1,380	Town	Grease. Solids.
7/9/2013	4:55 PM	4838 WINDERMERE TER	Cleanout	0.42	10	Eubanks	Solids.
7/9/2013	4:55 PM	1420 TRACEWOOD DR	Other		0	Purple	Solids.
7/10/2013	9:00 AM	550 HOUSTON AVE	Cleanout	0.75	30	Lynch	Grease.
7/10/2013	4:15 PM	5508 QUEEN ELIZABETH LANE	Manhole	1.58	50	Lynch	Grease. Solids.
7/10/2013	9:04 PM	131 TAYLOR ST	Ground Surface (defective pipe underground)	1.52	10	Town	Grease. Solids.
7/12/2013	9:50 AM	502 LINDSEY DR	Cleanout	2.67	300	Lynch	Grease. Collapsed Pipe.
7/13/2013	10:30 AM	WATKINS DR FOREST AVE	Manhole	1.00	1,380	Eubanks	Grease.
7/13/2013	12:00 PM	CADILLAC DR DOUGLAS AVE	Manhole	0.83	920	Town	Grease.
7/15/2013	2:10 PM	4555 RAYMOND ROAD	Manhole	1.08	1,180	Big Creek	Grease. Roots.
7/16/2013	10:00 AM	4555 RAYMOND ROAD	Manhole	0.00	3,380	Big Creek	Grease.
7/17/2013	1:05 PM	4911 OLD CANTON RD	Manhole	3.08	2,780	Hanging Moss	Grease. Pump Station Failure.
7/17/2013	4:35 PM	4612 BELMEDE PL	Ground Surface (defective pipe underground)	2.67	10	Eubanks	Grease. Collapsed Pipe.
7/17/2013	8:48 PM	1098 BRANCH ST	Other	2.70	50	Cany	Grease.
7/18/2013	5:04 AM	SMALLWOOD ST WOODY DR	Manhole	12.27	250	Cany	Rainfall.
7/18/2013	8:40 AM	4469 AZALEA DR	Manhole	1.33	240	Eubanks	Grease.
7/19/2013	7:48 PM	MCDOWELL ROAD CRESTLEIGH MANOR	Manhole	0.23	250	Cany	Grease.
7/21/2013	4:15 PM	124 GLENSTONE CIR	Manhole	0.00	300	Cany	Grease.
7/23/2013	7:35 PM	5266 PARKWAY DR	Manhole	2.00	40	Hanging Moss	Grease. Solids.
7/28/2013	4:35 PM	4322 WATKINS DR	Manhole	1.67	20	Eubanks	Grease. Solids.
7/31/2013	5:45 PM	4113 W CAPITOL ST	Ground Surface (defective pipe underground)	1.25	5	Lynch	Collapsed Pipe.
7/31/2013	7:10 PM	3911 EASTOVER DR	Manhole	0.00	70	Eastover	Grease. Solids.
8/1/2013	7:30 AM	COWAN PL	Manhole	0.13		Eubanks	Pump Station Failure.
8/5/2013	5:45 PM	4500 I 55 N	Manhole	0.92	20	Cany	Grease. Solids.
8/6/2013	10:20 AM	HWY 80	Manhole	1.83	100	Lynch	Grease.
8/6/2013	2:11 PM	1044 COOPER ROAD	Cleanout	1.32		Cany	Grease.
8/7/2013	1:30 PM	BAILEY AVE PALMYRA ST	Manhole	1.83	300	Town	Grease.

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8/11/2013	12:30 PM	2205 CONTENT ST HALL DR	Manhole	0.00	4,500	Town	Bypass pump stopped working.
8/16/2013	10:47 AM	2805 TERRY ROAD	Manhole	2.18	500	Hardy	Grease.
8/16/2013	1:33 PM	PLEASANT AVE HULL ST	Other	1.45	500	Town	Broken force main pipe.
8/19/2013	12:04 PM	ROSE ST CENTRAL ST	Manhole	0.93	1,000	Town	Broken pipe.
8/19/2013	12:05 PM	1732 CAMILLA DR	Cleanout	1.00	900	Lynch	Grease.
8/19/2013	6:05 PM	NORTHPOINTE PKWY	Ground Surface (defective pipe underground)	0.83	15	Purple	Collapsed Pipe.
8/20/2013	1:10 PM	1533 WIGGINS ROAD	Cleanout	1.83	80	Lynch	Collapsed Pipe.
8/22/2013	11:15 AM	572 DRYDEN AVE	Ground Surface (defective pipe underground)	1.83	800	Lynch	Grease. Roots. Defective pipe.
8/26/2013	5:50 PM	1049 AUBURN DR	Manhole	0.83	25	White Oak	Grease.
8/29/2013	2:15 PM	2485 CAPITOL ST LEXINGTON AVE	Other	1.25	19	Town	Sewer tap or stub needs repairing.
9/2/2013	10:15 AM	JEFFERSON ST FORTIFICATION ST	Manhole	0.75	3,380	Belhaven	Grease.
9/5/2013	4:57 PM	3150 ROBINSON ROAD	Manhole	1.38	50	Lynch	Grease.
9/9/2013	1:15 PM	1390 FOREST AVE	Manhole	1.08	750	Eubanks	Broken force main.
9/9/2013		1390 FOREST AVE	Manhole		750	Eubanks	Force main pipe broke.
9/13/2013	3:45 PM	3670 LIBERTY ST	Cleanout	1.00	50	Town	Grease.
9/16/2013	11:30 AM	412 MCDOWELL ROAD GLENN ST	Other	1.00	3,380	Hardy	Grease.
9/17/2013	7:25 AM	E I 55 FRONTAGE DRUID HILL DR	Manhole	0.75	512	Eubanks	Grease.
9/17/2013	9:16 AM	367 BROOKWOOD PL LAKE	Manhole	1.75	2,500	Trahan	Grease.
9/20/2013	8:00 PM	275 MARLA AVE	Other	1.50		Three Mile	Solids.
9/22/2013	9:50 AM	MILL ST	Manhole	1.25	3,880	Town	Grease.
9/23/2013	10:00 AM	2151 N MILL ST	Manhole	1.25	3,880	Town	Grease.
9/23/2013	3:05 PM	2902 GREENWOOD AVE	Manhole	0.00	1,500	Hardy	Grease.
9/24/2013	11:15 AM	3150 ROBINSON ROAD	Manhole	12.50	2,250	Lynch	Grease.
9/24/2013	3:06 PM	1543 BURTON ST	Other	1.97	50	Lynch	Rain getting into sewer line.
9/24/2013	3:30 PM	4735 ROBINSON ROAD EX	Manhole	0.67	1,180	Cany	Grease. Roots.
9/25/2013	10:43 AM	5477 ROBINSON ROAD EX	Manhole	2.12	4,500	Cany	Grease.
9/25/2013	6:40 PM	WINDSOR DR	Manhole	1.00	30	Lynch	Grease.
9/26/2013	4:15 PM	1054 MEADOW HEIGHTS DR	Manhole	1.50	1,180	Eubanks	Grease.
10/6/2013	7:00 AM	E I 55 FRONTAGE	Manhole	1.00	25	Eubanks	Strainer on the bypass pump stopped up.
10/9/2013	11:05 AM	MANSHIP ST NORTH ST	Ground Surface (defective pipe underground)	0.42	20	Belhaven	Collapsed Pipe.
10/9/2013	1:46 PM	417 WINDSOR DR	Manhole	1.78	1,500	Lynch	Grease.
10/9/2013	3:45 PM	2402 POWERS AVE	Other	1.25	150	Town	Undetermined.
10/10/2013		OLD CANTON RD MEADOWBROOK ROAD	Ground Surface (defective pipe underground)		500	Eubanks	Grease.

