



CONSENT DECREE YEAR ONE
MAY 13, 2014 to MAY 12, 2015
ANNUAL REPORT

JULY 10, 2015





CERTIFICATION

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 and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A handwritten signature in blue ink, appearing to read "Autumn Permenter".

7/8/2015

Autumn Permenter, P. E.
Assistant City Engineer
City of Shreveport



TABLE OF CONTENTS

CERTIFICATION	2
EXECUTIVE SUMMARY – CONSENT DECREE YEAR ONE	4
CONSENT DECREE YEAR ONE (May 13, 2014 – May 12, 2015)	5
CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE (CMOM) PLAN	7
SANITARY SEWER OVERFLOW (SSO) ANALYSIS	8
SANITARY SEWER ASSESSMENT (SSA) PHASE 1	10
THE YEAR AHEAD – CONSENT DECREE YEAR TWO (May 13, 2015 – May 12, 2016)	16

ATTACHMENTS

ATTACHMENT 1 –	PUBLIC DOCUMENT REPOSITORY (PDR)
	DOCUMENTS ON WEBSITE www.cleanwatershreveport.com
ATTACHMENT 2 –	CONSENT DECREE DOCUMENT TRANSMITTAL LOG
ATTACHMENT 3 –	SANITARY SEWER OVERFLOWS CD YEAR ZERO (05/13/13 – 05/12/14)
	SANITARY SEWER OVERFLOWS CD YEAR ONE (05/13/14 – 05/13/15)
ATTACHMENT 4 –	SANITARY SEWER ASSESSMENT PHASE 1 QUANTITIES
ATTACHMENT 5 –	REMEDATION MEASURES PLAN PHASE 1 PROJECT SCHEDULES



EXECUTIVE SUMMARY – CONSENT DECREE YEAR ONE

May 13, 2014 to May 12, 2015

The City of Shreveport began working to meet requirements of the Consent Decree in 2010 before negotiations were finalized and the official Consent Decree document was fully executed and filed establishing the Effective Date of May 13, 2014.

Some examples of these early activities are:

- 1) Shreveport conducted two rounds of flow monitoring,
- 2) Shreveport conducted an Affordability Study and a Revenue Sufficiency Study,
- 3) Shreveport increased user rates to fund Consent Decree program, and
- 4) Shreveport began a portion of the Sanitary Sewer Assessment, Phase 1.

There are several first year deadlines contained in the Consent Decree and the City of Shreveport has met each one of the required deadlines, often ahead of schedule.

The City has staff, funding and consultants in place to enable it to meet specific deadlines in the second year of the Consent Decree.

The City has created a website – www.cleanwatershreveport.com – which contains extensive information concerning the Consent Decree program as well as other Water and Sewer capital improvements. This site includes project schedules and the location of active construction projects. The website also contains the documents which are part of the Public Document Repository (PDR). Citizens can access PDR documents without having to travel to City Hall. A listing of documents on the website and a screen shot of the document page of the website are included in Attachment 1.



CONSENT DECREE YEAR ONE (May 13, 2014 to May 12, 2015)

Early Activities

The City of Shreveport (City) began working to meet requirements of the Consent Decree even before negotiations were finalized and the official Consent Decree document was fully executed and filed establishing the Effective Date of May 13, 2014.

Some examples of these early activities are 1) conducting two rounds of flow monitoring, 2) preparing a Affordability Study and Revenue Sufficiency Study, 3) increasing user rates to fund Consent Decree required activities, and 4) beginning a portion of the Sanitary Sewer Assessment, Phase 1.

Year One Activities

There are several first year deadlines contained in the Consent Decree and the City of Shreveport has met each of these deadlines. Shown below are the specific first year deadlines.

- 1) City shall pay Civil Penalty to United States Department of Justice (USDOJ) and Louisiana Department of Environmental Quality (LDEQ) within 30 days. *The Civil Penalty was paid to both parties within the 30 day period allowed.*
- 2) City shall distribute a copy of the Consent Decree to all officers, employees and agents, as well as contractors within 30 days. *The distribution was completed within the 30 day deadline and a copy of the distribution list is included in Attachment 2. The Consent Decree document was also posted on the Shreveport website.*
- 3) City shall establish a Root Control Program with 180 days of Effective Date. *Shreveport has had an annual contract for root control in place for a number of years. This annual contract is renewed every year.*
- 4) City shall complete Sanitary Sewer Assessment (SSA), Phase 1 within 12 months. *Phase 1 activities were completed by the May 12, 2015 deadline. A preliminary SSA Phase 1 Report was submitted to Environmental Protection Agency (EPA) April 22, 2015. The preliminary report included information on the 99+% of the Phase 1 activities which had been completed. There were minor instances where physical constraints did not allow completion of the inspection requirements of the SSA. These instances are listed in the section detailing work performed during SSA Phase 1. All manholes and gravity sewer lines which could not be inspected will be replaced as a part of the construction activities required during implementation of the Phase 1 Remediation Measures Plan (RMP).*



- 5) City shall develop a computerized hydraulic model of Wastewater Collection and Transmission System [WCTS]. Calibrate and verify hydraulic model within 12 months of the Effective Date. *The Hydraulic Model was completed and calibrated within the deadline. A Hydraulic Model Report was submitted to EPA April 22, 2015.*
- 6) City shall review and certify that the model accurately assesses the WCTS. *City certification was included in the Hydraulic Model Report submitted to EPA April 22, 2015.*
- 7) City shall develop a Capacity, Management, Operation, and Maintenance [CMOM] Plan within 1 year of Effective Date. *CMOM Plan was submitted to EPA April 22, 2015.*
- 8) City shall review and certify CMOM Plan within 12 months of the Effective Date. *City certification was included in the CMOM Plan document that was submitted to EPA April 22, 2015.*

Aside from a very limited number of locations where inspection was prevented by physical constraints in the field, the City of Shreveport met the deadlines of Consent Decree year one and has the staff, funding, and consultants in place to meet Consent Decree year two and future deadlines.



CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE [CMOM] PLAN

The Consent Decree required that Shreveport prepare and certify a CMOM Plan within 12 months of the Effective Date of the Consent Decree. The certified CMOM Plan was submitted to EPA April 22, 2015. As reflected in the previously submitted CMOM Plan, all procedures and programs required in Section 51 of the Consent Decree have been implemented.

Shreveport had in place some elements of the CMOM Plan, including an extensive and effective Fats, Oils, and Grease (FOG) Program. The City is procuring equipment and hiring staff to augment enforcement of the FOG Program

Standard Operating Procedures [SOPs] were reviewed and updated, and needed SOPs were created and vetted. All SOPs that existed were reviewed with department personnel to determine if the SOP accurately described current operational practices. In most cases the SOPs were created some years ago and operations had changed. These SOPs were modified to reflect current operational practices.

Many of the existing SOPs had been created to address a particular problem that had occurred. After a thorough evaluation of SOPs and discussions with operational personnel, new SOPs were drafted to provide a more complete set of SOPs. Procedures were set in place to review SOPs on an annual basis and to modify them as necessary and add additional SOPs as required.

A SSO Response Plan has been revised and is being implemented as revised.

The requirement that 15% of the WCTS gravity sewer pipe lines be cleaned annually was met through the activities of City crews and the contractor performing the SSA field work. 925,350 feet of the WCTS gravity sewer lines were cleaned and this represents approximately 17.5% of the WCTS gravity sewer lines.

Future Annual Reports will include a description of the implementation of the CMOM Plan and any modifications that are made to the CMOM Plan due to improvements and operational changes.



SANITARY SEWER OVERFLOW (SSO) ANALYSIS

The Consent Decree requires an analysis of Sanitary Sewer Overflows (SSO) for a 24 month rolling period. Because we are at the end of Consent Decree year one (May 13, 2014 to May 12, 2015), the first 12 months of data is derived from the prior 12 month period - Consent Decree year zero (May 13, 2013 to May 12, 2014). Tables of data from both of the 12 month periods are included in Attachment 3.

In the 12 month period prior to the Effective Date of the Consent Decree there were a total of 226 SSOs recorded. In the 12 month period after the Effective Date of the Consent Decree there were 180 SSOs recorded.

These numbers reflect a 20 percent reduction in SSOs, but should not be interpreted as an indicator or SSO reductions based on Consent Decree activities. Year one was a period of studies and inspections, but included few activities that would reduce the number of SSOs. One exception was the identification of a constructed overflow in the collection system. There were also instances of the SSA contractor identifying locations of collapsed pipe or open manholes which were reported as emergency repairs. These activities were not numerous enough to result in a significant reduction of SSOs. There are numerous factors which affect the number of SSOs in the collection system, including something as basic as the amount of rainfall.

Lack of standardization in historical reporting of SSOs handicaps the analysis of SSO data. The City is implementing procedures to standardize SSO reporting.

The 226 SSOs in the 12 month period prior to the Effective Date of the Consent Decree resulted in 422,500 gallons recovered and 1,270,900 gallons lost. It is important to note that 920,000 gallons were lost as the result of a single SSO when the Agurs Lift Station failed.

The 180 SSOs in the 12 month period after the Effective Date of the Consent Decree resulted in 159,000 gallons recovered and 200,500 gallons lost.

Once again it is difficult to draw any conclusions based on the data reported above.

During development of the CMOM Plan, the SSO Response Plan was reviewed and improved and has been implemented with the submittal of the CMOM Program to EPA. The improved SSO Response Plan will result in more consistent reporting of SSOs and associated data.

The table which follows breaks down the SSO numbers by cause of the SSO. Some interpretation of the data was required due to inconsistent historical reporting of SSOs. Use of the improved SSO Response Plan will provide more consistent data and allow more rigorous analysis of the data.



During the development of the CMOM Plan, an analysis of SSO data from the period 2004 to 2012 was prepared. The results of this analysis containing SSO cause is included in the table below.

SANITARY SEWER OVERFLOWS (SSOs) by Cause						
	Consent Decree Year 0		Consent Decree Year 1		Calendar Years 2004 - 2012	
Total SSOs	226		180		1279 (9 year period)	
SSOs by CAUSE	Number	Percent	Number	Percent	Number	Percent
Gravity Sewer Mains & Manholes:						
Blockage or Debris in Gravity Main	129	57%	90	50%	755	59%
Blockage or Debris in Manhole	6	3%	8	4%	29	2%
Infiltration & Inflow	35	15%	26	14%	211	16%
Broken Gravity Main	31	14%	20	11%	53	4%
Structural Deterioration	2	1%	0	0%	10	1%
Subtotal	203	90%	144	80%	1058	82.7%
Lift Stations:						
Lift Station Down	13	6%	18	10%	137	11%
Broken FM	6	3%	4	2%	43	3%
Faulty Air Release Valve [ARV]	1	0%	1	1%	16	1%
Faulty Equipment	0	0%	0	0%	17	1%
Subtotal	20	9%	23	13%	213	16.7%
Miscellaneous:						
Customer Responsible					1	0%
Unknown	3	1%	13	7%	7	0.6%
Subtotal	3	1%	13	7%	8	0.6%
TOTALS	226	100%	180	100%	1279	100%

One obvious conclusion from the data above is that debris and blockages are a significant cause of SSOs. Shreveport is in the process of purchasing additional equipment to clean sewer mains as well as clear blockages. It is also hiring additional personnel to operate this equipment. The City is also increasing training on the correct way to clean sewer mains including removing the debris rather than simply washing the materials through the pipes. In addition, the City is adding staff and resources for its FOG program which will improve its ability track and reduce grease related SSOs. Shreveport is collecting data on city-caused building/private property backups and this data will be included in future analyses. For the reasons stated above, there would not been a statistically significant change in the number of backups in year one.



SEWER SYSTEM ASSESSMENT PHASE 1

The deadline for completion of Sanitary Sewer Assessment [SSA] Phase 1 was 12 months after the Effective Date of the Consent Decree. In order to get a head start toward completion of this work, the City used available funding to begin a portion of the work starting in November of 2012. The initial scope of this contract was limited by funding. After the City Council approved a rate increase in late 2013 to fund work required by the Consent Decree, the City amended the SSA contract to include the remaining work in Phase 1 (Cedar Grove basin). Work on both elements of the contract was completed by the deadline of May 12, 2015.

Work completed during Sanitary Sewer Assessment Phase 1 included:

2390 Manhole Inspections

990,541 Linear Feet of Smoke Testing.

868,926 Linear Feet of CCTV Inspection

885,851 Linear Feet of Gravity Sewer Line Cleaning

The Tables included in Attachment 4 provide details of the work performed.

The materials of construction and age of elements which compose the gravity sewer system in the Cedar Grove basin influenced the decision to CCTV inspect 100% of the Cedar Grove WCTS where field conditions allowed CCTV inspection. There were issues which affected the SSA field investigations and prevented inspection of a very limited number of WCTS elements. There are many dead-end gravity sewer mains in the Shreveport WCTS. There is no manhole or lamphole at the dead end of these gravity sewer lines. When the CCTV crews encountered a pipe joint displacement or protruding service lateral connection, the condition prevented complete CCTV inspection of the dead-end gravity sewer lines. The absence of a manhole at the upstream end of the gravity sewer main prevented CCTV inspection from the reverse direction. Whenever possible these lines were smoke tested. However, no dead end line was larger than 15 inch and therefore did not require CCTV inspection under the requirements of the Consent Decree.



The Tables below include those elements of the WCTS which were not inspected due to physical constraints in the field. Each of these elements will be replaced as part of construction activities associated with the Phase 1 Remediation Measures Plan as shown in the Resolution column.

	MANHOLE	REASON NOT INSPECTED	RESOLUTION
1	01AHH-54	Under Ramp on LA 3132	Will be relocated outside of Interstate on-ramp
2	33AA-50	Inside Calumet Refinery	Will be replaced with MH on public ROW as part of RMP project
3	39AA-50	Inside Calumet Refinery	Will be replaced with MH on public ROW as part of RMP project
4	42DD-54	Under State Highway	Will be relocated outside of highway right-of-way or rebuilt in current location



	Gravity Sewer Lines	Reason Not Inspected	Resolution
1	01HH-54_01AHH-54	Unable to smoke due to being under a state highway and not being able to clearly identify smoke defects. Unable to clean until brick is removed from manhole 01HH-54 and 01AHH-54 is buried under LA 3132 on-ramp.	Manhole will be moved to outside of State Highway on-ramp in the RMP, this allowing cleaning and smoke testing of the gravity sewer line.
2	02HH-54_01HH-54	Unable to smoke due to being under a state highway and not being able to clearly identify smoke defects. Unable to clean until brick is removed from manhole 01HH-54 and 01AHH-54 is buried under LA 3132 on-ramp.	Manhole will be moved to outside of State Highway on-ramp in the RMP, this allowing cleaning and smoke testing of the gravity sewer line.
3	03HH-54_02HH-54	Unable to smoke due to being under a state highway and not being able to clearly identify smoke defects. Unable to clean until brick is removed from manhole 01HH-54 and 01AHH-54 is buried under LA 3132 on-ramp.	Manhole will be moved to outside of State Highway on-ramp in the RMP, this allowing cleaning and smoke testing of the gravity sewer line.
4	07CC-47_08CC-47	The gravity sewer line looks to be purposely capped off and not in service anymore which is the reason for not smoke testing.	Design engineer will verify with City before replacing or properly abandon gravity sewer line in the RMP.
5	08FF-49_07FF-49	Saturated Easement; unable to properly smoke.	The gravity sewer line will be replaced during the RMP.



