

ADEQ

ARKANSAS
Department of Environmental Quality

MEETING ATTENDANCE

DATE: 7/25/17

FACILITY: North Little Rock

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Marc Wilkins	NLRW	mwilkins@nlrwu.com	

REMARKS:

A discussion of the progress NLR had made toward eliminating/reducing sanitary sewer overflows. Closure of the CAO was discussed. NLR and ADEQ reviewed the mid-year report submitted on 7-14-17



North Little Rock Wastewater

P. O. Box 17898, North Little Rock, AR 72117-0898

2017 Mid-Year Report



Consent Administrative Order LIS 10-218



PREFACE

North Little Rock Wastewater (NLRW) submitted a progress report to ADEQ on June 22, 2017 documenting that all of the corrective actions listed in the Maumelle Water Management Corrective Action Plan (CAP), dated November 18, 2016, have been completed. As a result, ADEQ issued a response indicating that the CAP was closed, that “NLRW shall maintain the corrective actions taken to comply with the CAP,” and that future progress in the Maumelle wastewater system may be reported in the NLRW Annual Report.

North Little Rock Wastewater 2017 Mid-Year Report

Consent Administrative Order LIS 10-218

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North Little Rock Wastewater

2017 Mid-Year Report

Consent Administrative Order LIS 10-218

Attn: Alan Anderson, Enforcement Analyst
Water Enforcement Division
Arkansas Department of Environmental Quality

In accordance with the requirements of Consent Administrative Order LIS 10-218 (CAO), Order and Agreement, Paragraph 3, Reporting, the seventh Annual Report was due and was submitted by February 1, 2017.

1. Wastewater Master Plan

A. Milestone Schedule

<u>Date</u>	<u>Milestone</u>
• Feb. 1, 2011	First Annual Report due
• Feb. 10, 2011	Effective date of Order
• Mar 10, 2011	Cross Connection Certification due
• Mar. 10, 2011	First Penalty Payment due (\$4,375.00)
• Apr. 25, 2011 – Feb. 25, 2013	Monthly Penalty Payment due (\$4,375.00/Mo.)
• Feb. 1, 2012 – Feb. 1, 2021 Or until closure of this CAO	Annual Report due

B. Capital Improvements Plan (CIP)

Following is a listing of projects scheduled or completed as part of the Capital Improvements Plan recommendations from the 2011 Master Plan indicating progress made to date.

i. Treatment Plant Projects

FACILITY	PROJECT NAME	\$	% COMPLETE	DATE
Faulkner Lake	Modifications to Influent Pump Station	\$2,106,883	100%	5/18/2014
Faulkner Lake	Phase III STP Modifications	\$3,554,543	100%	12/1/2015
Five-Mile Creek	Wastewater Treatment Plant Modifications 2013	\$5,343,313	100%	7/14/2014
Faulkner Lake	Maintenance and Emergency Equipment Storage Facilities	\$616,227	100%	9/12/2014
TOTAL \$		\$11,620,966		

ii. Pipeline Rehabilitation Projects

PROJECT NAME	METHOD	LINEAL FT	\$	% COMPLETE	DATE
2012 Cured In Place (CIPP) Rehabilitation	CIPP	9,942	\$393,900	100%	08/31/12
2013 Cured In Place (CIPP) Rehabilitation	CIPP	34,808	\$1,614,620	100%	05/31/15
Lakewood Basin CIPP 2015 Rehabilitation	CIPP	29,502	\$1,327,905	100%	06/30/16
Lakewood Basin Pipe Bursting 2015 Rehabilitation	Pipe Bursting	24,634	\$1,849,561	100%	11/08/16
E. Levy Basin Pipe Bursting Rehabilitation 2016	Pipe Bursting	19,323	\$1,659,056	100%	05/19/17
Baring Cross Basin CIPP 2016 Rehabilitation	CIPP	23,973	\$1,262,910	5%	07/07/17
Baring Cross Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	51,800	\$4,046,126	19%	07/07/17
W. Levy/212 Basin CIPP 2016 Rehabilitation	CIPP	27,916	\$1,850,000	Bidding	07/07/17
W. Levy/212 Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	24,930	\$2,150,000	Bidding	07/07/17
Lower Riverside Interceptor	CIPP/SL	4,345	\$4,400,000	Design	07/07/17
TOTAL		251,173	\$20,554,078		

iii. Pump Station Projects

PROJECT NAME	\$	% COMPLETE	DATE
Shillcutt Pump Station Modifications	\$5,166,843	100%	10/23/14
2013 Auxiliary Generators and Transfer Switches	\$392,922	100%	07/23/14
2014 Auxiliary Generators and Transfer Switches	\$191,995	100%	12/31/14
Oakbrook/Manor Drive Pump Station Upgrade	\$11,392	100%	08/01/16
3306 E. 10th Street Pump Station and Force Main	\$369,713	87%	07/07/17
2017 Auxiliary Generators & Transfer Switches	\$286,411	3%	07/07/17
TOTAL \$	\$6,419,276		

iv. Miscellaneous Gravity Collection Improvements

The Capital Improvements Plan included a line item for miscellaneous gravity system improvements. These are projects identified during the flow monitoring and hydraulic modeling phases of the Masterplan. Staff identified the projects with the highest priority as follows.

PROJECT NAME	\$	% COMPLETE	DATE
Sediment Removal (FL-P1-SR)	\$290,000	0%	07/01/17
Cedar Street Sewer Improvements	\$220,000	*	07/01/17
Gravity Pipe Replacement (FL-GS02)	\$1,300,000	0%	07/01/17
Gravity Pipe Replacement (FL-GS03)	\$1,100,000	0%	07/01/17
White Oak Interceptor Phase II	\$4,796,835	79%	07/01/17
TOTAL \$	\$7,706,835		
<i>* Will be started following final stabilization of the landslide by others.</i>			