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10/10/2013	11:15 AM	173 ELLIS AVE	Cleanout	0.92	9	Lynch	Grease. Roots.
10/11/2013	10:15 AM	5123 BROOKHOLLOW DR	Manhole	2.00	300	Trahan	Grease.
10/11/2013	1:00 PM	428 ARCHER AVE	Cleanout	0.67	15	Cany	Collapsed Pipe.
10/11/2013	3:50 PM	MEADOWBROOK ROAD OLD CANTON RD	Manhole	1.67	4,800	Eubanks	Grease.
10/12/2013	4:03 PM	434 WOODY DR	Manhole	1.28	50	Cany	Grease.
10/15/2013	1:30 PM	2024 BOLING ST	Cleanout	1.00	20	Bogue Chitto	Grease.
10/16/2013	10:30 AM	PETER ST WILLIAMSON AVE	Manhole	1.50	1,500	Town	Grease.
10/18/2013	9:40 AM	5133 GINGER DR	Cleanout	1.08	5	Lynch	Grease.
10/21/2013	2:10 PM	E I 55 FRONTAGE CULLEY DR	Manhole	1.42	4,480	Hanging Moss	Grease.
10/23/2013	8:45 AM	HEMINGWAY CIR MELOAN DR	Manhole	1.00	2,880	Lynch	Grease.
10/23/2013	1:50 PM	1253 WOOD VILLAGE DR	Manhole	1.67	1,180	Lynch	Grease.
10/23/2013	4:25 PM	962 MADISON ST	Ground Surface (defective pipe underground)	2.58	15	Belhaven	Solids.
10/24/2013	9:25 AM	5541 QUEEN ELIZABETH LANE	Manhole	1.17	1,380	Lynch	Grease.
10/27/2013	2:10 PM	302 LIVINGSTON ST	Other	0.58	80	Town	Grease.
10/28/2013	9:45 AM	2010 CHADWICK DR	Manhole	0.92	3,380	Cany	Grease.
10/28/2013	2:20 PM	3003 DOWNING ST E MITCHELL AVE	Manhole	0.33	1,320	Town	Grease.
10/28/2013	5:00 PM	5132 QUEEN ELEANOR LANE	Cleanout	0.83	500	Lynch	Grease. Solids.
10/29/2013	9:25 AM	FREEMONT ST BELVEDERE DR	Manhole	1.17	1,180	Hardy	Grease.
10/29/2013	11:20 AM	863 MONTEREY ST	Manhole	2.17	1,440	Three Mile	Grease.
10/31/2013	4:15 PM	2151 N MILL ST	Manhole	1.42	4,460	Town	Grease.
10/31/2013	6:10 PM	3638 CAVALIER DR	Manhole	0.58	5,540	Eubanks	Excessive Flow.
11/4/2013	8:45 AM	OAK FOREST DR	Manhole	2.50	4,360	Cany	Grease.
11/9/2013	9:50 AM	W CAPITOL ST PRINCETON ST	Manhole	1.02	1,380	Town	Grease.
11/11/2013	2:00 PM	KINDER DR	Cleanout	2.50	60	Purple	Grease. Roots.
11/13/2013	9:15 AM	131 GLENSTONE CIR	Manhole	2.50	3,380	Cany	Grease. Paper towels and rags.
11/13/2013	11:50 AM	5917 QUEEN MARY LANE	Manhole	1.75	1,380	Lynch	Grease.
11/13/2013	1:54 PM	1220 E NORTHSIDE DR	Manhole	1.10	1,430	Eastover	Grease.
11/15/2013	9:15 AM	NORTHSIDE DR	Manhole	0.83	400	Eubanks	Grease.
11/15/2013	11:10 AM	716 PENNSYLVANIA AVE	Manhole	1.17	1,380	Eubanks	Grease.
11/20/2013	8:40 AM	GLENWAY DR	Manhole	3.33	5,120	Eubanks	Grease. Roots.
11/20/2013	9:50 AM	350 SPANISH TR	Cleanout	2.00	1,180	Big Creek	Grease.
11/22/2013	11:15 AM	SMALLWOOD ST WOODY DR	Manhole	1.25	1,180	Cany	Grease.
11/24/2013	9:35 AM	3856 NOBLE ST	Manhole	1.17	3,340	Lynch	Grease.
11/25/2013	9:30 AM	DORGAN ST	Cleanout		50	Hardy	Rain water.
11/27/2013	4:00 PM	RUTLEDGE AVE MEDGAR EVERS BLVD	Manhole	1.08	20	Town	Grease. Solids.
11/27/2013	5:50 PM	3228 MEDGAR EVERS BLVD	Manhole	2.58	200	Town	Grease. Solids.
11/29/2013	10:45 AM	5449 WILLIAM DR	Cleanout	2.25	1,000	Lynch	Grease.

Table 1
City of Jackson, Mississippi
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Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
12/1/2013	9:20 PM	1651 FOREST AVE	Cleanout	0.92	250	Eubanks	Pump Station Failure.
12/5/2013	6:00 PM	1439 TERRY ROAD	Manhole	0.92	50	Lynch	Grease.
12/17/2013	10:40 AM	646 CHELSEA DR	Manhole	0.92	2,230	Cany	Grease.
12/17/2013	12:45 PM	CAMBRIDGE LANE	Manhole	1.92	3,380	Trahan	Grease. Roots.
12/17/2013	4:30 PM	710 POPLAR BLVD	Manhole	2.00	25	Belhaven	Grease. Solids.
12/17/2013	7:40 PM	4301 PATANN ST	Manhole	0.92	100	Bogue Chitto	Grease. Solids.
12/19/2013	1:25 AM	124 GLENSTONE CIR	Manhole	13.25	3,380	Cany	Grease.
12/29/2013	4:30 PM	404 ROBINSON ROAD	Cleanout	1.00	25	Eubanks	Solids.
1/2/2014	7:50 AM	1235 LYNCREST AVE	Cleanout	1.17	80	Belhaven	Collapsed Pipe.
1/2/2014	4:30 PM	848 NORTH ST	Manhole	0.92	50	Town	Grease. Solids.
1/3/2014	9:55 AM	3540 SUNSET DR	Manhole	0.00	500	Town	Grease.
1/3/2014	1:10 PM	3416 CARDINAL ST	Cleanout	0.42	150	Town	Grease.
1/3/2014	5:15 PM	1543 BURTON ST	Cleanout	1.25	100	Lynch	Grease.
1/7/2014	8:05 AM	408 FORTIFICATION ST JEFFERSON ST	Manhole	5.33	5,580	Belhaven	Grease.
1/12/2014	5:15 PM	3845 SLAYTON AVE	Cleanout	3.50	5	Town	Grease. Solids.
1/13/2014	12:15 PM	3524 EDMAR PL	Manhole	1.08	1,200	Eubanks	Excessive Flow.
1/14/2014	8:44 AM	3679 JAMES MONROE DR	Manhole	2.27		Bogue Chitto	Grease.
1/14/2014	11:37 AM	SCHOOLVIEW DR LIVINGSTON ROAD	Manhole	0.85	80	Eubanks	Grease.
1/15/2014	1:00 PM	117 FLAG CHAPEL CIR	Cleanout	1.00		Town	Grease. Roots.
1/16/2014	10:00 AM	3540 SUNSET DR	Manhole	1.00		Town	Grease. Solids.
1/17/2014	1:00 PM	105 ELCREST ST	Manhole	0.58	950	Lynch	Grease.
1/19/2014	10:00 AM	170 ELMWOOD PL	Manhole	5.00	800	Big Creek	Grease.
1/21/2014	8:30 AM	1119 PRIMROSE ST	Cleanout	0.75	200	Cany	Grease.
1/21/2014	2:35 PM	511 FOREST AVE	Manhole	0.58	580	Eubanks	Grease.
1/22/2014	10:25 AM	3823 LIVINGSTON ROAD	Manhole	0.00	750	Eubanks	Grease.
1/22/2014	5:00 PM	5723 HWY 18	Manhole	0.75	150	Cany	Solids.
1/23/2014	10:50 AM	1425 VALLEY ST	Manhole	3.67	7,210	Three Mile	Collapsed Pipe.
1/23/2014	6:15 PM	1451 BRINKLEY DR	Manhole	2.00	200	Eubanks	Solids.
1/24/2014	12:30 PM	3008 WOODVIEW DR	Cleanout	0.50	90	Cany	Grease.
1/26/2014	11:20 AM	1613 WESTHAVEN BLVD	Manhole	1.33	600	Lynch	Grease.
1/27/2014	1:30 PM	MEDGAR EVERS BLVD RUTLEDGE AVE	Manhole	1.00	750	Town	Grease.
1/29/2014	8:40 AM	2130 MCDOWELL ROAD	Manhole	1.08	600	Cany	Grease.
1/31/2014	11:20 AM	3316 REVELS AVE	Manhole	1.67	4,400	Town	Grease.
1/31/2014	3:45 PM	304 QUEEN MARY LANE	Manhole	1.25	1,180	Lynch	Grease.
1/31/2014	4:00 PM	952 REAVES ST	Manhole	0.33	600	Hardy	Grease.
2/2/2014	5:00 PM	3524 EDMAR PL	Manhole	0.33	1,000	Eubanks	Rain Water.
2/3/2014	10:50 AM	1150 FRONTAGE ROAD	Ground Surface (defective pipe underground)	1.50	1,800	Eubanks	Excessive Flow.
2/3/2014	1:25 PM	2002 WILLOW WAY	Cleanout	1.42	700	Three Mile	Grease.
2/4/2014	11:05 AM	5720 BROWNLEE DR	Manhole	0.48	850	Hanging Moss	Grease. Roots.
2/5/2014	1:50 PM	3434 BAILEY AVE	Manhole	0.58	850	Eubanks	Grease.
2/5/2014	2:30 PM	6343 LYNDON B JOHNSON DR	Manhole	0.50	90	Bogue Chitto	Grease.
2/6/2014	10:05 AM	350 W WOODROW WILSON AVE	Other	2.00	1,200	Town	Grease.
2/7/2014	9:45 AM	848 NORTH ST	Manhole	1.25	80	Town	Grease.
2/7/2014	1:30 PM	3019 LAKEWOOD CV DR	Manhole	1.50	900	Cany	Grease.
2/8/2014	9:00 AM	4882 HWY 18	Manhole	2.00	1,200	Cany	Grease.
2/8/2014	7:15 PM	2151 MILL ST	Manhole	5.00	500	Town	broken water main.

