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

North Little Rock Wastewater Utility

2016 Annual Report

Consent Administrative Order LIS 10-218

North Little Rock
Wastewater Utility
2016 Annual Report

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North Little Rock Wastewater Utility

2016 Annual Report

Consent Administrative Order LIS 10-218

Attn: Allen 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 sixth Annual Report is due February 1, 2016.

1. Wastewater Master Plan

A. Milestone Schedule

Date	Milestone
• 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)

The following is a listing of projects scheduled to be completed as part of the Capital Improvements Plan recommendations from the 2011 Master Plan and progress made to date.

i. Faulkner Lake Phase III STP Modifications

a. Modifications to the Influent Pump Station

Contractor: J. S. Haren Company of Athens, TN
Contract Amount: $2,106,883.34
Project Status: 100% Complete (05/18/14)

b. Faulkner Lake Phase III STP Modifications

Contractor: BRB Contractors, Inc. of Topeka, KS
Contract Amount: $3,554,543.49
Project Status: 100% Complete

ii. Pipeline Rehabilitation Projects

a. 2012 Cured In Place (CIPP) Rehabilitation Project

Contractor: Insituform Technologies
Contract Amount: $393,900.00
Project Status: 100% Complete (08/31/12)

b. 2012 Cured In Place (CIPP) Rehabilitation Project

Contractor: PM Construction & Rehabilitation of Houston, TX
Contract Amount: $1,768,908.00
Project Status: 87% Complete

c. Lakewood Basin CIPP 2015 Rehabilitation Project

Contractor: Insituform Technologies of Chesterfield, MO
Contract Amount: $1,427,631.50
Project Status: 46% Complete

d. Lakewood Basin Pipe Bursting 2015 Rehabilitation Project

Contractor: Horseshoe Construction, Inc.
Contract Amount: $1,949,058.00
Project Status: 32% Complete

iii. Shillcutt Pump Station Modifications

Contractor: Max Foote Construction, Inc. of Birmingham, AL
Contract Amount: $5,166,843.13
Project Status: 100% Complete (10/23/14)

iv. Five Mile Creek Wastewater Treatment Plant Improvements 2013

Marlar Engineering Co., Inc. is the design engineer.

Contractor: Crossland Heavy Contractors of Columbus, KS
Contract Amount: $5,343,313.00.
Project Status: 100% Complete (07/14/14)

v. Auxiliary Generators for Pump Stations and Treatment Plants

a. 2013 Auxiliary Generators and Transfer Switches

Contractor: Nease Electrical, Inc. of Hot Springs, AR
Contract Amount: $392,922.00
Project Status: 100% Complete (07/23/14)

b. 2014 Auxiliary Generators and Transfer Switches

Contractor: Lock-Wood Electric, Inc.
Contract Amount: $191,995.00
Project Status: 100% Complete (12/31/14)

vi. Oakbrook/Manor Drive Pump Station Upgrade

Staff rebuilt and modified both pumps to increase the pumping capacity from 360gpm to 562 gpm.

vii. Maintenance and Emergency Equipment Storage Facilities

Contractor: CWR Construction of North Little Rock, AR
Contract Amount: $616,227.32
Project Status: 100% Complete (09/12/2014)

viii. 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:

a. Sediment Removal (FL-P1-SR)

Projected cost of construction is $290,000 and the projected cost of professional services is $43,500.

b. Cedar Street Sewer Improvements

Design and timing for this project is dependent on final stabilization of the landslide.

Projected cost of construction is $220,000 and the projected cost of professional services is $33,000.

c. Gravity Pipe Replacement (FL-GSO2)

This project is the downstream extension of the Lakewood Lake No. 2 project.

Projected cost of construction is $1,300.000, and the projected cost of professional services is $195,000.

d. Gravity Pipe Replacement (FL-GSO3)

This project consists of gravity collection improvements along the south side of Lakewood Lake No. 1.

Projected cost of construction is $1,100,000, and the projected cost of professional services is $165,000.

C. Sewer System Evaluation Survey (SSES)

The following is an update on SSESs completed, in progress, or scheduled for the upcoming year:

A map of the SSES Plan is shown on page ten (10).

i. 2012 SSES (Levy Area)

In 2012, the Utility contracted with rjngroup, inc. to conduct SSES fieldwork. Following is a summary of SSES fieldwork conducted in the Levy area during the calendar year 2012:

Activity	Quantity	Results	Quantity I/I (mgd)
Smoke Testing	205,569 LF	256	0.539
Manhole Inspections	571 EA	633	0.354
Dye Testing	50 EA	42	1.567
TV Investigations	276,870 LF*		Not Quantified

*System Wide

ii. 2013 SSES (Lakewood Area)

Following is a summary of SSES fieldwork conducted in the Lakewood area during the calendar year 2013:

Activity	Quantity	Defects	Quantity I/I (mgd)
Smoke Testing	308,152 LF	945	0.625
Manhole Inspections	641 EA	566	0.351
Dye Testing	64 EA	49	0.843
TV Investigations	229,503 LF*		Not Quantified

*System Wide

iii. 2014 SSES (Baring Cross and Oakbrook SID)

Following is a summary of SSES fieldwork conducted in the Baring Cross SID during the calendar year 2014:

Activity	Quantity	Defects	Quantity I/I (mgd)
Smoke Testing	312,256 LF	1,202	2.410
Manhole Inspections	1,488 EA	1,458	0.814
Dye Testing	80 EA	69	2.418
TV Investigations	317,521 LF*		Not Quantified

*System Wide

Following is a summary of SSES fieldwork conducted in the Oakbrook SID during the calendar year 2014:

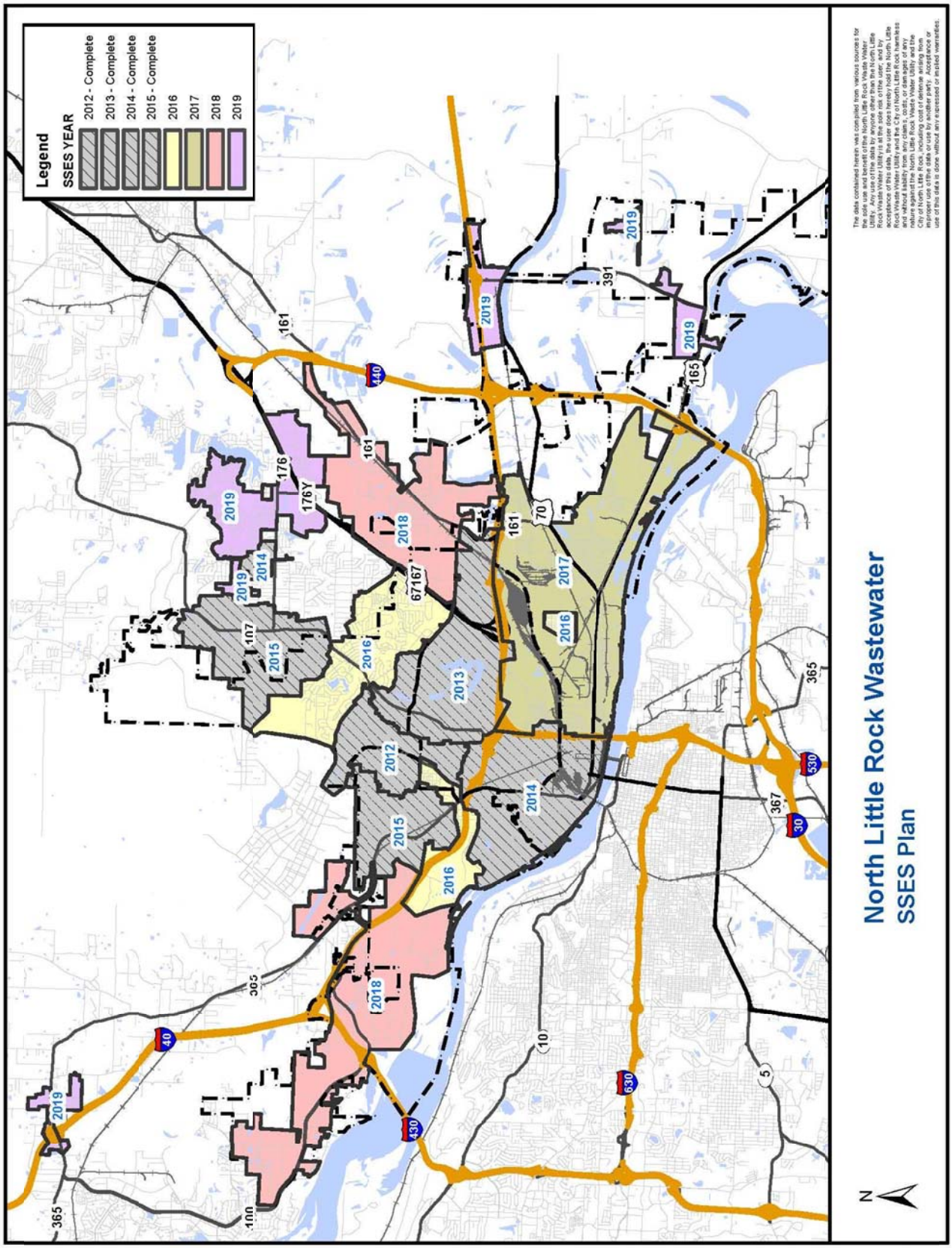
Activity	Quantity	Defects	Quantity I/I (mgd)
Smoke Testing	28,640 LF	36	0.014
Manhole Inspections	148 EA	57	0.032
Dye Testing	1 EA	1	0.002
TV Investigations	317,521 LF*		Not Quantified