Consent Decree Year One Annual Report
City of Shreveport, Louisiana

	Gravity Sewer Lines	Reason Not Inspected	Resolution
6	26FF-51_24FF-51	This gravity sewer line is a siphon and was not able to be inspected due to its surcharged nature.	The gravity sewer line will be either rerouted or replaced in the RMP.
7	32BB-51_33BB-51	Unable to complete smoke testing due to manhole buried under state highway and unable to be located at time of testing.	Manholes now located and gravity sewer line will be replaced during the RMP.
8	33CC-50_32CC-50	Unable to bring down surcharge in gravity sewer line.	The gravity sewer line will be replaced during the RMP.
9	36EE-50_04FF-50	Cannot be smoke inspected due to severe alignment issues.	The gravity sewer line will be replaced during the RMP.
10	38CC-50_33CC-50	Gravity sewer line is believed to be abandoned per the City.	Design engineer will verify with City before replacing or properly abandon gravity sewer line in the RMP.
11	39CC-50_38CC-50	Gravity sewer line is believed to be abandoned per the City.	Design engineer will verify with City before replacing or properly abandon gravity sewer line in the RMP.
12	40CC-50_39CC-50	Gravity sewer line is believed to be abandoned per the City.	Design engineer will verify with City before replacing or properly abandon gravity sewer line in the RMP.
13	46EE-49_32EE-50	Unable to bring down surcharge in gravity sewer line.	The gravity sewer line will be replaced during the RMP.
14	E04HH-53_04HH-53	No smoke test inspection completed due to severe defects in the gravity sewer line.	The gravity sewer line will be replaced during the RMP.
15	E11BB-47_11BB-47	Unable to smoke test or CCTV inspect due to and internal drop line. The upper line is plugged with concrete.	The gravity sewer line will be replaced during the RMP.



	Gravity Sewer Lines	Reason Not Inspected	Resolution
16	N24CC-54_24CC-54	Unable to complete smoke testing, cleaning, and CCTV due to root ball at manhole.	The gravity sewer line and manhole will be repaired/replaced during the RMP.
17	N33CC-50_33CC-50	Gravity sewer line is believed to be abandoned per the City.	Design engineer will verify with City before replacing or properly abandon gravity sewer line in the RMP.
18	S05FF-51_05FF-51	Manhole is severely offset which is preventing cleaning, CCTV inspection, and smoke test inspection.	The gravity sewer line will be replaced during the RMP.
19	S17BB-50_17BB-50	Cannot get the camera in the line due to concrete build up at entrance to the gravity sewer line. Could not smoke due to concrete build up.	The gravity sewer line will be replaced during the RMP.
20	S19Z-51_19Z-51	Could not CCTV inspect or smoke test due to the gravity sewer line being surcharged.	The gravity sewer line will be replaced during the RMP.
21	S32AA-51_32AA-51	Could not CCTV inspect or smoke test due to the gravity sewer line being surcharged.	The gravity sewer line will be replaced during the RMP.
22	W10AA-48_10AA-48	Could not position nozzle or camera in the gravity sewer line at the manhole because of severe offset. Could not smoke test due to severe offset.	The gravity sewer line will be replaced during the RMP.
23	W32BB-51_32BB-51	Unable to complete smoke testing due to manholes unable to be located at time of testing.	Manholes now located and gravity sewer line will be replaced during the RMP.



As stated above all WCTS elements which had not been inspected at the completion of SSA Phase 1 will be replaced as a part of construction activities of the Phase 1 Remediation Measures Plan.

To facilitate design and construction of projects identified during Consent Decree Investigations, the City hired CDM Smith as Program Manager (PM). CDM Smith was brought on board early in the Consent Decree process in order to ensure a thorough understanding of the investigations being performed and the decisions being made. All documents produced as a result of Consent Decree activities, including the Hydraulic Model Report, were reviewed by both the City and the Program Manager, with the PM serving as an informal third party reviewer.

Work on the Remediation Measures Plan began well before the completion of the Sanitary Sewer Assessment Phase report. The SSA – Phase 1 WCTS rehabilitation and replacement work was grouped into projects of appropriate size for the RMP. These projects were turned over to the Program Manager for review and prioritization. Adjustments were made to these projects and some projects were combined to reduce the total number of projects. Preliminary schedules for these projects have been developed and are included in Attachment 1.

The City had procured engineering design services under a Master Services Agreement (MSA) system, to avoid potential delays during the City's procurement process. Design has begun on some of the RMP projects. The time period available for completion of the RMP projects, particularly those in the first phase, requires that very efficient schedules be developed and maintained.



THE YEAR AHEAD – CONSENT DECREE YEAR TWO

(May 13, 2015 to May 12, 2016)

Building on the success of the first year of the Consent Decree, Shreveport has the organization and funding in place to continue to meet or exceed deadlines in the second year of the Consent Decree.

There are several second year deadlines contained in the Consent Decree and the City of Shreveport is already working to meet each of these deadlines. Shown below are the specific deadlines during the second year of the Consent Decree.

- 1] City shall submit Sanitary Sewer Assessment Phase 1 Report within 14 months after the Effective Date. *The SSA Phase Report will be submitted to EPA on July 10, 2015.*
- 2] Submit Remediation Measures Plan (RMP) within 4 months of the completion of each SSA Phase. *RMP Phase 1 for SSA Phase 1 is nearing completion and will be certified by the City and submitted to EPA prior to the deadline of September 12, 2015.*
- 3] Hydraulic Model Report shall become a part of the Public Document Repository [PDR]. *Hydraulic Model Report has been completed and is a part of the PDR and is posted on the Clean Water Shreveport website.*
- 4] City shall commence capacity assessment of WCTS and Waste Water Treatment Plant (WWTP) within 16 months of the Effective Date. *WCTS capacity assessment is well underway and WWTP capacity assessment will begin July 13, 2015 which meets the specified deadline.*
- 5] City shall submit Capacity Assessment Report within 22 months of the Effective Date. *The Capacity Assessment Report which will include both WCTS and WWTP will be completed, reviewed and certified by the City and submitted before the deadline of March 12, 2016.*
- 6] City shall submit to EPA and LDEQ for review and comment an Annual Report within 60 days after the first full 12 month period following the Effective Date and after each subsequent 12 month period until termination of this Consent Decree. *This report is submitted as the Annual Report for Consent Decree year one and the City will submit an Annual Report after each subsequent 12 month period.*

The City of Shreveport met the deadlines of the first Consent Decree year and has the staff, funding, and consultants in place to meet future deadlines.



ATTACHMENT 1

PUBLIC DOCUMENT REPOSITORY [PDR]

DOCUMENTS ON WEBSITE

www.cleanwatershreveport.com



CLEAN WATER *Shreveport*

ABOUT

PROJECTS

DOCUMENTS

GET INVOLVED

BUSINESS OPPORTUNITIES

Consent Decree Public Repository

Reports

Public Documents

CURRENT PROJECTS MAP

SIGN UP FOR ALERTS

REPORT A CONCERN

ANNOUNCEMENTS

You are here: [Home](#) > [Government](#) > [Departments](#) > [Clean Water Shreveport](#) > [Documents](#) > Consent Decree Public Repository

Consent Decree Public Repository

As a part of the [Consent Decree](#) that was negotiated with the Department of Justice and the Environmental Protection Agency, the City is required to provide access to documents that are generated as a part of the Consent Decree requirements. These documents will be maintained electronically as a part of this website and paper copies will be available for viewing at the Administrative Office of the Water and Sewerage Department at 505 Travis Street, Suite 580, Shreveport, Louisiana, 71101

[Shreveport SSA-Phase 1 Report for EPA submittal](#) (187MB, page load may be slow)

Note – The SSA-Phase 1 Report link above contains the SSA-Phase I Report and associated Appendices, with the exclusion of Appendix I because of its file size (1.5 TB). Appendix I of the SSA-Phase 1 Report, which contains the raw data and reports compiled during the collection system field inspection, is available for viewing at the physical location of the public repository, 505 Travis Street Suite 580, Shreveport LA.

[Shreveport Hydraulic Model Report - MARCH 2015 - EPA Submittal](#)

[Shreveport CMOM Submittal for EPA](#)



City of Shreveport, Louisiana | 505 Travis St. | Shreveport, LA 71101

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ATTACHMENT 2

CONSENT DECREE TRANSMITTAL LOG

City of Shreveport
Consent Decree Transmittal Log

Organization	Name	Address	Copy	Date of Transmittal
City of Shreveport	Robert Westerman, P.E.	505 Travis Street, Suite 300 Shreveport, LA 71101 (hand delivery)	1 Color Bound	5/28/2014
	Autumn Permenter, P.E.		1 Color Bound	5/28/2014
	Wes Wyche, P.E.		1 Color Bound	5/28/2014
	Andy Glasgow, P.E.		1 Color Bound	5/28/2014
	Mark Bates		1 Color Bound	5/28/2014
	Patrick Furlong, P.E.		1 Color Bound	5/28/2014
	Daniel Atnafu, P.E.		1 Color Bound	5/28/2014
	Rajbarath Panneerselvam, P.E.		1 Color Bound	5/28/2014
	Kerry Averyt, P.E.		1 Color Bound	5/28/2014
	Shev Pinchback		1 Stapled	5/28/2014
	Steve Lewis		1 Stapled	5/28/2014
	Pam Shannon		1 Stapled	5/28/2014
	Jerry Erwin		1 Stapled	5/28/2014
	Andrew Stevenson		1 Stapled	5/28/2014
	Mary Sylvie		1 Stapled	5/28/2014
	Donald Evans, Purchasing		1 Stapled	5/28/2014
Ken Aclin, Purchasing	1 Stapled	5/28/2014		
CDM Smith	Joseph Dollerschell, P.E.	330 Marshall St., Suite 620 Shreveport, LA 71101 (hand delivery)	1 Stapled	5/30/2014
	Jack Rattray, P.E.			
	Sondrea Gallman			
	Jerrick Hall			
	Rudy Zelmer			
	Lawrence			
	James Miles			
	Chris Kersey			
BKI	Lloyd Fitzpatrick, P.E.	333 Texas St., Suite 975, Shreveport, LA 71101	1 Stapled	5/30/2014
	Tyler Comeaux, P.E.			
CES	Joseph Atol, IV	1401 Seaboard Drive Baton Rouge, LA 70810	1 Stapled	6/4/2014
Balar	James Hagan, Jr., P.E.	631 Milam St, Suite 300, Shreveport, LA 71101	Included in executed Master Service Agreement Contract	3/17/2015
Civil Design Group	Gary Clark, P.E.	223 Fannin Street, Shreveport, LA 71101	Included in executed Master Service Agreement Contract	3/17/2015

City of Shreveport
Consent Decree Transmittal Log

Organization	Name	Address	Copy	Date of Transmittal
Cothren, Graff, Smoak Engineering, Inc	Brad Graff, P.E.	6305 Westport Avenue, Shreveport, LA 71129-2499	Included in executed Master Service Agreement Contract	3/17/2015
Aillet, Fenner, Jollym McClelland, Inc.	Mark W. Snow, P.E.	3003 Knight Street, Suite 120, Shreveport, LA 71105	Included in executed Master Service Agreement Contract	3/17/2015

INTER-OFFICE MEMORANDUM
City of Shreveport

Department of Engineering and Environmental Services
Office of the City Engineer

Phone: (318) 673-6000

Fax: (318) 673-6004

DATE: May 28, 2014

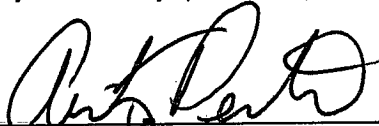
TO: Robert Westerman, P.E.
Wes Wyche
Patrick Furlong, P.E.
Andy Glasgow, P.E.
Daniel Atnafu, P.E.
Rajbarath Panneerselvam, P.E.
Kerry Averyt, P.E.
Mark Bates
Donald Evans
Ken Aclin
Andrew Stevenson
Pamela Shannon
Mary Sylvie
Shev Pinchback
Steve Lewis
Jerry Erwin

FROM: Autumn Permenter, P.E.
Assistant City Engineer

Subject: Consent Decree – EPA/LDEQ & City of Shreveport

As of May 13, 2014 (effective date), the City of Shreveport entered into a Consent Decree with the Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ). This negotiated settlement will include an overall compliance schedule of 12 years and an estimated \$350 million to repair and rehabilitate the City's wastewater system as part of a Capital Improvements Program (CIP). As required in Section II. *Applicability*, please find attached for your use a copy of the Consent Decree as all or some of your current duties may reasonably include compliance with any substantive provision of the Consent Decree.

If you have any questions, please do not hesitate to contact me at 673-6000.



Autumn Permenter, P.E.

AP:je

xc: Barbara Featherston, P.E.



CITY OF SHREVEPORT

P.O. BOX 31109 SHREVEPORT, LA 71130 • 505 TRAVIS STREET SHREVEPORT, LA 71101

Website: www.shreveportla.gov

June 4, 2014

Mr. Joseph Atol, IV
Compliance EnviroSystems, LLC
1401 Seaboard Drive
Baton Rouge, LA 70810

RE: Consent Decree – EPA/LDEQ & City of Shreveport

Dear Mr. Atol:

As of May 13, 2014 (effective date), the City of Shreveport entered into a Consent Decree with the Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ). This negotiated settlement will include an overall compliance schedule of 12 years and an estimated \$350 million to repair and rehabilitate the City's wastewater system as part of a Capital Improvements Program (CIP). As required in Section II. *Applicability*, please find attached for your use a copy of the Consent Decree as all or some of your current duties may reasonably include compliance with any substantive provision of the Consent Decree.

If you have any questions, please do not hesitate to contact me at 673-6000.

Sincerely,

Autumn Permenter, P.E.
Assistant City Engineer

AP:je

xc: Robert Westerman, P.E.
Barbara Featherston, P.E.
File ✓



CITY OF SHREVEPORT

P.O. BOX 31109, SHREVEPORT, LA 71130 • 505 TRAVIS STREET SHREVEPORT, LA 71101
Website: www.shreveportla.gov

May 30, 2014

Mr. Lloyd Fitzpatrick, P.E.
Burk-Kleinpeter, Inc.
333 Texas Street, Suite 975
Shreveport, LA 71101

333 Texas Street, Suite 975
Shreveport, LA 71101

RE: Consent Decree – EPA/LDEQ & City of Shreveport

Dear Mr. Fitzpatrick:

As of May 13, 2014 (effective date), the City of Shreveport entered into a Consent Decree with the Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ). This negotiated settlement will include an overall compliance schedule of 12 years and an estimated \$350 million to repair and rehabilitate the City's wastewater system as part of a Capital Improvements Program (CIP). As required in Section II. *Applicability*, please find attached for your use a copy of the Consent Decree as all or some of your current duties may reasonably include compliance with any substantive provision of the Consent Decree.

If you have any questions, please do not hesitate to contact me at 673-6000.

Sincerely,

A handwritten signature in black ink, appearing to read "Autumn Permenter".

Autumn Permenter, P.E.
Assistant City Engineer

AP:je

xc: Robert Westerman, P.E.
Barbara Featherston, P.E.
Tyler Comeaux, P.E.
File ✓



CITY OF SHREVEPORT

P.O. BOX 31109 SHREVEPORT, LA 71130 • 505 TRAVIS STREET SHREVEPORT, LA 71101

Website: www.shreveportla.gov

May 30, 2014

Mr. Joe Dollerschell, P.E.
CDM Smith
330 Marshall Street, Suite 620
Shreveport, LA 71101

RE: Consent Decree – EPA/LDEQ & City of Shreveport

Dear Mr. Dollerschell:

As of May 13, 2014 (effective date), the City of Shreveport entered into a Consent Decree with the Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ). This negotiated settlement will include an overall compliance schedule of 12 years and an estimated \$350 million to repair and rehabilitate the City's wastewater system as part of a Capital Improvements Program (CIP). As required in Section II. *Applicability*, please find attached for your use a copy of the Consent Decree as all or some of your current duties may reasonably include compliance with any substantive provision of the Consent Decree.

