



North Little Rock Wastewater

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



2019 End of Year Report

Consent Administrative Order LIS 10-218 CLOSED



PREFACE

North Little Rock Wastewater (NLRW) was granted closure of CAO LIS 10-218 on November 5, 2018, having demonstrated significant reductions in Sanitary Sewer Overflows and having established a program of continuous improvement and maintenance of its collection system. Due to these ongoing improvements, NLRW is pleased to continue submittal of annual reports until February 1, 2021.

(**COVER PHOTO** - Drone photo of aeration basins, parshall flume, influent pump station, and high water pump station at Faulkner Lake WRF taken June 3, 2019.)

North Little Rock Wastewater 2019 End of Year Report

Consent Administrative Order LIS 10-218 Closed

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North Little Rock Wastewater 2019 End of Year Report

Consent Administrative Order LIS 10-218
Closed

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

In accordance with the request to continue submitting annual reports following closure of CAO LIS 10-218 until February 1, 2021, North Little Rock Wastewater has completed the 2019 End of Year Report.

#

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
Maumelle	Maumelle/White Oak Diversion Project	\$16,000,000	50% Design	12/31/2019
TOTAL \$		\$27,620,966		

ii. Pipeline Rehabilitation

Projects

PROJECT NAME	METHOD	LINEAL FT	\$	% COMPLETE	DATE
Baring Cross Basin CIPP 2016 Rehabilitation	CIPP Pipe	22,925	\$1,808,523	100%	11/17/18
Baring Cross Basin Pipe Bursting 2016 Rehabilitation	Bursting	51,026	\$4,137,738	100%	10/01/18
W. Levy/212 Basin CIPP 2016 Rehabilitation	CIPP Pipe	26,359	\$1,763,351	99%	12/31/19
W. Levy/212 Basin Pipe Bursting 2016 Rehabilitation	Bursting	31,561	\$1,978,362	100%	08/21/19
Lower Riverside Interceptor	CIPP/SL	4,345	\$4,400,000	Design	12/31/18
South Levy/Indian Hills CIPP 2017 Rehabilitation	CIPP Pipe	49,153	\$2,882,300	63%	12/31/19
South Levy/Indian Hills Pipe Bursting 2017 Rehabilitation	Bursting Pipe	39,108	\$3,585,300	96%	12/31/19
Lakewood Pipe Bursting 2019 Rehabilitation Project	Bursting	25,850	\$1,988,834	Under Contract	12/31/19
Lakewood CIPP 2019 Rehabilitation Project	CIPP	21,829	\$1,241,831	Under Contract	12/31/19
TOTAL		272,156	\$23,786,239		

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	100%	12/31/17
2017 Auxiliary Generators & Transfer Switches	\$286,411	100%	12/31/17
2018 Auxiliary Generators & Transfer Switches	\$193,056	100%	07/31/19
2019 Wilcox Liftstation Rehabilitation Project	\$54,230	100%	03/04/19
TOTAL \$	\$6,666,562		

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%	12/31/17
Cedar Street Sewer Improvements	\$220,000	*	12/31/17
Gravity Pipe Replacement (FL-GS02)	\$1,300,000	0%	12/31/17
Gravity Pipe Replacement (FL-GS03)	\$1,100,000	0%	12/31/17
White Oak Interceptor Phase II	<u>\$4,796,835</u>	100%	12/31/17
TOTAL \$ \$7,706,835			
<i>* Will be started following final stabilization of the landslide by others.</i>			

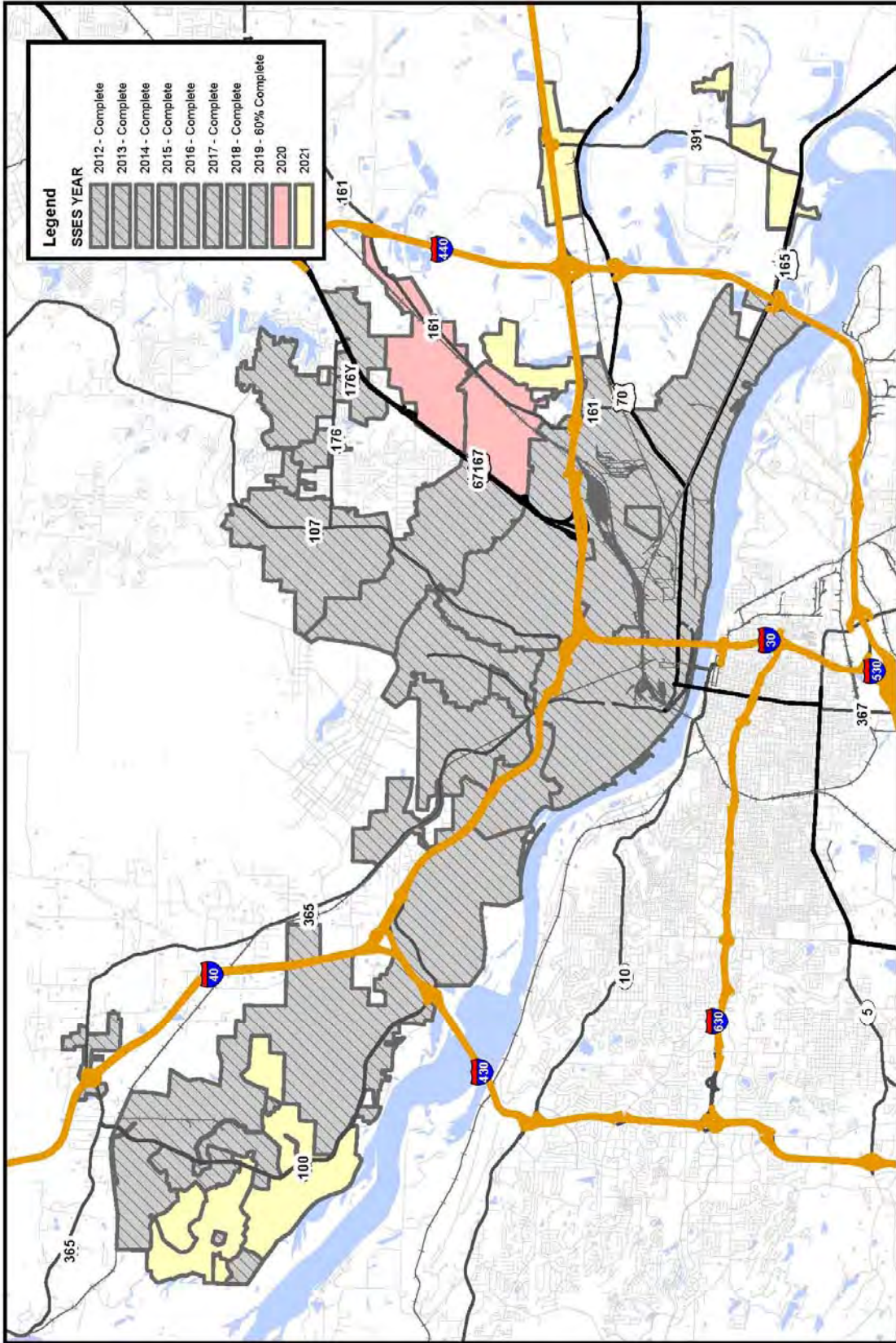
C. Sewer System Evaluation Survey (SSES)

Following is a summary of SSES fieldwork completed to date.

SUMMARY OF SSES FIELDWORK										
Project Name	Smoke Testing			Manhole Inspections			Dye Testing			CCTV
	Quantity	Defects	I/I	Quantity	Defects	I/I	Quantity	Defects	I/I	Quantity
	(LF)	(EA)	(mgd)	(EA)	(EA)	(mgd)	(EA)	(EA)	(mgd)	(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
2017 SSES (Rose City)	450,144	589	1.284	1,993	4,019	1.348	44	39	0.499	483,594
2018 SSES (Maumelle/White Oak)	437,058	193		1,833	2,047	1.232	15	11	0.168	402,424
2019 SSES	445,980			1,210			15			
* System Wide	2,951,385	4,305	6.054	11,409	12,513	6.537	358	265	6.603	2,692,532

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	100%	12/2017
SSES 2018	\$690,406	100%	6/2019
SSES 2019	\$445,980	60%	12/2019
TOTAL	\$4,118,101		

Following is a map delineating the schedule of SSES fieldwork.