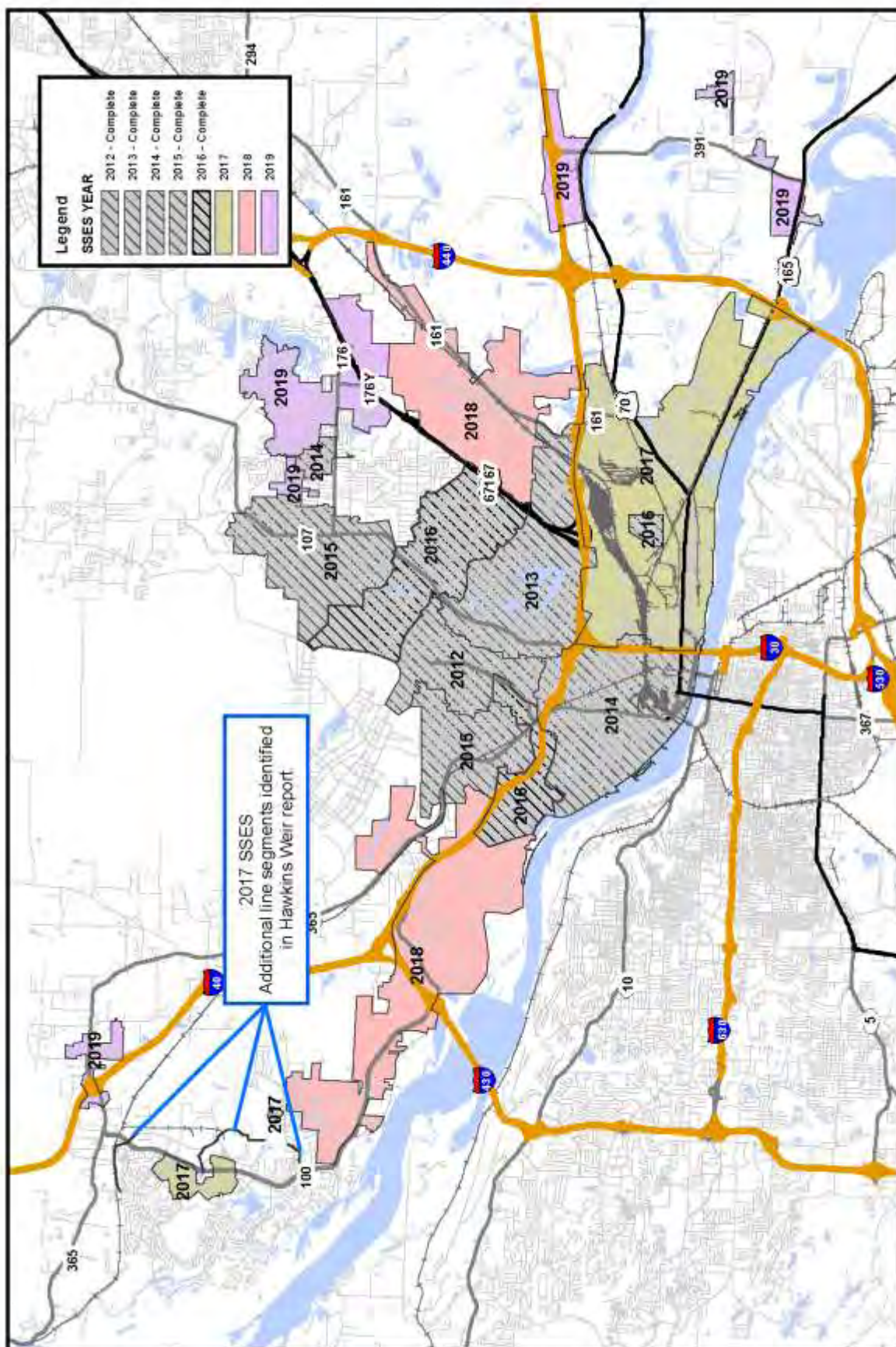
C. Sewer System Evaluation Survey (SSES)

Following is a summary of SSES fieldwork completed to date.

SUMMARY OF SSES FIELDWORK										
Project Name	Smoke Testing			Manhole Inspections			Dye Testing			CCTV
	Quantity (LF)	Defects (EA)	I/I (mgd)	Quantity (EA)	Defects (EA)	I/I (mgd)	Quantity (EA)	Defects (EA)	I/I (mgd)	Quantity (L/F)*
2012 SSES (Levy Area)	205,569	256	0.539	571	633	0.354	50	42	1.567	276,870
2013 SSES (Lakewood Area)	308,152	945	0.625	641	566	0.351	64	49	0.843	229,503
2014 SSES (Baring Cross and Oakbrook SID)	340,896	1,238	2.424	1,636	1,515	0.846	81	70	2.42	317,521
2015 SSES (West Levy and District 212)	378,056	585	0.74	1,762	1,546	0.958	56	30	0.835	544,811
2016 SSES (S Levy, Indian Hills and Dixie)	385,530	499	0.442	1,763	2,187	1.448	33	24	0.271	437,809
TOTAL	1,618,203	3,523	4.77	6,373	6,447	3.957	284	215	5.936	1,806,514
* System Wide										

PROJECT NAME	\$	% COMPLETE	DATE
SSES 2012	\$275,543	100%	7/2013
SSES 2013	\$457,098	100%	6/2014
SSES 2014	\$486,133	100%	3/2015
SSES 2015	\$534,621	100%	3/2016
SSES 2016	\$549,062	100%	2/2017
SSES 2017	\$679,258	22%	6/30/2017
TOTAL	\$2,981,715		

Following is a map delineating the schedule of SSES fieldwork.

[illegible]

North Little Rock Wastewater SSES Schedule

D. SSES, Pumping Station, Capacity Assessment, and Hydraulic Model Evaluation Report

The Masterplan 2011 included a “Capacity, Management, Operations, and Maintenance Self-Assessment Report”, “Flow Monitoring “, and “Hydraulic Model” of the North Little Rock Wastewater Utility’s facilities. This information, along with staff input, was used to develop the capital improvements plan.

NLRW’s geographical information system has been utilized to subdivide the collection system into sub-basins or “sewersheds” of manageable size. SSO data for non-capacity related overflows is being used to focus the Utility’s cleaning efforts to the sewersheds with the highest number of non-capacity related overflows.