If you have any questions, please do not hesitate to contact me at 673-6000.

Sincerely,

Autumn Permenter, P.E.
Assistant City Engineer

AP:je

xc: Robert Westerman, P.E.
Barbara Featherston, P.E.
File



ATTACHMENT 3

SANITARY SEWER OVERFLOWS: CONSENT DECREE YEAR ZERO [05/13/13 - 05/12/14]

SANITARY SEWER OVERFLOWS: CONSENT DECREE YEAR ONE [05/13/14 – 05/12/15]

	DATE	TIME	QtrSect	MH	LOCATION	NEARintersection	TIME	CLASSIF	CAUSE	ENVIR IMPACT	ACTION	STREAM	RECOVERED	LOST
1	5/13/2013	12:40:00 PM	Y-58	20	760 Shreveport Barksda	Surrey	1 hr	B1	grease in main	sewage into waterbody	unstopped main	Red River	none	100 gal.
2	5/13/2013	8:50:00 AM	W-51	29	1427 Arlington	Harp St.	2 hrs	B2	roots and debris in m	sewage into waterbody	unstopped main	Cross Bayou	none	500 gal.
3	5/16/2013	3:30:00 PM	W-41	8-7	6100 S. Lakeshore	Gorton St.	3 hrs	B3	Roots in main	sewage into waterbody	Unstopped sewer ma	Cross Lake	none	500 gal.
4	5/22/2013	6:25:00 PM	KK-49	47	9456 Boxwood	Francais Dr.	1 hr	B4	Roots and grease in	sewage into waterbody	washed main; site to	Brush Bayou	none	1000 gal.
5	5/22/2013	11:30:00 AM	SS-58	ARV	11016 Norris Ferry Rd.	Southern Trace Pkwy.	3 hrs	FM1	air relief valve stuck	sewage into waterbody	replaced air relief val	Wallace Lake	none	unknown
6	5/24/2013	11:23:00 AM	BB-54	5	500 Sugarleaf	Linwood	1 hr.	B5	heavy grease in main	sewage into waterbody	unstopped main	Brush Bayou	none	50 gal.
7	5/28/2013	11:19:00 AM	BB-54	5	1044 Ontario	Glen Iris	unknown	LS1	SWPECO installed u	sewage into waterbody	bypass pump set up until repairs made	none	none	1000 gal.
8	6/3/2013	6:37:00 PM	X-49	22-EOL	3655 1/2 Stonewall	Jewella	1 hr	B6	grease	sewage completely con	unstopped main	none	200 gal.	none
9	6/6/2013	3:22:00 PM	JJ-44	16-17	Dashwood	Dawn Ridge	3.5 hrs.	B7	heavy grease	sewage into waterbody	unstopped main; clea	Gilmer Bayou	none	2000 gal.
10	6/6/2013	2:24:00 PM	Z-55	35-47	Highland	Dudley	3 hrs.	I11	I&I; lift station at full	sewage into waterbody	cleanup not necessa	Bayou Pierre	none	2500 gal.
11	6/6/2013	2:00:00 PM	GG-52	28-12	Coyth	Janet	4 hrs.	I12	I&I; lift station at full	sewage into waterbody	clean up dispatched	Brush Bayou	none	1000 gal.
12	6/7/2013	7:12:00 PM	Z-54	70-71	821 Dudley	Line Ave.	1 hr.	B8	heavy grease in main	sewage into waterbody	unstopped main	Bayou Pierre	none	500 gal.
13	6/7/2013	8:00:00 AM	EE-51	29	Union	W. 75th	3.5 hrs.	I13	excessive rain/heavy	sewage into waterbody	unstopped main; clea	Brush Bayou	none	500 gal.
15	6/10/2013	8:56:00 AM	W-51	29	1402 Harvard	Harp	2 hrs	BGM1	sewer main cave-in	sewage partially contain	unstopped main; disp	Cross Bayou	25 gal.	25 gal.
14	6/10/2013	8:30:00 AM	NR	oy-Luca	318 E. Flournoy-Lucas F	Ellerbe Rd.	3 hrs	LS2	pump electrical issue	sewage into waterbody	replaced breaker and	Bayou Pierre	none	3600 gal.
16	6/17/2013	10:40:00 AM	X-53	17	2400 Samford St.	Dalzell St.	1 hr	B9	Grease in main	sewage into waterbody	unstopped main	Bayou Pierre	none	50 gal.
23	6/18/2013	3:03:00 PM	Z-49	29-28	3142 Fulton	Hudson	1.5 hrs	I10	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1200 gal.
24	6/18/2013	10:00:00 AM	DD-56	11	Brookmeade	Querbes	4 hrs.	I11	I&I	sewage into waterbody	clean up dispatched	Brush Bayou	none	6000 gal.
25	6/18/2013	3:39:00 PM	II-49	2	8986 Mansfield Rd	Jewella Ave	2 hr	I12	I&I	sewage into waterbody	clean-up dispatched	Brush Bayou	none	1000
26	6/18/2013	3:05:00 PM	BB-48	24-23	4113 Tate	Broadway	2 hrs	I13	I&I	sewage into waterbody	NR	Brush Bayou	none	1500 gal.
27	6/18/2013	2:13:00 PM	EE-53	8	367 W. 73rd	Linwood Ave.	1 hr	I14	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1200 gal.
28	6/18/2013	3:00:00 PM	GG-51	34	Kingstowne Pl.	Kingston Rd.	2 hrs.	I15	I&I	sewage into waterbody	clean up dispatched	Brush Bayou	none	1500 gal.
29	6/18/2013	3:00:00 PM	GG-52	28	Coythe	Sugarleaf	2 hrs.	I16	I&I	sewage into waterbody	clean up dispatched	Brush Bayou	none	1500 gal.
30	6/18/2013	3:36:00 PM	AA-44	17-11	5235 Greenwood Rd.	Junior Pl.	1.5 hr.	I17	I&I	sewage into waterbody	clean up dispatched	Bickham Bayou	none	1500 gal.
17	6/18/2013	5:45:00 AM	BB-51	5	2650 Randolph	Hearne Ave.	2 hrs	I14	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1200 gal.
18	6/18/2013	3:00:00 PM	KK-47	36	9300 Normandie	Birch	2 hrs	I15	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1500 gal.
19	6/18/2013	3:12:00 PM	KK-47	23	2700 Stanberry	Normandie	2 hrs	I16	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1000 gal.
20	6/18/2013	2:26:00 PM	KK-47	9	9570 Mansfield Rd.	Southland Dr.	2 hr	I17	I&I	sewage into waterbody	no clean-up necessa	Brush Bayou	none	1500 gal.
21	6/18/2013	3:06:00 PM	Z-51	14-15	2649 Emery Dr.	Virginia	2 hrs	I18	I&I	sewage into waterbody	no need for clean-up	Brush Bayou	none	1000 gal.
22	6/18/2013	3:33:00 PM	DD-41	12-21	6777 Raspberry Ln.	W. 70th	2 hrs.	I19	I&I	sewage into waterbody	no clean-up necessa	Gilmer Bayou	none	1500 gal.
31	6/24/2013	2:30:00 PM	T-52	19	500 N. Pierre	Chester St.	1 hr.	B10	heavy debris	sewage partially contain	unstopped main; vac	Cross Bayou	1500 gal.	none
32	6/26/2013	10:00:00 AM	II-49	2	8988 Mansfield Rd.	Southside Dr.	1 hr	B11	heavy debris	sewage into waterbody	unstopped main; disp	Brush Bayou	none	40 gal.
33	6/26/2013	4:00:00 PM	EE-50	46-32	Valley View Dr.	Fernwood Dr.	15 mins	B12	line plugged for smo	sewage into waterbody	pulled plug; cleaned	Brush Bayou	none	200 gal.
34	6/26/2013	11:34:00 AM	DD-48	7	3950 W. 70th	Jewella	2 hr.	B13	grease	sewage into waterbody	unstopped main; clea	Brush Bayou	none	100 gal.
35	7/2/2013	12:15:00 PM	X-49	39	San Jacinto	Catherine	1 hr.	B14	grease in main	sewage into waterbody	unstopped main; clea	Cross Lake	none	50 gal.
36	7/6/2013	11:00:00 AM	EE-50		3200 Valley View Dr.	Louise St.	5 hrs	LS3	bypass Hoses came	sewage into waterbody	Red River Pump Co.	Brush Bayou	none	1200 gal.
37	7/16/2013	4:23:00 PM	X-56	24	201 Dalzell	Morehead Ave.	1 hr.	B15	Grease & Roots in S	sewage into waterbody	washed sewer main;	Bayou Pierre	none	200 gal.
38	7/17/2013	8:30:00 AM	Z-41		5853 Jefferson Paige	Sandra Dr.	1 hr	BGM2	broken sewer main	sewage completely con	main repaired; sewer	Bickham Bayou	4000 gal.	none
39	7/18/2013	10:30:00 AM	W-52	20	Pierre Ave.	Walnut	1/2 hr.	B16	grease	sewage into waterbody	unstopped main with	Cross Bayou	none	500 gal.
40	8/7/2013	10:00:00 AM	JJ-40	8-1	6171 Bert Kouns Ind. Loop		2 hrs.	B17	grease	sewage into waterbody	unstopped main; clea	Gilmer Bayou	none	100 gal.
41	8/8/2013	12:41:00 PM	AA-55	13	3828 Creswell	Cecile St.	1 hr.	B18	grease	sewage into waterbody	unstopped main; clea	Bayou Pierre	none	100 gal.
42	8/9/2013	1:30:00 PM	BB-49	6	5309 Alto Vista	Clark St.	0.5 hrs	B19	grease	sewage into waterbody	washed sewer main	Brush Bayou	none	50 gal.
43	8/10/2013	4:15:00 PM	DD-54	8	6500 Line Ave.	Oak Hill	1 hr.	B20	grease	sewage into waterbody	unstopped main; clea	Bayou Pierre	none	250 gal.
44	8/13/2013	11:35:00 AM	T-54	43	Edwards St.	Fannin St.	1 hr	B21	grease	sewage into waterbody	unstopped main; app	Cross Bayou	none	50 gal.
45	8/13/2013	10:15:00 AM	BB-57	36	4400 Youree	Leland	2 hrs.	B22	grease	sewage into waterbody	unstopped main; clea	Bayou Pierre	none	100 gal.
46	8/15/2013	1:53:00 PM	W-57	29	1813 Jenkins	Wichita	0.25 hrs.	B23	grease	sewage into waterbody	washed main; cleanu	Bayou Pierre	none	5 gal.
47	8/26/2013	10:00:00 AM	NR		Champion Lake Lift Stati	Preston St.	5 hrs.	LS13	main breaker was we	sewage partially contain	replaced main break	Champion Lake	270,270 gal.	66,330 gal.
48	8/28/2013	11:26:00 AM	EE-59	4	Old River Circle	Old River Dr	1hr.	BMH1	charged manhole	sewage was not contain	washed main, clean	Old River Lake	none	5 gal.
49	8/30/2013	3:32:00 PM	W-56	8	234 Jordan	Coty St.	1 hr.	B24	grease	sewage into waterbody	unstopped main; was	Bayou Pierre	none	1000 gal.
50	9/2/2013	6:55:00 PM	QQ-58	44	St. Berndard St.	Bonnabel Ct.	0.3 hrs	LS4	power failure at pum	sewage into waterbody	reset pumps	Wallace Lake	none	5 gal.
51	9/3/2013	8:30:00 AM	W-48	21	1607 Glen	Michigan	14 days	BGM3	gravity main broken	sewage partially contain	contained sewer with	Cross Lake	53,700 gal.	500 gal.
52	9/5/2013	11:40:00 AM	W-55	16	700 Boulevard	Dillingham	0.75 hrs.	B25	grease	sewage into waterbody	washed sewer main	Bayou Pierre	none	1000 gal.
53	9/5/2013	8:54:00 PM	Z-47	8-11	3131 Country Club Dr.	Baronne St.	1 hr.	B26	grease	sewage partially contain	unstopped main; disi	Cross Lake	100 gal.	150 gal.
54	9/9/2013	6:06:00 PM	R-47	6	1560 Russell Rd.	Aline	1 hr.	B27	grease	sewage into waterbody	unstopped main; disp	12 Mile Bayou	none	200 gal.
56	9/10/2013	9:30:00 AM	Z-50	11	3907 Hearne	Emery	1 hr.	B28	grease	sewage into waterbody	washed sewer main;	Brush Bayou	none	300 gal.
57	9/10/2013	6:01:00 PM	Z-51	20	2547 Dupont	Virginia	1 hr.	B29	grease	sewage into waterbody	unstopped main; disp	Brush Bayou	none	100 gal.
58	9/10/2013	3:57:00 PM	II-47	20	8927 Hilton	Walker Rd.	1 hr.	B30	grease & roots	sewage into waterbody	unstopped main; app	Brush Bayou	none	200 gal.