Legend

SSES YEAR	Completion Status
[Diagonal Hatching]	2012 - Complete
[Diagonal Hatching]	2013 - Complete
[Diagonal Hatching]	2014 - Complete
[Diagonal Hatching]	2015 - Complete
[Diagonal Hatching]	2016 - Complete
[Diagonal Hatching]	2017 - Complete
[Diagonal Hatching]	2018 - Complete
[Pink]	2019 - 60% Complete
[Light Yellow]	2020
[Yellow]	2021

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North Little Rock Wastewater SSES Schedule



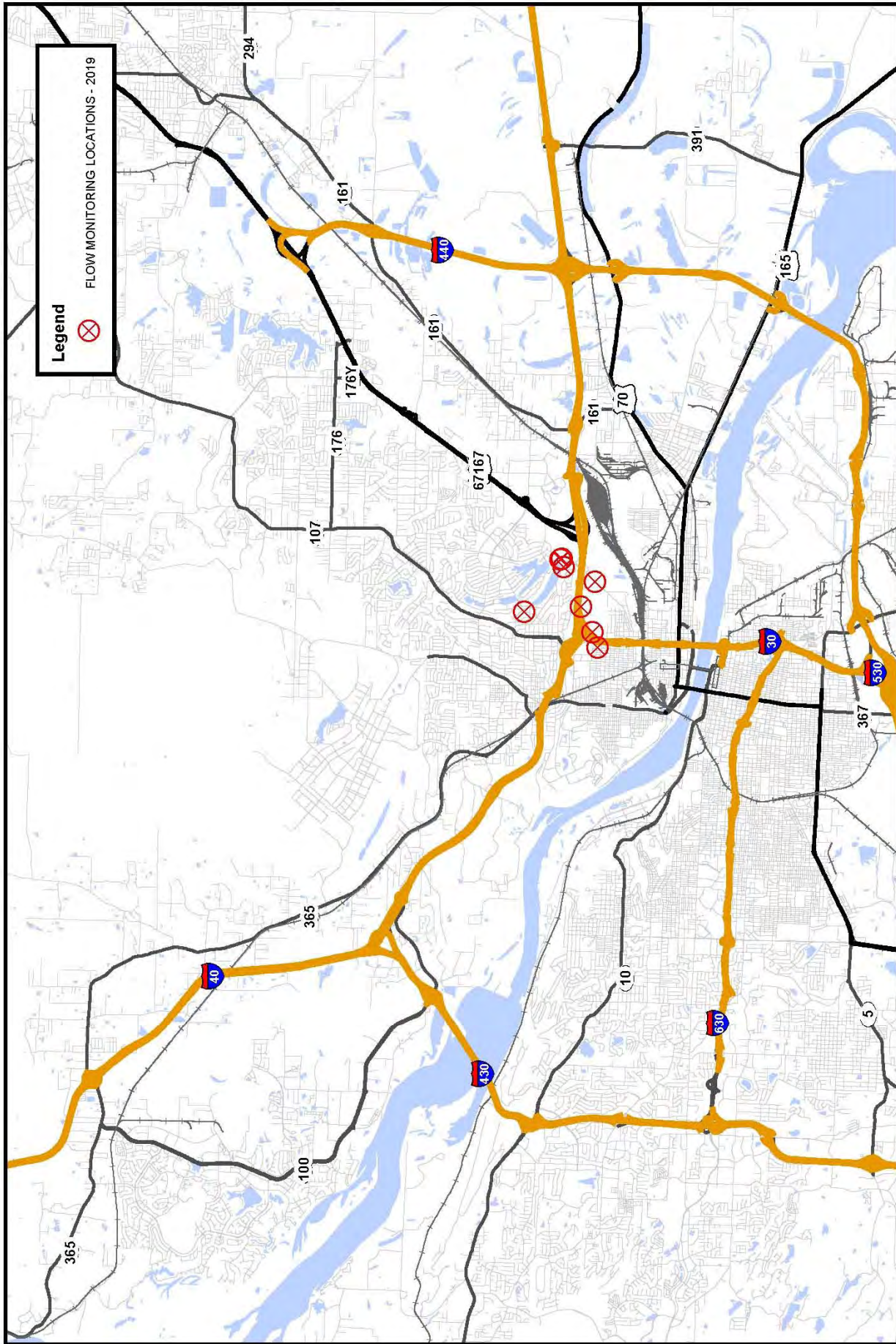
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D. SSES, Pumping Station, Capacity Assessment, and Hydraulic Model Evaluation Report

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.



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North Little Rock Wastewater Flow Monitoring Locations - 2019



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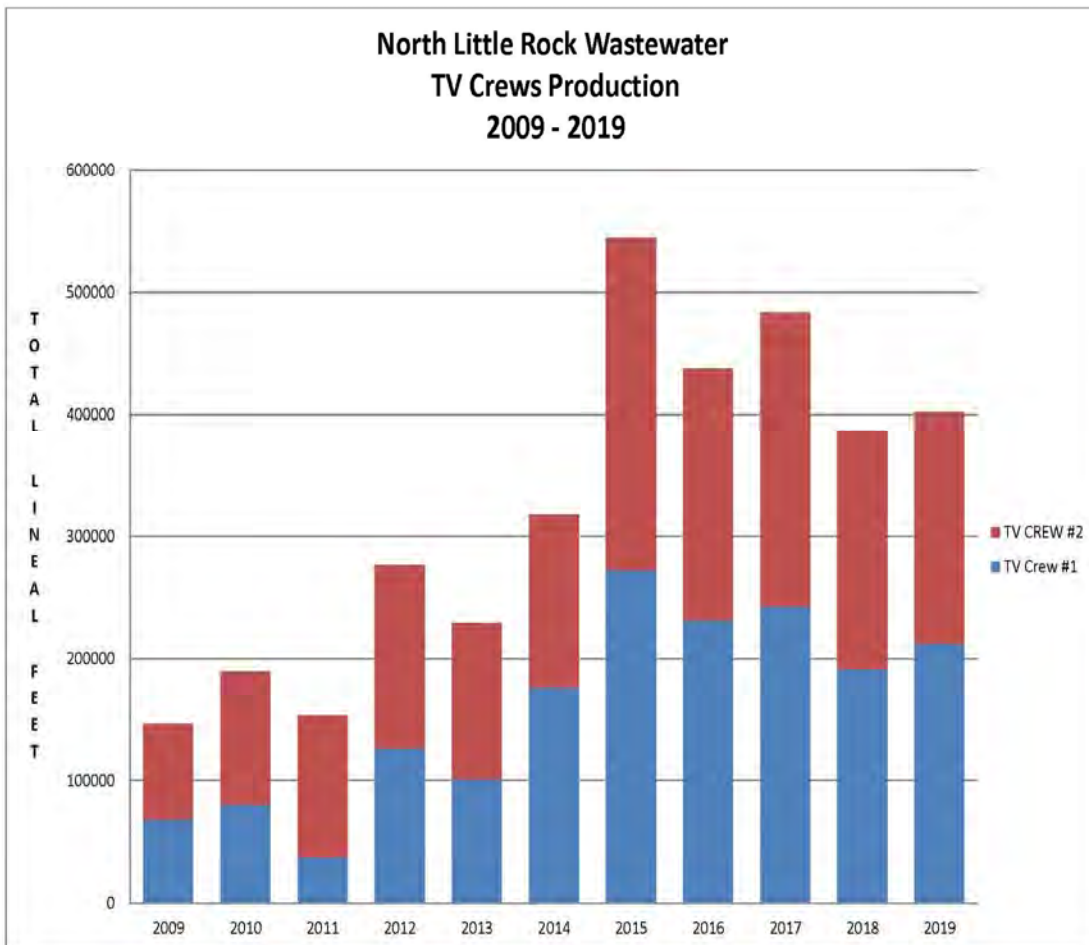
D. Collection System and Wastewater Treatment Plant Remedial Measures Plan

