

North Little Rock Wastewater

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



2018 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.

North Little Rock Wastewater 2018 End of Year Report

Consent Administrative Order LIS 10-218 Closed

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North Little Rock Wastewater

2018 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 2018 End of Year Report.

Milestone

1. Wastewater Master Plan

Date

A. Milestone Schedule

	<u>Dute</u>	<u> </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\$			

ii. Pipeline Rehabilitation Projects

PROJECT NAME	METHOD	LINEAL FT	\$	% COMPLETE	DATE
Baring Cross Basin CIPP 2016 Rehabilitation	CIPP	22,925	\$1,808,523	100%	11/17/18
Baring Cross Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	51,026	\$4,137,738	100%	10/01/18
W. Levy/212 Basin CIPP 2016 Rehabilitation	CIPP	23,987	\$1,383,427	90%	12/31/18
W. Levy/212 Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	28,698	\$1,634,267	91%	12/31/18
Lower Riverside Interceptor	CIPP/SL	4,345	\$4,400,000	Design	12/31/18
South Levy/Indian Hills CIPP 2017 Rehabilitation	CIPP	49,153	\$2,882,300	Under Contract	12/31/18
South Levy/Indian Hills Pipe Bursting 2017 Rehabilitation	Pipe Bursting	39,108	\$3,585,300	Under Contract	12/31/18
	TOTAL	219,242	\$19,831,555		

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	Bid Award	11/21/18
TOTAL\$	\$6,612,332		

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.

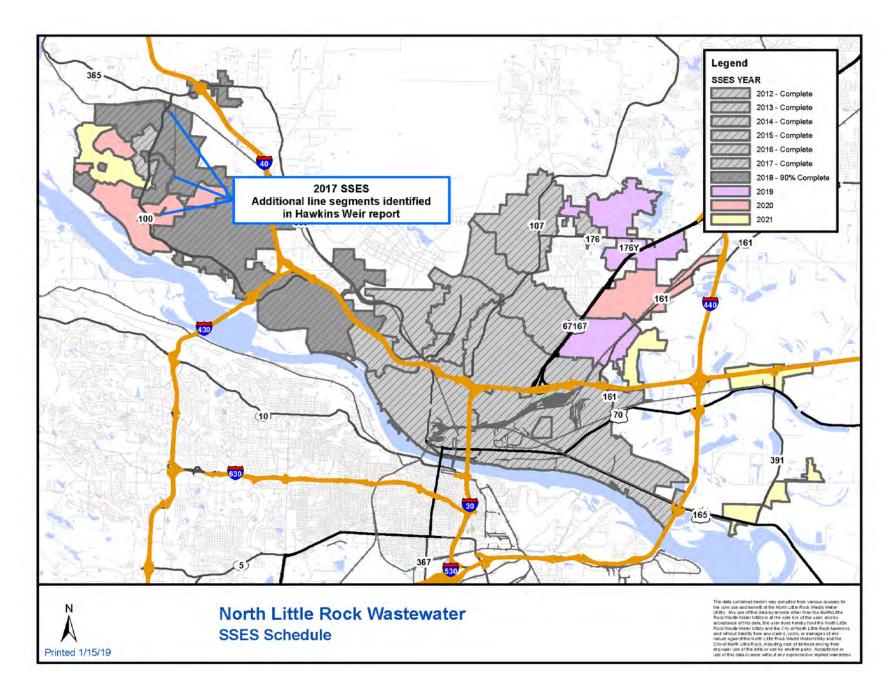
PROJECT NAME	\$	% COMPLETE	DATE			
Sediment Removal (FL-P1-SR)	\$290,000	0%	12/31/17			
Cedar Street Sewer Improvements	\$220,000	*	12/31/17			
Gravity Pipe Replacement (FL-GS02)	\$1,300,000	0%	12/31/17			
Gravity Pipe Replacement (FL-GS03)	\$1,100,000	0%	12/31/17			
White Oak Interceptor Phase II	\$4,796,835	100%	12/31/17			
TOTAL \$ \$7,706,835						
* Will be started following final stabilization of the landslide by others.						

C. Sewer System Evaluation Survey (SSES)

Following is a summary of SSES fieldwork completed to date.

	SUMMARY OF SSES FIELDWORK									
	Smo	ke Testing		Man	hole Inspect	ions		Ove Testing	ζ	CCTV
Project Name	Quantity	Defects	I/I	Quantity	Defects	1/1	Quantity	Defects	I/I	Quantity
	(LF)	<u>(EA)</u>	(mgd)	<u>(EA)</u>	<u>(EA)</u>	(mgd)	<u>(EA)</u>	<u>(EA)</u>	<u>(mgd)</u>	(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)	443,432			2,129			45			
* System Wide	2,511,779	4,112	6.054	10,495	10,466	5.305	373	254	6.435	2,290,108

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	\$710,853	85%	12/2018
TOTAL	\$3,692,568		

