



RIVERBEND RESOLUTION NO. 20170913-01

**ADOPTING THE FY 2016-2017 MEMBER ENTITIES' TRUE-UP
AND FY 2017-2018 WATER RATES AND FEES OF THE
TEXARKANA WATER UTILITIES**

WHEREAS, Riverbend Water Resources District is a conservation and reclamation district created under and essential to accomplish the purposes of Section 59 Article XVI, Texas Constitution, existing pursuant to and having the powers set forth in Chapter 9601 of the Special District Local Laws Code of the State of Texas; and

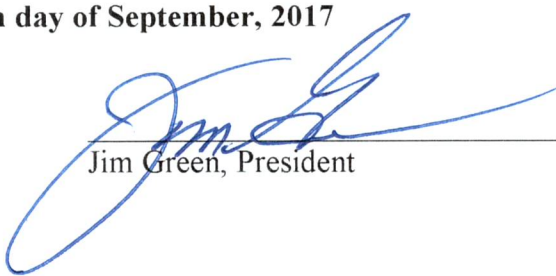
WHEREAS, Riverbend Water Resources District is charged with oversight of the annual true-up conducted amongst and between the City of Texarkana, Texas and all Member Entities; and

WHEREAS, Texarkana Water Utilities conducted a review of its previous annual budget, calculated FY 2016-2017 water consumption calculations, and proposed an annual budget for FY 2017-2018 to be used in establishing the water rates; and

WHEREAS, Riverbend Water Resources District held an annual True-Up meeting on August 16, 2017 at 10:00 a.m. at the Riverbend Offices to discuss the true-up process and information provided by the City of Texarkana, Texas and its water department through Texarkana Water Utilities; and

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Riverbend Water Resources District hereby adopts the FY 2016-2017 Member Entities' True-Up and FY 2017-2018 water rates and fees of the Texarkana Water Utilities.

PASSED and APPROVED this 13th day of September, 2017



Jim Green, President

ATTEST:



Kelly Mitchell, Secretary

Attached: 2016-2017 Member City Rate Calculation Packet provided by Texarkana Water Utilities

Member City
Water Rate
Calculation
2018

(With New Proposed OH Rate)

City of Texarkana, Texas
Proposed Water Production Rate Assumptions
9/30/2018

Assumptions regarding the 2018 Water Rate:

- 1) The water rate is determined based on the adopted FY 2018 Water Department Budget.
- 2) The administration overhead rate has been calculated using 6.04% of total budget water production costs.
- 3) The 2016 True up is not included in the actual water rate. Once the true up has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 4) The infrastructure cost is not included in the actual water rate. Once the cost has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 5) The debt service cost is not included in the actual water rate. Once the cost has been decided, it will be billed monthly as an amount on each individual Member City monthly billing.
- 6) Monthly billings will use estimated gallons as projected in the current budget.
- 7) The water rate calculated for 2018 excludes the amount due to Riverbend. Each City will be responsible for remitting their amount directly to Riverbend.

CALCULATION OF OVERHEAD PERCENTAGE

From FY 2016 Audited Amounts

	2016 Audited Amounts
Admin Divisions:	
Administration	435,459
Finance	429,430
Safety/Security	85,607
Engineering	10,145
GIS	8,412
Information Technology	15,282
Total Admin	984,335
Other Divisions:	
Customer Service	797,508
Water Production	3,691,965
Water Distribution	1,149,031
Sewer Collection	1,111,962
Wastewater	3,907,024
Environmental Services	360,447
Information Technology	949,840
Engineering	443,632
GIS	367,847
Composting	259,028
Operations Admin	241,438
Service Center	541,939
Water/Swr Constr	975,506
Field Services	522,359
Total Other	15,319,526
Total Expenses	16,303,861

Admin % of Total	6.04%
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FY16 Audit Amounts:	
Oper Div Total	22,468,534
Less:	
Depr	(5,179,371)
Other Expenses	(985,299)
Total	16,303,864
Rounding Difference	(3)

CALCULATION OF OVERHEAD PERCENTAGE

From FY 2016 Audited Amounts

Engineering & GIS Divisions Allocation to OH:

Engineering-Division 710	453,777
GIS-Division 740	<u>376,259</u>
Total	<u>830,036</u>

			<u>Engineering Division 710</u>	<u>GIS Division 740</u>	<u>Total</u>
<u><i>FY16 Capital Project Hours:</i></u>					
WP & MW Projects	279	2.24%	10,145	8,412	18,557
Other Projects	<u>12,201</u>	97.76%	<u>443,632</u>	<u>367,847</u>	<u>811,479</u>
Total	12,480	100.00%	453,777	376,259	<u>830,036</u>

Information Technology (IT) Division Allocation to OH:

Information Tech- Division 230	<u>965,122</u>
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			<u>Info Tech Division 230</u>
<u><i>FY16 IT Logged Workorder Hours:</i></u>			
Division 410	71	1.01%	
Division 420	<u>40</u>	0.57%	
Total WP & MW	111	1.58%	15,282
Other Utility Divisions	<u>6,899</u>	98.42%	<u>949,840</u>
Total	7,010	100.00%	<u>965,122</u>