*System Wide

iv. 2015 SSES (West Levy and District 212)

Activity	Quantity	Defects	Quantity I/I (mgd)
Smoke Testing	378,056 LF	585	0.74
Manhole Inspections	1,762 EA	1,546	0.958
Dye Testing	56 EA	30	0.835
TV Investigations	544,811 LF*		Not Quantified

*System Wide

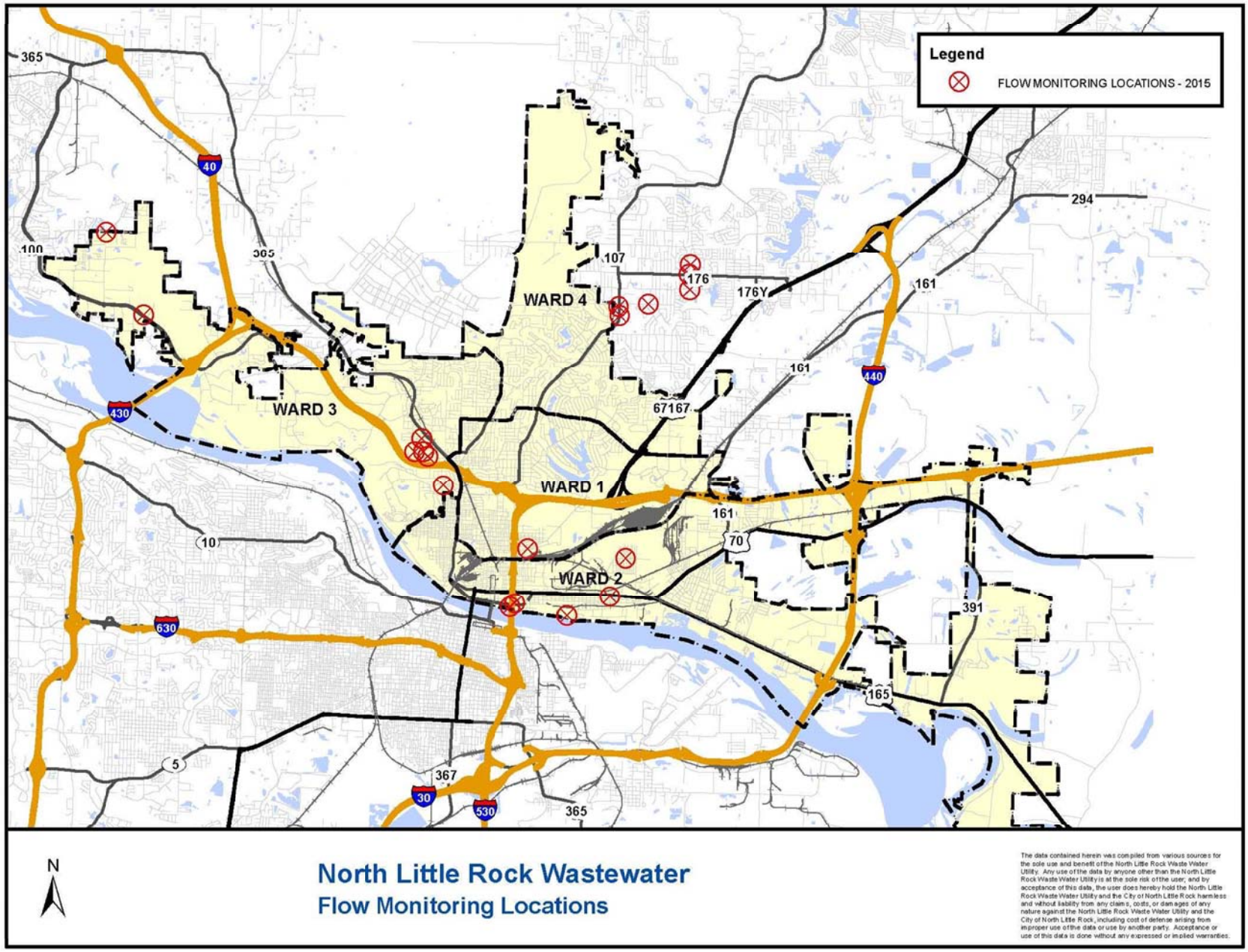

Legend
SSES YEAR
2012 - Complete
2013 - Complete
2014 - Complete
2015 - Complete
2016
2017
2018
2019
North Little Rock Wastewater
SSES Plan
N

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

The Master plan 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.

The Utility’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.


Legend
FLOW MONITORING LOCATIONS - 2015
WARD 1
WARD 2
WARD 3
WARD 4
365
40
100
107
176
176Y
294
161
430
440
67167
10
70
630
391
165
5
367
30
530
N
North Little Rock Wastewater
Flow Monitoring Locations
The data contained herein was compiled from various sources for the sole use and benefit of the North Little Rock Waste Water Utility. Any use of the data by anyone other than the North Little Rock Waste Water Utility is at the sole risk of the user; and by acceptance of this data, the user does hereby hold the North Little Rock Waste Water Utility and the City of North Little Rock harmless and without liability from any claims, costs, or damages of any nature against the North Little Rock Waste Water Utility and the City of North Little Rock, including cost of defense arising from improper use of the data or use by another party. Acceptance or use of this data is done without any expressed or implied warranties.