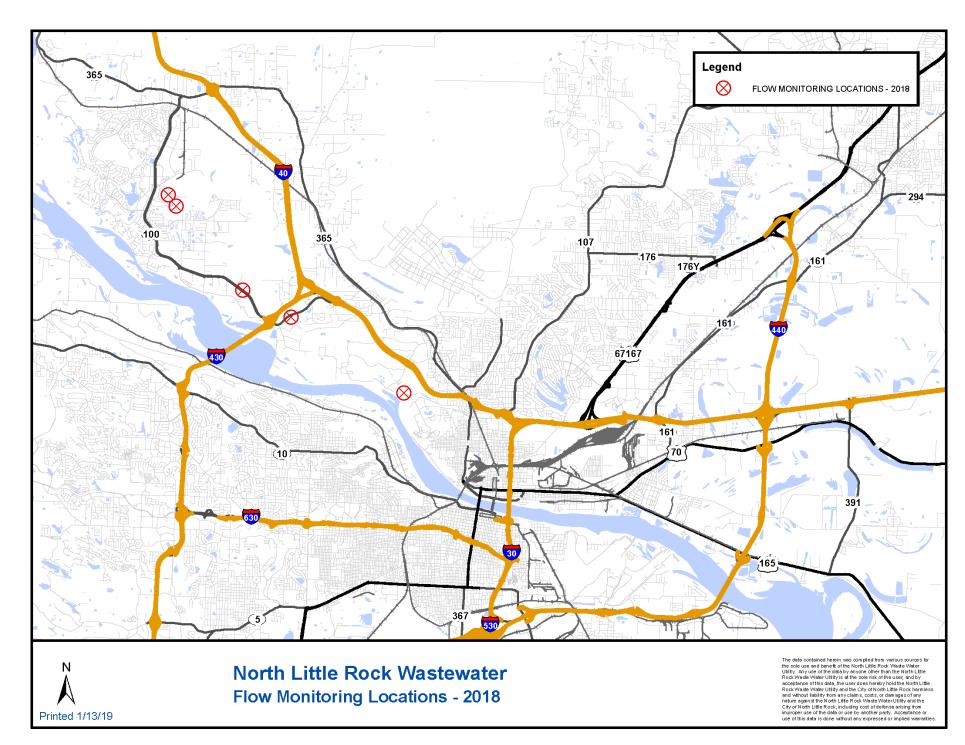


D. SSES, Pumping Station, Capacity Assessment, and Hydraulic Model Evaluation Report

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.

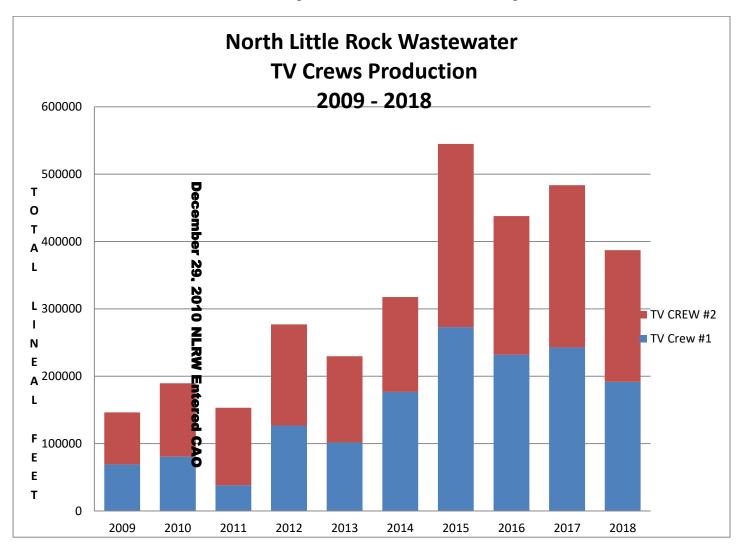


E. Collection System and Wastewater Treatment Plant Remedial Measures Plan

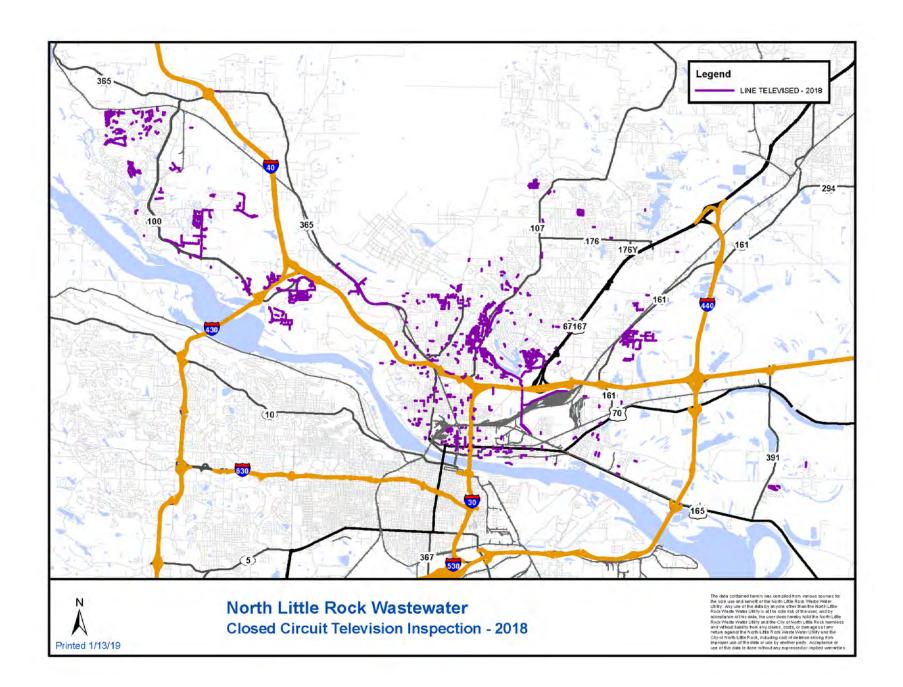
Following is an update of progress on specific collection system and WWTP Remedial Measures:

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

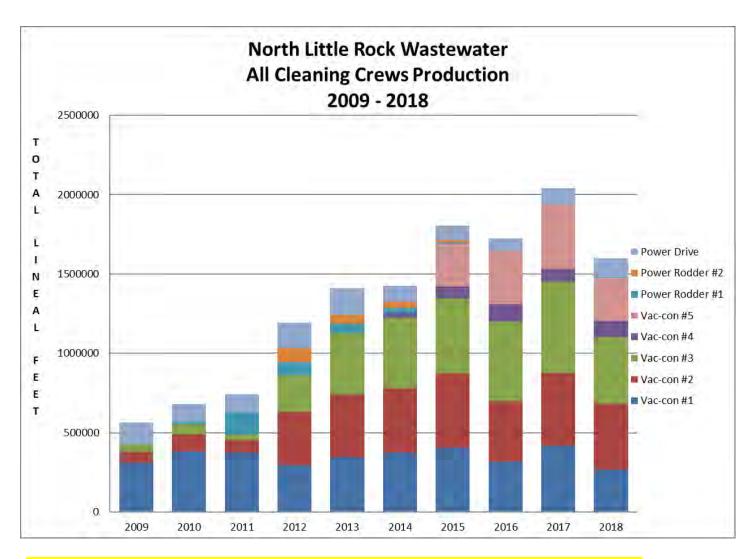
- i. Increase production of TV and cleaning crews
- a. The following graph and map document the efforts to increase production of the TV crews in targeted areas.



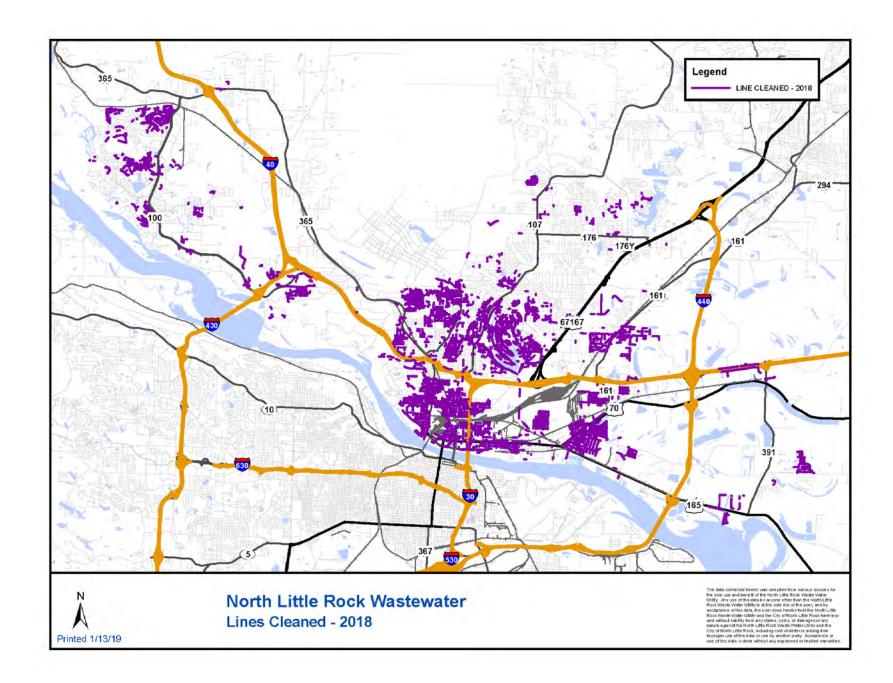
NOTE: On October 29, 2018 both of the Utility's CCTV vans were destroyed in a fire at the Faulkner Lake Water Reclamation Facility. Both units have been replaced, and new units were put in service on December 26, 2018.



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.