Table 1
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
2/9/2014	1:15 PM	1135 GRAND AVE	Cleanout	1.00	300	Town	Grease.
2/10/2014	12:05 PM	691 TIFTON DR	Manhole	1.67	100	Cany	Grease. Solids.
2/10/2014	1:55 PM	3267 BIENVILLE DR	Cleanout	0.83	3	Cany	Solids.
2/10/2014	10:45 PM	3234 WASHINGTON ST	Other	1.00	50	Lynch	Grease.
2/11/2014	8:45 AM	3320 LAKELAND TER	Cleanout	4.00	5,560	Eubanks	Grease. Rags and grease.
2/11/2014	1:45 PM	3077 WOODSIDE DR	Cleanout	0.92	2,280	Cany	Grease.
2/12/2014	9:35 AM	937-6177 CRAFT ST BURCH ST	Manhole	0.83	100	Lynch	Grease.
2/12/2014	11:15 AM	2148 RIVERSIDE DR	Constructed Bypass	1.25	1,800	Belhaven	Constructed Bypass.
2/12/2014	2:50 PM	SAVANNA AVE EDDY ST	Manhole	0.67		Cany	Grease.
2/13/2014	8:25 AM	5363 QUEEN CHRISTINA LANE	Manhole	1.25	3,350	Lynch	Grease.
2/13/2014	11:55 AM	200 REBEL WOODS	Manhole	0.83	1,180	Cany	Grease.
2/14/2014	11:50 AM	2554 CRESTLEIGH MANOR	Manhole	1.83	2,280	Cany	Grease.
2/21/2014	9:15 PM	2655 BELVEDERE DR	Manhole	0.17	2,230	Hardy	Grease.
2/14/2014	1:35 PM	EDDY ST SAVANNA AVE	Manhole	0.92	1,800	Cany	Grease.
2/18/2014	12:05 PM	346 ELTON ROAD	Manhole	3.42	3,380	Cany	Grease.
2/19/2014	10:15 PM	334 TERRY ROAD	Sewer Stub-out	0.75	100	Hardy	Grease.
2/19/2014	11:10 AM	4921 WOODMONT DR	Storm Drain	1.33	625	Eubanks	Grease.
2/19/2014	1:25 PM	3312 JAYNE AVE	Cleanout	1.92	1,800	Hardy	Grease.
2/19/2014	2:30 PM	350 WOODROW WILSON AVE	Grease Trap	0.50	2,200	Town	Grease.
2/21/2014	9:15 PM	2655 BELVEDERE DR	Manhole	0.17	2,230	Hardy	Grease.
2/22/2014	8:00 AM	SAGAMORE ST DANIELS ST	Manhole	1.00	1,280	Lynch	Grease.
2/24/2014	11:50 AM	REBEL WOODS TERRY ROAD	Manhole	0.92	2,240	Hardy	Grease.
2/25/2014	7:45 AM	ROBINSON ROAD TERRY ROAD	Manhole	1.08	1,280	Hardy	Grease.
2/25/2014	11:50 AM	2969 UNIVERSITY DR	Manhole	2.67	3,380	Eubanks	Grease. Roots.
2/26/2014	7:45 AM	1221 BLAIR ST	Cleanout	3.25	5,580	Town	Grease.
2/27/2014	9:45 AM	3200 MEDGAR EVERS BLVD	Manhole	2.75	2,280	Town	Grease.
2/28/2014	11:15 AM	2027 CAMELLIA LANE	Manhole	1.25	3,380	Three Mile	Grease. Roots.
2/28/2014	1:00 PM	FORTIFICATION ST COHEA ST	Manhole	1.50	2,840	Town	Grease. Solids.