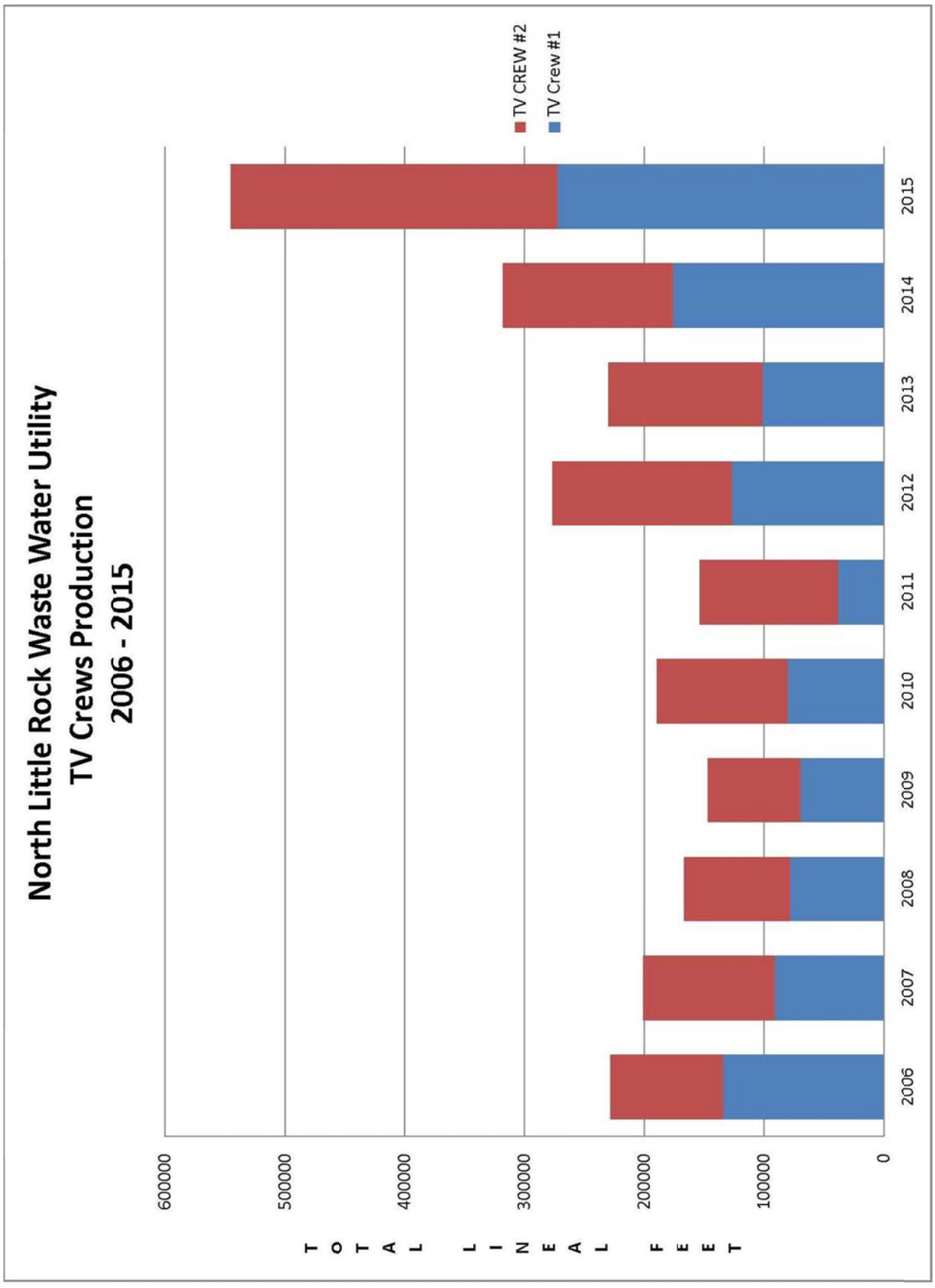
E. Collection System and Wastewater Treatment Plant Remedial Measures Plan

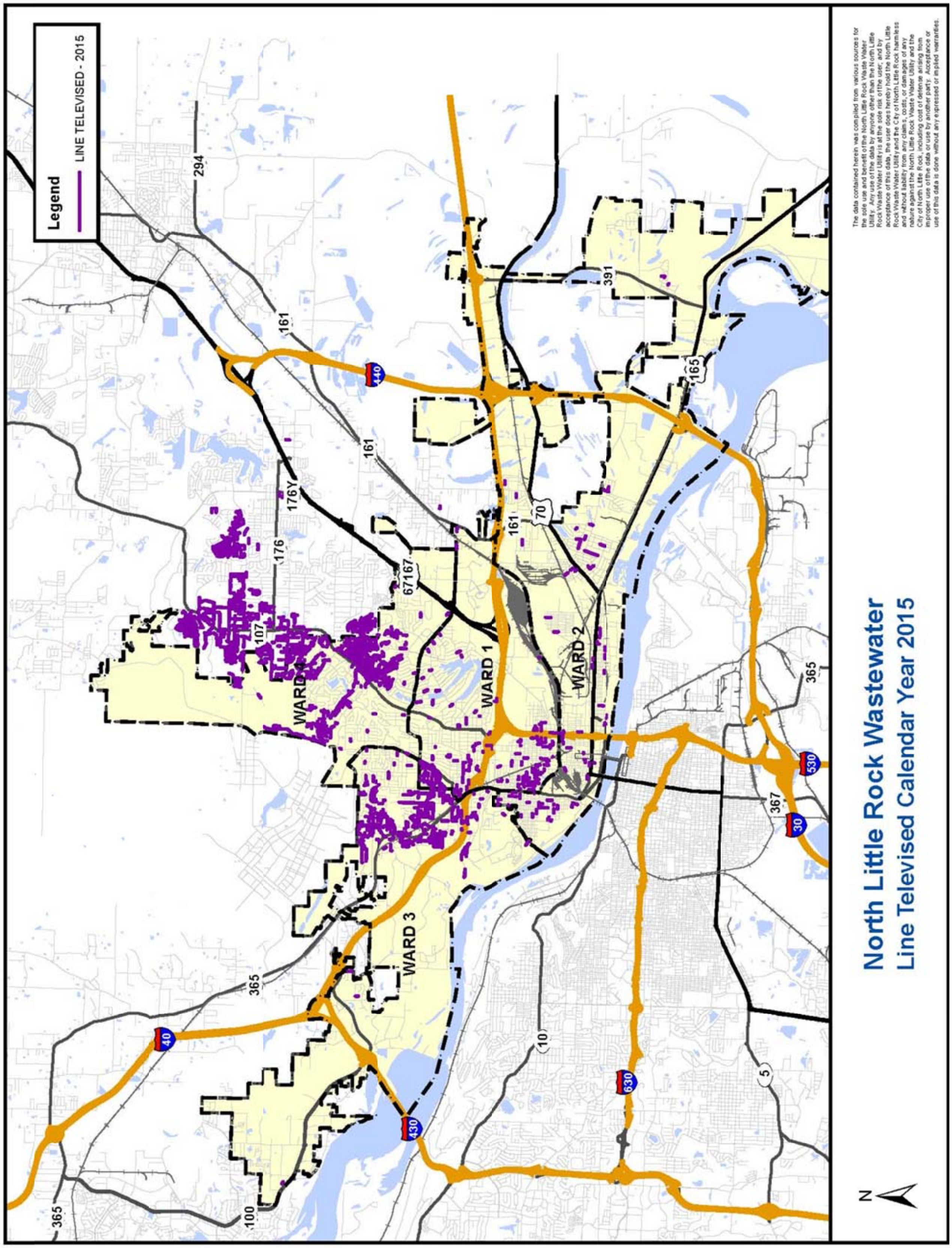
The following is an update of progress on specific collection system and WWTP Remedial Measures:

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

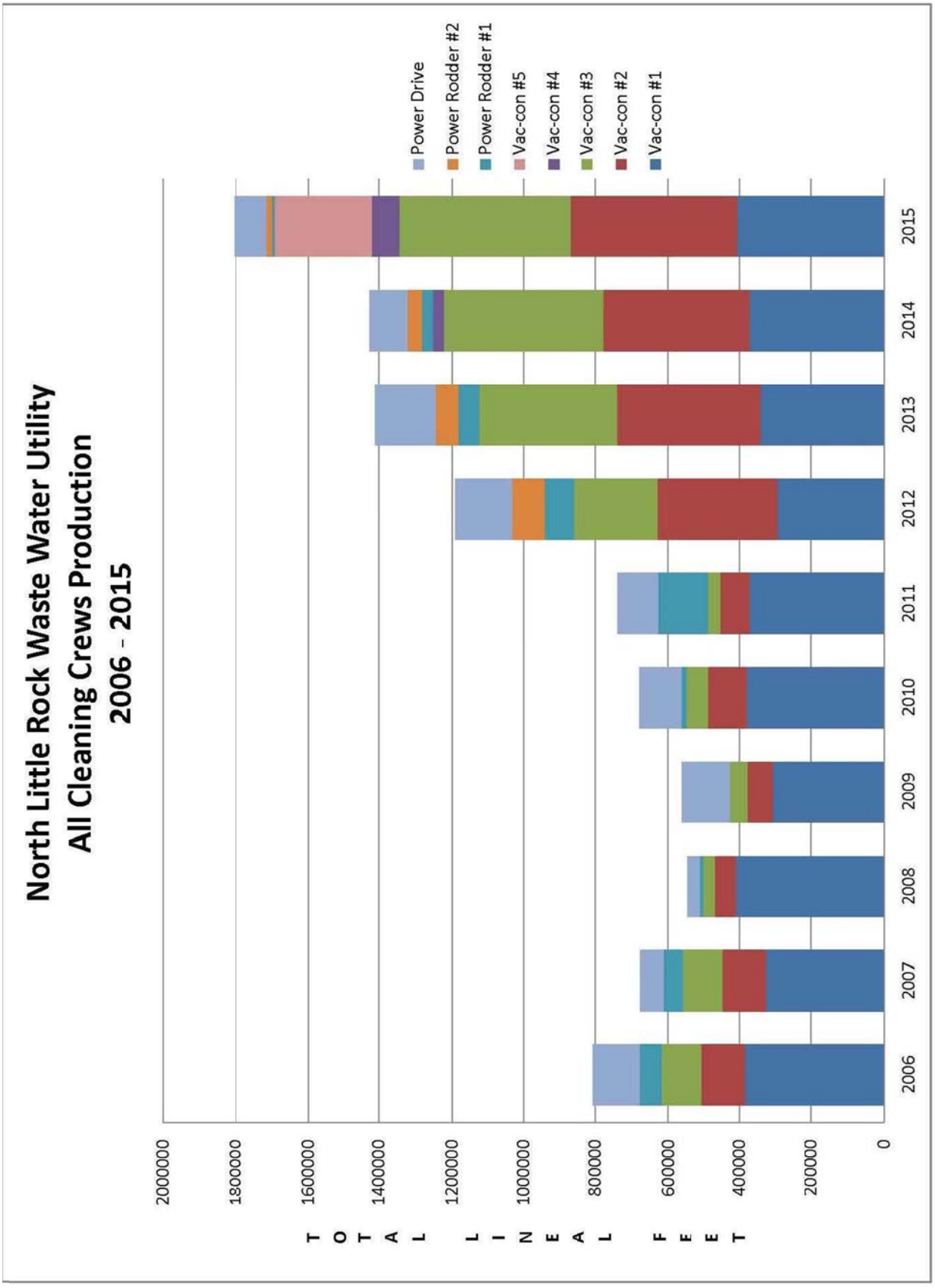
i. Increase production of TV and cleaning crews

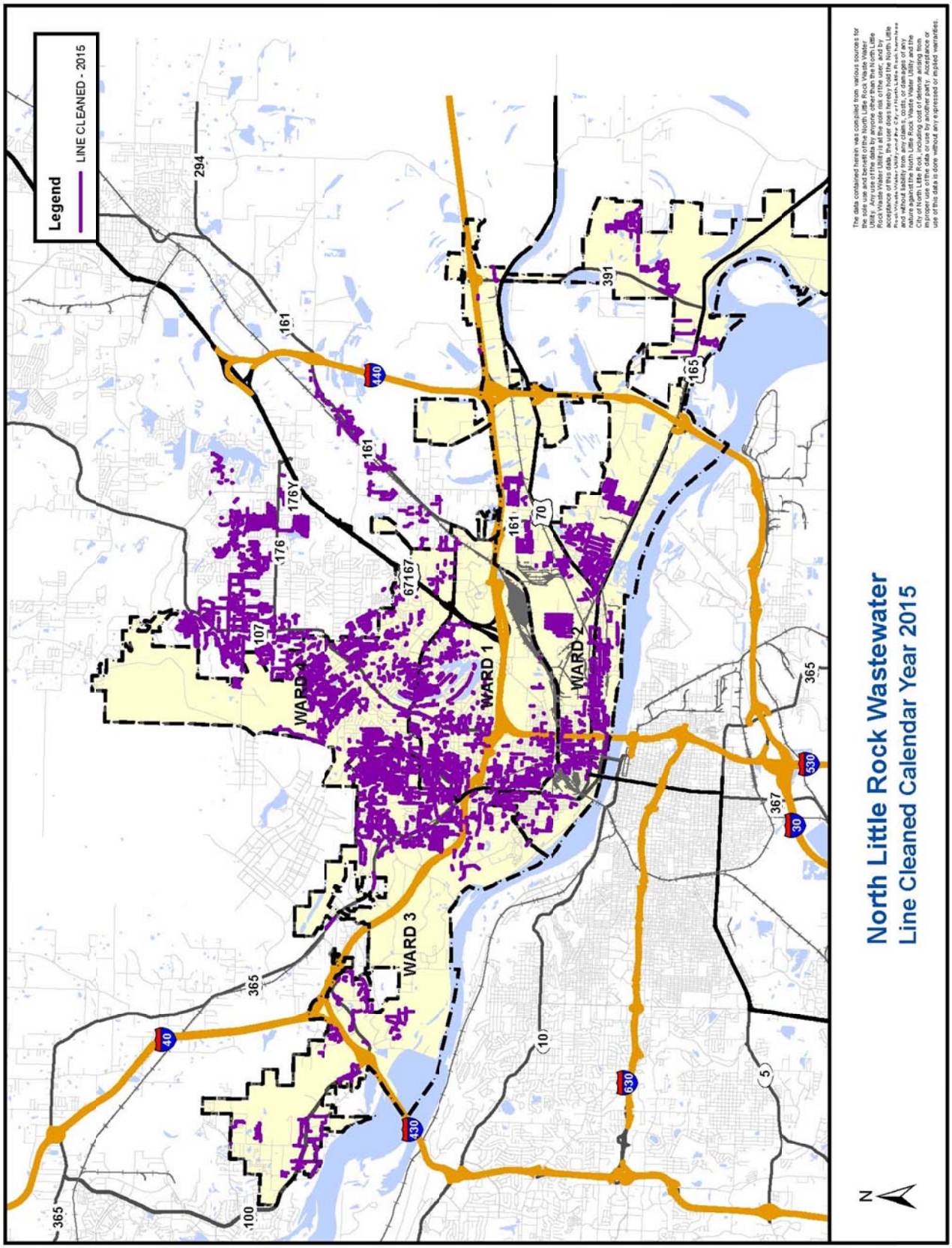
a. The following graph (TV Crew Production 2006 – 2015) and map (Lines Televised Calendar Year 2015) document the efforts to increase production of the TV crews in targeted areas.