55	9/10/2013	9:30:00 AM	Agurs L.S.		Catahoula St.	Barton Dr.	20 hrs.	LS5	pump one faulted; pu	sewage into waterbody	reset and bled off air	12 Mile Bayou	25,200 gal.	919,800 gal.
59	9/11/2013	7:24:00 AM	X-56		104 Dalzell	Alexandria	8 hr.	B31	grease	sewage into waterbody	washed main; dispat	Bayou Pierre	none	300 gal.
60	9/13/2013	10:30:00 AM	BB-46	29	Illinois	Curtis Ln	0.5 hrs.	B32	grease	sewage into waterbody	washed main; clean	Brush Bayou	none	50 gal.
61	9/13/2013	1:47:00 PM	W-55	29	645 Herndon		0.5 hrs.	B33	debris	sewage into waterbody	washed main, clean	Bayou Pierre	none	10 gal.
62	9/15/2013	11:30:00 AM	JJ-48	5	Susan Dr.	Bert Kouns Ind. Loop	1 hr.	B34	debris	sewage into waterbody	washed main; disinfe	Brush Bayou	none	50 gal.
63	9/16/2013	9:50:00 AM	X-50	7	2719 Lillian	Hearne Av.	0.5 hrs.	B35	roots	sewage into waterbody	unstopped main	Cross Bayou	none	30 gal.
64	9/17/2013	7:18:00 AM	Z-47	20	4000 Golf Links Blvd.	Greenwood Rd.	1 hr.	B36	grease & roots	sewage into waterbody	unstopped main; disl	Brush Bayou	none	600 gal.
65	9/20/2013	11:23:00 PM	EE-52	26	W. 75th St.	Union Ave.	10 days	BGM4	collapsed main	sewage partially contain	unstopped main; cled	Brush Bayou	unknown	30000 gal.
66	9/23/2013	9:24:00 AM	DD-40	8	Berkeley	Klug Pines Rd.	6 hrs.	B37	grease in main	sewage into waterbody	washed main; dispat	Gilmer Bayou	none	300 gal.
67	9/23/2013	2:30:00 PM	DD-56	11	Brookmeade Dr.	Querbes Dr.	1 hr.	II18	I&I	sewage into waterbody	Cleaned site	Bayou Pierre	unknown	500 gal.
68	9/25/2013	8:52:00 AM	Q-45	30	2960 Victor St.	Hattie St.	4 days	BGM5	collapsed main; inter	sewage into waterbody	bypass pump set up	12 Mile Bayou	none	2500 gal.
69	9/26/2013	11:20:00 AM	Q-51	26	1800 Nelson	Corporate Dr.	3 hrs.	B38	heavy grease	sewage into waterbody	washed main; dispat	12 Mile Bayou	none	700 gal.
70	9/26/2013	9:29:00 PM	L-48	13	4025 N. Market St.	Pine Hill Rd.	2 hrs.	FM2	broken 3" force main	sewage into waterbody	crew called to make	McCain Creek	none	600 gal.
71	9/27/2013	4:01:00 PM	W-48	13-19	3854 Michigan	Glen	1 hr.	B39	grease & roots	sewage into waterbody	unstopped main; app	Cross Lake	none	200 gal.
72	9/28/2013	5:19:00 PM	W-55	63-55	446 Olive St.	Highland St.	1.5 hrs.	B40	roots in main	sewage partially contain	washed main; disinfe	Bayou Pierre	20 gal.	50 gal.
75	9/28/2013		OO-49	2	Old Carriage Trail	Kingston Rd.	unknown	BGM6	I&I; cracked or broke	sewage into waterbody	contacted contractor	Boggy Bayou; Priva	unknown	unknown
73	9/28/2013	10:00:00 PM	GG-51	39	Kingstowne Pl.		4 hrs.	II19	I&I	sewage into waterbody	disinfected/washed a	Brush Bayou	none	3500 gal.
74	9/28/2013	10:00:00 PM	GG-52	28	Coythe	Sugarleaf	4 hrs.	II20	I&I	sewage into waterbody	disinfected/washed a	Brush Bayou	none	3500 gal.
76	10/2/2013	11:15:00 AM	W-45	i.s.	5546 S. Lakeshore	Willow Point	2 hrs.	FM3	Force main blow out	sewage completely cont	vacuumed sewer; cd	Cross Lake	18000 gal.	none
77	10/3/2013	9:19:00 PM	X-55	20-13	430 Merrick	Gilbert	1 hr.	B41	roots	sewage into waterbody	unstopped main; disl	Bayou Pierre	none	200 gal.
78	10/6/2013	6:30:00 AM	EE-52	13	437 W. 74th	Bernstein Ave.	1 hr.	B42	grease	sewage into waterbody	washed main; dispat	Brush Bayou	none	100 gal.
79	10/7/2013	8:50:00 AM	II-47	33	9013 Hilton	Lone Oak Dr.	1 hr.	B43	roots	sewage into waterbody	unstopped main; disl	Brush Bayou	none	200 gal.
80	10/7/2013	4:12:00 PM	EE-59	7-8	7200 Old River Dr.	Old River Cir.	1 hr.	B44	grease	sewage into waterbody	unstopped main; app	Old River Lake	none	100 gal.
81	10/8/2013	9:30:00 AM	AA-55	20	619 Ockley	Creswell	1 hr.	B45	grease	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	400 gal.
82	10/8/2013	3:06:00 PM	II-49	59-25	9041 Mansfield Rd.	Jewella	1 hr.	B46	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	600 gal.
83	10/9/2013	12:20:00 PM	AA-52	32	1000 Corbitt	Joplin	1 hr.	B47	grease in main	sewage into waterbody	unstopped main; app	Brush Bayou	none	250 gal.
84	10/10/2013	9:10:00 AM	DD-35	38	6778 Washington Ln.	Greenwood Rd.	1 hr.	B48	grease	sewage into waterbody	unstopped main; app	Gilmer Bayou	none	300 gal.
85	10/15/2013	7:02:00 PM	Y-50	18	2924 Jackson St.	Arkansas St.	3 hrs.	BGM7	sewer main broken c	sewage into waterbody	unstopped main; disl	Cross Lake	none	1000 gal.
86	10/15/2013	11:30:00 AM	OO-57	f.m.	625 Overton Brooks Rd.	Norris Ferry Rd.	3 hrs.	FM4	Force Main blow out	sewage partially contain	dammed ditch; contr	Wallace Lake	15000 gal.	15000 gal.
87	10/16/2013	8:55:00 AM	X-49	37	3534 Catherine St.	Mertis Ave.	4 hrs.	B49	grease	sewage into waterbody	unstopped main; disl	Cross Lake	none	1000 gal.
88	10/17/2013	2:00:00 AM	PP-67	L.S.	Port lift station	Hwy. 1	1 hr.	LS6	station shut down for	sewage into waterbody	will have personnel d	Bayou Pierre	none	20196 gal.
89	10/22/2013	1:45:00 PM	W-50	9	Lakeshore	Hearne	18 hrs.	B50	grease	sewage into waterbody	unstopped main	Cross Bayou	none	100 gal.
90	10/24/2013	12:35:00 PM	W-54	5	900 Jordan St.	Gary St.	1 hr.	B51	grease	sewage into waterbody	unstopped main	Red River	none	100 gal.
91	10/29/2013	11:15:00 AM	AA-55	20	646 Ockley	Creswell	1 hr.	B52	grease	sewage into waterbody	washed main, clean	Bayou Pierre	none	500 gal.
92	10/31/2013	4:47:00 PM	U-50	17	Missouri St.	Myrtle St.	1 hr.	B53	grease	sewage into waterbody	unstopped main; disl	Cross Bayou	none	500 gal.
93	10/31/2013	4:08:00 PM	EE-52	29-26	714 W. 75th St.	Clift Ave.	1 hr.	BGM8	grease and bad pipe	sewage into waterbody	unstopped main; cled	Brush Bayou	none	1000 gal.
94	10/31/2013	6:00:00 AM	GG-52	27	Coythe	Darinda Ln.	6 hrs.	II21	I&I	sewage into waterbody	cleaned and disinfec	Brush Bayou	none	7000 gal.
95	10/31/2013	6:00:00 AM	GG-52	20	Lynbrook	Coythe	6 hrs	II22	I&I	sewage into waterbody	cleaned and disinfec	Brush Bayou	none	7000 gal.
96	10/31/2013	6:00:00 AM	GG-52	28	Coythe	Sugarleaf	7 hrs.	II23	I&I	sewage into waterbody	cleaned and disinfec	Brush Bayou	none	10000 gal.
97	10/31/2013	6:00:00 AM	GG-51	39	Kingstowne Pl.		7 hrs.	II24	I&I	sewage into waterbody	cleaned and disinfec	Brush Bayou	none	10000 gal.
99	11/1/2013	8:18:00 PM	X-47	16	2513 Ridge Lake Dr.	Lakeshore Dr.	1 hr	B54	grease	sewage into waterbody	unstopped main; disl	Cross Lake	none	200 gal.
100	11/1/2013	4:28:00 PM	Y-50	11-18	2932 Jackson	Kentucky	1 hr.	B55	grease	sewage into waterbody	unstopped main; disl	Cross Lake	none	2000 gal.
98	11/1/2013	12:45:00 PM	BB-51	28-32	5637 Virginia Avenue	Hearne Avenue	1 hr.	II25	I&I	sewage into waterbody	washed main; dispat	Brush Bayou	none	100 gal.
101	11/4/2013	9:55:00 AM	Q-51	15	1003 LaFouche Street	Barton Street	1 hr.	B56	grease and debris	sewage into waterbody	unstopped main; disl	12 Mile Bayou	none	300 gal.
102	11/9/2013	9:41:00 AM	Y-50	29	2893 Jackson	Arkansas	45 min.	B57	grease and paper	sewage into waterbody	unstopped main; disl	Cross Lake	none	50 gal.
103	11/10/2013	4:10:00 PM	Y-50	17	2924 Jackson St.	Kentucky	2 hrs.	B58	Roots in main	sewage into waterbody	unstopped main; disl	Cross Lake	none	500 gal.
104	11/12/2013	10:00:00 AM	I-52	19	510 North Allen Street	Pierre Avenue	1 hr.	B59	Debris in main	sewage into waterbody	unstopped main; app	Cross Bayou	none	50 gal.
105	11/15/2013	1:15:00 PM	W-55	34	400Wyandotte	Gilbert	1 hr.	BGM9	sewer main broken c	sewage into waterbody	called zone supervis	Bayou Pierre	none	100 gal.
106	11/17/2013	8:25:00 AM	CC-57	7	341 Southfield	Glen Cove	1 hr.	LS7	Lift station down	sewage into waterbody	turned over to sewer	Bayou Pierre	none	1000 gal.
107	11/18/2013	9:12:00 AM	EE-52	13	441 West 47th	Bernstein Ave.	1 hr.	B60	grease	sewage into waterbody	washed main; dispat	Brush Bayou	none	50 gal.
108	11/19/2013	8:47:00 AM	Q-51	15	Barton	North Market	unknown	BGM10	possible broken main	sewage into waterbody	bypass pump set up	12 Mile Bayou	none	unknown
109	11/20/2013	4:08:00 PM	KK-47	25-22	9411 Normandie	Birch	1 hr.	B61	grease	sewage into waterbody	unstopped main; disl	Brush Bayou	none	1000 gal.
110	11/20/2013	4:30:00 PM	AA-41	36-26	4121 Honda	Yontan	1 hr.	B62	grease	sewage into waterbody	unstopped main; disl	Cross Lake	none	2000 gal.
111	11/20/2013	4:54:00 PM	Z-56	36	127East Gregg	Alexander	1 hr.	B63	grease	sewage into waterbody	unstopped main; app	Bayou Pierre	none	600 gal.
112	11/20/2013	7:03:00 PM	EE-49	12	7109 Penny	Dollarway	1 hr.	B64	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	100 gal.
113	11/23/2013	10:30:00 AM	GG-52	28-20	Sugarleaf	Coyth	unknown	II26	I&I	sewage into waterbody	cleaned and disinfec	Brush Bayou	none	unknown
114	11/23/2013	1:45:00 PM	EE-52	14	521 West 75th Street	Wallace	unknown	II27	I&I	sewage into waterbody	washed main; dispat	Brush Bayou	none	100 gal.
115	11/25/2013	4:42:00 PM	EE-43	16	5307 Alex	Shreve Park	1 hr.	B65	heavy debris in man	sewage into waterbody	unstopped main; disl	Gilmer Bayou	none	1000 gal.