Figure 1: Collection System SSOs by Cause

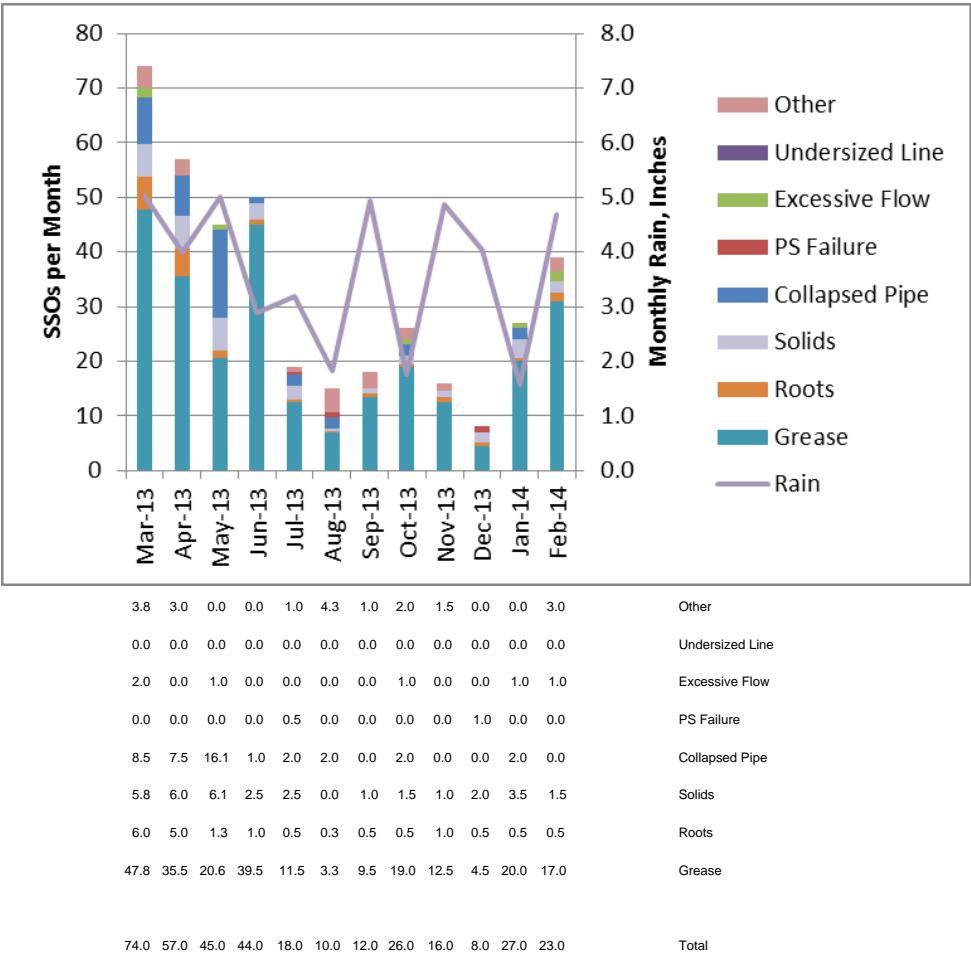


Figure 2: Percentage of Collection System SSOs by Cause

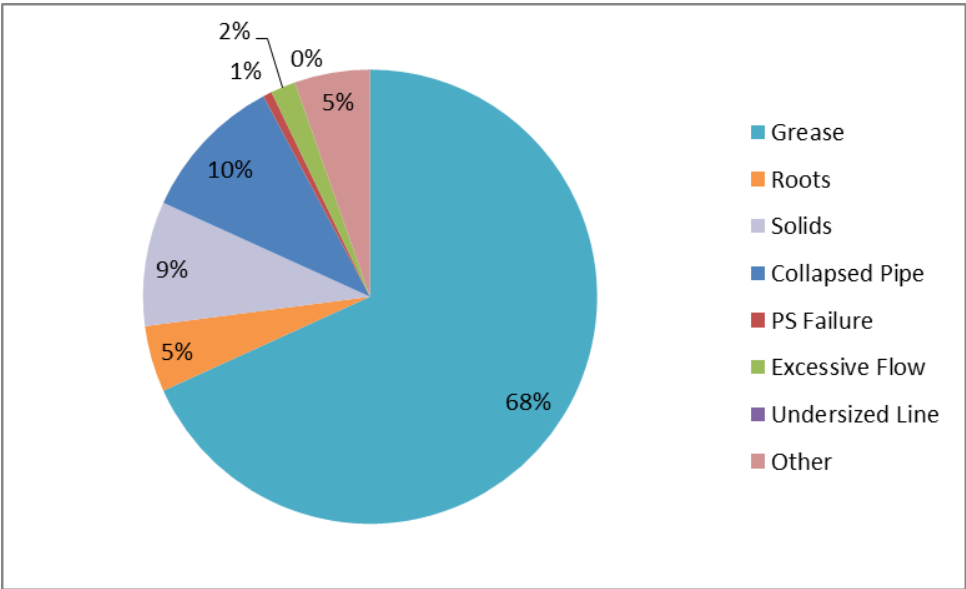


Figure 3: Collection System SSO Volume

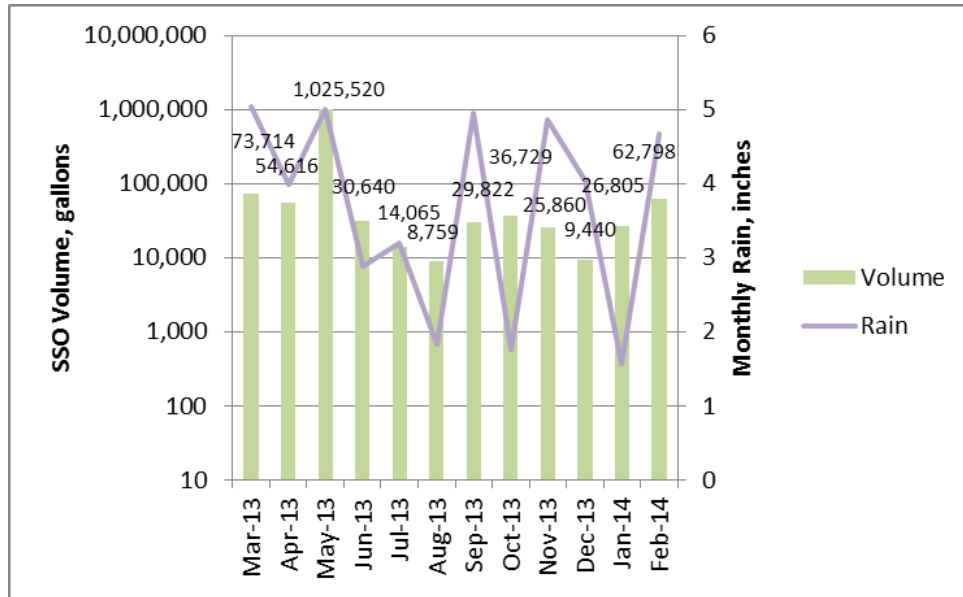
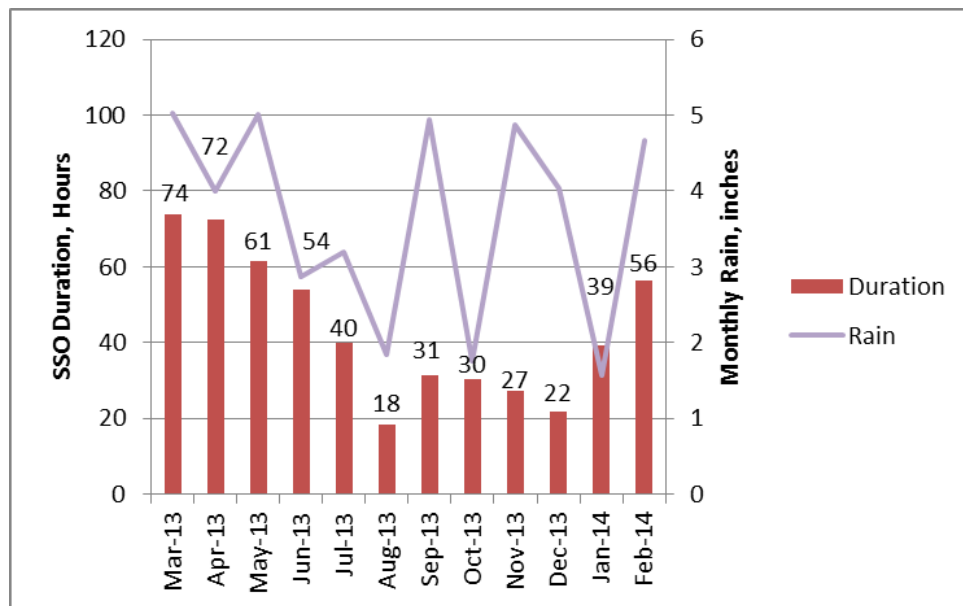


Figure 4: Collection System SSO Duration



3.2 West Bank Interceptor SSOs

Table 2 lists the recorded SSOs in the West Bank Interceptor for March 2013 through February 2014.

Figure 5 shows SSO events each month by reported cause, as well as by monthly rainfall. **Figure 6** shows percentages of collection system SSOs for the year by cause. Note that nearly three-fourths of the SSOs were caused by excessive flow. Most of these occurred at one low spot in the WBI.