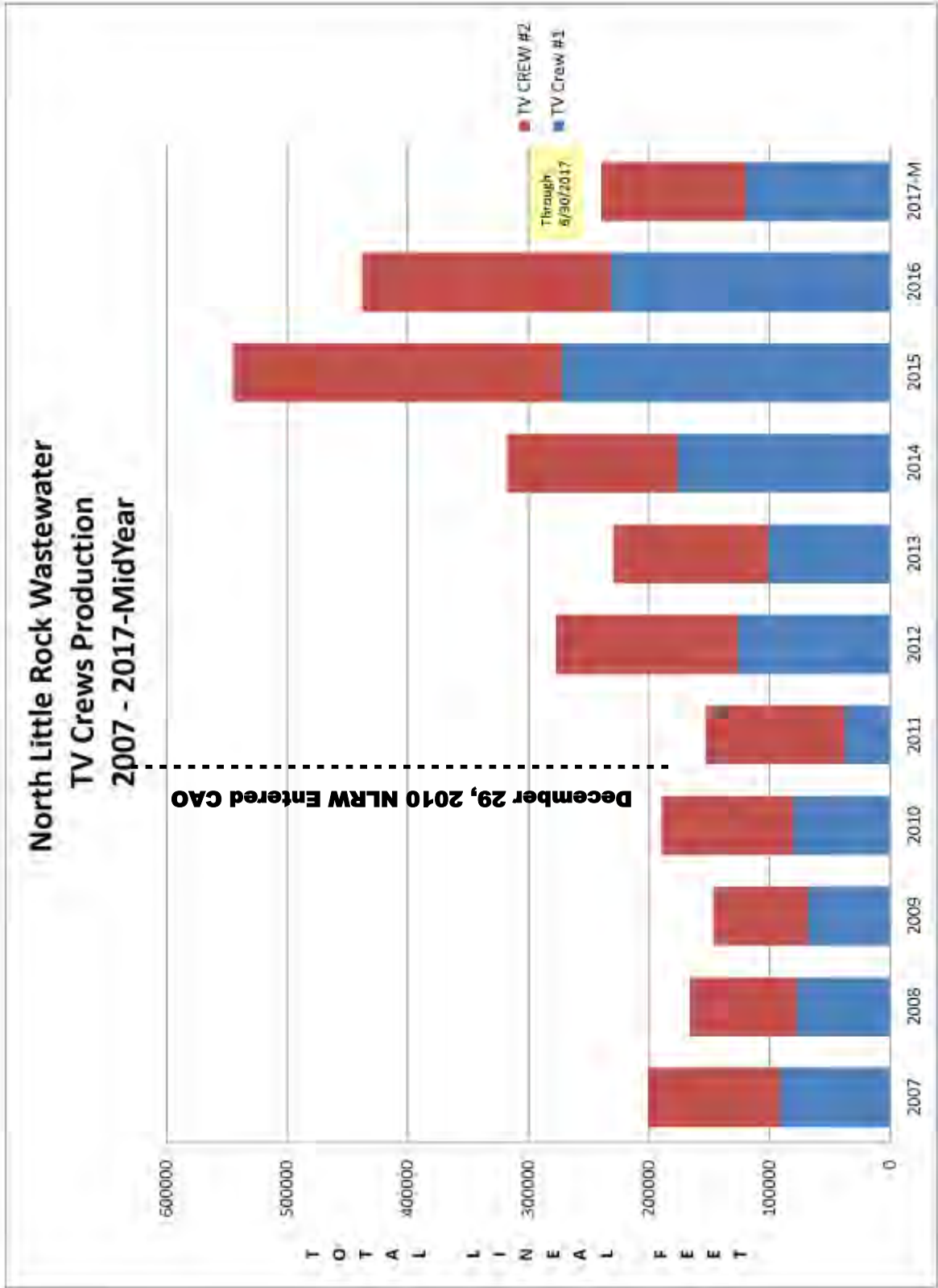
The following map (Flow Monitoring Locations) documents the efforts to collect flow data prior to and after completion of rehabilitation projects during the calendar year.

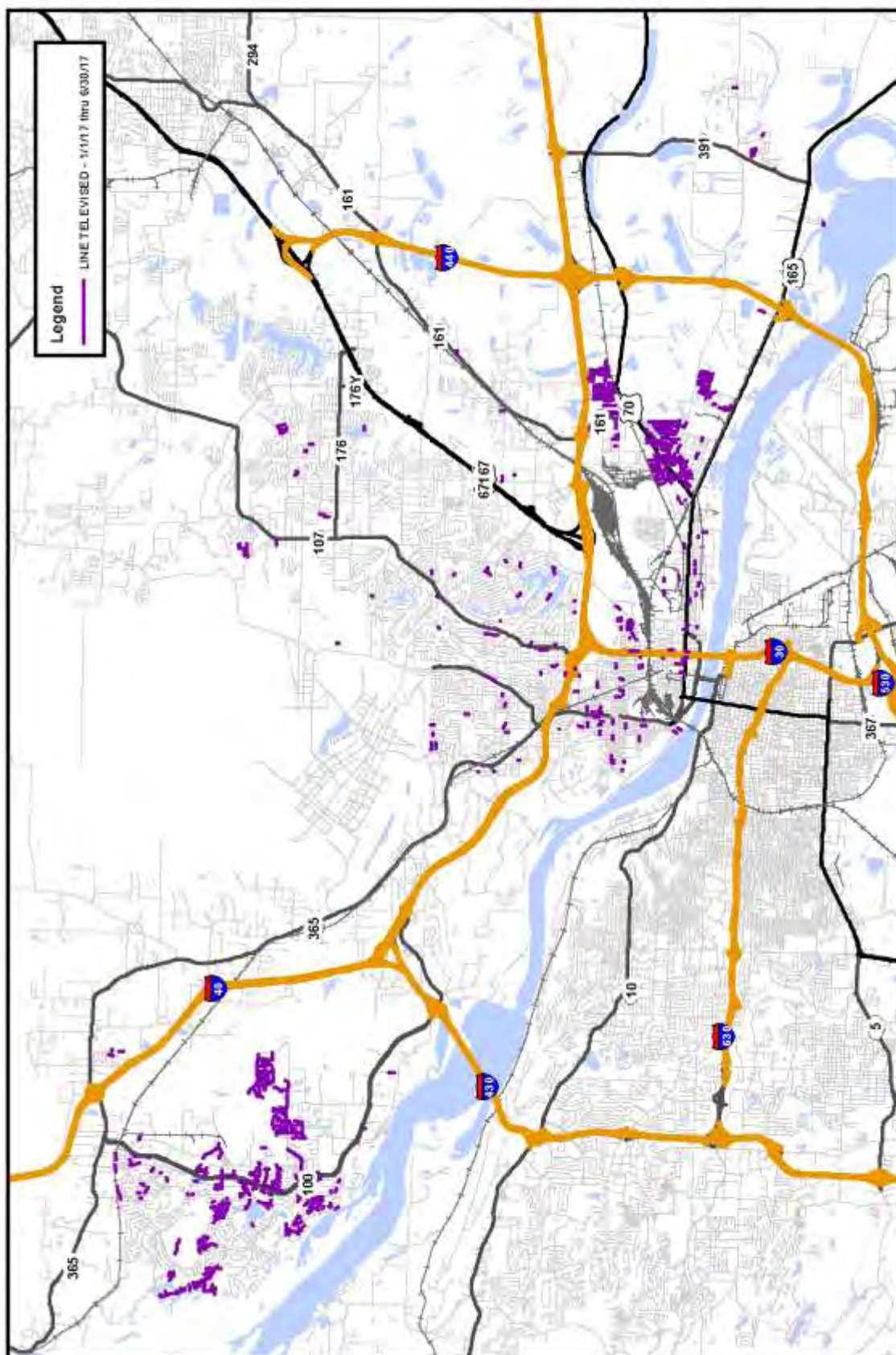
E. Collection System and Wastewater Treatment Plant Remedial Measures Plan

Following is an update of progress on specific collection system and WWTP Remedial Measures:

The remedial measures plan generally consists of measures involving existing equipment, personnel and practices which can be modified to reduce the occurrence of SSOs.