TEXARKANA WATER UTILITIES

WRIGHT PATMAN WATER TREATMENT PLANT- 410

	<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
<u>EXPENDITURES</u>				
Personal Services	1,076,370	1,311,070	1,139,352	1,317,571
Supplies	638,738	859,900	811,421	887,600
Repairs & Maintenance	146,198	201,420	219,649	231,749
Contractual Services	528,714	602,826	622,981	628,409
Capital Outlay	0	0	0	0
TOTAL	2,390,020	2,975,216	2,793,403	3,065,329

PERSONAL SERVICES

511100	Supervision	157,484	153,780	153,662	163,050
511111	Management-Regular	21,501	23,857	23,805	23,857
511113	Management-Incentive	1,880	1,838	1,838	1,838
511211	Supervision-Reg Pay	116,549	123,085	117,020	132,355
511212	Supervision-Overtime	17,554	5,000	11,000	5,000
511214	Supervision-Standby	0	0	0	0
511411	Maintenance & Oper	494,531	668,319	509,185	658,914
511412	Overtime	83,319	43,000	73,000	43,000
511414	Standby	0	0	0	0
511415	Shift Differential	6,528	7,500	7,500	7,500
511523	Payout-Comp Time	0	0	236	0
511611	Temporary Labor	5,601	10,000	41,687	10,000
511811	Stipend	0	0	0	0
512111	Longevity	6,567	7,425	7,128	8,175
512112	Group Insurance	114,447	160,997	117,914	160,891
512114	Retirement	120,751	141,750	121,615	145,768
512115	Social Security	55,473	67,322	57,429	67,369
512116	Workmen's Comp	17,842	19,007	19,093	21,154
512117	Unemployment	0	0	1,432	1,400
512118	Employee Screening	5	220	220	250
512121	Incentive	708	0	0	0
512100	Education & Training	13,114	31,750	29,250	30,100
512122	Seminars	2,785	3,000	6,000	6,000
512123	Training Schools	1,530	15,500	10,000	10,000
512124	Travel	6,944	8,000	8,000	8,000
512125	Books & Subscriptions	0	50	50	100
512126	Dues	1,174	2,200	2,200	3,000
512127	Licenses	681	3,000	3,000	3,000
512128	Awards & Certificates				
519999	Salary & Ben Transfer	0	0	0	0
TOTAL		1,076,370	1,311,070	1,139,352	1,317,571

TEXARKANA WATER UTILITIES
WRIGHT PATMAN WATER TREATMENT PLANT- 410

		<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
<u>SUPPLIES</u>					
521100	Office Supplies	1,629	2,000	2,250	2,250
521111	Paper	175	200	450	450
521112	Writing Instruments	36	50	50	50
521113	Computer Supplies	460	1,000	1,000	1,000
521114	Other Off Sup & Exp	858	750	750	750
521115	Minor Software	100	0	0	0
521200	Operating Supplies	7,387	6,500	7,500	8,500
521211	Consumable Items	5,736	5,000	5,000	6,000
521212	Non Consumable Items	1,651	1,500	2,500	2,500
521311	Botanical Supplies	0	0	0	0
521400	Safety	8,398	9,600	17,400	16,900
521411	Personal Protect Equip	1,435	3,000	3,000	4,000
521413	Emergency Response Eq	453	0	0	0
521415	Facilities Maintenance	5,695	6,000	12,000	12,000
521417	Laboratory & Environ	0	300	300	300
521418	Storage & Handling	461	100	100	100
521419	Grounds Maintenance	354	200	2,000	500
521700	Minor Tools	5,920	5,500	7,500	8,000
521711	Electronic Tools	1,928	1,500	1,500	2,000
521712	Hand Tools	2,299	2,000	3,000	3,000
521713	Power Tools	1,693	2,000	3,000	3,000
521900	Wearing Apparel	6,332	8,200	8,471	8,300
521911	Uniform Cost	0	0	171	0
521912	Uniform Maintenance	6,307	7,900	8,000	8,000
521913	All Weather Gear	25	300	300	300
521919	Other Wearing Apparel				
522300	Laundry & Janitorial	2,634	1,600	2,900	3,000
522311	Laundry Service				
522312	Janitorial Service	1,732	1,600	1,900	2,000
522313	Laundry & Jan Supplies	902		1,000	1,000
522500	Lab & Photo Supplies	26,321	31,000	31,500	32,500
522511	Lab Supplies	4,885	4,500	5,000	6,000
522512	Lab Chemicals	21,034	25,000	25,000	25,000
522513	Lab Equipment Repairs	374	1,500	1,500	1,500
522521	Photo Supplies & Exp	28			
522700	Printing	1,050	1,000	1,000	1,000
522711	Stationery				
522712	Billing Forms	0			
522713	Other Forms	744	500	500	500