Figure 7 shows total volume of SSOs for each month, along with rainfall. Because of the large variations in volume, these are plotted on a logarithmic scale. **Figure 8** shows total duration of SSOs for each month, and monthly rainfall.

It should be noted that there does not appear to be a correlation between rainfall and the number, volume, for duration of SSOs.

Table 2
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
West Bank Interceptor SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/1/2013	12:00 AM	408 S JEFFERSON ST	Manhole	7.25		Pearl	
3/11/2013	3:15 AM	408 S JEFFERSON ST	Manhole			Pearl	
3/11/2013	9:10 AM	408 S JEFFERSON ST	Manhole	0.42	150	Pearl	Grease.
3/11/2013	10:46 PM	408 S JEFFERSON ST	Manhole	0.23		Pearl	Pearl River is up.
4/11/2013		408 S JEFFERSON ST	Manhole		700	Pearl	Pearl River is up.
4/11/2013	11:52 AM	408 S JEFFERSON ST	Manhole	0.38		Pearl	Excessive Flow.
5/2/2013	12:53 PM	408 S JEFFERSON ST	Manhole	0.95		Pearl	Excessive Flow.
5/2/2013	5:52 PM	408 S JEFFERSON ST	Manhole		3,000	Pearl	Excessive Flow.
5/3/2013	7:45 AM	408 S JEFFERSON ST	Manhole	0.50	860	Pearl	Excessive Flow.
5/3/2013	10:40 PM	408 S JEFFERSON ST	Manhole	0.33		Pearl	Excessive Flow.
5/5/2013	8:52 AM	408 S JEFFERSON ST	Manhole	0.25		Pearl	Excessive Flow.
5/6/2013	9:00 AM	408 S JEFFERSON ST	Manhole	0.25		Pearl	Excessive Flow.
5/6/2013	6:30 PM	408 S JEFFERSON ST	Manhole	0.08	950	Pearl	Excessive Flow.
5/7/2013	9:21 AM	408 S JEFFERSON ST	Manhole	0.60	4,500	Pearl	Excessive Flow.
5/8/2013	9:20 AM	408 S JEFFERSON ST	Manhole	0.37	5,000	Pearl	Excessive Flow.
5/9/2013	8:55 AM	408 S JEFFERSON ST	Manhole	0.97	5,000	Pearl	Excessive Flow.
5/9/2013	9:00 PM	408 S JEFFERSON ST	Manhole	3.00	2,500	Pearl	Excessive Flow.
5/10/2013	12:00 AM	408 S JEFFERSON ST	Manhole		85,000	Pearl	Excessive Flow.
7/27/2013	12:36 PM	2520 S GALLATIN ST	Manhole	11.05		Pearl	I & I from creek North of the manhole.
11/1/2013	9:45 AM	1200 LAKE LAND DR	Manhole	21.25	1,000,000	Pearl	Excessive Flow.
11/22/2013	1:50 PM	408 S JEFFERSON ST	Manhole	0.33	5,500	Pearl	Excessive Flow.
11/26/2013	9:15 AM	408 S JEFFERSON ST	Manhole	0.75	5,580	Pearl	Excessive Flow due to heavy rain.
1/16/2014	5:55 AM	408 S. JEFFERSON ST	Manhole		7,200,000	Pearl	River up (Pearl River).