- i. Increase production of TV and cleaning crews
 - a. The following graph and map document the efforts to increase production of the TV crews in targeted areas.





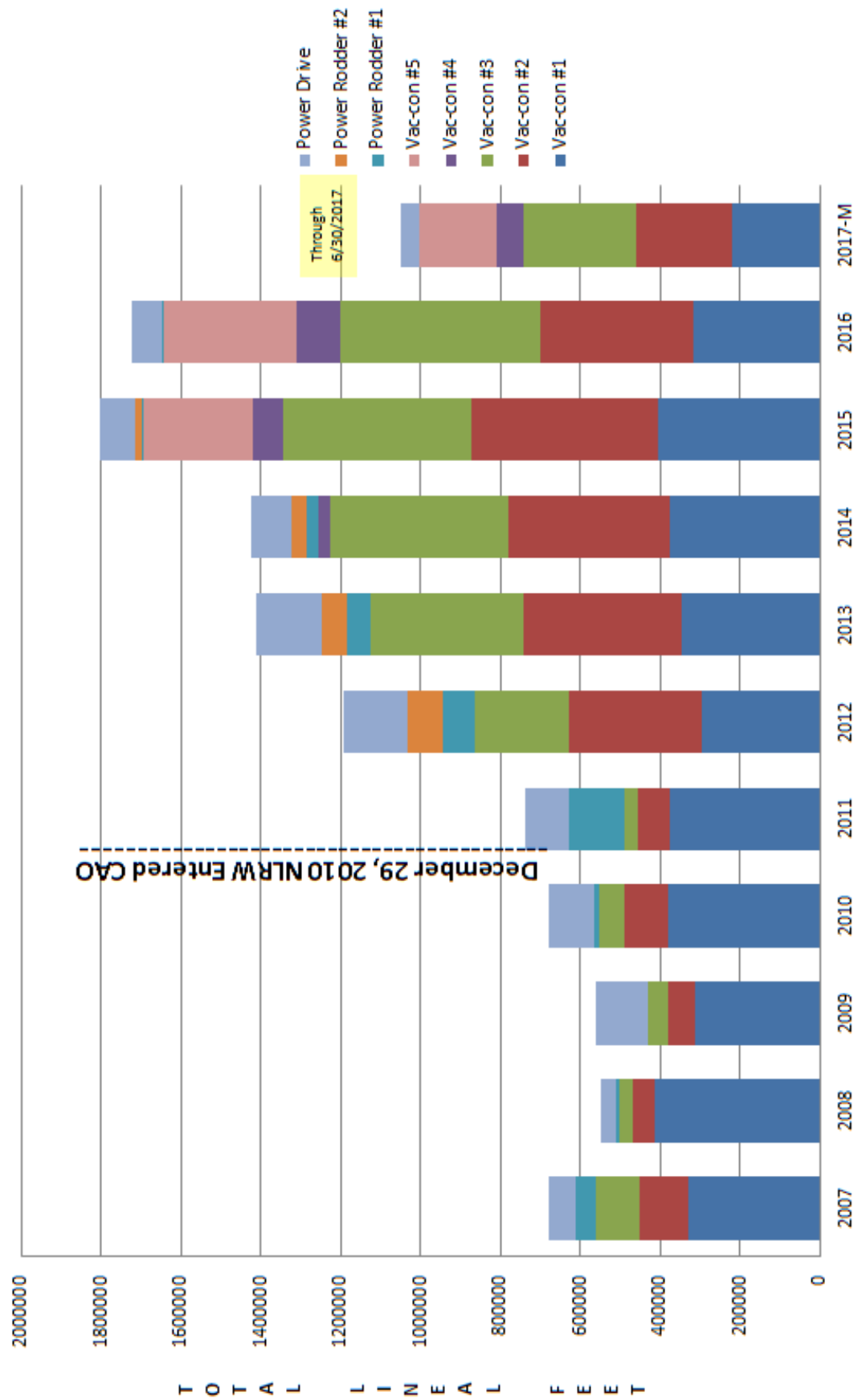
the 1990s, the state's largest and most diversified firm, operated outside the state and beyond the North Little Rock, Missouri, plant. Any one of the ads in the survey came from the North Little Rock plant. The 1990s study also included 100 ads of Motorola and 10 ads of Motorola's mobile phone, a total of 110 ads. These advertisements told the North Little Rock plant's story. They told the story of the plant's location, the plant's location in the North Little Rock area, and the plant's location in the North Little Rock area.