TEXARKANA WATER UTILITIES
WRIGHT PATMAN WATER TREATMENT PLANT- 410

		<i>Actual 15-16</i>	<i>Budget 16-17</i>	<i>Revised 16-17</i>	<i>Budget 17-18</i>
522719	Other	306	500	500	500
522800	Chemicals - Plant	576,668	780,000	681,400	755,650
522811	Activated Carbon				
522812	Anhydrous Ammonia	23,485	20,000	21,400	21,400
522813	Calcium Hypochlorinate				
522815	Caustic Soda	254,176	300,000	270,000	344,250
522816	Chlorine	41,168	50,000	50,000	50,000
522817	Copper Sulphate		0		
522819	Hydrated Lime	0			
522821	Liquid Alum	196,736	300,000	260,000	260,000
522822	Polymer	0	0	0	0
522823	Potassium Permanganate				
522824	Sodium Chlorite	46,359	60,000	60,000	60,000
522826	Zinc Ortho Phosphate	14,632	25,000	20,000	20,000
522827	Sodium Hydroxide				
522839	Other	112	25,000	0	0
522900	Chemicals - Lake	2,399	14,500	51,500	51,500
522914	Carbon	0	10,000	50,000	50,000
522916	Chlorine	0			
522917	Copper Sulphate	0	1,500	1,500	1,500
522939	Other	2,399	3,000	0	0
TOTAL		638,738	859,900	811,421	887,600

REPAIRS & MAINTENANCE

531111	Office Machines & Eq	75	0	0	0
531200	Motor Vehicles	21,657	25,900	19,800	25,400
531211	Antifreeze	56	100	100	100
531212	Batteries	98	400	400	400
531213	Filters	492	500	400	500
531214	Fuel	13,276	20,000	13,000	18,000
531215	Lubricates	369	500	500	500
531216	Parts	3,844	2,000	2,000	2,000
531217	Tires	1,488	1,500	1,500	2,000
531218	Labor	116	100	100	100
531219	Subcontracts	1,911	500	1,500	1,500
531221	Towing				
531239	Repairs Other	7	300	300	300
531700	Machinery & Equip	5,987	7,000	7,800	7,800
531711	Antifreeze		100	100	100
531712	Batteries	29	200	200	200
531713	Filters	63	100	500	500

TEXARKANA WATER UTILITIES
WRIGHT PATMAN WATER TREATMENT PLANT- 410

		<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
531714	Fuel	1,480	3,000	3,000	3,000
531715	Lubricates	324	100	500	500
531716	Parts	3,259	1,500	1,500	1,500
531717	Tires	31	1,500	1,500	1,500
531718	Labor	801	500	500	500
531719	Subcontracts	0			
531739	Repairs Other	0			
531800	Signal Equipment	1,421	3,500	3,500	3,500
531811	Radios	0	500	500	500
531812	Telemetry	1,421	3,000	3,000	3,000
532100	Building	3,004	5,300	14,000	10,500
532111	Heating & Cooling	126	2,000	8,000	4,500
532112	Other Building	2,878	3,000	4,000	4,000
532113	Grounds & Parking Lots	0	300	2,000	2,000
533100	Water Treatment Equip	88,905	120,000	120,000	130,000
533111	Intake	6,451	40,000	40,000	40,000
533112	Plant	73,062	70,000	70,000	70,000
533113	Booster Stations	9,392	10,000	10,000	20,000
533200	Water Transmission Mains	9,567	19,000	29,000	29,000
533211	Raw Water Mains	32	4,000	4,000	4,000
533212	Treated Water Mains	5,139	5,000	5,000	5,000
533213	Member Cities Mains	4,396	10,000	20,000	20,000
533500	Fire Hydrants	0	0	0	0
533511	Fire Hydrants				
533512	Fire Hydrants-LTWSC				
533600	Tanks & Reservoirs	21,072	25,000	30,000	30,000
533611	MC Tanks & Reservoirs	12,431	15,000	20,000	20,000
533612	Other Tanks & Reserv	8,641	10,000	10,000	10,000
534100	Sewer Equipment R & M	0	600	1,000	1,000
534121	Sewer Instrument R&M	0	600	1,000	1,000
533711	Sludge Pond Maintenance				
539998	Equipment Utilization	0	0	0	0
539999	Equipment Apportionment	(5,490)	(4,880)	(5,451)	(5,451)
TOTAL		146,198	201,420	219,649	231,749

CONTRACTUAL SERVICES

541111	Accounting & Audit	1,950	4,000	2,344	5,692
541311	Communications	11,804	14,883	15,000	15,000
541700	Rentals	2,413	2,000	4,000	4,000
541711	Equipment Rental	2,413	2,000	4,000	4,000
541712	Building Rental				