Figure 5: West Bank Interceptor SSOs by Cause

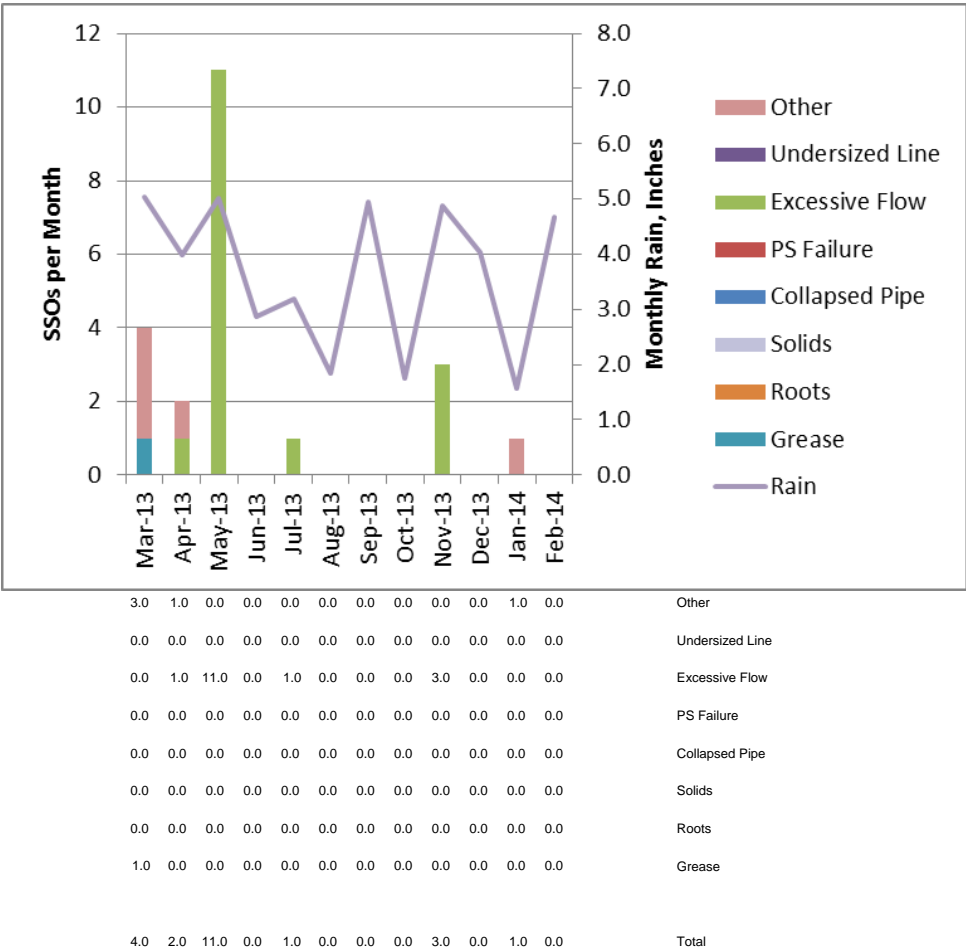


Figure 6: Percentage of WBI SSOs by Cause

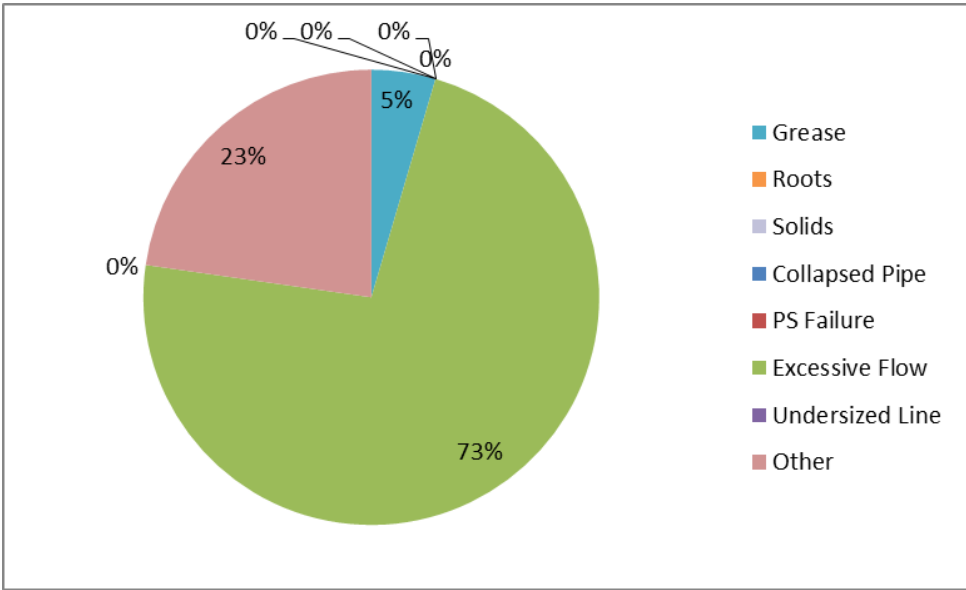


Figure 7: West Bank Interceptor SSO Volume

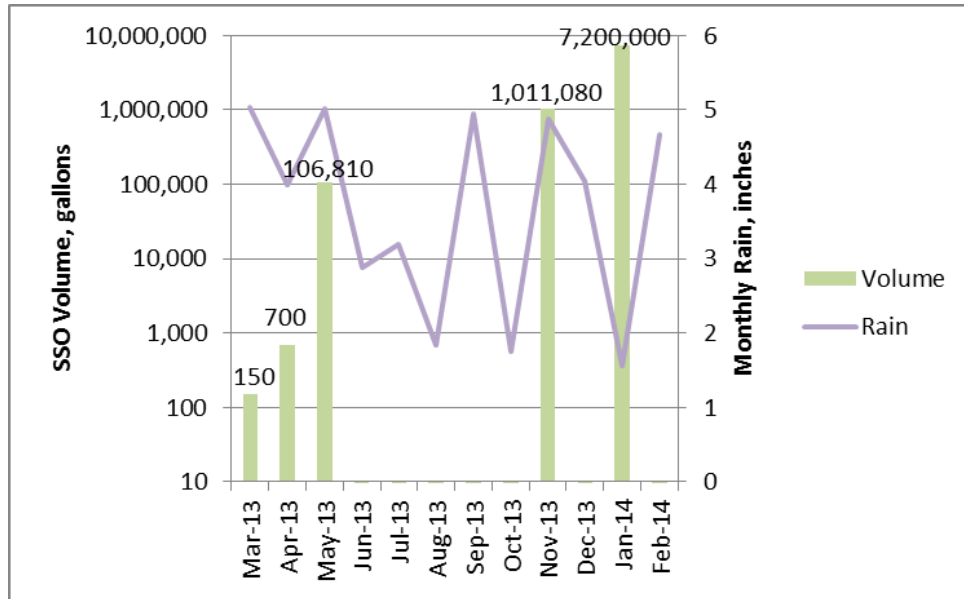
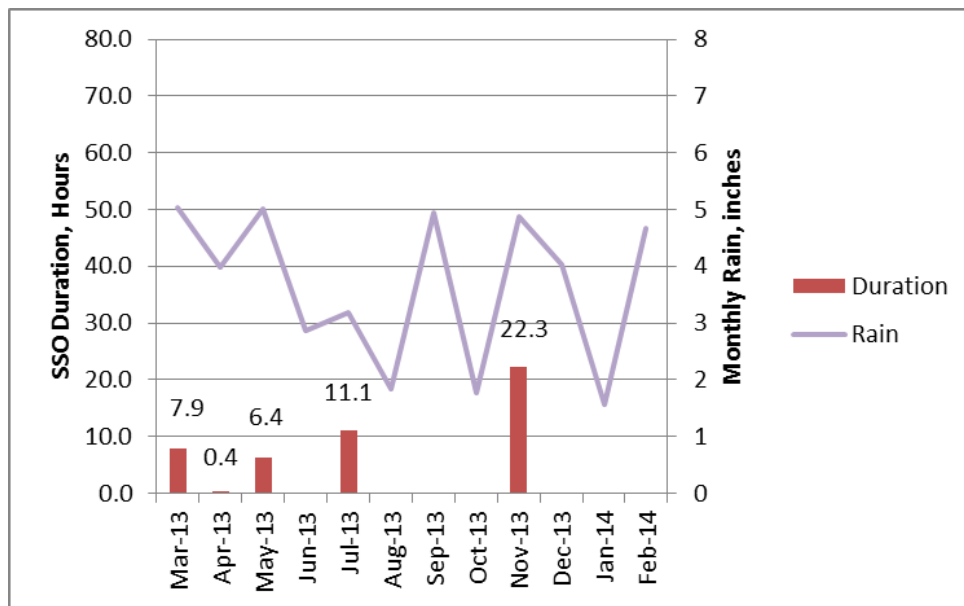


Figure 8: West Bank Interceptor SSO Duration



3.3 Pump Station SSOs

Table 3 lists pump station SSOs for the year.

Figure 9 shows pump station SSO events by month by reported cause, as listed above, as well as monthly rainfall. As above, multiple causes were assigned fractional values, adding up to a total of one cause for each event. **Figure 10** shows percentage of SSOs by cause for the year. Note that 57 percent of the pump station SSOs were caused by excessive flow. However, there does not appear to be a correlation with monthly rainfall. The second leading cause was pump station failure, at 36 percent.

Figure 11 logarithmically plots total volume of pump station SSOs for each month, along with monthly rainfall. **Figure 12** shows total duration of pump station SSOs for each month. It appears that there may be a slight correlation between rainfall and total monthly duration.

Table 3
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Pump Station SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/26/2013	7:00 PM	6510 OLD CANTON RD COUNTY LINE ROAD	Pump Station	0.50	8,000	Pearl	Pump Station Failure. Hose from temporary bypass pump became detached.
4/7/2013	6:00 AM	4660 MCRAVEN RD	Pump Station	3.50	1,500	Lynch	Pump Station Failure.
4/11/2013	11:30 AM	4210 CHURCH CIR	Manhole	6.50	200,000	Lynch	Pump Station Failure.
4/11/2013	11:45 AM	4914 US HWY 80	Pump Station	0.75	300	Lynch	Pump Station Failure. Excessive Flow.
4/14/2013	7:30 AM	4210 CHURCH CIR	Manhole	5.00	10,000	Lynch	Excessive Flow.
4/19/2013	12:15 AM	4210 CHURCH CIR	Manhole	4.00	100,000	Lynch	Pump Station Failure. Excessive Flow.
4/25/2013	11:00 AM	1465 SHORT AVE	Manhole	7.50	5,000	Big Creek	Pump Station Failure.
5/1/2013	2:30 PM	4210 CHURCH CIR	Pump Station	7.00	70,000	Lynch	Pump Station Failure. Excessive Flow.
5/2/2013	6:30 AM	4210 CHURCH CIR	Pump Station	6.50	65,000	Lynch	Pump Station Failure. Excessive Flow.
5/3/2013	7:30 AM	4210 CHURCH CIR	Pump Station	11.50	115,000	Lynch	Pump Station Failure. Excessive Flow.
5/10/2013	3:00 AM	4210 CHURCH CIR	Manhole	1.00	125,000	Lynch	Pump Station Failure. Excessive Flow.
6/9/2013	6:30 PM	4210 CHURCH CIR	Manhole	4.00	50,000	Lynch	Excessive Flow. Same rain event caused multiple SSO's in same location.
7/19/2013	8:30 AM	6510 OLD CANTON RD COUNTY LINE ROAD	Pump Station	0.75	700	Purple	Pump Station Failure. Hose from temporary pump ruptured, causing spill.
7/27/2013	6:30 AM	4210 CHURCH CIR	Manhole	1.50	2,000	Lynch	Pump Station Failure. Excessive Flow.
8/6/2013	12:23 AM	7004 FRANKLIN D ROOSEVELT DR	Manhole	7.12	5,000	Bogue Chitto	Pump Station Failure. Power failure at lagoon.
9/4/2013	7:00 AM	342 AMANDA LN	Pump Station	8.00	75	Trahan	Pump Station Failure.
9/21/2013	1:00 AM	4210 CHURCH CIR	Manhole	3.00	2,500	Lynch	Excessive Flow.
9/21/2013	2:00 PM	2108 RAYMOND ROAD	Manhole	1.50	600	Hardy	Solids. Excessive Flow.
9/24/2013	11:23 AM	2694 MOORE DR	Manhole	1.62	250	Cany	Pump Station Failure. Excessive Flow.
9/24/2013	12:30 PM	4210 CHURCH CIR	Manhole	1.50	2,000	Lynch	Excessive Flow.
9/24/2013	2:00 PM	1914 US HWY 80	Manhole	1.25	300	Lynch	Pump Station Failure. Excessive Flow.
10/31/2013	2:45 PM	1452 COUNTRY CLUB DR	Pump Station	5.25	20,000	Bogue Chitto	Pump Station Failure. Excessive Flow.
10/31/2013	3:40 PM	4210 CHURCH CIR	Manhole	2.83	60,000	Lynch	Excessive Flow.
11/22/2013	10:00 AM	4210 CHURCH CIR	Pump Station	14.00	4,000	Lynch	Excessive Flow.
11/23/2013	12:00 AM	4210 CHURCH CIR	Pump Station	12.00	4,000	Lynch	Excessive Flow.