116	11/25/2013	8:41:00 PM	W-55	42	633 Wyandotte	Irving	1 hr.	B66	grease	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	500 gal.
117	11/25/2013	5:24:00 PM	W-48	20-21	1611 Glen	Michigan	1 hr.	B67	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	1000 gal.
118	11/26/2013	6:59:00 AM	X-55	25	619 College	Creswell	1 hr.	BGM11	main broken down	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	250 gal.
119	11/27/2013	12:51:00 PM	CC-57	7	321 Southfield	Glen Cove	30 min.	B68	grease	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	30 gal.
120	11/27/2013	8:03:00 PM	V-52	18	1959 Abbie	Normandie	1 hr.	B69	grease	sewage into waterbody	unstopped main; disinfected	Cross Bayou	none	300 gal.
121	11/29/2013	7:11:00 PM	Z-53	5	Southern Avenue	St. Vincent Avenue	1 hr.	B70	grease	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	300 gal.
122	12/1/2013	11:00:00 PM	O-49	4-5	MLK Drive	I-49 (under construction)	24 hrs.	LS8	bypass pump broken	sewage into waterbody	contractors cleared pipes	McCain Creek	none	72000 gal.
123	12/2/2013	9:00:00 AM	KK-47	11	9371 Mansfield	Normandie	1 hr.	B71	grease	sewage into waterbody	unstopped main; disinfected	Brush Bayou	none	150 gal.
124	12/2/2013	7:36:00 PM	U-53	60-61	317 Pete Harris Drive	Garden Street	1 hr.	B72	grease	sewage into waterbody	washed main; cleaned	Cross Bayou	none	500 gal.
125	12/2/2013	9:00:00 AM	X-50	47	2806 Kentucky	Milton	unknown	B73	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	unknown
126	12/2/2013	9:47:00 AM	W-48	34	1812 Jewella Avenue	Michigan	1 hr.	B74	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	100 gal.
127	12/4/2013	1:05:00 PM	T-52	19	510 North Allen Street	North Pierre	1 hr.	B75	debris and grease	sewage into waterbody	unstopped main; disinfected	Cross Bayou	none	100 gal.
128	12/5/2013	8:00:00 AM	KK-47	40	9371 Mansfield Road	Normandie	2 hrs.	B76	heavy grease	sewage into waterbody	unstopped main; disinfected	Brush Bayou	none	100 gal.
129	12/5/2013	1:58:00 PM	Z-51	19	2547 Dupont Street	Viginia Avenue	1 hr.	BGM12	broken down main	sewage into waterbody	washed main; disinfected	Brush Bayou	none	200 gal.
131	12/6/2013	4:13:00 PM	W-56	29	106 East Wichita	Alexander	1 hr.	BGM13	grease/bad pipe	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	1000 gal.
130	12/6/2013	8:00:00 AM	L.S.	L.S.	Newman Lane	Dianne Street	6 hrs.	FM5	Force main blow out	sewage completely contained	set up bypass pump;	Cross Lake	1000 gal.	none
132	12/7/2013	3:13:00 PM	EE-41	10	Fox Chase Trail	Bobtail Drive	1 hr.	B77	grease	sewage into waterbody	washed main	Gilmer Bayou	none	300 gal.
133	12/7/2013	3:40:00 PM	Z-53	27	Southern Avenue	Ockley Drive	1 hr.	B78	grease in main	sewage into waterbody	washed main; disinfected	Bayou Pierre	none	200 gal.
134	12/10/2013	5:14:00 PM	BB-51	11	2650 Randolph	Virginia	1 hr.	B79	grease & roots	sewage into waterbody	unstopped main; disinfected	Brush Bayou	none	100 gal.
135	12/11/2013	2:43:00 PM	AA-53	40	4100 Linwood Avenue	Summers Drive	1 hr.	B80	grease	sewage into waterbody	unstopped main; disinfected	Brush Bayou	none	250 gal.
136	12/11/2013	2:14:00 PM	W-51	25	1520 Oxford	Dunlap	1 hr.	B81	grease	sewage into waterbody	unstopped main; disinfected	Cross Bayou	none	300 gal.
137	12/11/2013	4:26:00 PM	W-48	20	1601 Glen Avenue	Michigan Avenue	1 hr.	BGM14	bad spot in main	sewage into waterbody	washed main; disinfected	Cross Lake	none	350 gal.
138	12/12/2013	11:17:00 AM	DD-49	29	6405 Despot Road	Marquette Avenue	1 hr.	B82	Roots in main	sewage into waterbody	washed main; disinfected	Brush Bayou	none	20 gal.
139	12/13/2013	3:04:00 PM	KK-48	41	9512 Cinnamon Drive	Kimberly Drive	2 hrs.	BGM15	bad spot in main	sewage into waterbody	washed main; disinfected	Brush Bayou	none	700 gal.
140	12/13/2013	11:21:00 PM	Z-50	26	Hearne Avenue	Desoto Street	1 hr.	I128	I&I	sewage into waterbody	applied disinfectant	Brush Bayou	none	500 gal.
141	12/14/2013	10:25:00 AM	Z-53	29	3505 Dowdell Street	Claiborne Avenue	3 hrs.	B83	grease in main	sewage into waterbody	broke up grease; disinfected	Bayou Pierre	none	200 gal.
142	12/16/2013	12:34:00 PM	X-52	14	2300 Levy Street	Texas Avenue	unknown	BGM16	break in main	sewage into waterbody	set up bypass pump;	Bayou Pierre	unknown	unknown
143	12/19/2013	8:27:00 AM	X-53	17	2400 Samford Avenue	Dalzell Street	1 hr.	B84	grease	sewage into waterbody	unstopped main; cleaned	Bayou Pierre	none	50 gal.
144	12/19/2013	9:26:00 AM	JJ-50	5-4	1000 East Bert Kouns Industrial	Midvale Drive	1 hr.	B85	grease in main	sewage into waterbody	unstopped main; disinfected	Brush Bayou	none	10 gal.
145	12/20/2013	2:23:00 PM	W-47	6	1617 Dilg League Drive	Cross Lake Boulevard	unknown	B86	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	unknown
146	12/23/2013	8:00:00 AM	X-55	40	426 Prospect Street	Gilbert Street	24 hrs.	B87	grease in main	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	720 gal.
147	1/1/2014	5:16:00 PM	KK-48	29	2705 Stanberry	Normandie	1 hr.	U1	unknown	sewage into waterbody	washed main; cleaned	Brush Bayou	none	700 gal.
148	1/3/2014	11:51:00 AM	Z-43	11	5517 Jefferson Paige Road	Hwy 3132	18 days	FM6	small leak in force main	sewage partially contained	contractor made repairs	Bickham Bayou	unknown	5 gal.
149	1/8/2014	11:30:00 AM	JJ-59	wet well	North Pierre Lift Station	Flournoy Lucas Road	none	LS9	small spill during construction	sewage partially contained	cleaned and disinfected	Sand Beach Bayou	30 gal.	20 gal.
150	1/10/2014	9:15:00 AM	Q-45	59	2940 Tulsa Street	David Raines Road	1 hr.	B88	grease	sewage into waterbody	cleaned and disinfected	12 Mile Bayou	none	5 gal.
151	1/11/2014	1:00:00 PM	O-49	4-5	I-49	MLK Boulevard	2 hrs.	LS10	bypass pump broken	sewage into waterbody	unstopped main; disinfected	McCain Creek	none	2000 gal.
152	1/12/2014	10:41:00 AM	W-46	4	5553 South Lakeshore Drive	Willow Point	1 hr.	LS11	sewer pump went down	sewage completely contained	called zone supervisor	Cross Lake	300 gal.	none
153	1/13/2014	5:32:00 PM	JJ-48	25	2534 Bert Kouns Industrial	Susan Drive	1 hr.	B89	grease and rags	sewage into waterbody	washed main; cleaned	Brush Bayou	none	700 gal.
154	1/14/2014	4:11:00 PM	Y-53	24	1322 Kings Highway	Williams Avenue	1 hr.	B90	roots and grease in main	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	1000 gal.
155	1/14/2014	3:09:00 PM	X-49	20	3606 Judson Street	Grove Street	1 hr.	B91	roots and grease in main	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	600 gal.
156	1/15/2014	2:48:00 PM	CC-55	30	Dillingham Avenue	Drexel Drive	1 hr.	B92	grease in main	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	10 gal.
157	1/20/2014	5:32:00 PM	Y-55	37	3210 Highland Avenue	Forest Avenue	1 hr.	BMH2	rags in invert	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	300 gal.
159	1/21/2014	3:02:00 PM	Y-55	43	639 Gladstone Street	Creswell Avenue	1 hr.	B93	tree roots in main	sewage into waterbody	unstopped main; cleaned	Bayou Pierre	none	250 gal.
158	1/21/2014	8:00:00 AM	KK-52	20-19	9450 Linwood Avenue	Flournoy Lucas Road	4 hrs.	BGM17	creek bed erosion area	sewage into waterbody	contractor made repairs	Brush Bayou	none	4500 gal.
160	1/22/2014	1:40:00 PM	W-56	38	Magnolia Avenue	Jordan Street	1 hr.	B94	blockage in main	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	250 gal.
161	1/22/2014	5:05:00 PM	X-56	26	Wheless Avenue	Gilbert Street	1 hr.	BMH3	rags in invert	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	500 gal.
162	1/23/2014	9:00:00 AM	X-59	26	Shreveport Barksdale Highway	Weyman Street	2 hrs.	B95	grease in main	sewage into waterbody	washed main; cleaned	Red River	none	500 gal.
163	1/23/2014	11:21:00 AM	W-55	68	431 Jordan Street	Gilbert Street	3 hrs.	B96	grease in main	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	500 gal.
164	2/3/2014	7:16:00 PM	LL-45	50-47	9514 Leaside Way	Ardis Taylor Drive	1 hr.	B97	grease	sewage into waterbody	washed main; cleaned	Gilmer Bayou	none	250 gal.
165	2/3/2014	7:08:00 PM	P-43	50-52	3371 Redstone Drive	Downing Street	1 hr.	B98	grease and rags	sewage into waterbody	washed main; cleaned	Cross Lake	none	500 gal.
166	2/4/2014	9:15:00 AM	EE-51	32-29	West 75th Street	Union Street	1.5 hrs.	B99	debris and roots	sewage into waterbody	unstopped main; cleaned	Brush Bayou	none	2000 gal.
167	2/5/2014	3:25:00 PM	Z-52	22-27	1635 Desoto Street	Linwood Avenue	1 hr.	B100	grease and debris	sewage into waterbody	unstopped main; cleaned	Bayou Pierre	none	250 gal.
168	2/10/2014	11:57:00 AM	DD-54	1-12	6500 Line Avenue	East 65th Street	1 hr.	B101	grease	sewage partially contained	unstopped main; cleaned	Bayou Pierre	500 gal.	200 gal.
169	2/11/2014	11:20:00 AM	W-48	20-21	1601 Glen Avenue	Michigan Avenue	1 hr.	B102	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	500 gal.
171	2/12/2014	5:24:00 AM	BB-46	48-49	4302 Josey Circle	McDaniel Drive	1 hr.	B103	grease	sewage into waterbody	washed main; cleaned	Brush Bayou	none	300 gal.
170	2/12/2014	12:09:00 AM	Z-55	L.S.	Highland Avenue	Dudley Drive	1 hr.	LS12	lift station down due to power outage	sewage partially contained	portable generator set up	Bayou Pierre	100 gal.	unknown
172	2/13/2014	11:23:00 AM	W-48	20-21	1601 Glen Avenue	Michigan Boulevard	1 hr.	B104	grease	sewage into waterbody	unstopped main; disinfected	Cross Lake	none	5 gal.
173	2/18/2014	2:23:00 PM	EE-56	3-4	7106 Creswell Road	Lloyd Lane	1 hr.	B105	grease	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	200 gal.

174	2/19/2014	3:00:00 PM	Y-57	48-52	3432 Beverly Place	East Kings Highway	1 hr.	B106	grease	sewage into waterbody	washed main; clean	Bayou Pierre	none	400 gal.	
175	2/27/2014	4:18:00 PM	W-55	20-68	431 Jordan Street	Magnolia Street	1 hr.	BGM18	grease and bad pipe	sewage into waterbody	unstopped main; app	Bayou Pierre	none	2000 gal.	
176	3/3/2014	4:42:00 PM	KK-48	41-39	1125 Kimberly Drive	Pitch Pine Drive	1 hr.	B107	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	1000 gal.	
177	3/3/2014	6:17:00 PM	X-56	42-31	136 Robinson Place	Alexander Avenue	1 hr.	B108	grease & roots	sewage into waterbody	unstopped main; app	Bayou Pierre	none	500 gal.	
178	3/7/2014	8:47:00 AM	U-53	60-66	400 Pete Harris Drive	Garden Street	4 hrs.	B109	debris in main	sewage into waterbody	washed main; applic	Cross Bayou	none	1400 gal.	
179	3/11/2014	1:49:00 PM	Y-55	19-14	600 Columbia Street	Creswell Avenue	1 hr.	U2	unknown	sewage into waterbody	washed main; clean	Bayou Pierre	none	500 gal.	
180	3/12/2014	2:48:00 PM	X-47	12-16	2513 Ridge Lake Drive	Lakeshore Drive	1 hr.	BGM19	bad spot in main	sewage into waterbody	washed main; clean	Cross Lake	none	300 gal.	
181	3/17/2014	2:00:00 PM	Y-55	21-24	3000 Highland Avenue	400 block Kings Highway	on-going	B110	sewer main broken c	sewage into waterbody	contractor replacing	Bayou Pierre	none	unknown	
182	3/20/2014	10:48:00 AM	CC-40	7-3	6414 Greenwood Road	Pines Road	4 hrs.	B111	heavy debris in man	sewage partially contain	bypass pump set up	Cross Lake	2500 gal.	500 gal.	
183	3/20/2014	1:00:00 PM	Y-57	52-48	3500 Beverly Place	East Kings Highway	unknown	B112	grease	sewage into waterbody	washed main; clean	Bayou Pierre	none	500 gal.	
184	3/20/2014	10:35:00 AM	L-49	15-14	924 Winter Garden Road	Addison Avenue	1 hr.	B113	roots and debris in r	sewage into waterbody	unstopped main; was	McCain Creek	none	500 gal.	
185	3/23/2014	12:11:00 PM	BB-40	FM	4400 Pines Road	Flores	6 hrs.	FM7	force main leak	sewage partially contain	bypass pump set up	Cross Lake	20,000 gal.	500 gal.	
186	3/24/2014	11:57:00 AM	Y-54	9	2761 Barrett Street	Rutherford Street	1 hr.	B114	debris in main	sewage into waterbody	unstopped main; app	Bayou Pierre	none	50 gal.	
187	3/24/2014	2:29:00 PM	P-43	60-48	Roy Road	Dr. MLK Jr. Drive	1 hr.	BMH4	tree limb in nvert	sewage into waterbody	washed main; applic	Cross Lake	none	1000 gal.	
188	3/31/2014	10:35:00 AM	JJ-44	16	9250 Dean Road	Armistead Street	1 hr.	B115	grease	sewage into waterbody	unstopped main; cle	Gilmer Bayou	none	2000 gal.	
189	4/3/2014	11:15:00 AM	AA-56	28	348 Atlantic Avenue	Norway Drive	2 hrs.	B116	grease	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	100 gal.	
190	4/4/2014	10:55:00 AM	X-52	13	2371 Levy Street	Texas Avenue	1 hr.	B117	grease	sewage into waterbody	unstopped main; dis	Bayou Pierre	none	50 gal.	
191	4/4/2014	8:47:00 PM	X-55	26-50	328 Robinson Place	Gilbert Avenue	1 hr.	BGM20	bad spot in main	sewage into waterbody	washed main; applic	Bayou Pierre	none	300 gal.	
193	4/4/2014	3:22:00 PM	Y-50	19-11	2924 Jackson Street	Kentucky Avenue	1 hr.	BGM21	bad spot in main	sewage into waterbody	washed main; applic	Cross Lake	none	700 gal.	
192	4/4/2014	2:11:00 PM	U-50	7	302 Hearne Avebue	Myrtle Street	1 hr.	BMH5	invert clogged	sewage into waterbody	washed main; applic	Cross Bayou	none	700 gal.	
195	4/5/2014	6:21:00 PM	Y-54	9-17	2749 Barrett	Kings Highway	1 hr.	B118	grease	sewage into waterbody	washed main; applic	Bayou Pierre	none	150 gal.	
194	4/5/2014	12:00:00 PM	Y-55	23-21	3000 Highland Avenue	400 block Kings Highway	5 days	DGM1	contractor replacing	sewage into waterbody	contractor completed	Bayou Pierre	none	unknown	
196	4/6/2014	10:00:00 AM	BB-51	31	1947 Nicholson Street	Union Avenue	all day	I129	I&I	sewage into waterbody	checked all manhole	Brush Bayou	none	unknown	
197	4/6/2014	2:00:00 PM	W-56	28-29	106 East Witchita Street	Alexander Avenue	all day	I130	I&I	sewage into waterbody	checked manholes f	Bayou Pierre	none	unknown	
198	4/6/2014	2:16:00 PM	W-55	63-55	400 Olive Street	Highland Avenue	36 hrs.	I131	I&I	sewage into waterbody	checked all manhole	Bayou Pierre	none	unknown	
201	4/7/2014	3:57:00 PM	Y-50	11-19	2924 Jackson Street	Arkansas Avenue	unknown	BGM22	main broken down	sewage into waterbody	washed main; disinfe	Cross Lake	none	500 gal.	
199	4/7/2014	12:00:00 PM	AA-54	38-49	Maryland Avenue	Ockley Drive	2 hrs.	I132	I&I	sewage into waterbody	dispatched for clean	Brush Bayou	none	unknown	
200	4/7/2014	12:28:00 PM	W-56	28	East Wyandotte Street	Alexander Avenue	1 hr.	I133	I&I	sewage into waterbody	checked manholes in	Bayou Pierre	none	unknown	
202	4/9/2014	1:30:00 PM	V-56	17	1910 Market Street	Vine Street	2 hrs.	B119	heavy grease	sewage into waterbody	unstopped main; dis	Red River	none	50 gal.	
203	4/10/2014	2:58:00 PM	Z-53	29-31	3505 Dowdell Street	Claiborne Avenue	1 hr.	B120	riags and grease in n	sewage into waterbody	washed main; applic	Bayou Pierre	none	200 gal.	
204	4/16/2014	10:19:00 AM	X-51	29	Carrie Street	Stonewall Street	2 hrs.	B121	heavy debris	sewage into waterbody	unstopped main; dis	Bayou Pierre	none	1000 gal.	
205	4/21/2014	8:00:00 AM	FF-50	4	Trammel Drive	Valley View Drive	3 hrs.	BGM23	sewer main broken c	sewage partially contain	vacuumed sewer, by	Bayou Pierre	10,000 gal.	500 gal.	
206	4/21/2014	9:25:00 AM	X-56	y clean-	Merrick Street	Centenary Boulevard	1 hr.	DGM2	contractor bored hole	sewage into waterbody	washed main; applic	Bayou Pierre	none	200 gal.	
207	4/22/2014	11:00:00 AM	U-55	42-40	1025 Marshall Street	Franklin Street	unknown	B122	heavy debris	sewage into waterbody	unstopped main	Red River	none	unknown	
208	4/22/2014	11:00:00 AM	Y-50	18	2921 Penick Street	Kentuck Avenue	1.5 hrs.	BGM24	break in main	sewage into waterbody	washed & vacuumed	Cross lake	none	200 gal.	
210	4/23/2014	9:10:00 AM	X-51	18	2300 Darian Street	Mabel Street	1 hr.	B123	grease and debris	sewage into waterbody	unstopped main; app	Bayou Pierre	none	100 gal.	
209	4/23/2014	1:58:00 PM	Y-53	14-16	1322 Kings Highway	Williams Avenue	1 hr.	BGM25	broken sewer main	sewage into waterbody	washed main; applic	Bayou Pierre	none	50 gal.	
211	4/24/2014	2:14:00 PM	W-56	16-17	153/149 East Jordan Str	Cornwell Avenue	1 hr.	BGM26	broken sewer main	sewage into waterbody	washed main; applic	Bayou Pierre	none	100 gal.	
212	4/28/2014	10:40:00 AM	CC-54	3-39	1049 Southfield Road	Fairfield Avenue	2 hrs.	B124	heavy roots in main	sewage into waterbody	unstopped main; app	Bayou Pierre	none	500 gal.	
213	4/30/2014	10:45:00 AM	AA-53	6-7	3700 St. Vincent Avenue	Ockley Drive	2 hrs.	B125	grease	sewage into waterbody	unstopped main; app	Bayou Pierre	none	250 gal.	
214	5/1/2014	1:30:00 PM	X-53	31	2400 Southern Avenue	Prospect Street	1 hr.	B126	debris in main	sewage into waterbody	unstopped main; app	Bayou Pierre	none	100 gal.	
215	5/1/2014	2:38:00 PM	X-48	39-31	2701 Hassett Avenue	Milton Street	1 hr.	B127	grease	sewage into waterbody	washed main; applic	Cross Lake	none	50 gal.	
216	5/2/2014	9:15:00 AM	LL-45	48	3312 Ardis Taylor Drive	Leaside Way	1 hr.	B128	debris in main	sewage into waterbody	washed main; applic	Gilmer Bayou	none	200 gal.	
217	5/2/2014	2:47:00 PM	II-50	19	8939 Marlow Street	Turner Drive	1 hr.	B129	grease	sewage into waterbody	washed main; applic	Brush Bayou	none	500 gal.	
218	5/5/2014	9:50:00 AM	Z-47	11	Golf Links Boulevard	Greenwood Road	1 hr.	BGM27	break in main	sewage into waterbody	washed main; applic	Cross Lake	none	100 gal.	
220	5/7/2014	10:26:00 AM	Z-47	8-11	3131 Country Club Drive	Gold Links Boulevard	1 hr.	BMH6	mud in invert	sewage into waterbody	washed main; applic	Cross Lake	none	200 gal.	
219	5/7/2014	8:09:00 AM	Z-57	8-9	156 Ardmore Avenue	Anniston Avenue	1 hr.	U3	unknown	sewage into waterbody	wash main with wash	Bayou Pierre	none	100 gal.	
221	5/8/2014	11:39:00 AM	X-56	11-10	306 Merrick Street	Coty Street	1 hr.	BGM28	break in main	sewage into waterbody	washed main; applic	Bayou Pierre	none	20 gal.	
223	5/9/2014	10:25:00 AM	X-52	15-13	23 Levy Street	Texas Avenue	1 hour	BGM29	break in main	sewage into waterbody	washed main; dispat	Bayou Pierre	none	100 gal.	
222	5/9/2014	9:00:00 AM	Z-52	25-24	1706 Fulton Street	Wallace Street	1 hr.	I134	I&I	sewage into waterbody	waited for I&I to de	Bayou Pierre	none	100 gal.	
224	5/9/2014	11:12:00 AM	Y-42	2	Parkwood Drive	Dianne Street	2 hrs.	I135	I&I	sewage into waterbody	applied disinfectant	Cross Lake	none	unknown	
225	5/12/2014	12:30:00 PM	X-56	7	306 Merrick Street	Coty Street	1 hr.	BGM30	break in main	sewage into waterbody	unstopped main; app	Bayou Pierre	none	50 gal.	
226	5/12/2014	3:11:00 PM	Y-55	43	Dillingham Avenue	Gladstone Avenue	1 hr.	BGM31	bad spot in main	sewage into waterbody	washed main; applic	Bayou Pierre	none	unknown	