North Little Rock Waste Water Utility
TV Crews Production
2006 - 2015
TV CREW #2
TV Crew #1
TOTAL LINEAL FEET
600000
500000
400000
300000
200000
100000
0
2015
2014
2013
2012
2011
2010
2009
2008
2007
2006


North Little Rock Wastewater
Line Televised Calendar Year 2015
Legend
LINE TELEVISED - 2015
WARD 1
WARD 2
WARD 3
WARD 4

b. The following graph (All Cleaning Crews Production 2006 – 2015) and map (Lines Cleaned Calendar Year 2015) document the efforts to increase production of the cleaning crews in targeted areas.


North Little Rock Waste Water Utility
All Cleaning Crews Production
2006 - 2015
Power Drive
Power Rodder #2
Power Rodder #1
Vac-con #5
Vac-con #4
Vac-con #3
Vac-con #2
Vac-con #1
TOTAL LINEAL FEET
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015


Legend
LINE CLEANED - 2015
North Little Rock Wastewater
Line Cleaned Calendar Year 2015
WARD 1
WARD 2
WARD 3
WARD 4
N

ii. Increase production by adding additional crews or personnel

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

4 Vacon Crews
1 Power Rodder Crew
1 Power Drive Crew

The fifth Vacon is kept as a spare and is shared by all Vacon Crews when their equipment is down for maintenance.

iii. Provide emergency pumping connections at pump stations.

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.

Since December 2000, emergency pumping connections have been installed on thirty-three (33) pump stations, and emergency pumping connections are required on all new pump stations where feasible.

The following “Pump Station Emergency Response Connections” sheets identify pump stations with emergency pumping connections.

NORTH LITTLE ROCK WASTE WATER UTILITY

PUMP STATION EMERGENCY RESPONSE CONNECTIONS

PUMP STATION #	PUMP STATION NAME	LOCATION	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOLTS
402	BRIDGEWAY HOSPITAL #2	BEHIND BRIDGEWAY HOSPITAL	Y	N	N	230 1Ø
403	CLAYTON CHAPEL	8910 LANDERS ROAD	Y	N	N	240 3Ø
405	DELTA LAWN	INTERSECTION OF CAMPBELL & LYNCH	Y	AUTO	Y	240 3Ø
406	DIXIE	920 F STREET (10TH & G)	Y	N	N	240 3Ø
407	HWY 107	10617 HWY 107	Y	AUTO	Y	240 3Ø
408	LANSBROOK	2312 HOLT ROAD (EAST BETHANY & HOLT)	Y	Manual	N	240 3Ø
409	MARYLAND EAST	1500 EAST MARYLAND	Y	AUTO	Y	240 3Ø
410	MARYLAND PLACE	S. SIDE OF E. MARYLAND; 400 YRDS FROM MARYLAND E. PS.	Y	N	N	240 1Ø
413	COCK-OF-THE-WALK (#2)	SOUTHEAST SIDE OF COCK-OF-THE-WALK RESTAURANT	Y	N	N	480 3Ø
414	MAYBELLINE	AT THE END OF MAYBELLINE ROAD	Y	AUTO	Y	480 3Ø
415	MCALMONT	AT THE EAST END OF WEST 44TH	Y	N	N	240 3Ø
416	MID-STATE	HWY 161 & PROTHO, NORTH SIDE OF MID-STATE TRUCK STOP	Y	N	N	240 3Ø
417	OAKBROOK	1412 MANOR DRIVE	Y	N	N	480 3Ø
418	PINE TREE	4 PINE TREE POINT	N	N	N	240 1Ø
419	SHILLCUT	14 BAYOAKS DRIVE	N	AUTO	Y	480 3Ø
420	SHORTER COLLEGE	1001 NORTH VINE	Y	N	N	240 3Ø
421	BURNS PARK EAST	SOUTH OF THE TENNIS COURTS IN BURNS PARK	N	N	N	240 3Ø
422	BURNS PARK WEST	WEST OF RIDES IN BURNS PARK	N	N	N	240 1Ø
423	LAKEWOOD PLACE	3301 LAKEVIEW ROAD	N	N	N	230 1Ø
424	I 440 INDUSTRIAL PARK	INDUSTRIAL DRIVE	Y	N	N	208 3Ø
425	AUSTIN LAKE	802 INDIAN BAY -- SHERWOOD	Y	N	N	480 3Ø
426	FRONTIER DR.- MORGAN	FRONTIER DRIVE	Y	AUTO	Y	480 3Ø
427	MARCHE-MORGAN	ROBIN VALLEY RD.-- OFF MARCHE	Y	N	N	480 3Ø
429	BAUCUM INDUSTRIAL	1201 BAUCUM INDUSTRIAL DRIVE- NEXT TO GLOVER TRANS.	Y	N	N	208 3Ø
430	WILCOX	1124 HWY 391 SOUTH--SCOTT	Y	AUTO	Y	480 3Ø
431	QUAPAW	13743 FAULKNER LAKE RD--BY GOLF COURSE	Y	AUTO	Y	240 3Ø

Revision Date February 1, 2016

NORTH LITTLE ROCK WASTE WATER UTILITY

PUMP STATION EMERGENCY RESPONSE CONNECTIONS

PUMP STATION #	PUMP STATION NAME	LOCATION	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOLTS
432	HWY 365–SHERMAN RD	2ND CURVE TO LEFT OFF SHERMAN RD-GRAVEL EASEMENT	Y	AUTO	Y	480 3Ø
433	GAP CREEK	RIGHT OFF BROCKINGTON IN GAP CREEK SUBDIVISION- 1 BLOCK ON RIGHT	Y	N	N	240 3Ø
434	HARRIS INDUSTRIAL PARK	ON DIAMOND DR BETWEEN DIAMOND INTERNATIONAL & GREAT DANE	Y	N	N	480 3Ø
435	BURNS PARK RV PARK	BEHIND RV DUMP STATION	N	N	N	240 1Ø
436	BURNS PARK LANDSCAPING	SOUTH OF LANDSCAPE MAINTENANCE BLDG.	N	N	N	240 1Ø
437	BURNS PARK SOUTH	ON GOLF COURSE BY HOLE #5 TEE BOX, PAR 3, 132 YARDS	N	N	N	240 1Ø
438	HILL LAKE	ON BARTON RD BESIDE GALLOWAY INN	N	AUTO	Y	480 3Ø
439	BURNS PARK SOCCER FIELDS	1 BLOCK PAST HEILMAN ON RIGHT	N	N	N	230 1Ø
440	COLLINS INDUSTRIAL PARK	END OF COLLINS RD.	Y	AUTO	Y	480 3Ø
441	COUNTS MASSIE	8701 COUNTS MASSIE RD MAUMELLE, AR 72113	Y	AUTO	Y	480 3Ø
442	CHAPEL RIDGE	5900 MCCAIN PLACE NLR, AR 72116	Y	N	N	240 3Ø
443	RIXIE PUMP -HWY 161	BESIDE 6302 HWY 161	Y	AUTO	Y	480 3Ø
444	RIXIE PUMP-LUCKY DR.	LUCKY DR OFF HWY 161	Y	AUTO	Y	480 3Ø
445	RIXIE PUMP- TRAMMEL RD	BEHIND 834 TRAMMEL RD	Y	AUTO	Y	480 3Ø
446	RIXIE PUMP-RIXIE RD- RR TRACK	AT RR CROSSING ON RIXIE RD	Y	N	N	480 3Ø
447	CYPRESS CROSSING	MYENA LANE OFF OF HWY 165	Y	AUTO	Y	480 3Ø
448	CRYSTAL BAY	2 BLOCKS WEST ON CRYSTAL HILL RD FROM COUNTS MASSIE RD	Y	N	N	480 3Ø
449	TRAMMEL ESTATES	IN TRAMMEL ESTATES FIRST LEFT 1 BLOCK DOWN	Y	N	N	240 1Ø
450	EUREKA GARDEN & 46TH	CORNER OF EUREKA GARDEN & 46TH STREET	Y	AUTO	Y	240 3Ø
451	EUREKA GARDEN RD	ON EUREKA GARDEN RD	Y	Manual	N	240 3Ø
452	EUREKA GARDEN & JUDY LANE	CORNER OF EUREKA GARDEN & JUDY LANE	Y	Manual	N	240 3Ø
453	FAULKNER CROSSING 5	NORTH EAST CORNER OF FAULKNER CROSSING SUBDIVISION	Y	AUTO	Y	480 3Ø