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

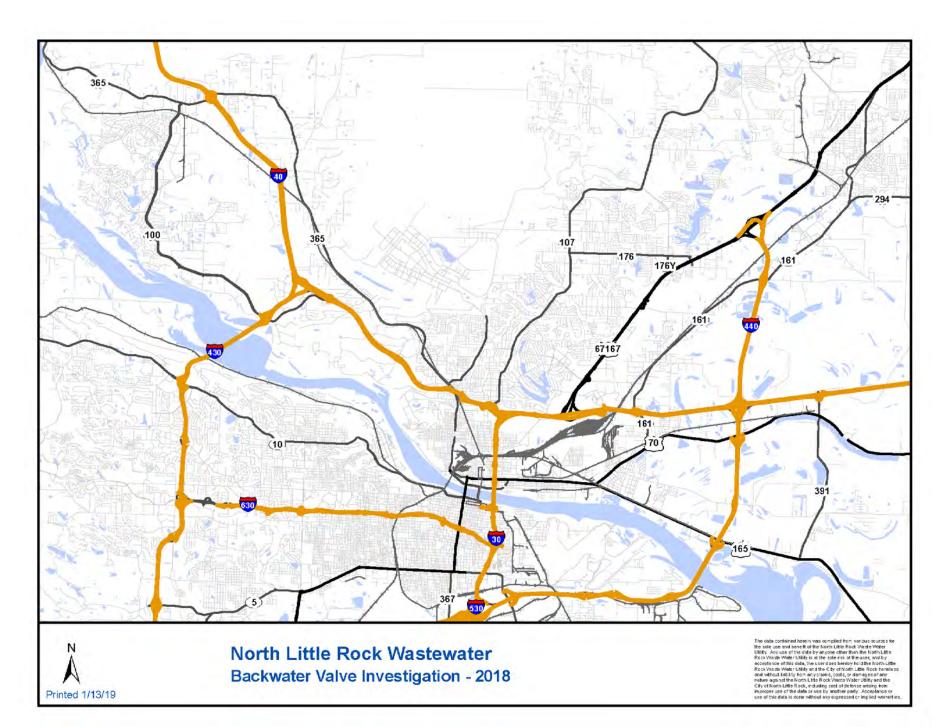
		PUMP	TRANSFER			EXISTING
TREATMENT PLANT NAME	LOCATION	CONNECTION	SWITCH	GENERATOR	VOLTS	SCADA TYPE
FAULKNER LAKE INFLUENT	7400 BAUCUM PIKE	N	AUTO	Υ	480 3Ø	IGNITION
FAULKNER LAKE BLOWER FACILITY	7400 BAUCUM PIKE	N	AUTO	Y	480 3Ø	IGNITION
FAULKNER LAKE ADMIN BLDG	7400 BAUCUM PIKE	N	AUTO	Y	208V 240V	IGNITION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