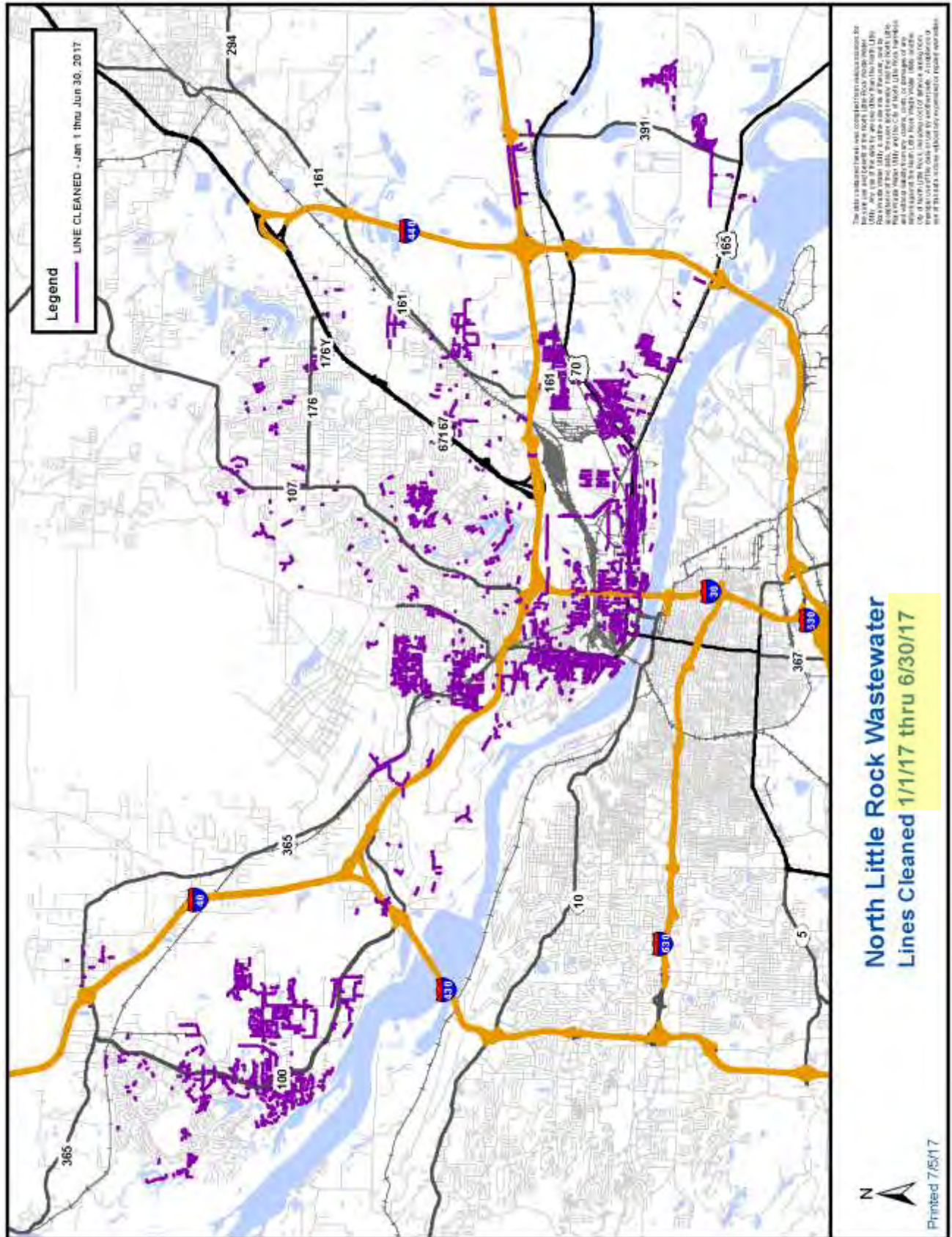
**North Little Rock Wastewater
Closed Circuit Television Inspection**
1/1/17 thru 6/30/17

 $z \angle$

- b. The following graph and map document the efforts to increase production of the cleaning crews in targeted areas.

North Little Rock Wastewater All Cleaning Crews Production 2007 - 2017-MidYear





- ii. Increase production by adding additional crews or personnel

A fifth Vac-con was purchased and one of the Power Rodder Crews was converted to a Vac-con Crew in June 2015. NLRW now operates the following cleaning crews:

4 Vac-con Crews
1 Power Rodder Crew
1 Power Drive Crew

Vac-con #4 is kept as a spare and is shared by all Vac-con Crews when their equipment is down for maintenance.

- iii. Provide emergency response connections and Supervisory Control and Data Acquisition (SCADA) systems at pump stations and treatment plants.

Following the ice storms in December 2000, the Utility implemented a program to provide emergency pumping connections at all the pump stations. The connections allow a trailer mounted, suction lift pump to draw water from the wetwell and pump directly into the force main, thus by-passing the permanent pumping equipment during emergency situations such as power and equipment failures.

NLRW has four trailer mounted generators which can be stationed for temporary service at facilities with transfer switches.

Permanent mounted generators and automatic transfer switches are being incorporated in new facilities and in other select facilities to minimize potential SSOs related to power outages.

The following tables identify emergency response connections at pump stations and treatment plants.

Treatment Plant Emergency Response Connections

TREATMENT PLANT NAME	LOCATION	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOLTS
FAULKNER LAKE INFLUENT	7400 BAUCUM PIKE	N	AUTO	Y	480 3Ø
FAULKNER LAKE BLOWER FACILITY	7400 BAUCUM PIKE	N	AUTO	Y	480 3Ø
FAULKNER LAKE ADMIN BLDG	7400 BAUCUM PIKE	N	AUTO	Y	208V 240V
FAULKNER LAKE LAB BLDG	7400 BAUCUM PIKE	N	AUTO	Y	240V 480V
WHITE OAK INFLUENT	6000 HEILMAN	N	Y	N	480 3Ø
WHITE OAK TREATMENT PLANT	6000 HEILMAN	N	N	N	480 3Ø
FIVE MILE INFLUENT	5601 E 54TH STREET	N	AUTO	Y	480 3Ø
FIVE MILE EFFLUENT	5601 E 54TH STREET	N	AUTO	Y	480 3Ø
MAUMELLE TREATMENT PLANT	425 HYMAN DRIVE	N	AUTO	Y	480 3Ø

Yellow highlighted pump stations are under constructions for auxiliary generators and transfer switches or have Omnisite SCADA added in 2017.