NORTH LITTLE ROCK WASTE WATER UTILITY
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	
FIVE MILE INFLUENT	5601 E 54TH STREET	N	AUTO	Y	480 3Ø
FIVE MILE EFFLUENT	5601 E 54TH STREET	N	AUTO	Y	480 3Ø

Revision Date February 1, 2016

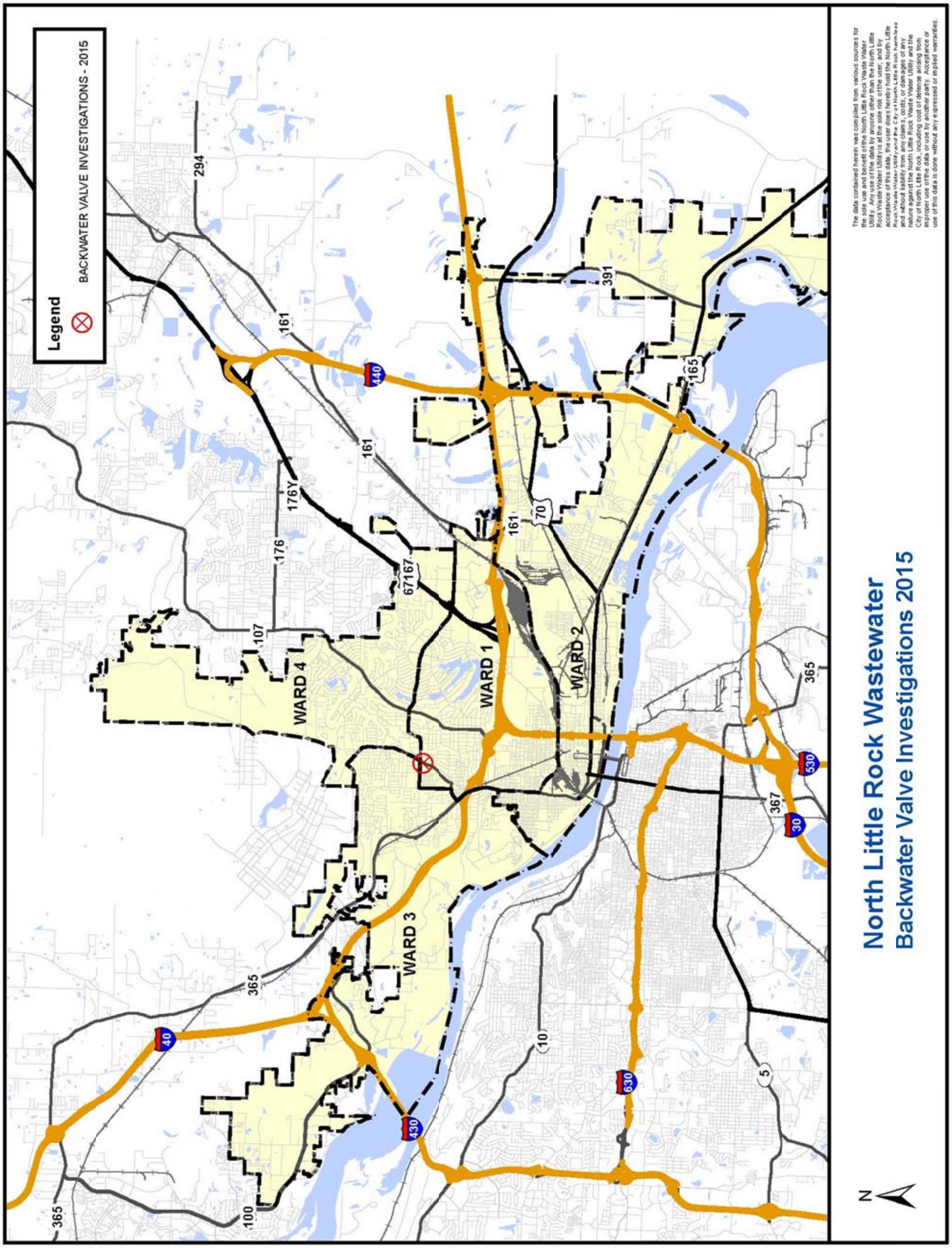
iv. Provide emergency generator connection and transfer switches at pump stations.

The above (E. iii) “Pump Station Emergency Response Connections” table identifies pump stations and treatment plants with generators and/or transfer switches.

v. Identify areas subject to building/private property backups.

The Utility 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 2015 for the need for backwater valves and the resulting action taken.


North Little Rock Wastewater
Backwater Valve Investigations 2015
Legend
BACKWATER VALVE INVESTIGATIONS - 2015
WARD 1
WARD 2
WARD 3
WARD 4
N

vi. Public education

In 2012, the Utility 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, in 2015, is attached, as well as, copies of the mailers.

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

North Little Rock Waste Water Utility's

Maintain YOUR Drain Program

(Educating the public on what "NOT" to put down the drain.)

Date	Group Name	Location	Approximate # of Attendees
01/14/15	Boone Park Elementary	1400 Crutcher St., NLR	49
02/12/15	Pikeview Elementary	441 McCain Blvd..NLR	56
03/03/15	Meadow Park Elementary	2300 Eureka Garden Road, NLR	88
05/07/15	Oak Grove Elementary	5703 Oak Grove Road, NLR	23
05/11/15	Rotary Club Jacksonville	Jacksonville, AR	25
05/18/15	Jacksonville Wastewater	248 Cloverdale Road, Jacksonville	45
10/22/15	Central Arkansas Christian	JFK Blvd.,NLR	20
10/26/15	Seventh Street Elementary	1200 East 7th Street, NLR	53
11/04/15	Central Arkansas Christian	Rodney Parham Road, LR	25
11/17/15	Crestwood	1901 Crestwood, NLR	84
12/15/15	Amboy	2400 W. 58th St., NLR	85
		Total Attendees to Date	553

Mar-15 55,000 Mailers were sent out with information on how to dispose of grease properly. It also contained information on what to not put down the drain.

Jul-15 55,000 Mailers were sent out with information on how to dispose of grease properly. It also contained information on what to not put down the drain.

Nov-15 55,000 Mailers were sent out with information on how to dispose of grease properly.

In addition, children at the schools were given bracelets with the North Little Rock Waste Water 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.