NOKIE	LITTLE ROCK WASTEWATER PU	ESPONSE CON	NECTIONS				
#	PUMP STATION NAME	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOLTS	EXISTING SCADA TYPE	SCADA UNIT#
402	BRIDGEWAY HOSPITAL #2	Y	N	N	230 1Ø	OMNISITE	3082
403	CLAYTON CHAPEL	Y	AUTO	Y	240 3Ø	OMNISITE	3082
405	DELTA LAWN	Y	AUTO	Y	240 3Ø	OMNISITE	3028
406	3306 E. 10th	Y	AUTO	Y	240 3Ø	OMNISITE	3080
407 408	HWY 107 LANSBROOK	Y	AUTO Manual	Y N	240 3Ø 240 3Ø	OMNISITE OMNISITE	3083 3027
409	MARYLAND EAST	Y	AUTO	Y	240 3Ø	OMNISITE	3083
410	MARYLAND PLACE	Y	N	N	240 1Ø	OMNISITE	3105
413	COCK-OF-THE-WALK (#2)	Υ	N	N	480 3Ø	OMNISITE	1115
414	MAYBELLINE	Υ	AUTO	Y	480 3Ø	OMNISITE	3028
415	MCALMONT	Y	N	N	240 3Ø	OMNISITE	3105
416	MID-STATE	Y	N	N	240 3Ø	OMNISITE	3107
417	OAKBROOK	Y	N	N	480 3Ø	OMNISITE	1030
418	PINE TREE	N	N	N	240 1Ø	OMNISITE	3108
419 420	SHILLCUT SHORTER COLLEGE	N Y	AUTO N	Y N	480 3Ø 240 3Ø	IGNITION OMNISITE	3110
420	BURNS PARK EAST	N	N N	N N	240 3Ø	NA	3110
422	BURNS PARK WEST	N	N	N	240 1Ø	N/A	
423	LAKEWOOD PLACE	N	N	N	230 1Ø	OMNISITE	3110
424	1 440 INDUSTRIAL PARK	Y	N	N	208 3Ø	OMNISITE	3028
425	AUSTIN LAKE	Υ	N	N	480 3Ø	OMNISITE	3110
426	FRONTIER DR MORGAN	Υ	AUTO	Υ	480 3Ø	OMNISITE	3110
427	MARCHE-MORGAN	Y	N	N	480 3Ø	OMNISITE	3080
429	BAUCUM INDUSTRIAL	Y	N	N	208 3Ø	OMNISITE	3028
430	WILCOX	Y	AUTO	Y	480 3Ø	OMNISITE	3026
431 432	QUAPAW HWY 365SHERMAN RD	Y	AUTO	Y	240 3Ø 480 3Ø	OMNISITE OMNISITE	3028 3081
433	GAP CREEK	Y	AUTO	Y	240 3Ø	OMNISITE	3080
434	HARRIS INDUSTRIAL PARK	Y	N	N	480 3Ø	OMNISITE	3026
435	BURNS PARK RV PARK	N	N	N	240 1Ø	N/A	0020
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	Υ	480 3Ø	OMNISITE	3028
439	BURNS PARK SOCCER FIELDS	N	N	N	230 1Ø	N/A	
440	COLLINS INDUSTRIAL PARK	Y	AUTO	Y	480 3Ø	OMNISITE	3056
441	COUNTS MASSIE	Y	AUTO	Y	480 3Ø	OMNISITE	3080
442	CHAPEL RIDGE	Y	N	N	240 3Ø	OMNISITE	3056
443	RIXIE PUMP -HWY 161 RIXIE PUMP-LUCKY DR.	Y	AUTO AUTO	Y	480 3Ø 480 3Ø	OMNISITE OMNISITE	3055 3055
445	RIXIE PUMP- TRAMMEL RD	Y	AUTO	Y	480 3Ø	OMNISITE	3055
446	RIXIE PUMP-RIXIE RD- RR TRACK	Y	N	N	480 3Ø	OMNISITE	3055
447	CYPRESS CROSSING	Y	AUTO	Υ	480 3Ø	OMNISITE	3026
448	CRYSTAL BAY	Υ	N	N	480 3Ø	OMNISITE	3080
449	TRAMMEL ESTATES	Y	N	N	240 1Ø	OMNISITE	3055
450	EUREKA GARDEN & 46TH	Y	AUTO	Y	240 3Ø	OMNISITE	3056
451	EUREKA GARDEN RD	Y	AUTO	Y	240 3Ø	OMNISITE	3055
452	EUREKA GARDEN & JUDY LANE	Y	Manual	N	240 3Ø	OMNISITE	3055
453	FAULKNER CROSSING 5	Y	AUTO	Y	480 3Ø	OMNISITE	3028
601 602	BOURIES C.C. BALLFIELDS	N Y	N AUTO	N Y	230 1Ø 480 3Ø	OMNISITE OMNISITE	1071 1057
603	COUNTS MASSIE #2	N	N	N	230 3Ø	OMNISITE	1102
604	DIA MOND POINT	N	N	N	480 3Ø	OMNISITE	1120
605	DURANGO	N	N	N	460 3Ø	OMNISITE	1118
606	HIGH SCHOOL	N	N	N	480 3Ø	OMNISITE	1117
607	LAWRENCE	N	N	N	230 1ø	OMNISITE	1102
608	MARANES	N	N	N	230 1ø	OMNISITE	1100
609	MASTERS PLACE	N	N	N	230 1ø	OMNISITE	1102
610	MAUMELLE VALLEY	Y	AUTO	Y	480 3Ø	OMNISITE	1101
611	MAUMELLE WOODS	N N	N	N	480 3Ø	OMNISITE	1114
613 614	MURPHY DRIVE NAYLOR	N N	AUTO N	Y N	460 3Ø 480 3Ø	IGNITION OMNISITE	1113
615	NEW BEDFORD	N N	N N	N N	480 3Ø	OMNISITE	1113
616	NORFOLK	N	N	N	230 1ø	OMNISITE	1119
617	ODOM/BLUE MOUNTAIN	N	N	N	230 1ø	OMNISITE	1114
618	OSAGE FALLS	N	N	N	230 3Ø	OMNISITE	1115
619	OSAGE HILLS	N	MANUAL	N	230 3ø	OMNISITE	1115
620	PALASADES	N	N	N	480 3Ø	OMNISITE	1113
621	PONCA	N	N	N	230 3Ø	OMNISITE	1119
622	RIDGELAND	N	N	N	230 1ø	OMNISITE	1102
623	RIDGELAND/ODOM	N	N	N	230 1ø	OMNISITE	1117
624	RIVER RUN	N	N	N	230 3Ø	OMNISITE	1118
625	SEMINOLE EAST	Y	AUTO	Y	460 3Ø	OMNISITE	1033
626	SEMINOLE WEST	Y	AUTO	Y	230 1ø	OMNISITE	1119

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
03/18/18	Lakewood Elementary	1800 Fairway North Little Rock, AR 72116	84
10/03/18	NLR Montessori School	900 Mission Road, NLR, AR 72118	14
10/16/18	Oak Grove Elementary	5703 Oak Grove Rd., NLR, AR 72118	55
10/28/18	Lakewood Elementary	1800 Fairway Ave., NLR, AR 72116	85
		Total Attendees 2018	238

March-18	61,500 Mailers were sent out with information on how to dispose of grease properly.
	It also contained information on what not to put down the drain.
July-18	61,500 Mailers were sent out with information on how to dispose of grease properly.
	It also contained information on what not to put down the drain.
December-18	61,500 Mailers were sent out with information on how to dispose of grease properly.
	It also contained information on what not to put down the drain.