TEXARKANA WATER UTILITIES
WRIGHT PATMAN WATER TREATMENT PLANT- 410

		<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
541900	Fees and Permits	35,484	42,000	53,237	53,500
541911	Water System Serv Fee	35,484	40,500	51,737	52,000
541912	Water System Permits	0	500	500	500
541919	Other Fees & Permits	0	1,000	1,000	1,000
541931	Fines & Penalties				
542411	Freight Charges				
543111	Refuse Hauling	2,077	2,000	2,000	2,000
543400	Insurance	38,808	38,817	42,407	42,555
543411	Property Insurance	32,981	32,985	35,073	35,200
543412	Liability Insurance	3,279	3,285	3,648	3,655
543413	Automotive Insurance	2,548	2,547	3,686	3,700
543600	Laboratory Services	6,885	15,000	14,755	14,800
543611	State Lab Fees	755	1,000	755	800
543612	Commercial Lab Fees	6,130	12,000	12,000	12,000
543613	Comm Lab Fees-Other	0	2,000	2,000	2,000
543900	Legal	0	0	0	0
543911	Legal Advertising				
543913	Attorney Fees				
544100	Maintenance Contracts	3,324	7,000	11,900	11,924
544111	Computer				
544112	Software	2,405	4,000	8,000	8,000
544113	Internet Service	190		900	924
544119	Other Maint Contract	729	3,000	3,000	3,000
544900	Postage	1,060	725	2,625	2,625
544911	Postage	54	125	125	125
544912	Special Delivery	1,006	600	2,500	2,500
545200	Power Purchases	270,494	283,000	281,400	283,000
545211	Electrical	264,840	275,000	275,000	275,000
545212	Gas	5,654	8,000	6,400	8,000
545511	Power Purchases - Lake	153,664	190,000	190,000	190,000
545700	Special Services	138	2,788	2,700	2,700
545711	One Call Services				
545712	Pest Control		200	200	200
545719	Other Special Services	138	2,588	2,500	2,500
546311	Water Rights	613	613	613	613

TEXARKANA WATER UTILITIES

WRIGHT PATMAN WATER TREATMENT PLANT- 410

	<i>Actual 15-16</i>	<i>Budget 16-17</i>	<i>Revised 16-17</i>	<i>Budget 17-18</i>
TOTAL	528,714	602,826	622,981	628,409
CAPITAL OUTLAY				
551114 Machinery & Equipment	0	0	0	0
551115 Communications Equip	0	0	0	0
TOTAL	0	0	0	0
TOTAL BUDGET	2,390,020	2,975,216	2,793,403	3,065,329

100% Texas

3,065,329

<u>15-16 Actual Exp not included on budget sheet above:</u>	
Pay Out - Annual Leave	435
Pay Out - Post Ret Ins	709
Accrued Payroll	6,500
Accrued Vacation and Sick	6,242
Accrued Special Delivery Service	55
Accrued Electrical	8,039
Accrued Power Purchases- Lake	26,857
	<u>48,837</u>
<u>Reconciliation:</u>	
Total Actual Exp Above for 15-16	2,390,020
Additional Expenses for 15-16	48,837
	<u>2,438,857</u>
Balance on 2016 True Up Detail (pg 26)	2,438,858
Difference (Rounding)	(1)

TEXARKANA WATER UTILITIES

MILLWOOD WATER TREATMENT PLANT- 420

	<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
<u>EXPENDITURES</u>				
Personal Services	372,278	314,724	353,976	302,699
Supplies	224,766	244,675	209,625	279,625
Repairs & Maintenance	72,544	68,232	101,032	95,582
Contractual Services	680,775	698,868	701,966	702,995
Capital Outlay	0	0	0	0
TOTAL	1,350,363	1,326,499	1,366,599	1,380,901

PERSONAL SERVICES

511200	Supervision	48,605	54,520	52,356	54,520
511111	Management-Regular	22,628	23,857	23,803	23,857
511113	Management-Incentive	1,795	1,838	1,838	1,838
511211	Supervision-Regular	21,526	28,325	24,701	28,325
511212	Supervision-Overtime	2,656	500	2,000	500
511214	Supervision-Standby	0	0	15	0
511411	Maintenance & Oper	169,380	158,284	170,761	149,565
511412	Overtime	44,997	5,000	23,000	5,000
511415	Shift Differential	1,589	500	1,300	500
511523	Payout- Comp Time	0	0	0	0
511611	Temporary Labor	310	0	0	0
511811	Stipend	0	0	0	0
512111	Longevity	5,487	5,100	5,688	3,780
512112	Group Insurance	35,013	30,987	34,308	30,807
512114	Retirement	43,260	36,089	40,067	35,429
512115	Social Security	20,043	17,140	19,363	16,374
512116	Workmen's Comp	3,034	3,069	2,085	1,677
512118	Employee Screening	0	35	47	47
512121	Incentive	0	0	0	0
512100	Education & Training	560	4,000	5,000	5,000
512122	Seminars	165		0	
512123	Training Schools	0	2,000	2,000	2,000
512124	Travel	74	1,000	2,000	2,000
512125	Books & Subscriptions				
512126	Dues	210	500	500	500
512127	Licenses	111	500	500	500
512128	Awards & Certificates				
519999	Salary & Benefit Transfer	0	0	0	0
TOTAL		372,278	314,724	353,976	302,699