NORTH LITTLE ROCK WASTEWATER PUMP STATION EMERGENCY RESPONSE CONNECTIONS							
PUMP STATION #	PUMP STATION NAME	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOLTS	EXISTING SCADA TYPE	PLANNED 2017 SCADA INSTALLATIONS
400	BRIDGEWAY HOSPITAL #2	Y			230 1Ø		OMNISITE
403	CLAYTON CHAPEL	Y	AUTO	Y	240 3Ø		OMNISITE
405	DELTA LAWN	Y	AUTO	Y	240 3Ø	OMNISITE	
408	3208 E. 10TH PS & PM	Y	AUTO	Y	240 3Ø	OMNISITE	
407	HWY 107	Y	AUTO	Y	240 3Ø	HIGHTIDE	OMNISITE
406	LANSEBROOK	Y	Manual		240 3Ø	OMNISITE	
408	MARYLAND EAST	Y	AUTO	Y	240 3Ø		OMNISITE
410	MARYLAND PLACE	Y			240 1Ø		OMNISITE
413	DOCK-OF-THE-WALK (#2)	Y			480 3Ø		OMNISITE
414	MAYBELINE	Y	AUTO	Y	480 3Ø	OMNISITE	
415	MCCALMONT	Y			240 3Ø		OMNISITE
416	MID-STATE	Y			240 3Ø		OMNISITE
417	OSAGE BROOK	Y			480 3Ø	OMNISITE	
418	PINE TREE				240 1Ø		OMNISITE
419	SHILOH BAYOU		AUTO	Y	480 3Ø	IGNITION	
420	SHORTER COLLEGE	Y			240 3Ø		OMNISITE
421	BURNS PARK EAST				240 3Ø	OMNISITE	
422	BURNS PARK WEST				240 1Ø	OMNISITE	
423	LAKEWOOD PLACE				250 1Ø		OMNISITE
424	1440 INDUSTRIAL PARK	Y			250 3Ø	OMNISITE	
425	AUSTIN LAKE	Y			480 3Ø		OMNISITE
426	FRONTIER DR - MORGAN	Y	AUTO	Y	480 3Ø		OMNISITE
427	MARCHE-MORGAN	Y			480 3Ø		OMNISITE
428	BAUCUM INDUSTRIAL	Y			3Ø 3Ø	OMNISITE	
430	WILCOX	Y	AUTO	Y	480 3Ø	OMNISITE	
431	QUAPAW	Y	AUTO	Y	240 3Ø	OMNISITE	
432	HWY 386-SHERMAN RD	Y	AUTO	Y	480 3Ø		OMNISITE
433	GAP CREEK	Y	AUTO	Y	240 3Ø		OMNISITE
434	HARRIS INDUSTRIAL PARK	Y			480 3Ø	OMNISITE	
435	BURNS PARK RV PARK				240 1Ø		
436	BURNS PARK LANDSCAPING				240 1Ø		
437	BURNS PARK SOUTH				240 1Ø		
438	HILL LAKE		AUTO	Y	480 3Ø	OMNISITE	
439	BURNS PARK SOCCER FIELDS				220 1Ø		
440	COLLINS INDUSTRIAL PARK	Y	AUTO	Y	480 3Ø		OMNISITE
441	COURTS MASSIE #1	Y	AUTO	Y	480 3Ø		OMNISITE
443	CHAPEL RIDGE	Y			240 3Ø	OMNISITE	
443	RIKE PUMP-HWY 161	Y	AUTO	Y	480 3Ø	OMNISITE	
444	RIKE PUMP-LUCKY DR	Y	AUTO	Y	480 3Ø	OMNISITE	
445	RIKE PUMP-TRAMMEL RD	Y	AUTO	Y	480 3Ø	OMNISITE	
446	RIKE PUMP-RIKE RD-RR TRACK	Y			480 3Ø	OMNISITE	
447	CYPRESS CROSSING	Y	AUTO	Y	480 3Ø	OMNISITE	
448	CRYSTAL BAY	Y			480 3Ø		OMNISITE
449	TRAMMEL ESTATES	Y			240 1Ø	OMNISITE	
450	EUREKA GARDEN B-45TH	Y	AUTO	Y	240 3Ø	OMNISITE	
451	EUREKA GARDEN RD	Y	AUTO	Y	240 3Ø	OMNISITE	
452	EUREKA GARDEN & JUDY LANE	Y	Manual		240 3Ø	OMNISITE	
453	FAULKNER CROSSING #	Y	AUTO	Y	480 3Ø	OMNISITE	
601	BOQUIER				250 1Ø	OMNISITE	
600	C/C BALLFIELDS	Y	AUTO	Y	480 3Ø	OMNISITE	
603	COURTS MASSIE #2				230 3Ø	OMNISITE	
604	DIAMOND POINT				480 3Ø	OMNISITE	
605	DURANCO				480 3Ø	OMNISITE	
606	HIGH SCHOOL				480 3Ø	OMNISITE	
607	LAWRENCE				230 1Ø	OMNISITE	
608	MARANES				230 1Ø	OMNISITE	
609	MASTERS PLACE				230 1Ø	OMNISITE	
610	MAUMELLE VALLEY	Y	AUTO	Y	480 3Ø	OMNISITE	
611	MAUMELLE WOODS				480 3Ø	OMNISITE	
612	MIDDLE SCHOOL				480 3Ø	OMNISITE	
613	MURPHY DRIVE		AUTO	Y	480 3Ø	Wonderware	
614	NAYLOR				480 3Ø	OMNISITE	
615	NEW BEDFORD				480 3Ø	OMNISITE	
616	NORFOLK				230 1Ø	OMNISITE	
617	DOOM/BLUE MOUNTAIN				230 1Ø	OMNISITE	
618	OSAGE FALLS				230 3Ø	OMNISITE	
619	OSAGE HILLS		Manual		230 3Ø	OMNISITE	
620	PAUSADES				480 3Ø	OMNISITE	
622	RIDGELAND				230 1Ø	OMNISITE	
623	RIDGELAND/DOOM				230 1Ø	OMNISITE	
624	RIVER RUN				230 3Ø	OMNISITE	
626	SEMINOLE EAST	Y	AUTO	Y	480 3Ø	OMNISITE	
626	SEMINOLE WEST	Y	AUTO	Y	230 1Ø	OMNISITE	
627	TOWN CENTER				230 1Ø	OMNISITE	

- iv. Identify areas subject to building/private property backups.

NLRW utilizes trouble calls to initiate an investigation to determine areas subject to building/private property backups. A trouble call attributed to “high water” and resulting in slow draining fixtures or backups in buildings or property initiates a work order to the Civil Engineer. The Civil Engineer conducts an investigation to determine the cause of the backup and documents the need for corrective action. The Civil Engineer documents the need for a backwater valve and sends a letter to the property owner. A copy of the letter is given to the GIS Administrator for entry into the GIS database.

Following is a map identifying the addresses investigated in the calendar year for the need for backwater valves.

v. Public education

In 2012, NLRW expanded its Grease Reduction Program to include additional items to 'not' put down the drain and has renamed the program "Maintain YOUR Drain." Expansion of the Grease Reduction Program was largely brought about by increased problems associated with so-called "flushable wipes."

A summary of the activities conducted by the "Maintain YOUR Drain" staff, during the calendar year is attached, as well as copies of the mailers.

Staff designed educational decals and had them installed on the Vac-cons and TV vans. The concept is to use the trucks as moving billboards and to put the message where the work is (e.g. A customer sees the Vac-con cleaning a sewer line and the sign on the side of the Vac-con says "Wipes clog pipes. Don't flush wipes!" or "Maintain YOUR Drain! Don't pour grease down the drain!")