Children at the schools were given bracelets with the North Little Rock Wastewater Logo and a message that reads "Protect Our Water" and a can lid with North Little Rock Wastewater Logo with a message that reads "MAINTAIN YOUR DRAIN" and instructions on how to properly dispose of grease 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.



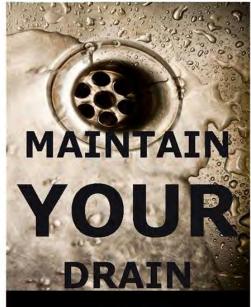
501-945-7186



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



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.





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 \$10,786,227of the \$30,000,000 loan.

viii. Point Repairs

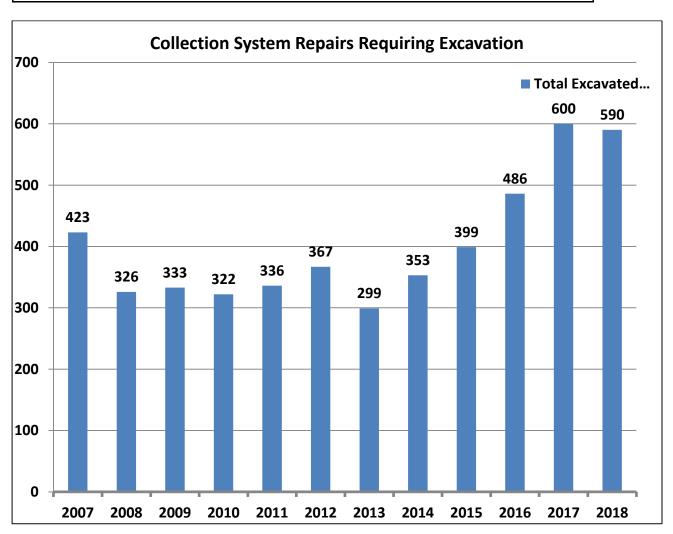
NLRW added a fourth construction crew in 2016 to reduce response time for disconnects which were building up a backlog of work orders. This crew may also assist with point repairs and other excavation related repairs depending on the work load.

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:

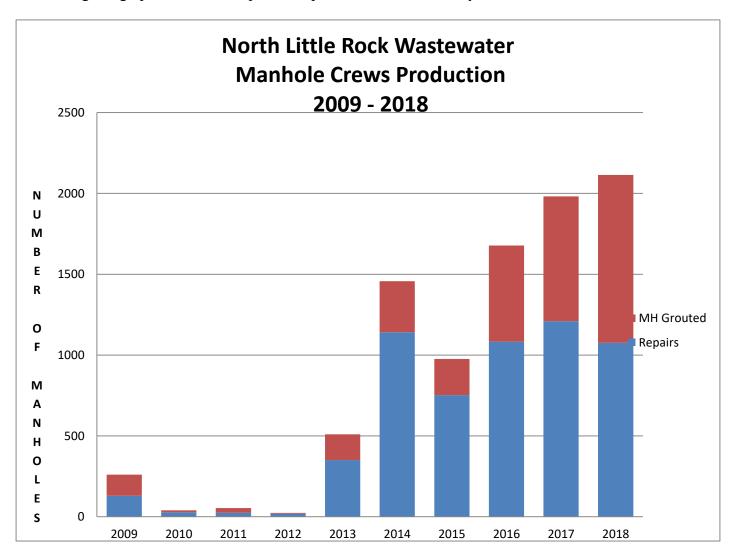
A summary of point repairs completed by the NLRW Collection Systems Department is included in Appendix C. *End of Year Work Recap Report*.

SUMMAF	SUMMARY of Collection System Repairs Requiring Excavation								
					Repairs by Outside				
	<u>Point</u>	<u>New</u>	New Line		<u>Services</u>				
<u>Year</u>	Repairs	<u>Manholes</u>	<u>Segments</u>	<u>Disconnects</u>	<u>Contractors</u>	TOTAL			
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			
						3,430			