	DATE	TIME	QtrSect	MH	LOCATION	NEARIntersection	TIME	CLASS	CAUSE	ENVIR IMPACT	ACTION	STREAM	RECOVER	LOST
1	5/13/2014	8:15:00 AM	Z-52	24	1706 Fulton Street	Wallace Street	1 hr.	I1	I&I	sewage into waterbody	washed main; dispat	Bayou Pierre	none	100 gal.
2	5/14/2014	5:25:00 PM	X-49	39	Catherine Street	San Jacinto Avenue	2 hrs.	B1	gease	sewage into waterbody	washed main; applie	Cross Lake	none	30 gal.
3	5/14/2014	5:32:00 PM	KK-48	17-19	Savanna Drive	Cloverdale Drive	1 hr.	U1	unknown	sewage into waterbody	washed main; applie	Brush Bayou	none	25 gal.
4	5/15/2014	11:57:00 AM	EE-51	29-32	West 75th Street	Union Avenue	2 hrs.	U3	unknown	sewage into waterbody	unstopped main; flus	Brush Bayou	none	30 gal.
5	5/16/2014	6:40:00 PM	KK-53	22	9412 Wrenwood Boule	Northbrook Drive	2 hrs.	B2	grease	sewage into waterbody	washed main	Brush Bayou	none	1000 gal.
6	5/19/2014	2:43:00 PM	II-50	32-36	1834 South Brookwood	Rosewood Drive	1 hr.	B3	roots	sewage into waterbody	washed main; disinfe	Brush Bayou	none	50 gal.
7	5/20/2014	5:20:00 PM	DD-55	9	6409 Line Avenue	Oak Hill Drive	1 hr.	B4	grease	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	75 gal.
8	5/27/2014	12:00:00 AM	Y-55	43	661 Gladstone Boulev	Creswell Avenue	1 hr.	B5	roots	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.
9	5/28/2014	9:45:00 PM	JJ-44	4	Dean Road	Armstead Drive	2 hrs.	B6	grease	sewage into waterbody	washed main; pouer	Gilmer Bayou	none	25 gal.
10	5/29/2014	5:05:00 PM	Y-50	17	2924 Jackson Street	Arkansas Avenue	2 hrs.	MHB1	invert clogged	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.
11	6/2/2014	10:27:00 AM	R-45	01	2900 Round Grove La	Kemp Lane	1 hr.	B7	debris	sewage into waterbody	washed main; applie	12 Mile Bayou	none	100 gal.
12	6/2/2014	9:12:00 AM	BB-54	5	1046 Ontario Street	Glen Iris Boulevard	1 hr.	B8	debris	sewage into waterbody	unstopped main; app	Bayou Pierre	none	200 gal.
13	6/3/2014	11:26:00 AM	CC-40	4	6414 Greenwood Road	Broadacres Road	2 hrs.	B9	grease	sewage into waterbody	unstopped main; app	Cross Lake	none	3000 gal.
14	6/3/2014	2:07:00 PM	Y-50	18-11	2932 Jackson Street	Kentucky Avenue	2 hrs.	BGM1	break in main	sewage into waterbody	washed main; applie	Cross Lake	none	250 gal.
15	6/5/2014	11:30:00 AM	Y-50	17	2951 Penick Street	Kentucky Street	1 hr.	B10	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	200 gal.
16	6/6/2014	11:00:00 AM	KK-46	14	3032 Burson Drive	Mansfield Road	1 hr.	B11	debris	sewage into waterbody	unstopped main; app	Boggy Bayou	none	100 gal.
17	6/10/2014	3:31:00 PM	KK-49	27-19	7118 Waymon Drive	Baird Road	2 hrs.	B12	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	100 gal.
18	6/10/2014	2:08:00 PM	LL-49	20	2025 Dulverton Court	Blom Boulevard	1 hr.	MHB2	inflow preventer	sewage into waterbody	moved inflow preven	Brush Bayou	none	20 gal.
19	6/16/2014	11:30:00 AM	W-45	18-21	5638 South Lakeshore	Mirador Drive	2 hrs.	B13	grease	sewage into waterbody	washed main; dispat	Cross Lake	none	100 gal.
20	6/18/2014	11:30:00 AM	Y-53	clean c	2940 Samford	Glen Oak Street	1 hr.	B14	debris in main	sewage into waterbody	unstopped main; app	Bayou Pierre	none	50 gal.
21	6/24/2014	8:47:00 AM	W-48	4	3622 Bellaire Avenue	Jewella Avenue	1 hr.	B15	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.
22	6/24/2014	10:55:00 AM	W-48	27-28	1600 Jewella Avenue	Michigan Boulevard	1 hr.	B16	roots/grease	sewage into waterbody	washed main; applie	Cross Lake	none	200 gal.
23	6/24/2014	12:41:00 PM	AA-54	South	901 Ockley Drive	Betty Virginia Circle	1.5 hrs.	LS1	one pump opera	sewage into waterbody	--	Bayou Pierre	none	15,800 gal.
24	6/30/2014	9:55:00 AM	Y-58	17-13	2946 West Cavett Driv	Camilla Drive	unknown	B17	grease	sewage into waterbody	unstopped main	Old River	none	unknown
25	6/30/2014	5:53:00 AM	X-56	2	136 Robinson Place	Centenary Boulevard	3 days	U2	unknown	sewage into waterbody	washed main; applie	Bayou Pierre	none	200 gal.
26	7/12/2014	11:59:00 AM	LL-51	29-30	853 Rose Lane	Wesso Circle	2 hrs.	B18	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	50 gal.
27	7/16/2014	4:36:00 PM	W-51	54	1981 Hearne Avenue	Lakeshore Drive	1 hr.	B19	grease	sewage into waterbody	washed main; applie	Cross Bayou	none	50 gal.
28	7/18/2014	12:50:00 PM	EE-51	29	West 75th Street	Union Avenue	1 hr.	BGM2	bad pipe in inver	sewage into waterbody	unstopped main; app	Brush Bayou	none	500 gal.
29	7/22/2014	3:21:00 PM	W-55	41	Creswell Avenue	Wichita Street	1 hr.	B20	grease	sewage into waterbody	wash main; applied	Bayou Pierre	none	100 gal.
30	7/22/2014	10:00:00 AM	W-56	6-8	200 Jordan Street	Coty Street	2 hrs.	BGM3	hole in main	sewage into waterbody	repairs scheduled fo	Bayou Pierre	none	500 gal.
31	7/23/2014	2:51:00 PM	Q-47	62-57	2003 Jamison Street	Simpkin Drive	1 hr.	U4	unknown	sewage into waterbody	washed main; applie	12 Mile Bayou	none	100 gal.
32	7/24/2014	3:00:00 PM	MM-58	Norris	10198 Thornwood Driv	Norris Ferry Road	5 hrs.	LS2	power out due to	sewage partially contain	sewage vacuumed u	Long Lake	3600 gal.	7171 gal.
33	7/24/2014	8:00:00 AM	Y-38	Tou-D	6826 Jefferson Paige f	Jefferson Paige Road	1 hr.	LS3	power lost due to	sewage into waterbody	called AEP/SWEPCO	Cross Lake	none	6 gal.
34	7/28/2014	7:30:00 PM	PP-60	Swamp	2912 Long Lake Drive	Falmoth Drive	2 hrs.	LS4	contractor discor	sewage into waterbody	bypass pump set up	Long Lake	none	145 gal.
35	8/2/2014	8:05:00 PM	Y-57	55	Stratford Avenue	Johnette Street	1 hr.	B21	grease	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.
36	8/5/2014	1:00:00 PM	Z-47	20-27	Greenwood Road	Golf Links Boulevard	1 hr.	B22	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	100 gal.
37	8/11/2014	10:50:00 AM	Y-50	33	3305 Exposition Avenu	Huston Street	1 hr.	B23	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	50 gal.
38	8/11/2014	3:38:00 PM	CC-54	60/clea	5904 Henderson Aven	Pieeremont Road	1 hr.	B24	roots/possible br	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.
39	8/12/2014	7:55:00 AM	CC-39	1	6414 Greenwood Road	Broadacres Road	unknown	MHB3	blocks in manho	sewage into waterbody	unstopped main; app	Cross Lake	none	1500 gal.
40	8/14/2014	2:38:00 PM	JJ-42	5-40	Newcastle Boulevard	Bert Kouns Industrial	unknown	B25	grease	sewage into waterbody	washed main; applie	Gilmer Bayou	none	1000 gal.
41	8/15/2014	4:27:00 PM	KK-44	4	9250 Dean Road	Armstead Drive	1 hr.	U5	unknown	sewage into waterbody	unstopped main; disi	Gilmer Bayou	none	20 gal.
42	8/15/2014	4:48:00 PM	Y-55	44	639 Gladstone Boulev	Creswell Avenue	1 hr.	U6	unknown	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	50 gal.
43	8/16/2014	8:30:00 PM	JJ-52	Brushy	Mykanos Trace	Briarcrest Street	2 hrs.	LS5	both pumps tripp	sewage into waterbody	crews got both pump	Brush Bayou	none	60 gal.
44	8/18/2014	7:30:00 PM	GG-46	Meado	Meadow Parkway Driv	Meriwether Road	1 hr.	LS6	power failure to	sewage into waterbody	power restored	Gilmer Bayou	none	140 gal.
45	8/18/2014	8:30:00 PM	JJ-52	Brushy	Mykanos Trace	Briarcrest Street	1 hr.	LS7	both pumps tripp	sewage into waterbody	crews got both pump	Brush Bayou	none	30 gal.
46	8/20/2014	11:10:00 AM	Y-50	28	3015 Jackson Street	Kentucky Avenue	1 hr.	BGM4	roots/broken ma	sewage into waterbody	unstopped main; app	Cross Lake	none	100 gal.
47	8/25/2014	1:38:00 PM	CC-57	7	321 Southfield Road	Glen Cove Street	1 hr.	B26	grease	sewage into waterbody	unstopped main; app	Bayou Pierre	none	50 gal.
48	9/1/2014	3:20:00 PM	Z-47	5-7	3100 Iberville Drive	Chamberlain Drive	1 hr.	B27	grease	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.
49	9/1/2014	2:00:00 PM	EE-59	River V	Old River Road	Bert Kouns Industrial	4 hrs.	LS8	SWEPCO transf	sewage into waterbody	portable generator se	Red River	none	70 gal.
50	9/2/2014	10:36:00 AM	NN-58	--	760 Overton Brooks R	Norris Ferry Road	4 days	FM1	small leak in forc	sewage completely con	force main repaired;	Long Lake	30,000 gal	none
51	9/4/2014	2:38:00 PM	V-55	45-36	443 Vine Street	Highland Avenue	1 hr.	B28	grease	sewage into waterbody	washed main; applie	Red River	none	50 gal.
52	9/10/2014	6:02:00 PM	Z-56	52	3855 Victory Drive	East Gregg Street	7 hrs.	B29	roots & grease; t	sewage into waterbody	grease removed/mai	Bayou Pierre	none	350 gal.
53	9/11/2014	7:48:00 PM	BB-46	42-41	4913 Dandridge Place	Bethume Drive	2 hrs.	B30	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	200 gal.
54	9/17/2014	8:46:00 PM	X-49	36	3202 Catherine Street	McCutcheon Avenue	1 hr.	U7	Unknown	sewage into waterbody	washed main; applie	Cross Lakes	none	10 gal.