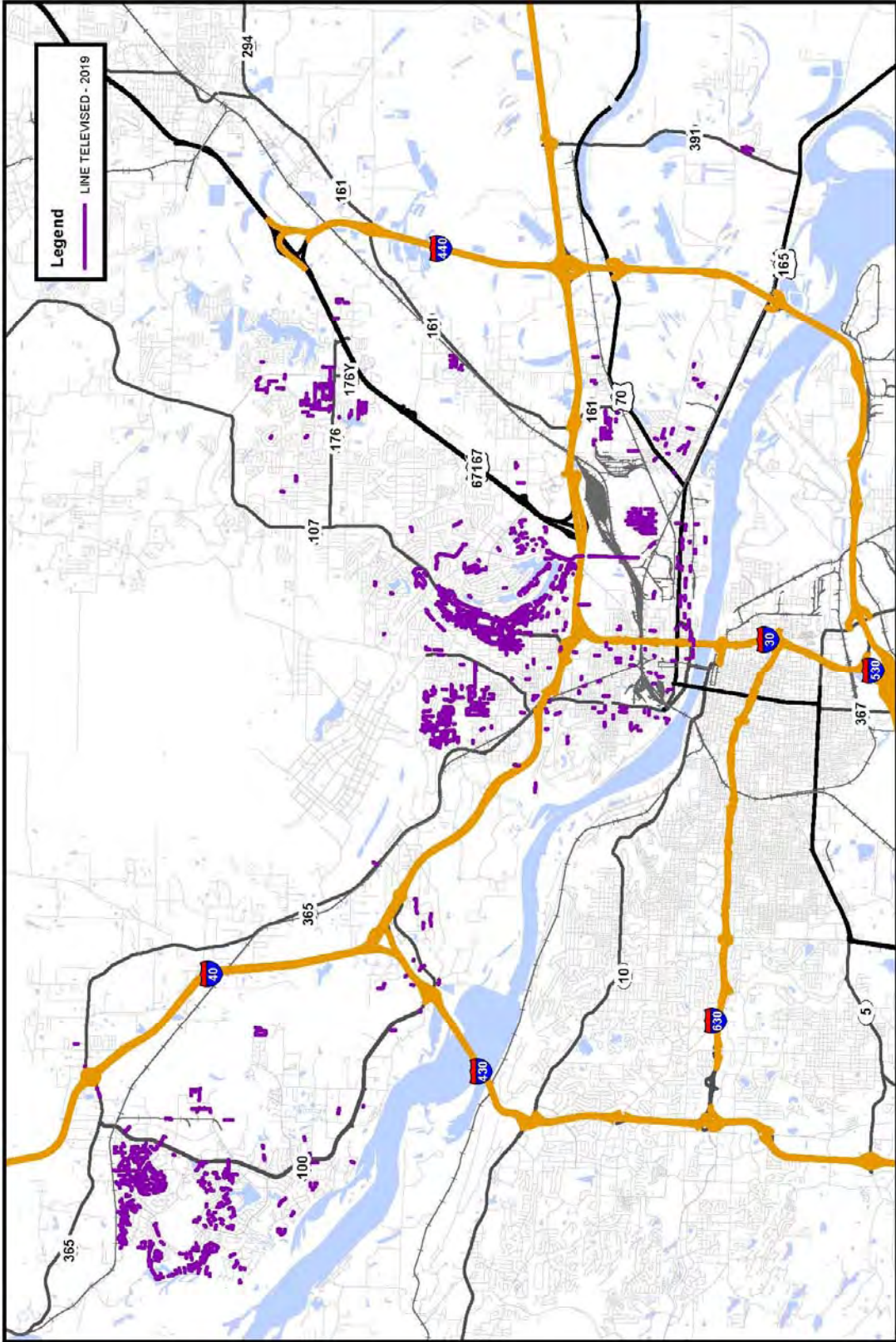
Following is an update of progress on specific collection system and WWTP Remedial Measures:

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.

NOTE: On October 29, 2018 both of the Utility’s CCTV vans were destroyed in a fire at the Faulkner Lake Water Reclamation Facility. Both units have been replaced, and new units were put in service on December 26, 2018.





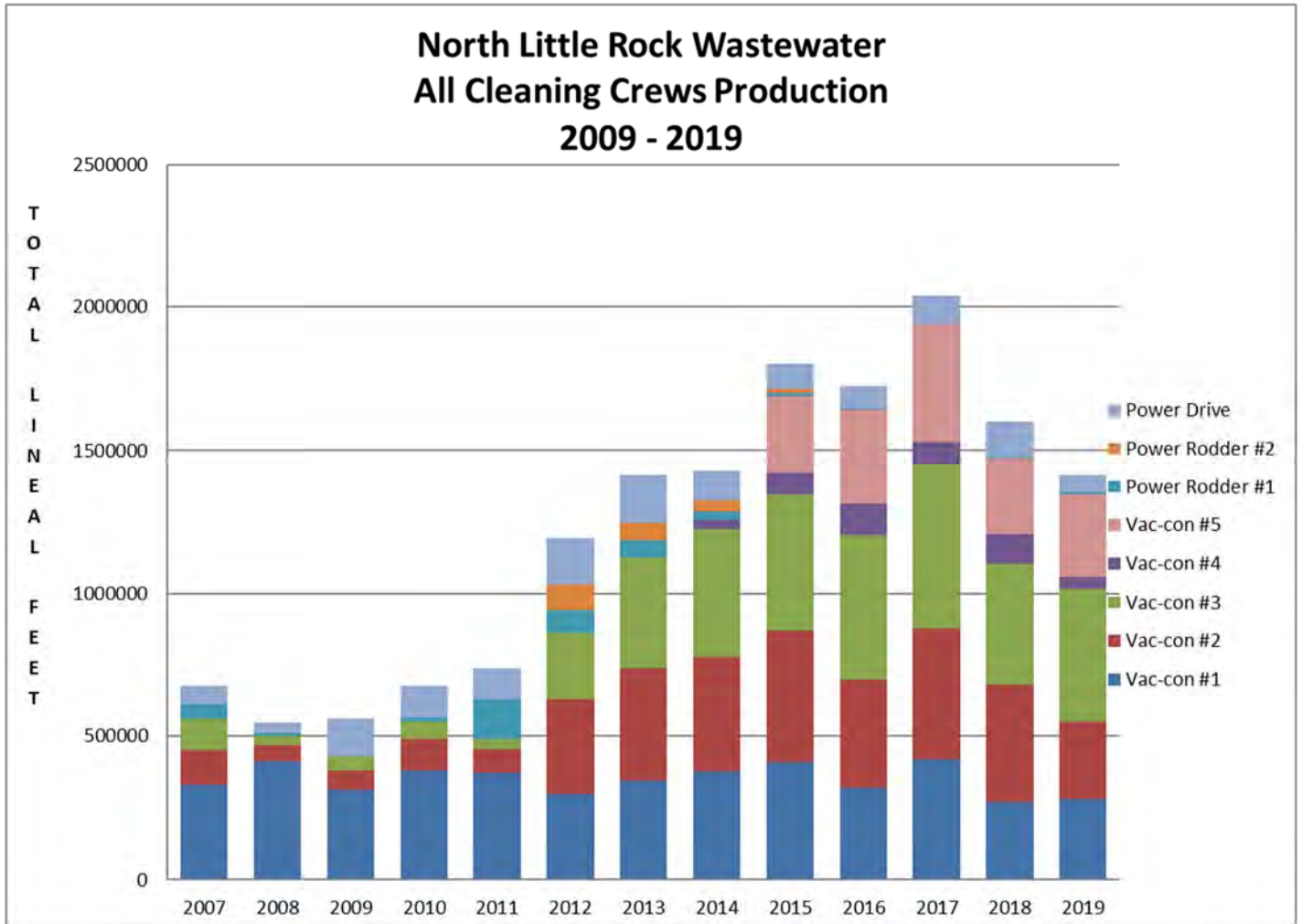
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North Little Rock Wastewater Closed Circuit Television Inspection - 2019

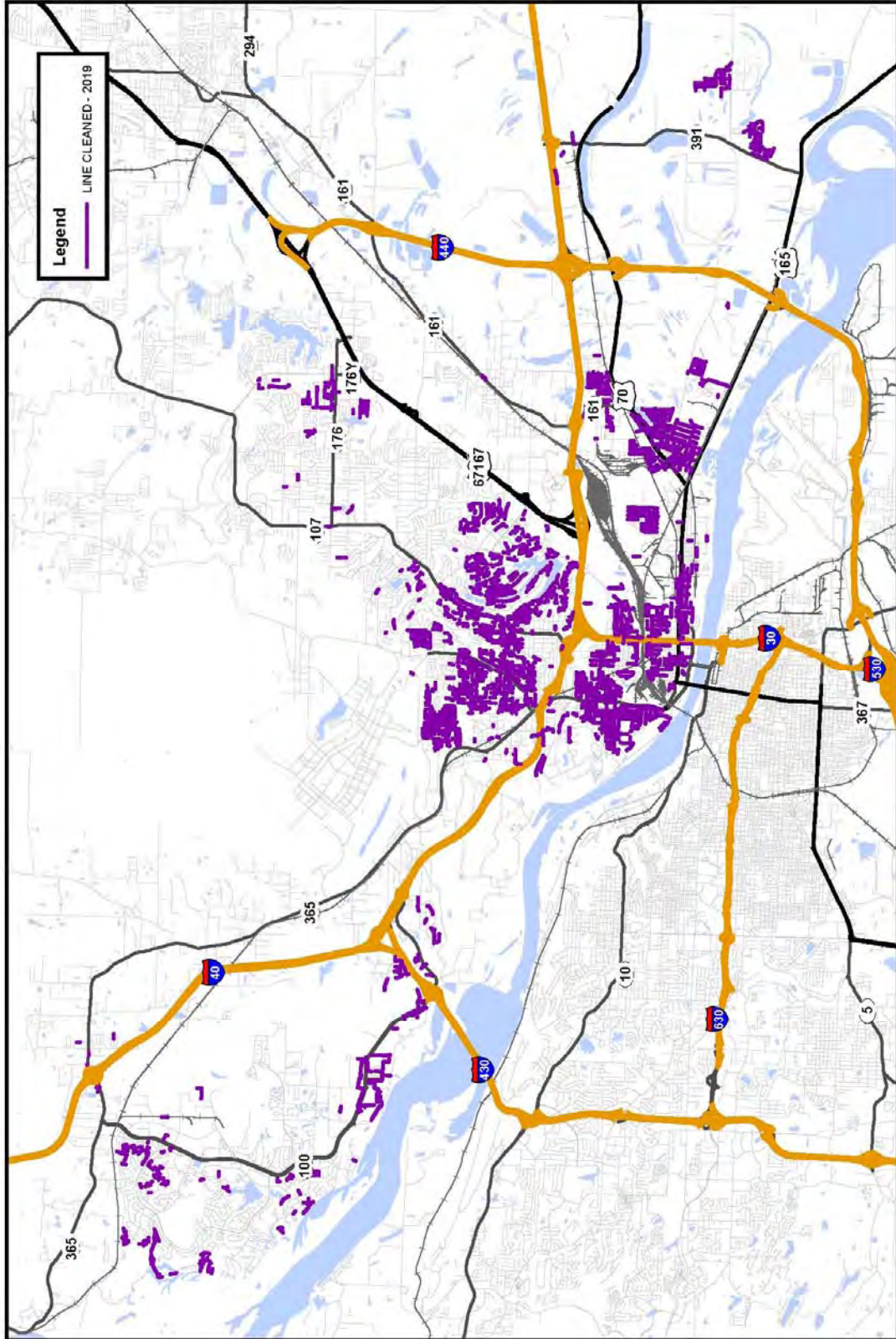


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- b. The following graph and map document the efforts to increase production of the cleaning crews in targeted areas.