TEXARKANA WATER UTILITIES
MILLWOOD WATER TREATMENT PLANT- 420

		<i>Actual 15-16</i>	<i>Budget 16-17</i>	<i>Revised 16-17</i>	<i>Budget 17-18</i>
<u>SUPPLIES</u>					
521100	Office Supplies	159	525	525	525
521111	Paper	32	50	50	50
521112	Writing Instruments	5	25	25	25
521113	Computer Supplies	11	300	300	300
521114	Other	11	150	150	150
521115	Minor Software Lic	100	0	0	0
521200	Operating Supplies	2,710	1,500	2,500	2,500
521211	Consumable Items	1,581	1,000	2,000	2,000
521212	Non Consumable Items	1,129	500	500	500
521311	Botanical Supplies	11	50	0	0
521400	Safety	3,801	6,300	4,800	4,800
521411	Personal Protect Equip	846	1,000	1,500	1,500
521413	Emergency Response Eq	0	300	300	300
521415	Facilities Maintenance	1,910	4,000	2,000	2,000
521417	Laboratory & Environ				
521418	Storage & Handling				
521419	Grounds Maintenance	1,045	1,000	1,000	1,000
521700	Minor Tools	889	900	1,400	1,400
521711	Electronic Tools				
521712	Hand Tools	889	500	1,000	1,000
521713	Power Tools	0	400	400	400
521900	Wearing Apparel	1,702	2,050	2,050	2,050
521911	Uniform Cost				
521912	Uniform Maintenance	1,702	2,000	2,000	2,000
521913	All Weather Gear		50	50	50
521919	Other Wearing Apparel				
522300	Laundry & Janitorial	2,365	2,400	2,400	2,400
522311	Laundry Service				
522312	Janitorial Service	1,971	2,000	2,000	2,000
522313	Laundry & Jan Supplies	394	400	400	400
522500	Lab & Photo Supplies	4,281	5,750	5,750	5,750
522511	Lab Supplies	393	1,000	1,000	1,000
522512	Lab Chemicals	3,888	4,250	4,250	4,250
522513	Lab Equipment Repairs		500	500	500
522521	Photo Supplies & Exp				
522700	Printing	0	200	200	200
522711	Stationery				
522712	Billing Forms				
522713	Other Forms				

TEXARKANA WATER UTILITIES
MILLWOOD WATER TREATMENT PLANT- 420

		<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
522719	Other	0	200	200	200
522800	Chemicals - Plant	208,848	225,000	190,000	260,000
522811	Activated Carbon				
522812	Anhydrous Ammonia	13,800	15,000	15,000	15,000
522813	Calcium Hypochlorinate				
522815	Caustic Soda				70,000
522816	Chlorine	26,288	25,000	25,000	25,000
522817	Copper Sulphate				
522819	Hydrated Lime	49,633	50,000	40,000	40,000
522821	Liquid Alum	98,418	95,000	80,000	80,000
522822	Polymer				
522823	Potassium Permanganate				
522824	Sodium Chlorite				
522826	Zinc Ortho Phosphate	20,709	20,000	20,000	20,000
522839	Other Chemicals	0	20,000	10,000	10,000
522914	Chemicals-Carbon				
TOTAL		224,766	244,675	209,625	279,625

REPAIRS & MAINTENANCE

531111	Office Machines & Eq				
531200	Motor Vehicles	649	3,157	3,157	3,157
531211	Antifreeze	1	50	50	50
531212	Batteries		100	100	100
531213	Filters	34	50	50	50
531214	Fuel	0	2,000	2,000	2,000
531215	Lubricates	51	100	100	100
531216	Parts	0	50	50	50
531217	Tires	556	800	800	800
531218	Labor				
531219	Subcontract	0			
531239	Other	7	7	7	7
531700	Machinery & Equip	16,301	17,825	21,025	19,925
531711	Antifreeze		50	50	50
531712	Batteries	0	200	200	200
531713	Filters	0	25	25	25
531714	Fuel	10,907	12,000	12,000	12,000
531715	Lubricates	117	50	1,250	150
531716	Parts	406	1,000	5,000	5,000
531717	Tires	1,346	500	500	500
531718	Labor	3,525	4,000	2,000	2,000

TEXARKANA WATER UTILITIES
MILLWOOD WATER TREATMENT PLANT- 420

		<i>Actual</i> <i>15-16</i>	<i>Budget</i> <i>16-17</i>	<i>Revised</i> <i>16-17</i>	<i>Budget</i> <i>17-18</i>
531719	Subcontract	0			
531739	Other				
531800	Signal Equipment	207	1,000	350	1,000
531811	Radios				
531812	Telemetry	207	1,000	350	1,000
532100	Building	2,528	3,250	5,000	5,000
532111	Heating & Cooling	1,743	2,000	2,000	2,000
532112	Other Building	785	1,250	3,000	3,000
532113	Grounds & Parking Lots	0			
533100	Water Treatment Equip	48,807	35,000	65,000	60,000
533111	Intake	2,475	5,000	20,000	20,000
533112	Plant	29,007	15,000	30,000	25,000
533113	Booster Station	17,325	15,000	15,000	15,000
533200	Water Transmission Mains	0	5,000	2,500	2,500
533211	Raw Water Mains	0			
533212	Treated Water Mains	0	5,000	2,500	2,500
533213	Member Cities Mains				
533500	Fire Hydrants	0	0	0	0
533511	Fire Hydrants				
533512	Fire Hydrants-LTWSC				
533600	Tanks & Reservoirs	4,052	3,000	4,000	4,000
533611	MC Tanks & Reservoirs				
533612	Other Tanks & Reserv	4,052	3,000	4,000	4,000
533711	Sludge Pond Maintenance	0	0	0	0
539998	Equipment Utilization	0	0	0	0
TOTAL		72,544	68,232	101,032	95,582