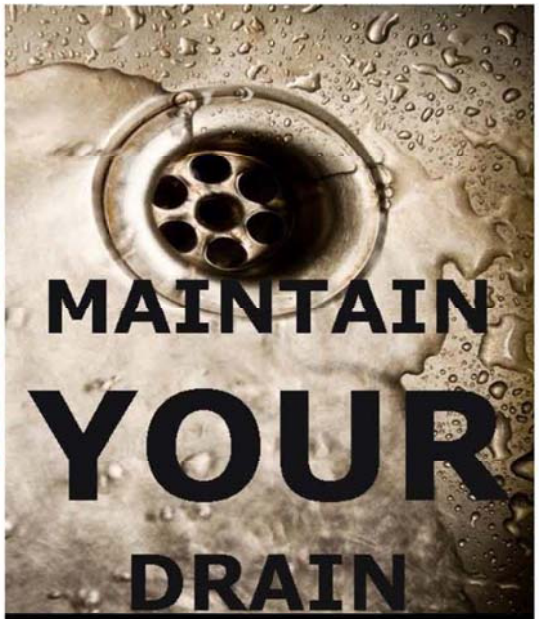
501-945-7186

Do Not Put Down the Drain or Toilet

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

WWW.NORTHLITTLEROCK.AR.GOV

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.NORTHLITTLEROCK.AR.GOV

501-945-7186

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.NORTHLITTLEROCK.AR.GOV

MAINTAIN
YOUR
DRAIN!
VAC-CON

WIPES CLOG PIPES
DON'T FLUSH WIPES!
NORTH LITTLE ROCK WASTE WATER UTILITY 501-945-7186

vi. Treatment plant stormwater runoff protection

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

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

Section B.vii provides additional information regarding this project.

viii. Secure funding for Capital Improvement Projects

a. A five-step rate increase was adopted by the North Little Rock City Council on October 26, 2015, to fund capital improvements through the Revolving Loan Fund Program.

b. On November 28, 2012, the Utility closed on a $21,000,000 loan with the Arkansas Natural Resources Commission.

Through January 2016, NLRW has spent $15,332,509.57 of the current $21,000,000 loan.

c. Marlar Engineering, Inc. has prepared a facility plan for Phase II - Capital Improvements Projects based on the 2011 Masterplan and staff recommendations. The facility plan is a requirement for securing an additional $30,000,000 funding through the Arkansas Natural Resources Commission.

ix. Point Repairs

NLRW uses outside services for point repairs depending on work load, schedule and need for specialized experience. A summary of point repairs made by outside service contractors is shown below.

Year	Type of Repair by Outside Services Contractor	# Repairs	# Complete
2015	SSES Point Repairs	5	5
2015	Repairs Beneath Water Table	2	2
2015	Other	1	1

A summary of point repairs completed by utility crews is included in Appendix C. Year-To-Date Work Recap Report (Collection Systems Department).

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

Summary of NLRWU 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 Utility certifies that we are complying with the ADEQ-approved Wastewater Master Plan.

Respectfully Submitted,

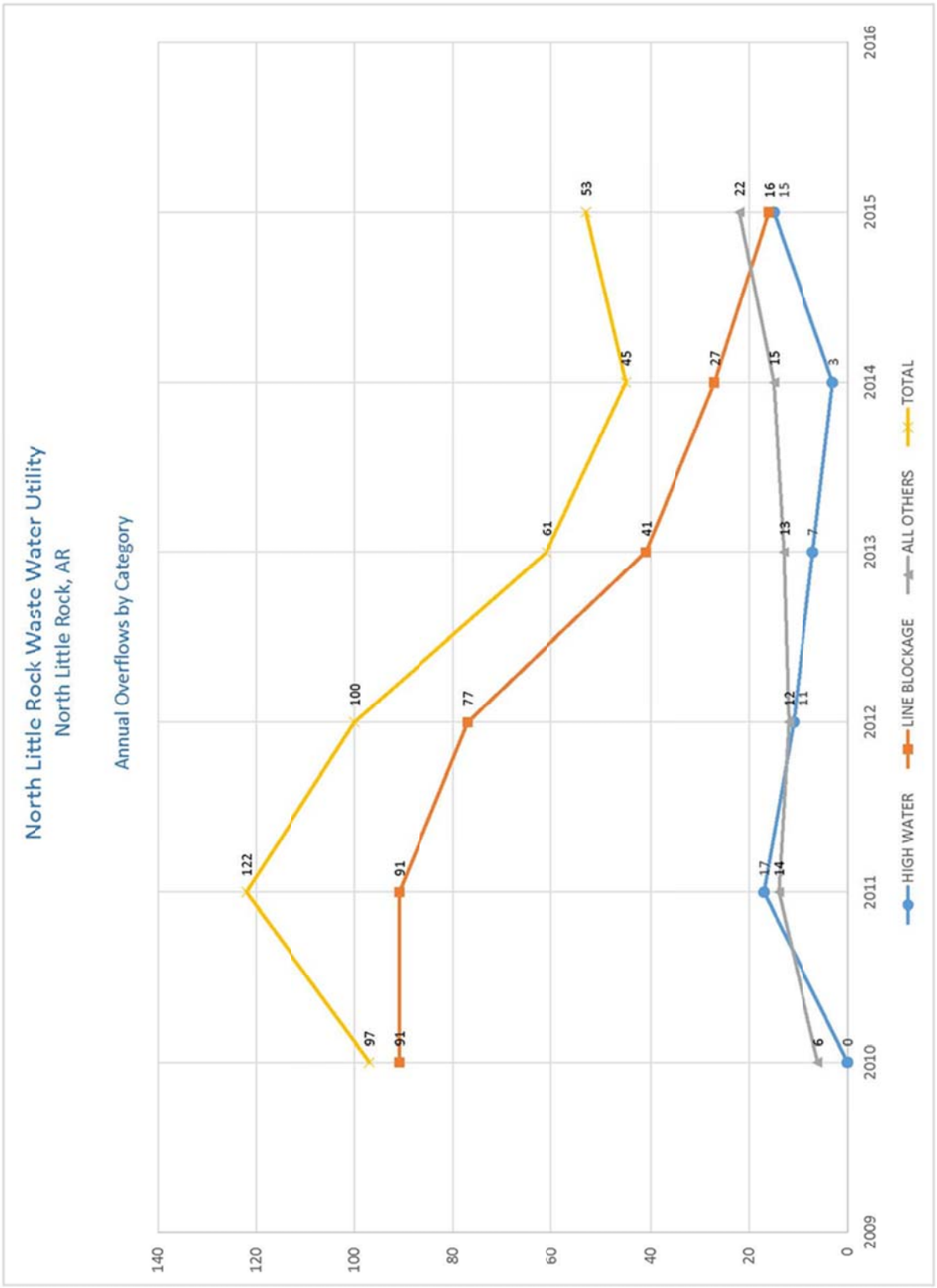
Marc E. Wilkins, PE
Director
North Little Rock Wastewater Utility