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. <u>Certification</u>

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

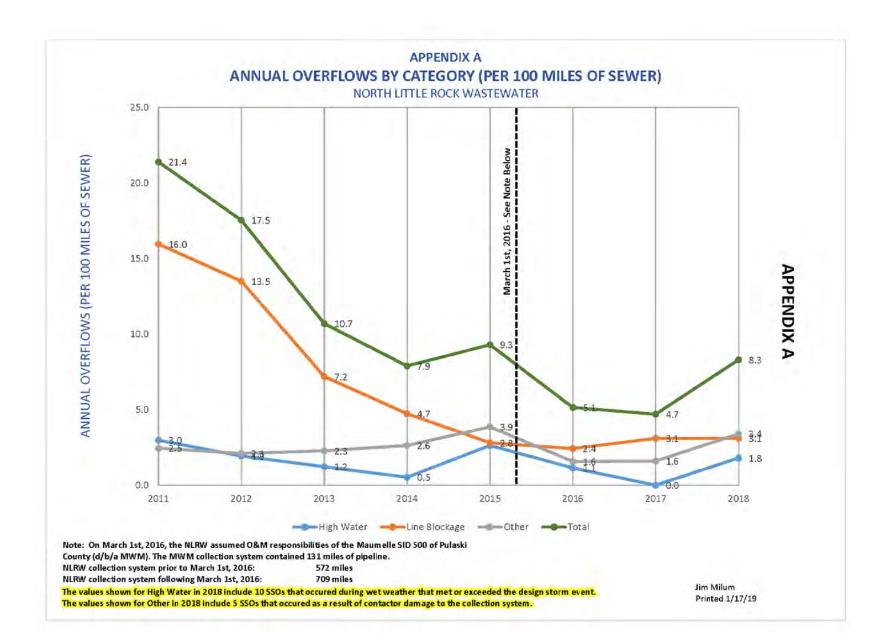
MZhill

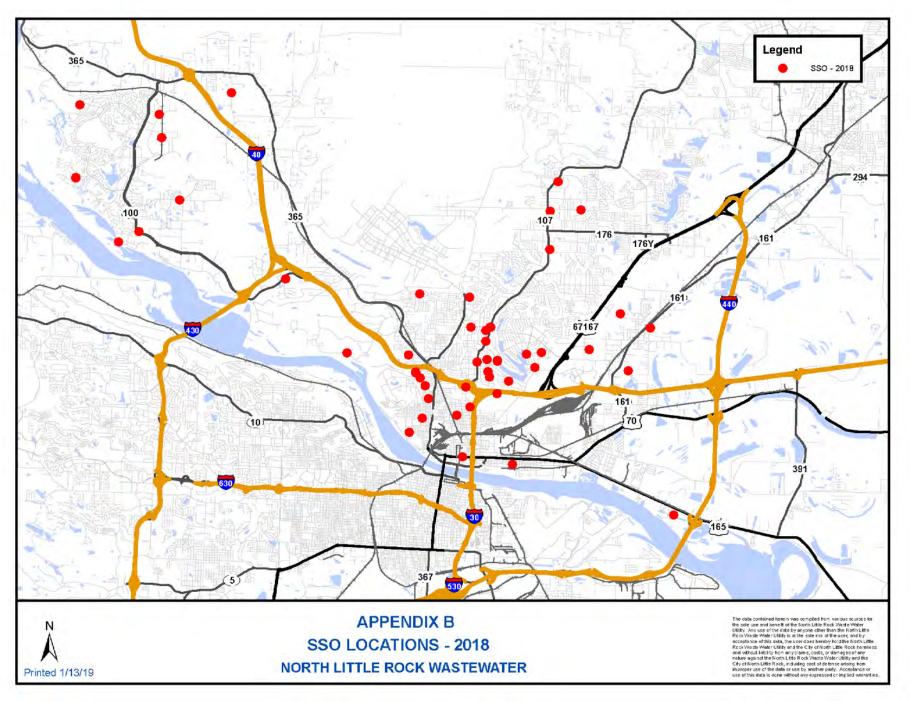
Director

North Little Rock Wastewater

APPENDIX

- A. Annual Overflows by Category
- **B. SSO Locations 2018**
- C. 2018 Year-to-Date Work Recap Report (Collection Systems Department)
- **D.** Collection System Rehabilitation