CONTRACTUAL SERVICES

541111	Accounting & Audit	1,170	2,000	1,406	2,290
541311	Communications	8,552	9,527	9,527	9,527
541700	Rentals	684	0	3,000	3,000
541711	Equipment Rental	684		3,000	3,000
541712	Building Rental				
541900	Fees and Permits	42,992	44,473	48,016	48,106
541911	Water System Serv Fee	42,092	42,073	45,706	45,706
541912	Water System Permits	900	1,400	1,400	1,400
541919	Other Fees & Permits	0	1,000	910	1,000
541923	Wastewater Permit				
541931	Fines & Penalties				
543400	Insurance	13,289	13,635	13,899	13,930

TEXARKANA WATER UTILITIES
MILLWOOD WATER TREATMENT PLANT- 420

		<i>Actual 15-16</i>	<i>Budget 16-17</i>	<i>Revised 16-17</i>	<i>Budget 17-18</i>
543411	Property Insurance	12,125	12,128	12,877	12,900
543412	Liability Insurance	797	803	652	655
543413	Automotive Insurance	367	704	370	375
543600	Laboratory Services	574	6,000	3,000	3,000
543611	State Lab Fees				
543612	Comm Lab Fees-POTW	574	6,000	3,000	3,000
543613	Comm Lab Fees-Other				
544100	Maintenance Contracts	76	0	418	442
544111	Computer				
544112	Software				
544119	Other Equipment	76		418	442
544911	Postage	295	500	0	0
544912	Special Delivery Service	60	0	0	0
545200	Power Purchases	254,126	250,000	250,000	250,000
545211	Electrical	254,126	250,000	250,000	250,000
545212	Gas				
545511	Power Purchases - Lake				
545700	Special Services	8	733	700	700
545711	One Call Services				
545712	Pest Control		300	300	300
545719	Other Special Services	8	433	400	400
546311	Water Rights	154,947	165,000	165,000	165,000
546312	Water Rights-10MG	204,002	207,000	207,000	207,000
TOTAL		680,775	698,868	701,966	702,995
	Less: Water Rights - 10MG (100% Arkansas)	(204,002)	(207,000)	(207,000)	(207,000)
		476,773	491,868	494,966	495,995
CAPITAL OUTLAY					
551111	Office Furn & Equipment				
551114	Machinery & Equipment				
551115	Communications				
TOTAL		0	0	0	0
TOTAL BUDGET		1,146,361	1,119,499	1,159,599	1,173,901
100%	Arkansas				1,173,901

TEXARKANA WATER UTILITIES**MILLWOOD WATER TREATMENT PLANT- 420**

<i>Actual</i>	<i>Budget</i>	<i>Revised</i>	<i>Budget</i>
<i>15-16</i>	<i>16-17</i>	<i>16-17</i>	<i>17-18</i>

15-16 Actual Exp not included on budget sheet above:

Accrued Payroll	4,140
Accrued Vacation and Sick	2,791
Accrued Other Building Expense	533
Accrued Electrical	(22,050)
	(14,586)

Reconciliation:

Total Actual Exp Above for 15-16	1,146,361
Additional Expenses for 15-16	(14,586)
	1,131,775
Balance on 2016 True Up Detail (pg 26)	1,131,774
Difference (Rounding)	1

TEXARKANA WATER UTILITIES
MEMBER CITIES BILLING
WRIGHT PATMAN SLUDGE PROCESSING COST
FY 2018 ESTIMATED

Composting Costs:

Compost Division Budget Expenses (580):

Personal Services	173,391
Supplies	9,965
Repairs & Maintenance	131,940
Contractual Services	16,486
Capital Outlays	0
Total Division Expenses	<u>331,782</u>

Other Labor & Benefits (530):

Operator II (1300 Bldg)	35,062
Plant Mechanic I (1/2)	15,349
Total Other Labor	<u>50,411</u>

Benefit Percentage	X	50.25%
Total Benefit Cost		<u>25,332</u>

Total Other Labor & Benefits	<u>75,743</u>
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Total Composting & Other Labor Costs	407,525
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Amount Attributable to Water Treatment

Plant Sludge (TSS):

Wright Patman Solids (Metric Tons)	1,433.060
South Regional Influent Solids (Metric Tons)	<u>1,937.420</u>
Water Treatment TSS Ratio	<u>73.96744%</u>

Total Applicable Compost Costs	301,436
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Sludge Chemical Costs:

Total Cost of Polymer	95,000
Water Treatment TSS Ratio	<u>73.96744%</u>

Total Sludge Chemical Costs	70,269
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Transportation Costs:

200 Site Pumping Costs (Electrical)	104,140
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Amount Attributable to Water Treatment Plant Waste:

Wright Patman Gallons Wasted (Mil Gallons)	315.337
South Regional Influent Flows (Mil Gallons)	<u>2,973.300</u>
Water Treatment Plant Volume Ratio	<u>10.60562%</u>

Total Transportation Costs	11,045
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Total Estimated Sludge Processing Costs Applicable to Water Plant	382,750
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Less Compost Sales:

Total Compost Sales (Estimated)	95,050
Water Treatment TSS Ratio	<u>73.96744%</u>
Sales Applicable to Water Treatment Plant Sludge	(70,306)

Net Sludge Processing Costs Applicable to Water Plant	<u>312,444</u>
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TEXARKANA WATER UTILITIES

Millwood Water Treatment Plant Depreciation Fund

		Actual FY 2016	Proposed FY 2017	Revised FY 2017	Proposed FY 2018
BEGINNING BALANCE		1,170,779	1,357,631	1,418,864	977,650
REVENUE					
Transfer from Revenues		280,967	156,000	156,000	392,500
Interest Income		0	0	0	0
TOTAL REVENUE		280,967	156,000	156,000	392,500
TOTAL FUNDS AVAILABLE		1,451,746	1,513,631	1,574,864	1,370,150
EXPENDITURES					
Paint Bridge Pipework	A/T131702		225,000	0	225,000
Basin Repair	A131604		100,000	0	
Security Enhancement	A/T131605	1,715			
Storage Building	A/T131704		11,500	0	11,500
Replace Chlorinators	A/T131705		50,000	50,000	
Scott SCBA Safety Equip-Emerg Rep	A131518	(113)			
Filter Rehab- Phases IV- VII	A/T131706	10,455	45,000	38,506	
Rebuild HS Pump/ Motor	A/T131707		80,000	0	
Replace Mixed Gas Detector	A/T131612	1,121			
Replace Caustic Pumps/ Drives	A/T131708		40,000	40,000	
Caustic Tank	A/T131614	361		37,112	
Turbidimeters/ PH Meters Emerg Rep	A/T131616	12,679			
Replace Communication Tower	A/T131617	166	40,000	0	
Replace Chlorine Analyzer	A/T131619	3,257			
Concrete Foundation for Caustic Tank	A/T131620	1,191		49,383	
Digital Radios	A/T131709		4,172	4,172	
Replace Ice Maker	A/T131625	2,050			
Chlorine Scales	A/T131710		17,000	13,344	
Chemical Bldg, HVAC Repl	A/T131711		40,000	40,000	
Pipe Galley Repairs	A/T131712		25,000	8,934	
Sludge Pond Cleaning- 2017	A/T131713		100,000	100,000	100,000
Caustic Pumps/Drives	A/T131714		20,000	20,000	
Ultrasonic Raw Meter	A/T131715		5,000	4,058	
Intake Aeration	A/T131716		42,000	42,000	
De-ionized Water System	A/T131717		5,000	5,000	
MW Settling Basin Repairs- 2017	A/T131718			4,705	
MW Concrete Repairs	A/T131719			140,000	
Lawn Tractor					11,000
Replace Valves- Filters 5 & 6					230,000
Replace Gate Actuator					7,000
Repair High Service Pump					80,000
Basin Lining (1)					180,000
TOTAL EXPENDITURES		32,882	849,672	597,214	844,500
ENDING BALANCE		1,418,864	663,959	977,650	525,650
Transfers from Revenue:		62.95%	62.63%	62.63%	62.95%
Arkansas Share		112,358	38,491	38,491	57,798
Additional Contribution-Arkansas		0	0	0	0
Arkansas Total		112,358	38,491	38,491	57,798
Texas Share		168,609	117,509	97,703	98,202
Additional Contribution-Texas		0	0	19,806	236,500
Texas Total		168,609	117,509	117,509	334,702
Total		280,967	156,000	156,000	392,500
Ending Balances:					
Arkansas		964,918	663,199	780,230	525,141
Texas		453,946	760	197,420	509
Total		1,418,864	663,959	977,650	525,650