North Little Rock Wastewater			
Maintain YOUR Drain Program			
(Educating the public on what "NOT" to put down the drain.)			
Date	Group Name	Location	Approximate # of Attendees
04/10/17	Central Arkansas Christian	10900 N Rodney Parham Road, Little Rock, AR	24
05/10/17	Crystal Hill Elementary	5001 Northshore Dr, North Little Rock, AR	112
01/01/2017 - 06/30/2017 Total Attendees			136
During April - 61,500 Mailers were sent out with information on how to dispose of grease properly. The mailers also contained information on what is not acceptable to be put down the drain.			
In addition, children at the schools were given bracelets with the North Little Rock Wastewater Logo and a message that reads "Protect Our Water" as a reminder of how the dangers of improper grease disposal can harm our environment. Informative brochures are handed out at all meetings with material on grease and pharmaceutical disposal.			



501-945-7186



501-945-7186



501-945-7186



Grease

Never pour grease or cooking oil down sink drains or garbage disposals.

Place small amounts of grease and oil in the trash.

Large containers of cooking oil can be recycled at

12th & Willow
North Little Rock, AR 72114
(501) 371-8345

WWW.NLR.AR.GOV



Do **Not** Put Down the
Drain or Toilet

Baby Wipes
Clothing/Rags
Paper Towels
Automotive Oils
Pharmaceuticals
Cosmetics/Fragrances
Sunscreen Products
Chemicals

WWW.NLR.AR.GOV



Pharmaceuticals

Do NOT flush them down the toilet.

Mix old pharmaceuticals with used coffee grounds or kitty litter.

Place them in a sealable container and throw them in the trash.

OR

Contact local law enforcement for community take-back programs.

WWW.NLR.AR.GOV





vi. Treatment plant stormwater runoff protection

Part of NLRW's effort to comply with treatment plant stormwater runoff protection included the addition of "Maintenance and Emergency Equipment Storage Facilities." This project included the addition of metal buildings to house maintenance and emergency response equipment.

This project also included the addition of a vehicle wash station, site grading and drainage improvements.

Section B.i provides additional information regarding this project.

vii. Secure funding for Capital Improvement Projects

a. On November 28, 2012, NLRW closed on a \$21,000,000 loan with the Arkansas Natural Resources Commission. As of January 20, 2017, these loan funds have been fully expended.

b. On October 25, 2016, NLRW closed on a \$30,000,000 loan with the Arkansas Natural Resources Commission.

Through June 30, 2017, North Little Rock Wastewater has spent \$2,157,870 of the \$30,000,000 loan.

viii. Point Repairs

NLRW added a fourth construction crew in 2016 to reduce response time for disconnects which were building up a backlog of work orders. This crew may also assist with point repairs and other excavation related repairs depending on the work load.

Outside services contractors may be used for certain repairs depending on work load, schedule and need for specialized services. Specialized services include repairs beneath the water table, deep excavations, repairs complicated by other structures, repairs involving large diameter pipelines, etc.

Following is a summary of repairs completed in the collection system requiring excavation:

SUMMARY of Collection System Repairs Requiring Excavation						
<u>Year</u>	<u>Point Repairs</u>	<u>New Manholes</u>	<u>New Line Segments</u>	<u>Disconnects</u>	<u>Repairs by Outside Services Contractors</u>	<u>TOTAL</u>
2011	316	12	6	0	2	336
2012	337	22	6	1	1	367
2013	273	18	5	0	3	299
2014	332	11	10	0	0	353
2015	364	15	8	4	8	399
2016	381	26	7	66	6	486
2017-M	178	7	4	88	0	277
						2,517

A summary of point repairs completed by the NLRW Collection Systems Department is included in Appendix C. *End of Year Work Recap Report*.

2. Civil Penalty Payment Summary

NLRW completed payment of a \$105,000 Civil Penalty on February 13, 2013.

3. Notifications of Deficiencies

CAO Notices of Deficiencies received from ADEQ: **None** (no. & date)

NLRW response to Notice of Deficiencies: **N/A** (must be within 15 days)

Summary of NLRW actions to address deficiencies: **N/A**

4. Compliance Delays

Notifications of Compliance Delays submitted to ADEQ: **None** (no. & date)

Length of Compliance Delay: **N/A**

Cause of Compliance Delay: **N/A**

Measures Taken to Minimize Delay: **N/A**

Timetable for Implementing Additional Measures: **N/A**

5. **Certification**

As required by the Order and Agreement, Paragraph 3, North Little Rock Wastewater certifies that we are complying with the ADEQ-approved Wastewater Master Plan.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "M. Wilkins", followed by a horizontal line.