APPENDIX C

North Little Rock Wastewater Utility 2018 Year-To-Date Work Recap Report													
MANHOLE:													
Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	0
Taps Repairs	0 47	41	31	66	2 125	0 118	0 152	0 89	73	2 64	0 150	120	1,076
# of MH's Grouted	41	21	13	56	117	150	141	107	83	55	153	101	1,078
#of Coats	0	0	0	0	0	0	0	0	0	0	0	0	0
MH Depth (Ft/In)	83.0	10.0	0.0	44.0	54.0	0.0	29.0	0.0	122.0	0.0	72.0	0.0	414
# of Bags of Grout	42	5	17	23	25	8	6	20	26	7	27	1	207
POWER DRIVE: #of Ft Cleaned	10,466	7,764	7,852	17,070	9,587	10,290	12,502	9,126	4,764	8,133	14,126	11,155	122,835
PWR RODDER #1:	10,400	7,704	7,632	17,070	0	10,290	12,502	9,120	4,704	0,133	0	11,155	122,033
#of Ft Cleaned	0	0	0	0	0	544	0	1,921	1,215	0	486	0	4,166
REPAIR #1:											0		
Repairs	2	9	6	15	6	9	2	5	5	11	9	6	85
New Manholes	3	1	0	0	0	2	1	1	4	1	1	0	14
New Lines Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	8
Taps	0	1	2	1	2	2	1	1	1	0	0	1	12
Miscellaneous	1	6	4	4	6	9	1	1	5	8	9	10	64
REPAIR #2:											0		
Repairs	12	16	14	13	13	15	11	11	11	10	8	8	142
New Manholes New Lines	0	0	0	0	0	0	0	0	0	0	0	0	1
Disconnects	0	0	0	0	0	0	0	0	0	0	0	3	3
Taps	0	0	1	0	1	1	0	0	0	0	0	0	3
Miscellaneous	5	5	3	2	1	8	3	7	7	14	3	11	69
REPAIR #3:											0		
Repairs	14	9	8	2	3	7	4	6	1	8	6	1	69
New Manholes New Lines	0	0	0	2	2	0	0	0	0	0	0	0	16 5
Disconnects	0	0	0	0	0	0	0	0	0	4	1	1	6
Taps	1	1	0	0	0	0	0	0	0	0	1	0	3
Miscellaneous	8	4	5	0	5	4	3	5	0	7	6	7	54
REPAIR #4:	4.0			0	_						0		
Repairs New Manholes	10	7	0	8	7	0	0	0	0	7	0	0	61
New Lines	0	0	0	0	0	0	0	0	0	0	0	0	0
Disconnects	13	16	24	17	23	11	12	20	6	13	10	11	176
Taps	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	3	2	3	3	2	8	1	2	15	7	2	2	50
# of Ft Cleaned	562	535	513	375	10	1,017	535	140	214	0	140	0	4,041
Stop-Ups	55	61	60	36	38	27	32	24	23	19	31	10	4,041
Private Lines	38	42	40	24	31	16	25	23	13	18	36	47	353
Cave-Ins	5	5	17	4	8	1	7	7	2	6	4	6	72
Flooded Houses	1	0	0	0	0	0	50	0 74	0	0	0	0	1
Miscellaneous	49 107	47 108	43 120	60 91	56 103	62 72	59 97	74 104	43 78	66 95	58 104	48 111	665 1,190
Total Calls					- 00		- '	-0.	. 0		-0.		-,*/
Total Calls VACCON #1:													
Total Calls VACCON #1: #of Ft Cleaned	16,870	18,032	32,649	35,662	30,077	27,367	33,556	32,957	21,927	19,038	0	0	268,135
VACCON #1: #of Ft Cleaned VACCON #2:		18,032	32,649	35,662	30,077	27,367	33,556	32,957	21,927	19,038	0	0	268,135
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned		18,032 33,213	32,649 50,024	35,662 37,847	30,077 52,657	27,367 38,991	33,556 36,740	32,957 30,468	21,927 22,355	19,038 31,435	0 31,132	23,532	268,135 413,559
VACCON #1: # of Ft Cleaned VACCON #2: # of Ft Cleaned VACCON #3:	16,870 25,165	33,213	50,024	37,847	52,657	38,991	36,740	30,468	22,355	31,435	31,132	23,532	413,559
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned	16,870		- /-										
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4:	16,870 25,165 26,400	33,213 32,048	50,024	37,847 39,651	52,657 19,912	38,991 48,252	36,740 51,892	30,468 29,858	22,355 27,325	31,435 31,055	31,132 39,602	23,532	413,559 421,916
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4: #of Ft Cleaned	16,870 25,165	33,213	50,024	37,847	52,657	38,991	36,740	30,468	22,355	31,435	31,132	23,532	413,559
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4:	16,870 25,165 26,400	33,213 32,048	50,024	37,847 39,651	52,657 19,912	38,991 48,252	36,740 51,892	30,468 29,858	22,355 27,325	31,435 31,055	31,132 39,602	23,532	413,559 421,916
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4: #of Ft Cleaned VACCON #5:	16,870 25,165 26,400	33,213 32,048	50,024 47,902 770	37,847 39,651 17,588	52,657 19,912 32,257	38,991 48,252	36,740 51,892 13,127	30,468 29,858 27,713	22,355 27,325 4,990	31,435 31,055 5,057	31,132 39,602 0	23,532	413,559 421,916 101,502
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4: #of Ft Cleaned VACCON #5: #of Ft Cleaned	16,870 25,165 26,400	33,213 32,048	50,024 47,902 770	37,847 39,651 17,588	52,657 19,912 32,257	38,991 48,252	36,740 51,892 13,127	30,468 29,858 27,713	22,355 27,325 4,990	31,435 31,055 5,057	31,132 39,602 0	23,532	413,559 421,916 101,502
VACCON #1: #of Ft Cleaned VACCON #2: #of Ft Cleaned VACCON #3: #of Ft Cleaned VACCON #4: #of Ft Cleaned VACCON #5: #of Ft Cleaned TV #1	16,870 25,165 26,400 0 37,166	33,213 32,048 0 18,864	50,024 47,902 770 37,741	37,847 39,651 17,588 27,262	52,657 19,912 32,257 33,471	38,991 48,252 0 39,634	36,740 51,892 13,127 11,234	30,468 29,858 27,713 16,510	22,355 27,325 4,990 24,285	31,435 31,055 5,057 21,603	31,132 39,602 0	23,532 28,019 0	413,559 421,916 101,502 267,770