Figure 9: Pump Station SSOs by Cause

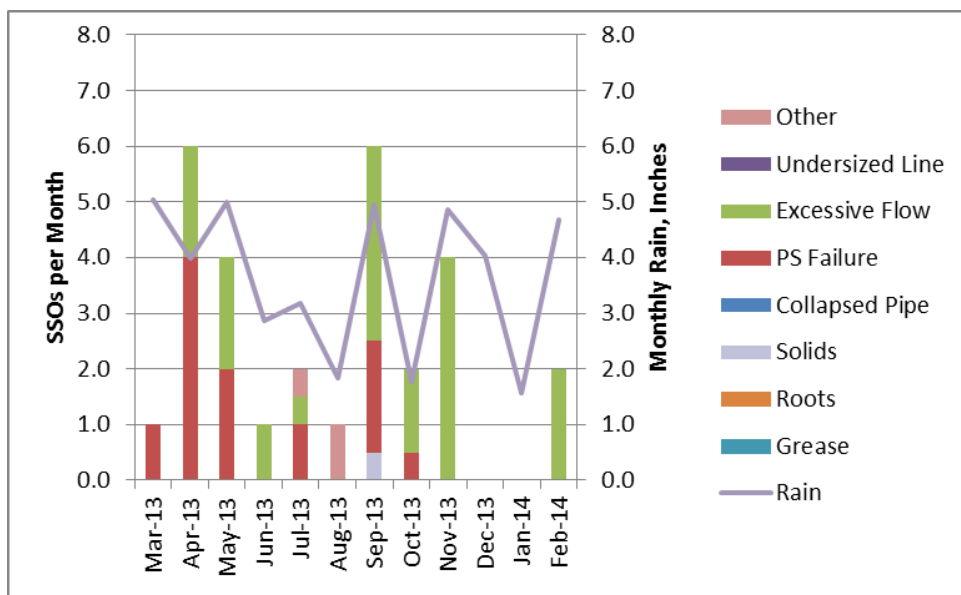
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Figure 10: Percentage of PS SSOs by Cause

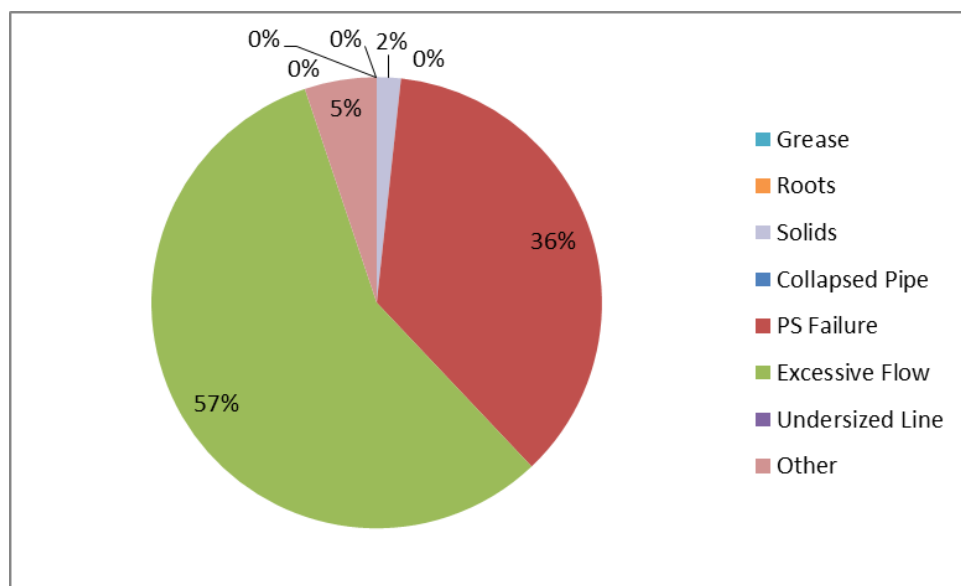


Figure 11: Pump Station SSO Volume

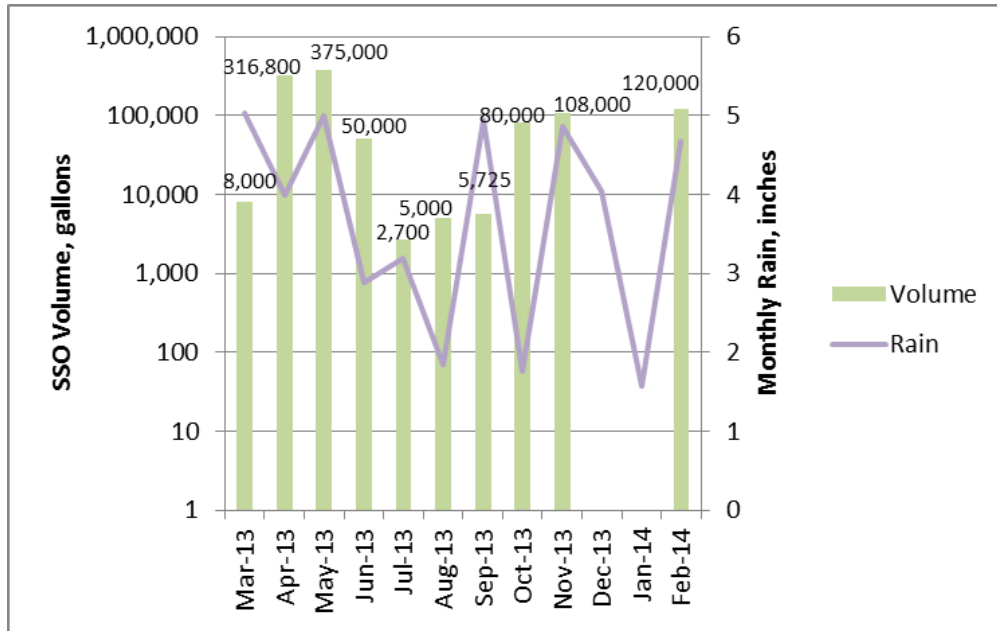
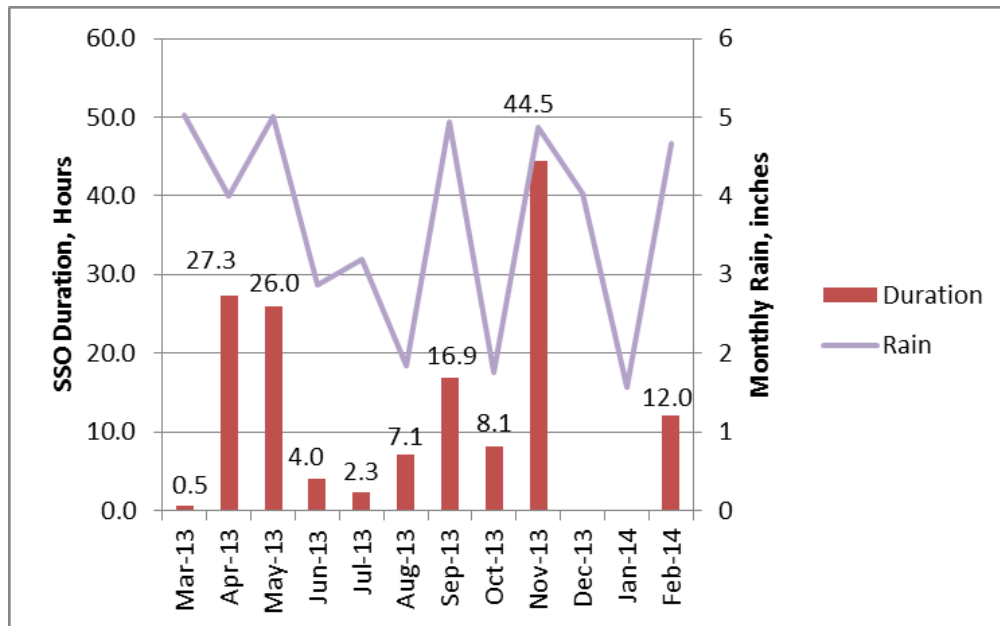