NOTE: October 29, 2018, three (3) Vac-cons (unit #'s 104, 122 & 133) were destroyed in a fire at the Faulkner Lake Water Reclamation Facility. These Vac-cons have been replaced by units 141, 142, 143 and 144 (one new Vac-con was on-order prior to the fire) and put in service on January 3, 2019.



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North Little Rock Wastewater Lines Cleaned - 2019

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- 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.

Liftstations were upgraded from using OMNISITE units to being incorporated into the existing Ignition SCADA system with the Treatment Plants. The advantages of doing this includes the following:

All stations controls are updated to the same PLC and set up in a similar fashion to reduce troubleshooting and downtime on future control issues. This simplifies the need for spare controllers and parts the Utility keeps on the shelf for emergency situations. Level transducers are installed at each lift station. This provides more data for Utility staff, while eliminating issues with sticking floats. Existing float systems do remain in place as a backup system. The new system estimates pump gpm, which is used to determine pump clogging. A new, more robust alarm system is custom tailored for the North Little Rock Wastewater Utility.

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

NORTH LITTLE ROCK WASTEWATER PUMP STATION EMERGENCY RESPONSE CONNECTIONS						EXISTING SCADA TYPE	SCADA UNIT #
#	PUMP STATION NAME	PUMP CONNECTION	TRANSFER SWTCH	GENERATOR	VOLTS	EXISTING SCADA TYPE	SCADA UNIT #
402	BRIDGEWAY HOSPITAL #2	Y	N	N	230 1Ø	IGNITION	30826
403	CLAYTON CHAPEL	Y	AUTO	Y	240 3Ø	IGNITION	30827
405	DELTA LAWN	Y	AUTO	Y	240 3Ø	IGNITION	30284
406	3306 E. 10th	Y	AUTO	Y	240 3Ø	IGNITION	30806
407	HWY 107	Y	AUTO	Y	240 3Ø	IGNITION	30832
408	LANSBROOK	Y	Manual	N	240 3Ø	IGNITION	30270
409	MARYLAND EAST	Y	AUTO	Y	240 3Ø	IGNITION	30833
410	MARYLAND PLACE	Y	N	N	240 1Ø	IGNITION	31056
413	COCK-OF-THE-WALK (#2)	Y	N	N	480 3Ø	IGNITION	11153
414	MAYBELLINE	Y	AUTO	Y	480 3Ø	IGNITION	30286
415	MCALMONT	Y	N	N	240 3Ø	IGNITION	31059
416	MID-STATE	Y	N	N	240 3Ø	IGNITION	31077
417	OAKBROOK	Y	N	N	480 3Ø	IGNITION	10303
418	PINE TREE	N	N	N	240 1Ø	IGNITION	31080
419	SHILLCUT	N	AUTO	Y	480 3Ø	IGNITION	
420	SHORTER COLLEGE	Y	N	N	240 3Ø	IGNITION	31107
421	BURNS PARK EAST	N	N	N	240 3Ø	N/A	
422	BURNS PARK WEST	N	N	N	240 1Ø	N/A	
423	LAKEWOOD PLACE	N	N	N	230 1Ø	IGNITION	31104
424	I 440 INDUSTRIAL PARK	Y	N	N	208 3Ø	IGNITION	30283
425	AUSTIN LAKE	Y	N	N	480 3Ø	IGNITION	31105
426	FRONTIER DR. - MORGAN	Y	AUTO	Y	480 3Ø	IGNITION	31106
427	MARCHE-MORGAN	Y	N	N	480 3Ø	IGNITION	30808
429	BAUCUM INDUSTRIAL	Y	N	N	208 3Ø	IGNITION	30282
430	WILCOX	Y	AUTO	Y	480 3Ø	IGNITION	30286
431	QUAPAW	Y	AUTO	Y	240 3Ø	IGNITION	30285
432	HWY 385-SHERMAN RD	Y	AUTO	Y	480 3Ø	IGNITION	30810
433	GAP CREEK	Y	AUTO	Y	240 3Ø	IGNITION	30805
434	HARRIS INDUSTRIAL PARK	Y	N	N	480 3Ø	IGNITION	30288
435	BURNS PARK RV PARK	N	N	N	240 1Ø	N/A	
436	BURNS PARK LANDSCAPING	N	N	N	240 1Ø	N/A	
437	BURNS PARK SOUTH	N	N	N	240 1Ø	N/A	
438	HILL LAKE	N	AUTO	Y	480 3Ø	IGNITION	30287
439	BURNS PARK SOCCER FIELDS	N	N	N	230 1Ø	N/A	
440	COLLINS INDUSTRIAL PARK	Y	AUTO	Y	480 3Ø	IGNITION	30562
441	COUNTS MASSIE	Y	AUTO	Y	480 3Ø	IGNITION	30807
442	CHAPEL RIDGE	Y	N	N	240 3Ø	IGNITION	30561
443	RIXIE PUMP-HWY 161	Y	AUTO	Y	480 3Ø	IGNITION	30552
444	RIXIE PUMP-LUCKY DR.	Y	AUTO	Y	480 3Ø	IGNITION	30553
445	RIXIE PUMP- TRAMMEL RD	Y	AUTO	Y	480 3Ø	IGNITION	30556
446	RIXIE PUMP-RIXIE RD-RR TRACK	Y	N	N	480 3Ø	IGNITION	30555
447	CYPRESS CROSSING	Y	AUTO	Y	480 3Ø	IGNITION	30289
448	CRYSTAL BAY	Y	N	N	480 3Ø	IGNITION	30809
449	TRAMMEL ESTATES	Y	N	N	240 1Ø	IGNITION	30557
450	EUREKA GARDEN & 46TH	Y	AUTO	Y	240 3Ø	IGNITION	30560
451	EUREKA GARDEN RD	Y	AUTO	Y	240 3Ø	IGNITION	30558
452	EUREKA GARDEN & JUDY LANE	Y	Manual	N	240 3Ø	IGNITION	30559
453	FAULKNER CROSSING 5	Y	AUTO	Y	480 3Ø	IGNITION	30288
601	BOURIES	N	N	N	230 1Ø	IGNITION	10718
602	C. C. BALLFIELDS	Y	AUTO	Y	480 3Ø	IGNITION	10570
603	COUNTS MASSIE #2	N	N	N	230 3Ø	IGNITION	11026
604	DIAMOND POINT	N	N	N	480 3Ø	IGNITION	11205
605	DURANGO	N	N	N	480 3Ø	IGNITION	11181
606	HIGH SCHOOL	N	N	N	480 3Ø	IGNITION	11176
607	LAWRENCE	N	N	N	230 1Ø	IGNITION	11020
608	MARANES	N	N	N	230 1Ø	IGNITION	11009
609	MASTERS PLACE	N	N	N	230 1Ø	IGNITION	11023
610	MAUMELLE VALLEY	Y	AUTO	Y	480 3Ø	IGNITION	11014
611	MAUMELLE WOODS	N	N	N	480 3Ø	IGNITION	11146
613	MURPHY DRIVE	N	AUTO	Y	480 3Ø	IGNITION	
614	NAYLOR	N	N	N	480 3Ø	IGNITION	11134
615	NEW BEDFORD	N	N	N	480 3Ø	IGNITION	11206
616	NORFOLK	N	N	N	230 1Ø	IGNITION	11193
617	ODOM/BLUE MOUNTAIN	N	N	N	230 1Ø	IGNITION	11141
618	OSAGE FALLS	Y	AUTO	Y	230 3Ø	IGNITION	11155
619	OSAGE HILLS	N	MANUAL	N	230 3Ø	IGNITION	11156
620	PALASADES	N	N	N	480 3Ø	IGNITION	11138
621	PONCA	N	N	N	230 3Ø	IGNITION	11196
622	RIDGELAND	N	N	N	230 1Ø	IGNITION	11021
623	RIDGELAND/ODOM	N	N	N	230 1Ø	IGNITION	11179
624	RIVER RUN	N	N	N	230 3Ø	IGNITION	11189
625	SEMINOLE EAST	Y	AUTO	Y	480 3Ø	IGNITION	10331
626	SEMINOLE WEST	Y	AUTO	Y	230 1Ø	IGNITION	11192
627	TOWN CENTER	N	N	N	230 1Ø	IGNITION	11170