55	9/21/2014	3:07:00 PM	II-49	24	Hawthorne Drive	Lyles Lane	1 hr.	MHB4	sewer charged;	sewage into waterbody	washed main; applie	Brush Bayou	none	300 gal.	
56	9/22/2014	5:47:00 PM	B-58/A	9/35	227 Carrollton Avenue	Anniston Avenue	1 hr.	B31	roots	sewage into waterbody	washed main; applie	Bayou Pierre	none	75 gal.	
57	9/25/2014	3:53:00 PM	HH-59	22-21	316 South Wickford Ci	Smitherman Drive	1 hr.	B32	roots	sewage into waterbody	washed main; disinf	Sand Beach Bayo	none	10 gal.	
58	9/29/2014	10:52:00 AM	DD-48	8-9	3950 West 70th Street	Jewella Avenue	1.5 days	BGM5	sewer main brok	sewage into waterbody	by pass pump set up	Brush Bayou	none	10,000 gal.	
59	9/29/2014	3:57:00 PM	BB-54	1-5	1108 Ontario Street	Glen Iris Boulevard	1 hr.	U8	unknown	sewage into waterbody	washed main; disinf	Bayou Pierre	none	20 gal.	
60	10/4/2014	1:35:00 PM	GG-60	40	8525 Chalmette Drive	Jackson Square Boul	unknown	B33	grease	sewage into waterbody	washed main	Sand Beach Bayo	none	300 gal.	
61	10/7/2014	2:49:00 PM	Q-51	14-15	Barton Drive	Beauregard Drive	2 hrs.	B34	rags and grease	sewage into waterbody	washed main; disinf	12 Mile Bayou	none	100 gal.	
62	10/8/2014	2:43:00 PM	GG-55	15-16	Line Avenue	Millicent Way	1 hr.	B35	roots & grease	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
63	10/10/2014	4:12:00 PM	Z-56	33-32	East Slattery Boulevar	Alexander Avenue	1 hr.	B36	tree roots and de	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
64	10/12/2014	6:58:00 AM	Y-50	8	2818 Kentucky Avenue	Hardy Street	2 hrs.	B37	debris in main	sewage into waterbody	washed main; clean	Cross Lake	none	200 gal.	
65	10/12/2014	12:42:00 PM	X-49	36	3203 Catherine Street	McCutcheon Avenue	2 hrs.	B38	debris in main	sewage into waterbody	washed main; clean	Cross Lake	none	250 gal.	
66	10/13/2014	9:23:00 PM	X-55	99-40	2700 Gilbert Drive	Wilkinson Street	1 hr.	B39	grease/debris in	sewage into waterbody	washed main cleanu	Bayou Pierre	none	600 gal.	
67	10/13/2014	3:31:00 PM	W-48	22	1609 Hassett Avenue	Michigan Boulevard	1 hr.	LS18	bypass pump st	sewage into waterbody	Red River Pump Co.	Cross Lake	none	3000 gal.	
68	10/14/2014	7:43:00 PM	BB-50	33-34	2809 Essex Stret	Fairy Avenue	1 hr.	B40	grease & roots	sewage into waterbody	washed main; clean	Brush Bayou	none	60 gal.	
69	10/16/2014	1:02:00 PM	X-54	48	2500 Southern Avenue	Prospect Street	1 hr.	B41	grease in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
70	10/16/2014	2:07:00 PM	JJ-52	11	9200 Mykanos Trace	Brushy Bayou Boulev	1 hr.	LS9	lift station down	sewage into waterbody	dispatched sewer lift	Brush Bayou	none	50 gal.	
71	10/20/2014	2:15:00 PM	U-54	47	719 Edwards Street	Crockett Street	1 hr.	B42	debris in main	sewage into waterbody	washed main cleanu	Red River	none	50 gal.	
72	10/21/2014	10:06:00 AM	V-57	8	1243 Crofton Street	Stoner Avenue	1 hr.	B43	debris in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
73	10/22/2014	11:00:00 AM	CC-48	54	Broadway Avenue	Carver Street	3 hrs.	BGM6	manhole broken	sewage into waterbody	washed main; dispat	Brush Bayou	none	3000 gal.	
74	10/22/2014	12:10:00 PM	Y-54	9	2907 Barrett Street	Rutherford Street	1 hr.	BGM7	bad pipe	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
75	10/23/2014	10:40:00 AM	II-59	3	518 South Dresden Co	Village Green Drive	1 hr.	B44	debris in main	sewage into waterbody	washed main; applie	Sand Beach Bayo	none	50 gal.	
76	10/26/2014	1:31:00 PM	W-48	28	Michigan Boulevard	Jewella Avenue	unknown	B45	heavy grease	sewage into waterbody	unstopped main; app	Cross Lake	none	1000 gal.	
77	11/7/2014	5:01:00 PM	II-47	16-15	8977 Walker Road	Mackey Lane	1 hr.	B46	grease and rags	sewage into waterbody	washed main; applie	Gilmer Bayou	none	150 gal.	
78	11/10/2014	1:30:00 PM	BB-54	1-5	1108 Ontario Street	Glen Irus Boulevard	1 hr.	BGM8	bad spot in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	10 gal.	
79	11/14/2014	3:17:00 PM	DD-53	31-27	302 West 69th Street	Dowdell Street	1 hr.	B47	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	70 gal.	
80	11/15/2014	9:19:00 AM	U-49	5	209 Holcomb Drive	Westheimer Street	6 hrs.	B48	roots and grease	sewage into waterbody	washed main; applie	Cross Bayou	none	1500 gal.	
81	11/24/2014	12:50:00 PM	DD-54	--	6401 Line Avenue	Oak Hill Drive	2 hrs.	B49	heavy grease an	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
82	12/5/2014	10:14:00 AM	JJ-52	Brushy	9398 Briarcrest Street	Mykanos Trace	1 hr.	LS10	Lift station down	sewage into waterbody	called sewer lift crew	Brush Bayou	none	100 gal.	
83	12/7/2014	6:55:00 PM	Z-56	clean-	270 East dudley Drive	Cornwell Avenue	1 hr.	B50	grease	sewage into waterbody	washed main; disinf	Bayou Pierre	none	100 gal.	
84	12/8/2014	3:12:00 PM	X-56	29-30	112 East Wilkinson Str	Alexander Avenue	1 hr.	B51	grease	sewage into waterbody	washed main	Bayou Pierre	none	50 gal.	
85	12/8/2014	5:01:00 PM	EE-52	18-19	537 West 76th Street	Wallace Avenue	1 hr.	B52	grease	sewage into waterbody	washed main disinf	Brush Bayou	none	100 gal.	
86	12/9/2014	3:10:00 PM	Z-48	6-7	3914 Oakcrest Street	Sandra Street	1 hr.	B53	roots & grease	sewage into waterbody	washed main; disinf	Cross Lake	none	50 gal.	
87	12/9/2014	5:51:00 PM	BB-54	1-5	1108 Ontario Street	Glen Iris Boulevard	1 hr.	BGM9	bad spot in main	sewage into waterbody	washed main; disinf	Bayou Pierre	none	50 gal.	
88	12/9/2014	12:40:00 PM	EE-56	2	510 Lloyd Lane	Gilbert Drive	1 hr.	U9	unknown	sewage into waterbody	washed main; disinf	Bayou Pierre	none	50 gal.	
89	12/10/2014	9:28:00 AM	DD-58	19	6620 Youree Drive	West 70th Street	1 hr	B54	grease	sewage into waterbody	washed main; clean	Sand Beach Bayo	none	300 gal.	
90	12/10/2014	9:00:00 AM	Y-48	--	3700 Hardy Street	Jewella Avnu	12 hrs.	LS11	hose leaking on	sewage into waterbody	replaced hose	Cross Lake	none	100 gal.	
91	12/15/2014	10:10:00 AM	AA-55	1	3814 Creswell Avenue	Cecile Place	1 hr.	B55	grease	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	200 gal.	
92	12/15/2014	10:44:00 AM	AA-54	36-35	4057 Baltimore Avenue	Lawhon Street	1 hr.	B56	grease	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	10 gal.	
93	12/15/2014	2:16:00 PM	X-53	27-26	2625 William Avenue	Wilkinson Street	unknown	BGM10	bad spot in main	sewage into watebody	washed main; disinf	Bayou Pierre	none	80 gal.	
94	12/19/2014	11:34:00 AM	U-50	15	300 Hearne Avenue	Myrtle Street	unknown	BGM11	brick in invert	sewage into waterbody	set up bypass pump;	Cross Bayou	none	100 gal.	
95	12/19/2014	11:36:00 AM	x-49	39	3431 Catherine Street	San Jacinto Avenue	3 hrs.	LS12	bypass pump co	sewage into waterbody	increase pupmp pow	Cross Lake	none	1500 gal.	
96	12/19/2014	11:09:00 AM	Z-55	41-42	424 McCormick Avenue	Highland Avenue	ongoing	U10	unknown	sewage into waterbody	washed main; dispat	Bayou Pierre	none	6500 gal.	
97	12/21/2014	5:22:00 PM	JJ-46	cleano	9141 Walker Road	Bert Kouns Industrial	1 hr.	B57	grease	sewage into waterbody	washed main; vacuu	Boggy Bayou	none	500 gal.	
98	12/22/2014	10:20:00 AM	W-45	18-22	5638 South Lakeshore	Mirador Drive	unknown	B58	grease	sewage into waterbody	washed main; disinf	Cross Lake	none	200 gal.	
99	12/22/2014	3:49:00 PM	V-53	22	1247 Oakland Street	Lawrence Street	1 hr.	B59	grease	sewage into waterbody	washed main; disinf	Cross Bayou	none	75 gal.	
100	12/22/2014	1:06:00 PM	Y-54	9-17	2761 Barrett Street	Rutherford Street	1 hr.	BGM12	unknown; bad sr	sewage into waterbody	washed main; clean	Bayou Pierre	none	100 gal.	
101	12/22/2014	2:20:00 PM	CC-56/	41/6	6711 Querbes Drive	Berkshire Place	1 hr.	BGM13	bad spot in main	sewage into waerbody	washed main; disinf	Bayou Pierre	none	20 gal.	
102	12/24/2014	2:28:00 PM	KK-49/	52/44	9520 Baird Road	Evergreen Drive	1 hr.	B60	grease & roots	sewage into waterbody	washed main; disinf	Brush Bayou	none	50 gal.	
103	12/24/2014	5:26:00 PM	Force N	--	545 Overton Brooks R	Norris Ferry Road	unknown	FM2	air release valve	sewage into waterbody	dam built around ma	Long Lake	none	70 gal.	
104	1/3/15	2:53:00 PM	EE-51	20	748 West 73rd Street	Union Avenue	unknown	II2	l&l	sewage into waterbody	--	Brush Bayou	none	100 gal.	
105	1/5/15	10:50:00 PM	AA-51	13 to 1	2500 Drexel Street	Virginia Avenue	1 hr.	B61	roots & grease	sewage into waterbody	unstopped main; clea	Brush Bayou	none	1000 gal.	
106	1/7/15	9:00:00 AM	DD-56	11	6345 Querbes Drive	Brookmeade Drive	48 hrs.	II26	excessive rain	sewage into waterbody	cleaned and disinfec	Bayou Pierre	none	48,000 gal.	
107	1/12/15	11:08:00 AM	V-49	21-12	3417 Sunset Drive	Murray Lane	unknown	B62	roots	sewage into waterbody	set upbypass pump	Cross Lake	none	200 gal.	
108	1/12/15	5:25:00 PM	EE-49	36-28	3301 Red Bud Lane	Woodhaven Lane	1 hr.	B63	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	20 gal.	
109	1/12/15	5:30:00 PM	X-49	28-23	3430 Judson Street	Mertis Avenue	1 hr.	B64	grease	sewage into waterbody	washed main; applie	Cross Lake	none	70 gal.	