Figure 12: Pump Station SSO Duration



3.4 Prohibited Bypasses

Table 4 lists prohibited bypasses at the wastewater treatment plants for the year. Unlike SSOs' each event is considered as one bypass from the day it starts to the day it ends. Only the Savanna Street plant had prohibited bypasses.

Figure 13 shows prohibited bypass events by month by reported cause, as listed above, as well as monthly rainfall. **Figure 14** shows annual percentage by reported cause. 68 percent of the prohibited bypasses were attributed to excessive flow.

Figure 15 shows total volume of prohibited bypasses for each month plotted logarithmically, along with monthly rainfall. **Figure 16** shows total duration for the month. Note that duration of prohibited bypasses is plotted in days.

For prohibited bypasses, there appears to be a correlation between rainfall and number of events volume, and duration.

Table 4
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Prohibited Bypasses

Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Receiving Water	Reported Cause
02/10/13		Savanna St WWTP	WWTP	23	1,304.08	Pearl	Excessive Flow.
03/11/13		Savanna St WWTP	WWTP	10	119.26	Pearl	Influent flow in excess of mechanical plant's capacity.
03/22/13		Savanna St WWTP	WWTP	4	27.60	Pearl	Influent flow in excess of mechanical plant's capacity.
04/03/13		Savanna St WWTP	WWTP	2	15.65	Pearl	Influent flow in excess of mechanical plant's capacity.
04/11/13		Savanna St WWTP	WWTP	1	0.17	Pearl	Seepage from construction activity.
05/03/13		Savanna St WWTP	WWTP	11	361.91	Pearl	Influent flow in excess of mechanical plant's capacity.
09/21/13	1:00 PM	Savanna St WWTP	WWTP	4	44.70	Pearl	Heavy rain caused influent flow in excess of mechanical plant's capacity.
10/28/13		Savanna St WWTP	WWTP	9	71.54	Pearl	Influent pump station failure.
11/07/13		Savanna St WWTP	WWTP	4	23.84	Pearl	Influent pump station failure.
11/22/13		Savanna St WWTP	WWTP	8	290.85	Pearl	Influent pump station failure.
12/09/13		Savanna St WWTP	WWTP	1	21.12	Pearl	Heavy rainfall caused influent flows in excess of the mechanical plant's capacity and there was limited freeboard in the storm cells.
12/11/13		Savanna St WWTP	WWTP	2	11.94	Pearl	Excess influent flow.
12/14/13		Savanna St WWTP	WWTP	1	7.53	Pearl	Heavy rainfall caused a sudden surge in influent flows in excess of the mechanical plant's capacity and there was limited freeboard in the storm cells.
12/21/13		Savanna St WWTP	WWTP	3	56.24	Pearl	Excess influent flow.
12/28/13	9:00 PM	Savanna St WWTP	WWTP	4	65.27	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
01/01/14	4:47 PM	Savanna St WWTP	WWTP	3	16.90	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
01/11/14	11:30 AM	Savanna St WWTP	WWTP	7	80.00	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.

Table 4
City of Jackson, Mississippi
Annual Report No. 1 - March 2013 through February 2014
Prohibited Bypasses

Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Receiving Water	Reported Cause
01/19/14	10:30 PM	Savanna St WWTP	WWTP	5	35.59	Pearl	Two of the temporary pumps used to pump around the influent pump station failed. The remaining pumps could not keep up with the influent flow. The bypass pumps were then turned on to avoid flooding the plant and to reduce SSOs at the Entergy manhole and at the fairgrounds.
01/27/14	9:16 AM	Savanna St WWTP	WWTP	1	10.95	Pearl	UW personnel were instructed by CO personnel to reduce the level in the storm cells to accommodate the dredging operation, and to reduce the SSPs at the Entergy manhole and at the fairgrounds. The sluice gate at cell #3 was opened. When the desired level was reached in the lagoons, the gate was closed.
02/02/14	3:35 PM	Savanna St WWTP	WWTP	8	43.73	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
02/10/14	7:00 AM	Savanna St WWTP	WWTP	4	58.81	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
02/14/14	12:56 PM	Savanna St WWTP	WWTP	4	7.16	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
02/20/14	11:30 PM	Savanna St WWTP	WWTP	3	90.93	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
02/28/14	8:20 AM	Savanna St WWTP	WWTP	1	10.75	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.

Figure 15: Prohibited Bypass Volume

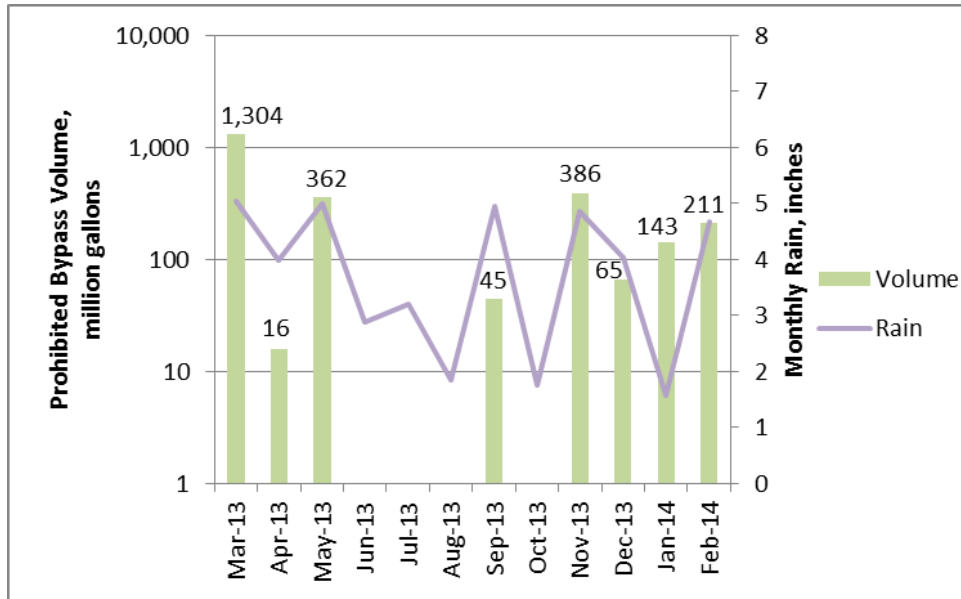


Figure 16: Prohibited Bypass Duration