Marc E. Wilkins, PE
Director
North Little Rock Wastewater

APPENDIX

A. Annual Overflows by Category

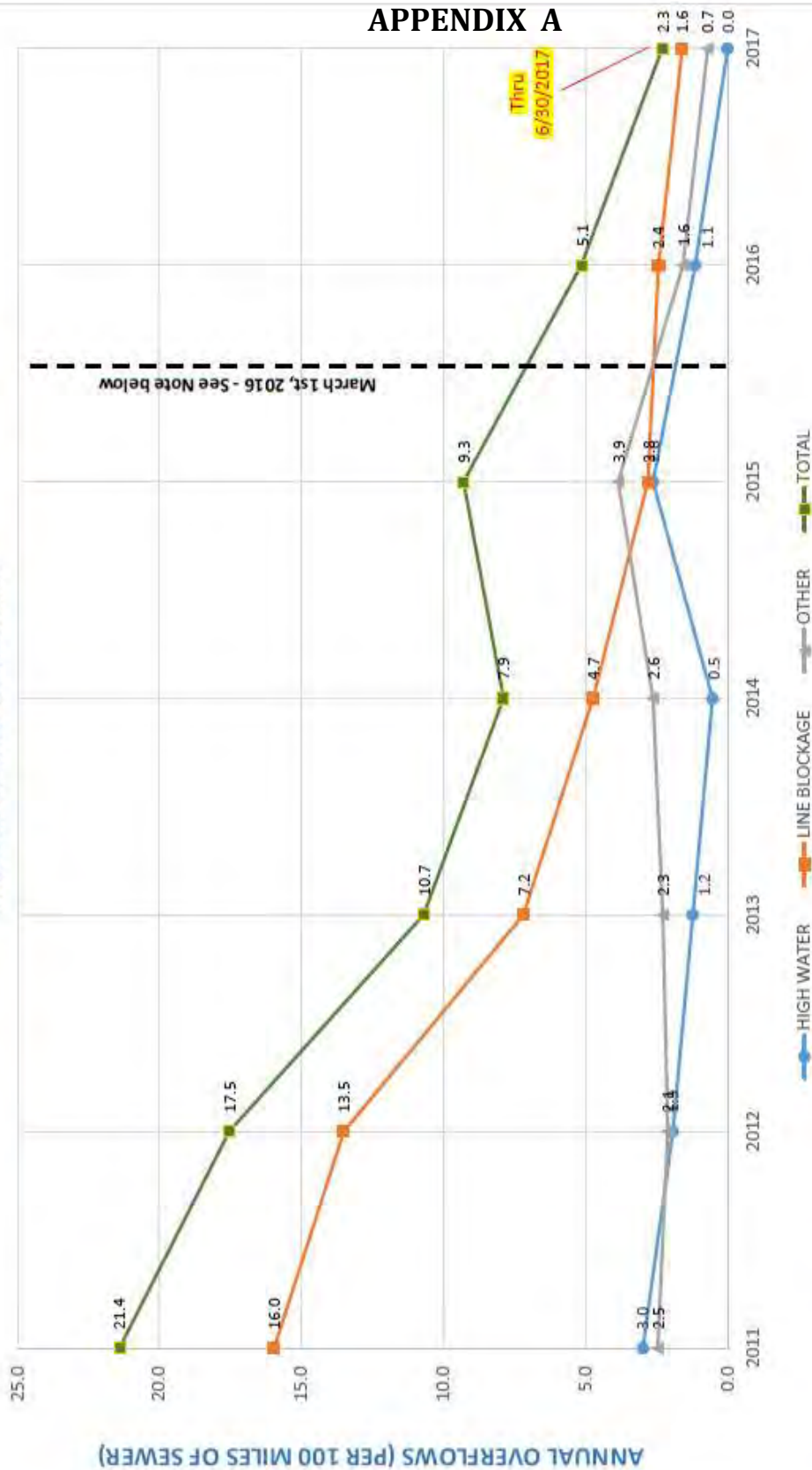
B. SSO Locations 2017

C. 2017 Year-to-Date Work Recap Report (Collection Systems Department)

D. Collection System Rehabilitation

APPENDIX A ANNUAL OVERFLOWS BY CATEGORY (PER 100 MILES OF SEWER)

NORTH LITTLE ROCK WASTEWATER



Note: On March 1st, 2016, the NLRW assumed O&M responsibilities of the Maumelle SID 500 of Pulaski County (d/b/a MWM). The MWM collection system contained 131 miles of pipeline. NLRW collection system prior to March 1st, 2016: 572 miles NLRW collection system following March 1st, 2016: 703 miles

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APPENDIX C

2017 Year-To-Date Work Recap Report							
Crews:	Jan	Feb	Mar	Apr	May	Jun	Y T D
MANHOLE:							
<i>Disconnects</i>	0	0	0	0	0	0	0
<i>Taps</i>	0	0	0	0	0	0	0
<i>Repairs</i>	64	81	98	0	77	57	377
<i># of MH's Grouted</i>	30	68	47	47	7	36	235
<i># of Coats</i>	0	0	0	0	0	0	0
<i>MH Depth (Ft/In)</i>	0.0	6.0	0.0	0	37.0	90.5	134
<i># of Bags of Grout</i>	6	5	10	0	20	25	66
POWER DRIVE:							
<i># of Ft Cleaned</i>	6,756	15,882	6,735	7,783	4,863	3,701	45,720
PWR RODDER #1:							
<i># of Ft Cleaned</i>	0	0	0	0	0	0	0
REPAIR #1:							
<i>Repairs</i>	5	8	15	10	9	4	51
<i>New Manholes</i>	1	0	0	0	1	2	4
<i>New Lines</i>	1	0	0	0	1	1	3
<i>Disconnects</i>	0	0	1	0	0	0	1
<i>Taps</i>	0	0	2	1	0	1	4
<i>Miscellaneous</i>	2	4	9	6	3	0	24
REPAIR #2:							
<i>Repairs</i>	17	15	11	14	8	8	73
<i>New Manholes</i>	0	0	0	0	0	0	0
<i>New Lines</i>	0	0	0	0	0	0	0
<i>Disconnects</i>	0	1	0	0	0	0	1
<i>Taps</i>	1	0	0	1	2	0	4
<i>Miscellaneous</i>	8	4	3	10	3	9	37
REPAIR #3:							
<i>Repairs</i>	9	11	11	12	7	4	54
<i>New Manholes</i>	1	0	0	0	0	2	3
<i>New Lines</i>	0	0	0	0	0	0	0
<i>Disconnects</i>	0	1	0	0	0	0	1
<i>Taps</i>	0	2	2	0	1	2	7
<i>Miscellaneous</i>	0	17	8	7	5	4	41
REPAIR #4:							
<i>Repairs</i>	4	7	9	3	13	4	40
<i>New Manholes</i>	0	0	0	0	0	0	0
<i>New Lines</i>	0	0	0	1	0	0	1
<i>Disconnects</i>	25	15	10	10	13	12	85
<i>Taps</i>	0	0	0	0	0	1	1
<i>Miscellaneous</i>	1	1	9	3	7	15	36
TROUBLE:							
<i># of Ft Cleaned</i>	1,801	815	572	511	773	574	5,046
<i>Stop-Ups</i>	50	40	47	31	39	7	214
<i>Private Lines</i>	33	31	33	21	30	23	171
<i>Cave-In</i>	6	1	3	7	11	1	29
<i>Flooded Houses</i>	0	0	0	0	0	0	0
<i>Miscellaneous</i>	39	43	48	46	53	52	281
<i>Total Calls</i>	97	83	99	81	103	83	546
VACCON #1:							
<i># of Ft Cleaned</i>	37,222	36,816	40,641	37,587	36,029	32,035	220,330
VACCON #2:							
<i># of Ft Cleaned</i>	22,978	39,994	41,972	49,039	45,762	40,881	240,626
VACCON #3:							
<i># of Ft Cleaned</i>	50,961	45,546	46,199	45,189	62,409	31,999	282,303
VACCON #4:							
<i># of Ft Cleaned</i>	17,567	0	10,715	927	12,822	25,010	67,041
VACCON #5:							
<i># of Ft Cleaned</i>	27,671	22,319	43,157	29,529	27,902	41,854	192,432
TV #1							
<i># of Ft</i>	19,511	21,420	24,657	14,535	21,301	18,530	119,954
TV #2							
<i># of Ft</i>	18,483	9,151	21,477	19,663	22,210	28,528	119,512

APPENDIX D