110	1/13/15	9:15:00 AM	X-49	33	3400 Catherine Street	San Jacinto Avenue	1 hr.	B65	roots	sewage into waterbody	washed main; washed	Cross Lake	none	200 gal.	
111	1/13/15	2:29:00 PM	EE-51	28-31	737 Pinetree Drive	Brushy Lane	1 hr.	B66	grease	sewage into waterbody	washed main; applied	Brush Bayou	none	50 gal.	
112	1/16/15	1:24:00 PM	Z-53	29-30	3505 Dowdell Street	Dickinson Street	unknown	U11	unknown	sewage into waterbody	washed main; disinfected	Bayou Pierre	none	150 gal.	
113	1/16/15	2:39:00 PM	X-53	30-29	2400 Samford Avenue	Bolinger Street	unknown	U12	unknown	sewage into waterbody	washed main; applied	Bayou Pierre	none	150 gal.	
114	1/20/15	6:02:00 PM	II-49	15-17	8919 Hawthorne Drive	Toronto Lane	unknown	B67	grease	sewage into waterbody	washed main; applied	Brush Bayou	none	200 gal.	
115	1/21/15	2:47:00 PM	Q-51	14-13	1600 Barton Drive	Beauregard Drive	unknown	B68	grease	sewage into waterbody	washed main; disinfected	12 Mile Bayou	none	75 gal.	
116	1/22/15	11:30:00 AM	II-49	17	8900 Hawthorne Drive	Toronto Lane	2 hrs.	B69	grease	sewage into waterbody	washed main; applied	Brush Bayou	none	300 gal.	
117	1/22/15	9:00:00 AM	DD-56	11	6345 Querbes Drive	Brookmeade Drive	48 hrs.	II3	excessive rain	sewage into waterbody	cleaned and disinfected	Bayou Pierre	none	48,000 gal.	
118	1/22/15	3:32:00 PM	U-53	10-9	1404 Alston Street	North Allen Avenue	unknown	II4	I&I	sewage into waterbody	checked manholes	Cross Bayou	none	unknown	
119	1/22/15	4:05:00 PM	U-52	41	1829 Perrin Street	Norma Avenue	unknown	II5	I&I	sewage into waterbody	--	Cross Bayou	none	unknown	
120	1/22/15	3:59:00 PM	R-44	Havan	3050 Gordonia Drive	Haavanna Street	unknown	LS13	lift station down	sewage into waterbody	called sewer lift crew	12 Mile Bayou	none	150 gal.	
121	1/23/15	9:05:00 AM	Z-52	17	1635 Desoto Street	Linwood Avenue	1 hr.	B70	roots in main	sewage into waterbody	washed main; applied	Bayou Pierre	none	100 gal.	
122	1/26/15	5:21:00 PM	X-55	43-55	Pinehurst Boulevard	Prospect Street	1 hr.	B71	roots	sewage into waterbody	washed main; applied	Bayou Pierre	none	50 gal.	
123	1/26/15	4:42:00 PM	AA-55	20-26	623 Ockley Drive	Creswell Avenue	1 hr.	U13	unknown	sewage into waterbody	washed main; applied	Bayou Pierre	none	75 gal.	
124	1/27/15	11:30:00 AM	Q-51	25	Nelson Street	Corporate Drive	2 hrs.	B72	grease	sewage into waterbody	washed main	12 Mile Bayou	none	200 gal.	
125	1/31/15	1:12:00 PM	W-55	37	653 Wyandotte Street	1700 Irving Place	1 hr.	B73	debris in main	sewage into waterbody	washed main; applied	Bayou Pierre	none	50 gal.	
126	2/2/15	5:40:00 PM	W-56	11, 9	Egan Street	Alexander Street	1 hr.	B74	roots	sewage was not contained	unstopped main; washed	Red River	none	75 gal.	
127	2/3/15	5:14:00 PM	X-50	23, 22	2810 Judson Street	Missouri Avenue	1 hr.	B75	roots & grease	sewage into waterbody	unstopped main; washed	Cross Bayou	none	50 gal.	
128	2/5/15	11:30:00 AM	Y-53	NR	2940 Sandford	West Kirby	1 hr.	B76	debris	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	150 gal.	
129	2/5/15	9:26:00 AM	AA-55	NR	740 Oneonta Street	4100 Line Avenue	1 hr.	BGM14	broken pipe	sewage into waterbody	washed main; applied	Bayou Pierre	none	30 gal.	
130	2/5/15	4:10:00 PM	V-56	18, 17	1910 Market Street	Vine Street	1 hr.	BGM15	roots/possible break	sewage into waterbody	unstopped main; disinfected	Red River	none	30 gal.	
131	2/9/15	11:00:00 AM	DD-53	NR	582 East 70th Street	Line Avenue	1 hr.	B77	debris in main	sewage into waterbody	unstopped main; disinfected	Bayou Pierre	none	100 gal.	
132	2/22/15	10:30:00 AM	NY-48	13	3655 1/2 Stonewall Street	Jewella Avenue	1 hr.	BGM16	sewer main broken	sewage completely contained	cleaned and disinfected	Cross Lake	N/A	N/A	
133	2/23/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II6	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
134	2/24/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II7	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
135	2/25/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II8	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
136	2/26/15	1:47:00 PM	CC-52	19	6020 Linwood Avenue	West 60th Street	1 hr.	BGM17	sewer main broken	sewage into waterbody	unstopped main; cleaned	Brush Bayou	none	150 gal.	
137	3/2/15	3:31:00 PM	X-51	29	2200 Stonewall Street	I-20	1 hr.	B78	grease in sewer	sewage was not contained	washed main; disinfected	Cross Lake	none	200 gal.	
138	3/3/15	5:01:00 PM	Z-53	4 to 29	Linwood Avenue	Dickinson Street	1 hr.	B79	grease	sewage into waterbody	unstopped main; washed	Bayou Pierre	none	200 gal.	
139	3/3/15	4:54:00 PM	Z-54	15	830 Ratcliff Street	Line Avenue	30 min.	LS14	hose leaking on	sewage into waterbody	washed main; cleaned	Bayou Pierre	none	100 gal.	
140	3/4/15	2:40:00 PM	Y-53	4 to 13	1446 Glen Oak	Kings Highway	1 hr.	B80	clogged main	--	washed sewer main	Bayou Pierre	none	500 gal.	
141	3/6/15	4:30:00 PM	XX-49	N/A	3655 1/2 Stonewall	Jewella Avenue	1 hr.	B81	sewer main broken	sewage partially contained	repaired manhole; cleaned	Cross Lake	50 gal.		
142	3/9/15	9:53:00 AM	EE-51	17 to 1	926 Windsor	N/A	1 hr.	II10	excessive rain	sewage into waterbody	washed main; disinfected	--	none	1,000 gal.	
143	3/9/15	10:10:00 AM	W-45	N/A	5553 South Lakeshore	West Chester Street	2 hrs.	II11	excessive rain	sewage into waterbody	--	Cross Lake	none	1,500 gal.	
144	3/9/15	1:47:00 PM	DD-56	11 & 1	Querbes Drive	Brookmeade Drive	1 hr.	II12	excessive rain	sewage into waterbody	disinfected/washed	Bayou Pierre	none	1,200 gal.	
145	3/9/15	9:25:00 AM	GG-49	7	8227 Lucille Avenue	Betty Street	1 hr.	II9	excessive rain	sewage into waterbody	washed sewer main	Brush Bayou	none	500 gal.	
146	3/10/15	4:15:00 PM	V-50	13	3158 Murphy Street	Alabama Avenue	1 hr.	FM3	sewer force main	sewage into waterbody	Repaired main; cleaned	Cross Bayou	3,000 gal	1,600 gal	
147	3/10/15	11:00:00 AM	NR	NR	Willow Point I	South Lakeshore Drive	8 hrs.	LS15	both pumps wind	sewage into waterbody	put station on bypass	Cross Lake	23,936 to	2,936 gal.	
148	3/12/15	7:21:00 AM	EE-53	14 to 1	367 West 73rd street	NR	1 hr.	B82	debris and roots	sewage into waterbody	unstopped main; washed	Brush Bayou	none	500 gal.	
149	3/12/15	8:51:00 AM	DD-55	6 to 7	400 Dru Circle	NR	1 hr.	II13	excessive rain	sewage into waterbody	checked manholes	Bayou Pierre	none	500 gal.	
150	3/12/15	8:51:00 AM	V-55	17 to 1	1601 Market Street	NR	1 hr.	II14	excessive rain	sewage into waterbody	repaired sewer main	Red River	none	50 gal.	
151	3/12/15	9:12:00 AM	NR	NR	Randolph Street	Hearne Avenue	1 hr.	II15	excessive rain	sewage into waterbody	checked manholes	Brush Bayou	none	1,200 gal.	
152	3/12/15	9:41:00 AM	BB-50	NR	Corbitt Street	Hearne Avenue	1 hr.	II16	excessive rain	sewage into waterbody	checked manholes	Brush Bayou	none	1,000 gal.	
153	3/12/15	10:33:00 AM	BB-54	NR	Line Avenue	Ockley Drive	30 min.	II17	excessive rain	sewage into waterbody	checked manholes	Bayou Pierre	none	1,500 gal.	
154	3/12/15	10:45:00 AM	AA-52	33 to 2	4113 Belmont Street	NR	1 hr.	II18	excessive rain	sewage into waterbody	checked manholes	Bayou Pierre	none	1,500 gal.	
155	3/12/15	10:45:00 AM	AA-52	25	4113 Belmont Street	NR	N/A	II19	excessive rain	sewage into waterbody	--	Bayou Pierre	none	1,000 gal.	
156	3/12/15	10:52:00 AM	X-51	31, 32	2713 Alabama Avenue	NR	1/2 hr.	II20	excessive rain	sewage into waterbody	checked manholes	Cross Lake	none	1,00 gal.	
157	3/12/15	1:48:00 PM	BB-57	6	4350 Finley Drive	Opensylvania Avenue	1 hr.	II21	excessive rain	sewage into waterbody	--	Bayou Pierre	none	2,000 gal.	
158	3/12/15	2:00:00 PM	DD-56	11	Brookmeade Drive	Querbes Drive	NR	II22	excessive rain	sewage into waterbody	--	Bayou Pierre	none	1,000 gal.	
159	3/12/15	5:03:00 PM	AA-52	22	1829 Vivian Street	NR	NR	II23	excessive rain	sewage into waterbody	--	Brush Bayou	none	1,000 gal.	
160	3/12/15	8:34:00 AM	NR	NR	Olive Street	Youree Drive	1/2 hr.	MHB5	charged manhole	sewage into waterbody	checked manholes	Anderson Bayou	none	1,000 gal.	
161	3/12/15	10:27:00 AM	NR	NR	East Olive Street	Highland Avenue	1/2 hr.	MHB6	charged manhole	sewage into waterbody	checked manholes	Anderson Bayou	none	1,000 gal.	
162	3/13/15	1:31:00 PM	AA-54	25 to 2	3852 Maryland Avenue	Ockley Drive	1 hr.	II24	excessive rain	sewage into waterbody	checked manholes	Bayou Pierre	none	none	
163	3/15/15	2:50:00 PM	NR	NR	9398 Briarcrest Street	Linwood Avenue	1 hr.	II25	lift station down	sewage into waterbody	dispatched sewer lift	Brush Bayou	none	1,000 gal.	
164	3/17/15	4:56:00 PM	Y-48	2	2805 Jewella Avenue	Hardy Street	2 hrs.	BGM10	contractor hits	sewage into waterbody	bypss pump set up	Cross Lake	1,000 gal	500 gal.	

165	3/19/15	10:30:00 AM	W-50	NR170	3143 Murphy Street	Alabama Avenue	2 hrs.	FM4	force main blow	sewage into waterbody	contractor repaired n	Cross Lake	1,000 gal	500 gal.	
166	3/24/15	3:54:00 PM	W-45	18 to 2	5638 South Lakeshore	NR	2 hrs.	B83	debris in main	sewage into waterbody	washed main applic	Cross Lake	none	1,000 gal.	
167	3/26/15	8:44:00 AM	NR	NR	3400 Darien Street	2300 Block Mertis Ave	1 hr.	LS16	loss of power	sewage into waterbody	lift station back on lin	Cross Lake	none	99.66 gal.	
168	3/27/15	11:15:00 AM	Z-43	NR	Jefferson Paige Road	I-220	2 hrs.	FM5	force main broke	sewage into waterbody	contractors made rep	Cross Lake	none	2,000 gal.	
169	3/31/15	10:47:00 AM	U-53	18	Buena Vista Street	North Western Avenue	1 hr	B84	debris in main	sewage into waterbody	unstopped main; was	Cross Bayou	none	100 gal.	
170	4/1/15	8:48:00 PM	II-49	56-57	1932 South Brookwood	Blom Boulevard	2 hrs.	B85	grease in sewer	sewage into waterbody	unstopped main with	Brush Bayou	none	2000 gal	
171	4/11/15	4:00:00 PM	X-50	30	31004 Catherine Street	Alabmama Ave.	20 min.	B86	grease and debris	sewage into waterbody	washed main 450 ft	Cross Lake	none	50 gal.	
172	4/14/15	9:55:00 PM	V-54	21	1100 Sam Fertita Drive	1200 Snow Street	1 hr.	B87	Debris on Sewer	sewage into waterbody	unstop the sewer ma	Red River	none	100 gal.	
173	4/15/15	8:59:00 AM	II-49	58	1919 South Brookwood	89 Turned Drive	1 hr.	MHB7	debris in manho	sewage into waterbody	washed the sewer m	Brush Bayou	none	100 gal.	
174	4/17/15	2:32:00 PM	X-53	28, 26	1342 Wilkinson Street	William Avenue	1 hr	BGM18	main broken dov	sewage into waterbody	called out vac truck	Bayou Pierre	none	100 gal.	
175	4/18/15	4:21:00 PM	W-52	14, 16	1844 Jordan Street	Norma Avenue	2 hrs.	B88	grease	sewage into waterbody	unstop service line	Cross Bayou	200 gal.	none	
176	4/19/15	7:00:00 AM	NR		11301 East Kings High	Flournoy-Lucas Road	45 Min.	LS17	Power surge anc	sewage completely con	diver incoming flow t	none	100,000 g	none	
177	5/2/15	1:10:00 PM	II-49		8965 Turner Dr.	S. Brookwood Dr.	1 hr	B89	debris in main	sewage was not contain	unstop main with wa	Brush Bayou	none	100 gal.	
178	5/2/15	4:34:00 PM	V-53	50	1600 Ashton St	1000 Pierre St	1/2 hr.	B90	debris in main	sewage was not contain	wash main	Cross Bayou	none	100 gals	
179	5/2/15	1:20:00 PM	V-53	40	1001 Pierre Ave.	Looney Ave.	2 hrs.	BGM19	break in main	sewage was not contain	wash main	Cross Bayou	none	none	
180	5/11/15	10:55:00 AM	DD-56	21	439 Lloyd Ln.	500 Gilbert St	1.5 hrs.	MHB8	debris in MH 18	sewage was not contain	wash main	Bayou Pierre	none	200 gals	



ATTACHMENT 4

SEWER SYSTEM ASSESSMENT

PHASE 1 QUANTITIES

CEDAR GROVE BASIN

CITY OF SHREVEPORT
SANITARY SEWER ASSESSMENT QUANTITIES

Manhole Inspection			
Date Range:	SSA Phase 1	SSA Phase 2	Total
Prior to 5/12/14	1,392		1,392
5/13/14 - 5/12/15	998	1,021	2,019
Grand Total	2,390	1,021	3,411

Sewer Line Smoke Test Linear Feet (LF)			
Date Range:	SSA Phase 1 LF	SSA Phase 2 LF	Total
Prior to 5/12/14	887,261	0	887,261
5/13/14 - 5/12/15	103,280	130,613	233,894
Grand Total	990,541	130,613	1,121,154
SSA Phase 1 Prior to 5/13/14		SSA Phase 1 5/13/14 - 5/12/15	
Pipe Diameter	Length Smoked	Pipe Diameter	Length Smoked
5	633		
6	29,940	6	4,589
8	567,064	8	54,785
10	112,584	10	20,537
12	87,276	12	12,115
15	23,103	15	3,977
18	17,586	18	3,952
21	3,296	21	605
24	25,112	24	1,909
30	5,964	30	68
36	7,806	32	744
42	6,896		
Grand Total	887,261	Grand Total	103,280
SSA Phase 2 5/13/14 - 5/12/15			
Pipe Diameter	Length Smoked		
6	744		
8	98,605		
10	15,462		
12	9,675		
15	2,822		
Unknown	3,306		
Grand Total	130,613		

CITY OF SHREVEPORT
SANITARY SEWER ASSESSMENT QUANTITIES

Sewer Line CCTV Linear Feet (LF)			
Date Range:	SSA Phase 1 LF	SSA Phase 2 LF	Total
Prior to 5/13/14	696,547	0	696,547
5/13/14-5/12/15	172,379	619,659	792,038
Grand Total:	868,926	619,659	1,488,585
SSA Phase 1 Prior to 5/13/14		SSA Phase 1 5/13/14 - 5/12/15	
Pipe Diameter	Length Surveyed	Pipe Diameter	Length Surveyed
5	451		
6	15,212	6	5,582
8	459,757	8	67,514
10	89,290	10	36,242
12	67,577	12	28,673
15	18,908	15	8,877
18	9,552	18	11,509
21	2,818	21	638
24	15,075	24	9,981
30	5,962	32	789
36	5,140	36	2,575
42	6,805		
Grand Total	696,547	Grand Total	172,379
		SSA Phase 2 5/13/14 - 5/12/15	
Pipe Diameter	Length Surveyed		
4	870		
6	140,108		
8	359,252		
10	64,277		
12	25,924		
15	15,580		
16	146		
18	5,481		
21	5,244		
24	2,615		
36	164		
Grand Total	619,659		

CITY OF SHREVEPORT
SANITARY SEWER ASSESSMENT QUANTITIES

Contractor (CES) Sewer Line Cleaning Linear Feet (LF)			
Date Range:	SSA Phase 1 LF	SSA Phase 2 LF	Total
Prior to 5/13/14	682,189	0	682,189
5/13/14-5/12/15	203,662	517,055	720,717
Grand Total:	885,851	517,055	1,402,906
SSA Phase 1 Prior to 5/13/14		SSA Phase 1 5/13/14 - 5/12/15	
Pipe Diameter	Length Cleaned	Pipe Diameter	Length Cleaned
6	17,600	6	9,142
8	486,251	8	93,913
10	96,057	10	38,415
12	66,998	12	31,608
15	10,838	15	9,780
18	3,456	18	9,927
24	989	21	638
		24	9,450
		32	789
Grand Total	682,189	Grand Total	203,662
		SSA Phase 2 5/13/14 - 5/12/15	
		Pipe Diameter	Length Cleaned
		6	104,474
		8	316,951
		10	52,637
		12	21,690
		15	13,396
		18	5,533
		21	2,373
		24	0
		Grand Total	517,055
City of Shreveport Sewer Line Cleaning Linear Feet			
Date Range:	Cumulative		
Prior to 5/13/14	449		
5/13/14-5/12/15	204,632		
Grand Total:	205,081		

revised 07/08/15



ATTACHMENT 5

REMEDATION MEASURES PLAN, PHASE 1 [RMP1]

PROJECT SCHEDULES

Activity ID	Description	Work Dys	Early Start	Early Finish	2014												2015												2016												2017												2018											
					A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D			
City of Shreveport - Program Master Schedule WIF#3					City of Shreveport - Program Master Sched																																																											
SSA Phase 1					SSA Phase 1																																																											
CD Milestones					CD Milestones																																																											
Funding Milestone					Funding Milestone																																																											
Assessment & Report - BKI/BV					Assessment & Report - BKI/BV																																																											
AREA A					AREA A																																																											
PROJECT 133 F-O					PROJECT 133 F-O																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
PROJECT 134 F-O					PROJECT 134 F-O																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
PROJECT 114 PCP					PROJECT 114 PCP																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
PROJECT 117					PROJECT 117																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
PROJECTS 118 (low Float) & 139					PROJECTS 118 (low Float) & 139																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
PROJECT 157 (low Float)					PROJECT 157 (low Float)																																																											
Design					Design																																																											
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PROJECTS 140/156					PROJECTS 140/156																																																											
Design					Design																																																											
Construction Procurement					Construction Procurement																																																											
Construction					Construction																																																											
AREA B					AREA B																																																											
PROJECT 111 F-O					PROJECT 111 F-O																																																											
Design					Design																																																											

Summary