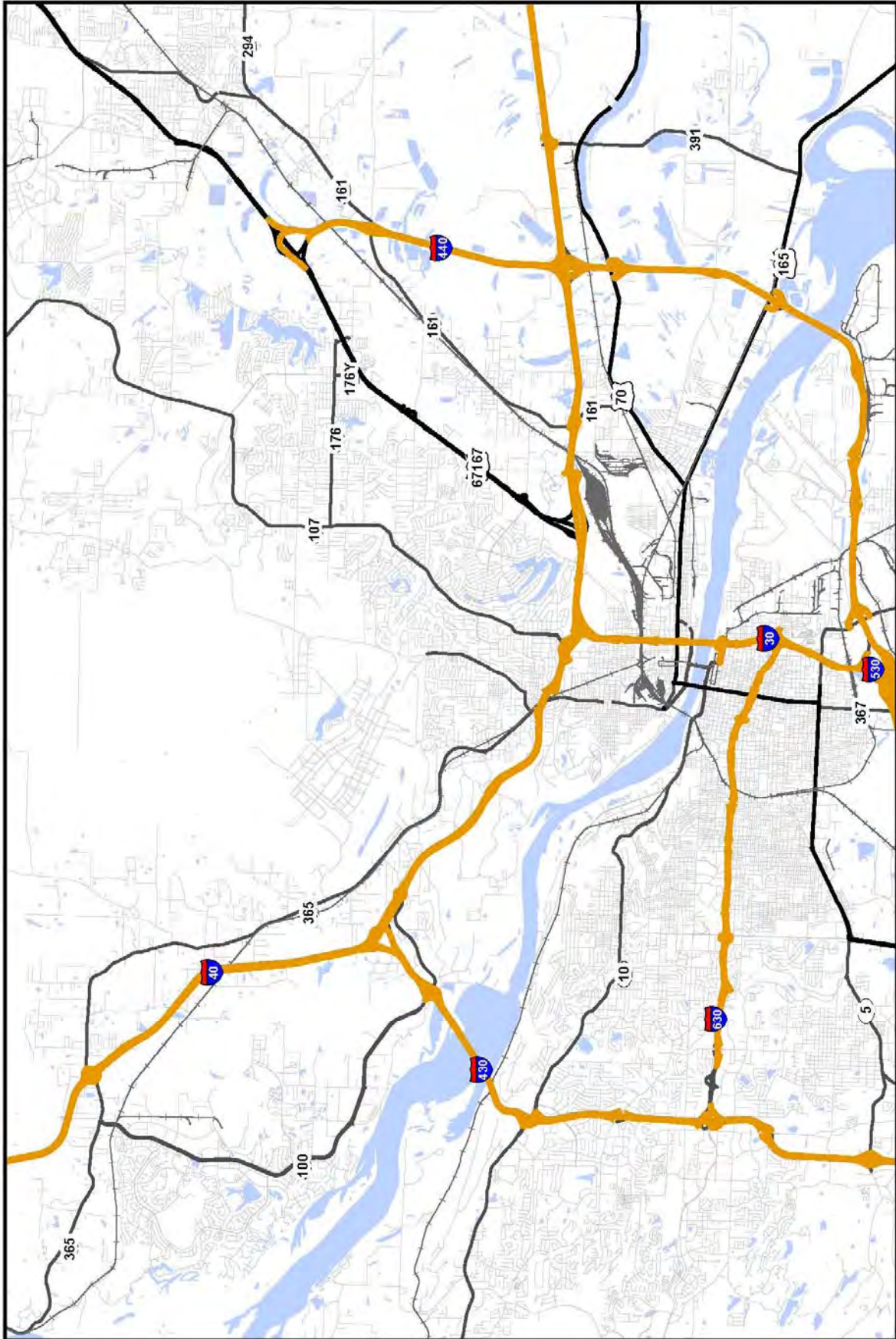
Treatment Plant Emergency Response Connections

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

- 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.



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North Little Rock Wastewater Backwater Valve Investigation - 2019



Printed 1/12/20

v. Public education – **Expanded Program 2019**

In 2012, NLRW expanded the Grease Reduction Program to include additional items to ‘not’ put down the drain and named the program “Maintain YOUR Drain.” Expansion of the Grease Reduction Program was largely brought about by increased problems associated with so-called “flushable wipes.”

During 2019 the mailers were all redesigned and are sent out periodically included with Central Arkansas Water monthly bills. The Nov/Dec issue of NLR Neighborhood News front page was entirely devoted to the campaign.

A summary of the activities conducted by the “Maintain YOUR Drain” staff, during the calendar year is attached, as well as copies of the new 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
01/26/19	CAC	6101 JFK Blvd, NLR, AR 72116	25
01/28/19	New Life Christian	12506 Highway 165, NLR, AR 72117	25
04/04/19	Glvens Company (apartments)	5 complexes in NLR & Sherwood area	350
04/26/19	Tamberly MacIntyre	Jefferson Manor apartments	150
NOV/DEC 2019	NLR NEIGHBORHOOD NEWS	DISTRIBUTION TO CITIZENS	1800
Total Individual Distribution of Information			2350

April-2019 61,500 Mailers were sent out with proper disposal information as related to wastewater.

August-2019 61,500 Mailers were sent out with proper disposal information as related to wastewater.

December-2019 61,500 Mailers were sent out with proper disposal information as related to wastewater.

School children are given bracelets with the North Little Rock Wastewater Logo and the message "Protect Our Water." Also can lids with North Little Rock Wastewater Logo and the message "Maintain your Drain" are given out with instructions on how to properly dispose of grease.

Informative brochures are handed out at all meetings with material on grease and pharmaceutical disposal.

MAINTAIN YOUR DRAIN

NO WIPES IN YOUR PIPES!

DON'T FLUSH THAT FLOSS!

NO DRUGS DOWN THE DRAIN!

CEASE THE GREASE!



WWW.NLR.AR.GOV

501-945-7186

WIPES CLOG PIPES

NEVER FLUSH BABY WIPES, PAPER TOWELS OR MAKEUP REMOVAL PADS. THESE ITEMS DO NOT DEGRADE LIKE TOILET PAPER. THEY WILL CAUSE BLOCKAGES IN SEWER PIPES AND RESULT IN COSTLY REPAIRS.

DON'T FLUSH FLOSS

USED DENTAL FLOSS SHOULD BE DISPOSED IN THE TRASH CAN. FLOSS IN THE SEWER DOES NOT DEGRADE LIKE TOILET PAPER. FLOSS WILL WRAP AROUND SEWER PUMP EQUIPMENT AND CAUSE SIGNIFICANT DAMAGE.

NO MEDICINES

WASTEWATER TREATMENT PLANTS ARE NOT DESIGNED TO TREAT UNUSED MEDICINES. HARMFUL CHEMICALS MAY REMAIN IN THE WATER AND HARM WILDLIFE. CONTACT LOCAL LAW ENFORCEMENT FOR COMMUNITY DRUG TAKE-BACK PROGRAM DETAILS.

CEASE THE GREASE

NEVER POUR GREASE OR COOKING OIL DOWN YOUR SINK DRAIN OR GARBAGE DISPOSAL. IT WILL SOLIDIFY, CAUSING YOUR SEWER TO BACK UP OR DRAIN SLOWLY. POUR USED GREASE INTO A CAN. STORE IN FREEZER. WHEN FULL PLACE INTO THE TRASH.

MAINTAIN YOUR DRAIN





NLR Neighborhood News

North Little Rock Wastewater Reminds You To Maintain Your Drain



What do you do with your used cooking oil and grease after you are done with it? Do you pour it down the drain? What about scraps from your plate? Do you put them down the garbage disposal? Fats, oils and greases solidify when cool; this is just one reason why you should consider never pouring grease or food down the drain or garbage disposal. After time, the grease can build up and cause blockages in sewer pipes. Blockages can lead to sanitary sewer overflows and can also cause the sewer to back up into homes. The proper way to dispose of grease, fats and oils is to pour them into a container and freeze it. Once frozen, the container can be placed into the trash. For disposal of large amounts of cooking oil, contact North Little Rock Public Works at (501)371-8345.



You should never flush paper towels, baby wipes, facial wipes, and other “flushable” wipes down the toilet. These products do not break down like toilet paper and can eventually cause blockages in sewer pipes and result in costly repairs.



Flushing dental floss down the toilet might seem like it's not worth mentioning, but floss in the sewer system can do a lot of damage. Dental floss is a fairly tough and impermeable product that can wrap around sewer pump equipment and can cause serious damage. Used dental floss should be disposed of in the garbage.