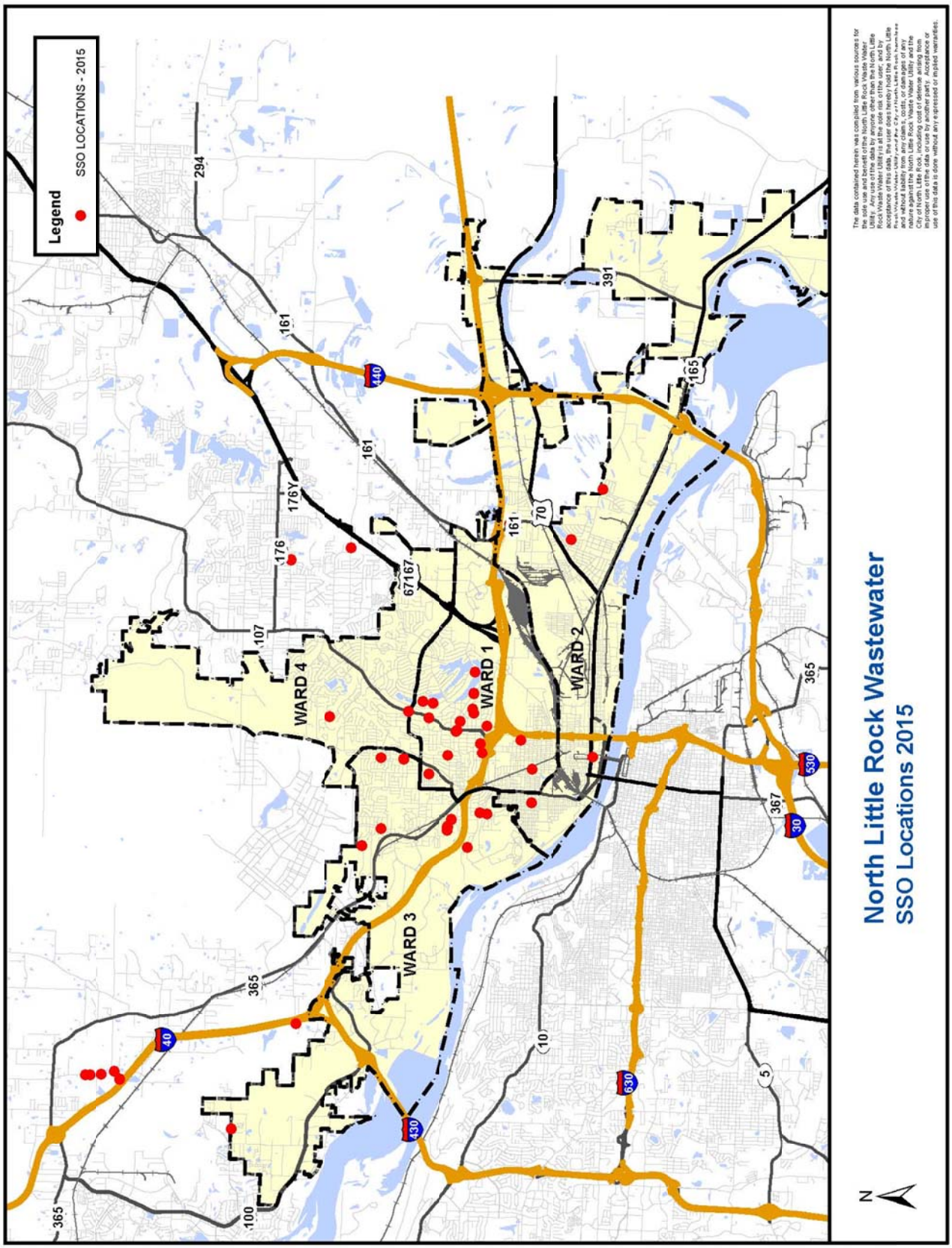
APPENDIX

A. Annual Overflows by Category

B. SSO Locations

C. 2015 Year-To-Date Work Recap Report (Collection Systems Department)


North Little Rock Waste Water Utility
North Little Rock, AR
Annual Overflows by Category
140
120
100
80
60
40
20
0
2009
2010
2011
2012
2013
2014
2015
2016
HIGH WATER
LINE BLOCKAGE
ALL OTHERS
TOTAL
97
122
100
61
53
45
91
91
77
41
27
15
17
14
12
11
13
7
3
6
22
16
15
0


Legend
SSO LOCATIONS - 2015
North Little Rock Wastewater
SSO Locations 2015
WARD 1
WARD 2
WARD 3
WARD 4
N

North Little Rock Waste Water Utility

2015 Year-To-Date Work Recap Report

Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
MANHOLE:													
Disconnects	0	1	0	0	0	0	0	0	0	0	0	0	1
Taps	0	0	0	0	0	0	0	0	0	0	1	0	1
Repairs	73	27	16	45	14	61	98	119	165	98	20	16	752
# of MH's Grouted	9	22	8	28	15	5	38	29	42	11	10	7	224
# of Coats	0		0	0	0				0	0	0	0	0
MH Depth (Ft/In)	0	1	0	18	53	10	117	60	110	51	0	0	420
# of Bags of Grout	9	6	8	16	12	9	36	16	38	18	1	4	173
POWER DRIVE:													
# of Ft Cleaned	12,703	9,435	6,508	17,860	13,170	1,429	0	0	5,722	10,112	7,995	5,123	90,057
PWR RODDER #1:													
# of Ft Cleaned	2,511	4,032	0	0	0	599	0	0	0	389	0	0	7,531
PWR RODDER #2:													
# of Ft Cleaned	1,855	1,500	1,776	8,929	621	0	0	0	0	0	0	0	14,681
REPAIR #1:													
Repairs	3	6	13	16	13	10	9	15	7	6	6	5	109
New Manholes	0	0	1	0	0	0	0	0	1	1	2	1	6
New Lines	0	0	0	0	0	0	0	0	0	0	0	0	0
Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	0
Taps	1	1	1	1	0	0	0	0	0	0	1	0	5
Miscellaneous	8	12	7	14	14	1	2	9	3	4	2	7	83
REPAIR #2:													
Repairs	16	9	16	12	9	14	9	16	13	17	9	13	153
New Manholes	0	0	0	0	0	0	0	0	0	0	1	0	1
New Lines	0	0	0	0	0	0	0	0	0	0	0	0	0
Disconnects	1	1	0	1	0	0	0	0	0	0	0	0	3
Taps	0	1	1	0	1	0	0	0	0	0	2	0	5
Miscellaneous	3	8	7	9	11	4	5	8	7	2	3	4	71
REPAIR #3:													
Repairs	6	12	11	8	5	3	7	13	9	12	7	9	102
New Manholes	0	0	2	0	0	0	2	1	0	0	3	0	8
New Lines	0	0	0	0	0	0	1	0	0	1	0	0	2
Disconnects	0	1	0	0	0	0	0	0	0	0	0	0	1
Taps	10	2	1	1	0	0	0	2	2	1	0	2	21
Miscellaneous	8	8	3	6	8	3	1	2	0	10	8	11	68
TROUBLE:													
# of Ft Cleaned	553	800	3,085	445	638	563	485	143	867	565	300	789	9,233
Stop-Ups	42	40	57	27	24	30	24	17	25	32	30	40	388
Private Lines	34	24	32	18	17	19	17	16	20	25	20	31	273
Cave-Ins	2	0	9	8	9	9	4	3	5	3	3	4	59
Flooded Houses	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	63	38	40	49	59	83	76	57	54	66	54	56	695
Total Calls	98	76	105	84	92	122	104	76	83	93	85	100	1,118
VACCON #1:													
# of Ft Cleaned	28,820	22,012	30,109	22,253	39,759	38,822	31,892	35,979	38,327	41,761	38,778	38,099	406,611
VACCON #2:													
# of Ft Cleaned	13,657	14,635	41,387	54,226	20,785	54,253	51,930	44,485	41,344	47,363	29,727	51,475	465,267
VACCON #3:													
# of Ft Cleaned	32,241	22,959	35,302	56,498	43,678	47,845	33,655	33,828	42,087	44,240	41,831	39,651	473,815
VACCON #4:													
# of Ft Cleaned	0	0	0	17,720	19,200	2,369	3,422	0	13,362	12,466	6,239	0	74,778
VACCON #5:													
# of Ft Cleaned	0	0	0	0	19,424	41,573	38,111	34,351	32,346	39,558	38,671	27,262	271,296
T V #1													
# of Ft	18,955	17,466	16,100	23,949	21,743	28,492	23,336	26,227	23,856	23,380	21,307	27,937	272,748
T V #2													
# of Ft	24,641	10,882	10,305	29,165	20,993	29,593	29,065	24,565	27,037	30,110	17,326	18,381	272,063