Pharmaceuticals in wastewater have become an ever-increasing problem. Wastewater treatment plants are not designed to treat unused medications, hypodermic needles and cigarette butts. These items release undesirable and potentially damaging chemicals into the wastewater treatment system. Many drugs pass through treatment plants and make their way into surface, ground, and bodies of waters. Harmful chemicals may remain in the water and can potentially harm wildlife and aquatic life. There are more than 200 medical drop-box locations throughout the state and Arkansas law-enforcement agencies host Arkansas Prescription Drug Take Back Day events twice a year at various locations. NLR Courts building offers a drug drop off site. Check www.artakeback.org for more information.

If you have any questions regarding how to maintain your drain, contact North Little Rock Wastewater at (501)945-7186 ext. 117.

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 December 31, 2018, North Little Rock Wastewater has spent \$10,786,227 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.

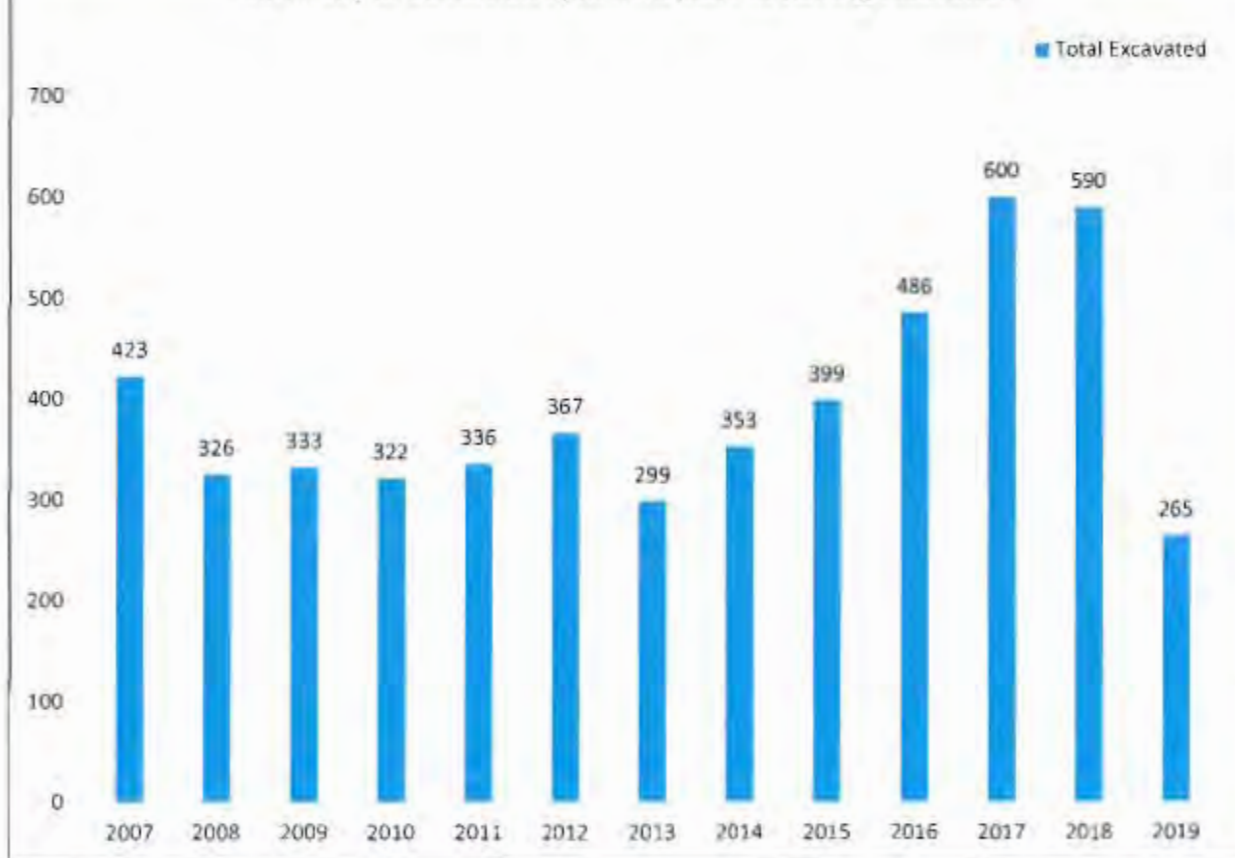
Following is a summary of repairs completed in the collection system requiring excavation:

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

SUMMARY of Collection System Repairs Requiring Excavation

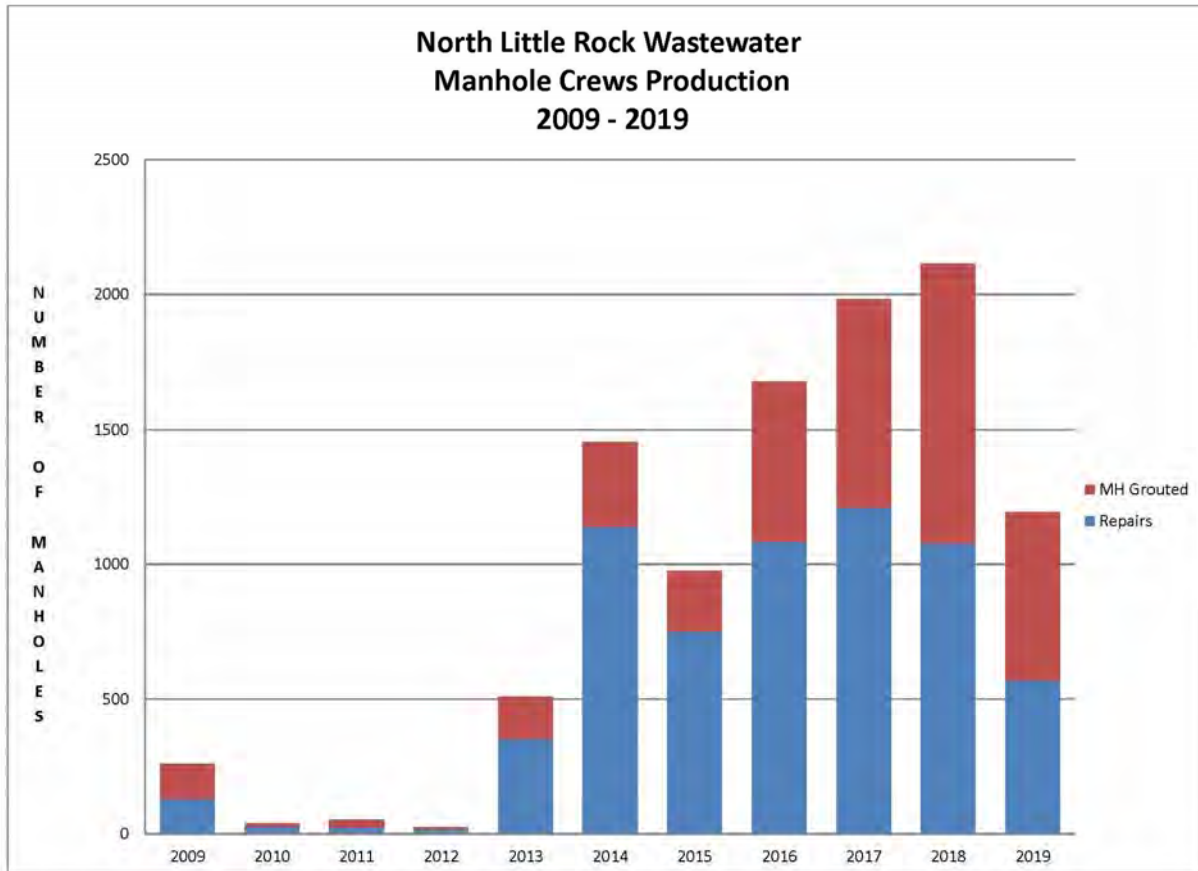
<u>Year</u>	<u>Point Repairs</u>	<u>New Manholes</u>	<u>New Line Segments</u>	<u>Disconnects</u>	<u>Repairs by Outside Services, Contractors</u>	<u>Total</u>
2007	316	30	70	7	n/a	423
2008	280	17	8	21	n/a	326
2009	299	13	20	1	n/a	333
2010	289	24	7	2	n/a	322
2011	316	12	6	0	2	336
2012	337	22	6	1	1	367
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	371	24	13	191	1	600
2018	357	34	14	185	0	590
2019	186	20	6	49	4	265

Summary of Collection System Repairs Requiring Excavation



ix. Manhole Repairs

Following is a graph of manhole repairs completed in the collection system:



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,



Marc E. Wilkins, PE
Director
North Little Rock Wastewater

APPENDIX

A. Annual Overflows by Category

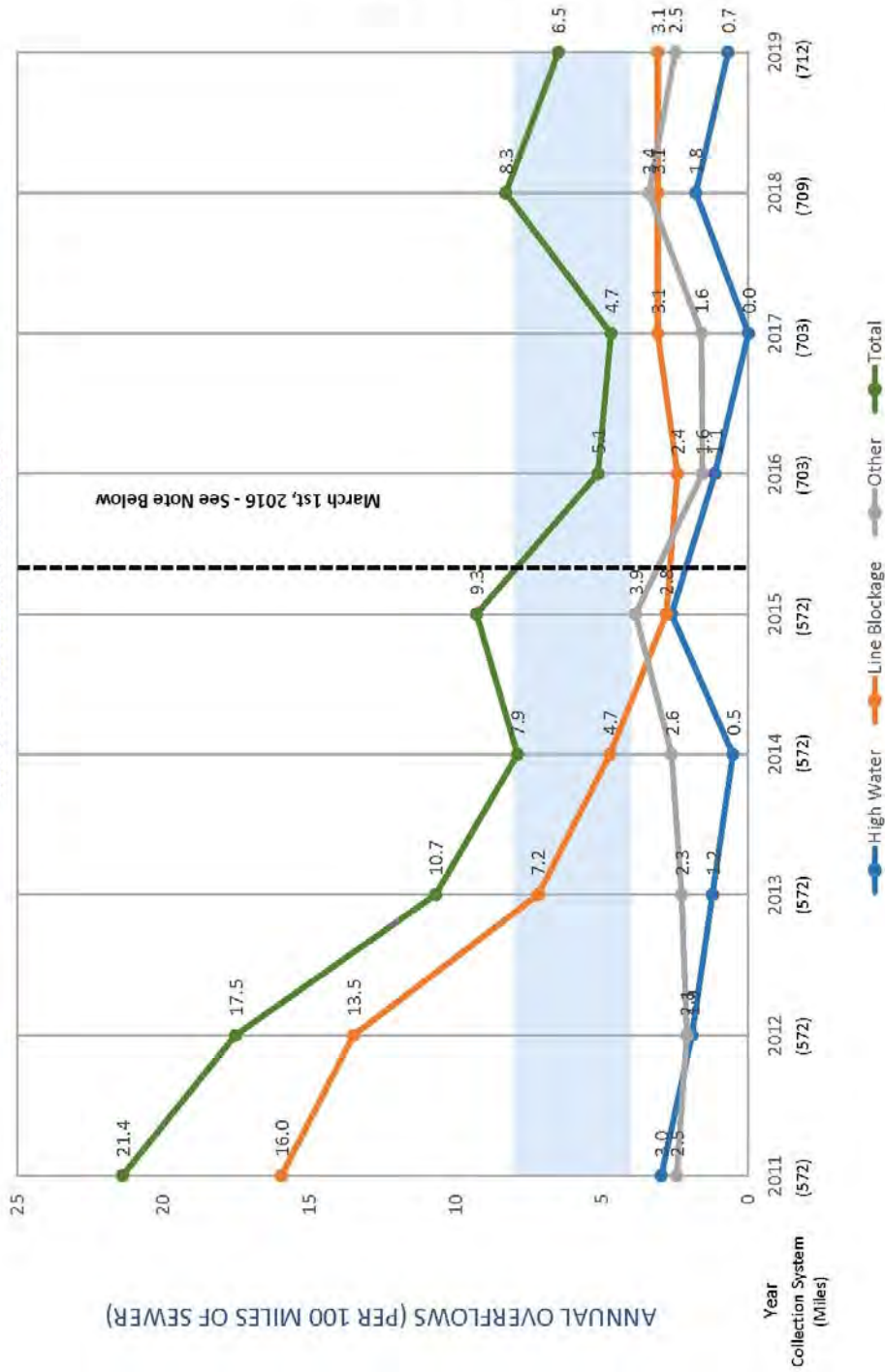
B. SSO Locations 2019

C. 2019 Year-to-Date Work Recap Report (Collection Systems Department)

D. Collection System Rehabilitation

APPENDIX A

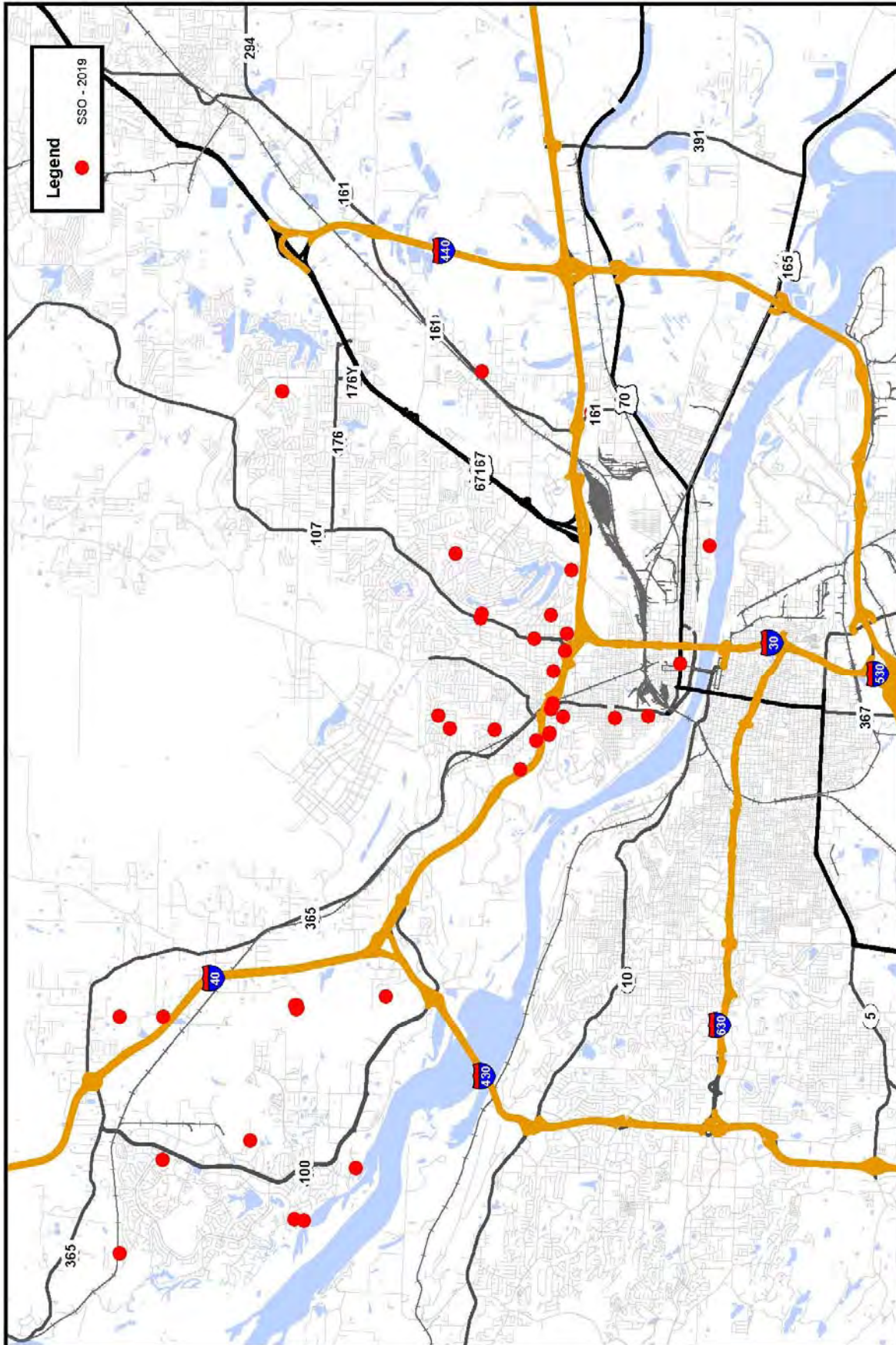
APPENDIX A
ANNUAL OVERFLOWS BY CATEGORY (PER 100 MILES OF SEWER)
 NORTH LITTLE ROCK WASTEWATER



March 1st, 2016 - See Note Below

Note: On March 1st, 2016, the NLRW assumed O&M responsibilities of the Maumelle SID 500 of Pulaski County (d/b/a MWM).

APPENDIX B



APPENDIX B SSO LOCATIONS - 2019 NORTH LITTLE ROCK WASTEWATER



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The data contained herein was compiled from various sources for the purpose of providing a general overview of the data. The data is not intended to be used for any other purpose. The data is provided as a service to the public and is not intended to be used for any other purpose. The data is provided as a service to the public and is not intended to be used for any other purpose. The data is provided as a service to the public and is not intended to be used for any other purpose.

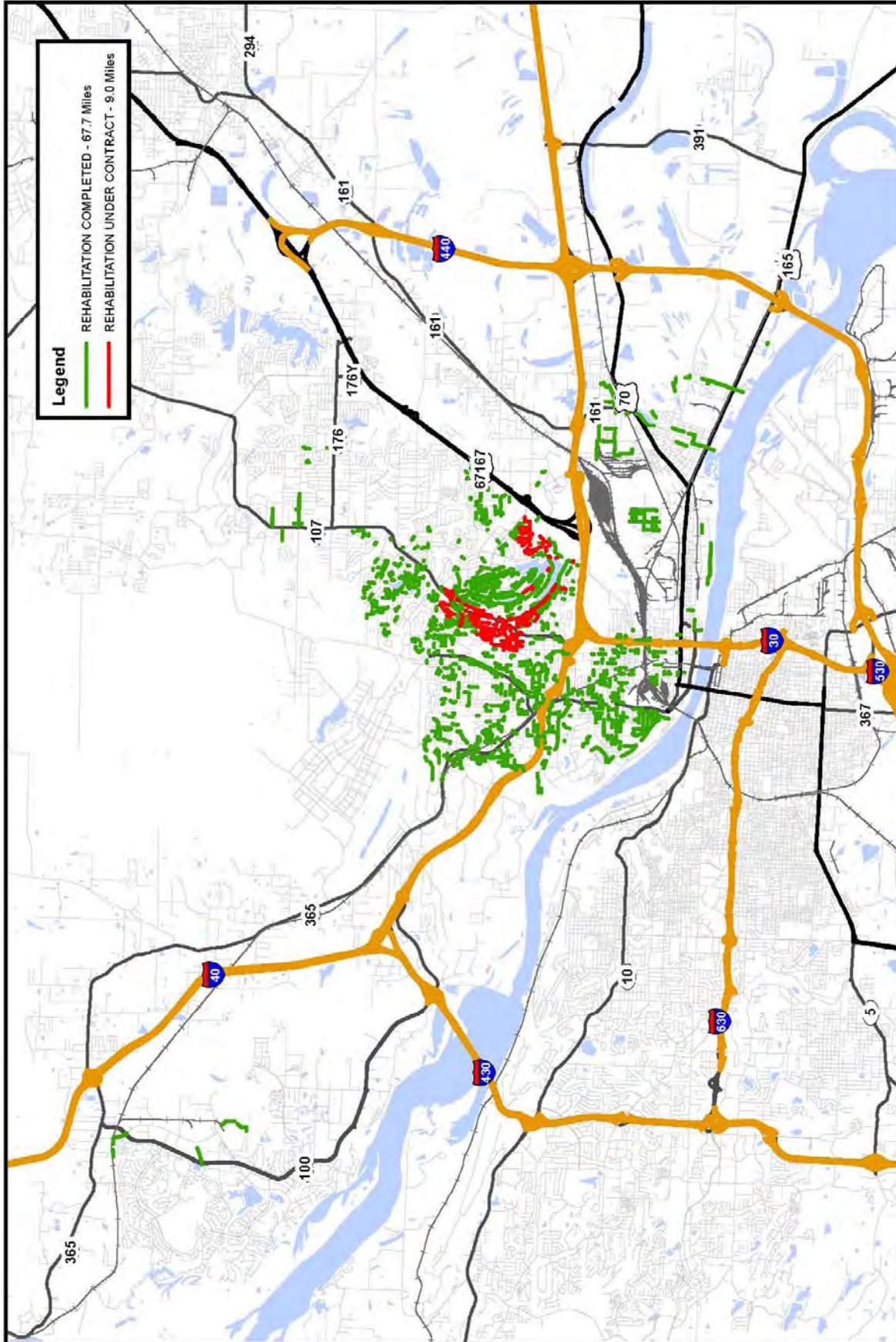
APPENDIX C

North Little Rock Wastewater Utility

2019 Year-To-Date Work Recap Report

Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y T D
MANHOLE:													
<i>Disconnects</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Taps</i>	0	0	1	1	3	0	0	1	0	1	0	0	7
<i>Repairs</i>	113	108	85	87	96	21	11	17	6	2	2	23	571
<i># of MH's Grouted</i>	110	101	78	79	97	20	9	26	23	34	22	23	622
<i># of Coats</i>	0	0	0	0	0	0	9	26	23	66	44	46	214
<i>MH Depth (Ft/In)</i>	0.0	0.0	0.0	0	0.0	0.0	42	104	39.0	33.0	0.0	0.0	218
<i># of Bags of Grout</i>	0	0	0	0	0	0	4	35	4	20	23	17	103
POWER DRIVE:													
<i># of Ft Cleaned</i>	7,941	9,447	3,176	1,960	5,283	1,782	1,386	1,079	2,653	7,344	9,467	8,269	59,787
PWR RODDER #1:													
<i># of Ft Cleaned</i>	1,133	3,510	0	599	1,402	0	136	0	0	0	0	0	6,780
REPAIR #1:													
<i>Repairs</i>	5	1	5	6	5	2	3	4	3	1	1	1	37
<i>New Manholes</i>	1	1	0	0	1	1	1	0	0	0	0	0	5
<i>New Lines</i>	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Disconnects</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Taps</i>	1	0	0	1	0	2	0	0	0	0	0	0	4
<i>Miscellaneous</i>	17	26	17	12	8	5	5	8	9	6	5	3	121
REPAIR #2:													
<i>Repairs</i>	8	5	7	10	3	5	2	6	3	4	4	3	60
<i>New Manholes</i>	1	0	1	0	0	0	0	0	0	0	1	2	5
<i>New Lines</i>	0	0	1	0	0	1	0	0	0	0	0	0	2
<i>Disconnects</i>	0	0	0	0	0	0	0	0	0	1	0	0	1
<i>Taps</i>	0	0	0	1	0	0	0	0	0	0	0	0	1
<i>Miscellaneous</i>	16	15	16	12	10	13	1	13	11	2	9	2	120
REPAIR #3:													
<i>Repairs</i>	6	4	7	6	6	5	6	2	4	4	3	3	56
<i>New Manholes</i>	0	0	1	0	0	0	1	0	0	0	2	0	4
<i>New Lines</i>	0	0	0	0	0	0	1	0	0	0	0	0	1
<i>Disconnects</i>	0	0	0	0	0	1	0	0	0	0	0	0	1
<i>Taps</i>	0	0	1	2	0	1	0	1	0	0	0	0	5
<i>Miscellaneous</i>	13	12	9	6	4	13	3	9	5	4	1	6	85
REPAIR #4:													
<i>Repairs</i>	3	2	3	9	0	0	0	7	4	2	2	1	33
<i>New Manholes</i>	0	0	0	2	0	0	0	0	0	0	2	2	6
<i>New Lines</i>	1	0	0	1	0	0	0	0	0	0	0	0	2
<i>Disconnects</i>	15	9	5	12	3	0	0	0	0	0	0	3	47
<i>Taps</i>	0	0	0	0	0	0	0	0	1	0	0	0	1
<i>Miscellaneous</i>	12	17	22	26	22	0	117	56	15	17	9	5	318
TROUBLE:													
<i># of Ft Cleaned</i>	240	0	0	0	150	175	0	310	0	0	0	0	875
<i>Stop-Ups</i>	11	9	9	15	5	3	3	7	2	9	10	6	89
<i>Private Lines</i>	37	40	37	54	37	18	13	17	14	36	15	28	346
<i>Cave-Ins</i>	3	7	4	9	3	2	2	12	7	2	3	2	56
<i>Flooded Houses</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Miscellaneous</i>	62	38	64	71	64	73	79	68	43	49	64	35	710
<i>Total Calls</i>	111	93	114	149	109	96	97	104	66	96	92	71	1,198
VACCON #1:													
<i># of Ft Cleaned</i>	19,847	20,690	18,200	25,489	30,975	23,322	34,316	19,772	24,298	26,889	18,370	17,782	279,950
VACCON #2:													
<i># of Ft Cleaned</i>	33,897	16,494	28,637	24,988	21,475	23,384	7,978	3,831	33,462	25,799	31,398	17,456	268,799
VACCON #3:													
<i># of Ft Cleaned</i>	39,512	48,015	47,885	33,411	45,767	32,674	36,744	35,075	37,401	41,236	36,928	32,917	467,565
VACCON #4:													
<i># of Ft Cleaned</i>	3,493	956	0	0	1,220	8,108	6,486	2,173	8,211	5,877	0	4,503	41,027
VACCON #5:													
<i># of Ft Cleaned</i>	25,093	24,945	24,834	22,051	31,629	10,316	27,065	20,991	16,301	31,181	28,493	25,552	288,451
T V #1													
<i># of Ft</i>	19,499	12,261	11,624	16,368	28,399	18,906	23,452	13,942	15,526	22,989	12,771	17,044	212,781
T V #2													
<i># of Ft</i>	14,552	13,564	17,965	15,838	18,815	17,597	17,770	11,895	17,888	11,868	19,891	12,000	189,643

APPENDIX D



North Little Rock Wastewater Collection System Rehabilitation 2013 through 2019

The data contained herein was compiled from various sources for the City of North Little Rock. Any use of the data by anyone other than the City of North Little Rock Wastewater Utility is at the sole risk of the user, and by accepting or using the data, the user does hereby release North Little Rock Wastewater Utility from any claims, costs, or damages of any kind, and without liability for any claims, costs, or damages of any kind against the City of North Little Rock Wastewater Utility and the City of North Little Rock. Any use of the data by anyone other than the City of North Little Rock Wastewater Utility is at the sole risk of the user, and by accepting or using the data, the user does hereby release North Little Rock Wastewater Utility from any claims, costs, or damages of any kind, and without liability for any claims, costs, or damages of any kind against the City of North Little Rock Wastewater Utility and the City of North Little Rock.



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