TEXARKANA WATER UTILITIES

LTWSC Capital Improvement Fund

		Actual FY 2016	Proposed FY 2017	Revised FY 2017	Proposed FY 2018
BEGINNING BALANCE		846,096	707,053	868,382	863,323
REVENUE					
Member Cities		64,742	60,801	60,801	77,383
Transfers from Arkansas		196,996	182,814	182,814	231,925
Transfers from Texas		379,480	306,385	306,385	390,692
Other Transfers from Arkansas		4,000		2,000	
Other Transfers from Texas		116,310		64,742	
Interest Income		1,982	2,296	6,672	6,784
Insurance Proceeds		162,257			
Miscellaneous		5,059		500	500
TOTAL REVENUE		930,826	552,296	623,914	707,284
TOTAL FUNDS AVAILABLE		1,776,922	1,259,349	1,492,296	1,570,607
EXPENDITURES					
Repair Clearwell Tops	L121209	50			
Upgrade SCADA System	L121701	4,000	30,000	2,500	45,000
Rebuild HS Pump	L121602			49,995	
ADA Upgrade to Shop Building	L121702		70,000	0	
Rehab West Basin	L121703		65,000	0	
(3) 1/2 Ton Pickups	L121508	37,112			
Scott SCBA Safety Equip-Emergency Replacement	L121516	113			
Filter Flow Control Upgrade	L121606	17,872			
Flat File Cabinet	L121704		1,600	1,600	
Flammable Cabinet	L121705		1,500	1,500	
8" Gate Valve-NB Pump Station	L121610	2,449			
Rotating Assembly Pump #4- NB Pump Station	L121611	7,979			
Ball Valve/Actuator, 20"- #1 Intake	L121706		68,000	0	68,000
Surface Wash Actuators, 6", #2, #7	L121613	6,356			
Backwash Valves/Actuators, 24", #3, #6, #8	L121614	46,645			
Drain Valves/Actuators, 30", #3, #6, #7	L121615	68,675			
Mixed Gas Detector	L121616	1,121			
Flocculator Chains, Sprockets, Tensioner	L121617	5,201			
Freezer-10C	L121618	1,748			
Filter Media Replacement	L121707		300,000	0	300,000
Low Service #4 Pump Rebuild	L121623	30,804			
(1/2) Ton Pickup	L121625	22,839		3,819	
Repl #3 HS Motor-Aug 2015 Explosion-TML Insur	L121629	26,121			
Repl Electrical Switchgear-Aug 2015 Expl-TML Insur	L121630	377,421			
Repl Broken PTZ Security Camera	L121631	3,365			
Repl #5 HS Motor/Pump	L121632	27,144			
Rebuild #1 HS Motor	L121633	9,996			
Replace Wornout ZTR Mower\Trailer	L121634	11,698			
TCEQ Item: Plant Sludge Line Relocation	L121635	190,065			
PC Replacements-2016	L121636	3,902			
Chlorine Dioxide Analyzer	L121637	3,724			
Digital Radios	L121708	0	5,690	5,690	
Repl Turbidimeter	L121640	1,566			
TCEQ Item: Basin Lining (1 Basin)	L121711		180,000	0	160,000
TCEQ Item: Basin Gates and Weirs	L121709		25,000	25,000	25,000
TCEQ Item: Filter Troughs	L121710		100,000	1,000	300,000
Replace Crew Dually	L121712		45,000	45,000	
DP Cell Calibration Tool	L121713		2,500	0	

TEXARKANA WATER UTILITIES

LTWSC Capital Improvement Fund

		Actual FY 2016	Proposed FY 2017	Revised FY 2017	Proposed FY 2018
Chlorine Scales	L121714		16,000	13,458	
New Boston- Omni Meter	L121715		4,500	4,500	
Replace #4 Drain Valve Actuator	L121716		8,000	8,050	
Replace 2nd Ammonia Pipe Stinger	L121717		7,500	0	7,500
Replace (3) 30" Drain Valves/Actuators	L121718		75,000	75,000	
Replace (4) 24" Backwash Valves/Actuators	L121719		65,000	65,000	
Member City Tank Aerator	L121720		7,500	7,500	
Power Inverter for Electrician Van	L121721		1,600	1,600	
Front Gate Operator	L121722		6,000	5,206	
High Service #5 Pump Bowl	L121723		50,000	0	50,000
Portable Flow Meter	L121724		5,500	5,189	
Rebuild #2 Low Service	L121725		45,000	0	45,000
(2) 6" Surface Wash Valves/Actuator-#5, #6 Filters	L121726		7,000	6,692	
Lab Spectrophotometer	L121727		4,300	4,174	
PC Replacements-2017	L121728		4,000	4,000	
Member Cities Ground Storage Tank Repairs (6)	L121731	574	0	200,000	
Settling Basin Repairs	L121732		0	15,000	
Replace MC Line Segment @ Hooks	L121733		0	5,000	200,000
Sodium Chlorite Tank	L121734		0	18,000	
Sludge Rake Emergency Repair	L121735		0	32,000	
Wire Welder	L121736		0	2,500	
Lab/Filter Building Flooring	L121737		0	20,000	
1/2 Ton Crew Truck					34,500
Filter Effluent Valve Position/Filter Head Gauges					45,000
Chlorine Dioxide Scales					20,000
Raw Water Valve Actuator					20,000
Filter Effluent Valve and Mag Meter					30,000
High Service Pump/Motor Repair					90,000
Filter Control for #3, #5, #6 & #7 Filters					45,000
Settled Water Mixing Chamber					30,000
TOTAL EXPENDITURES		908,540	1,201,190	628,973	1,515,000
ENDING BALANCE		868,382	58,159	863,323	55,607

TREATED WATER BY PLANT (000's)
FYE 9/30/17

	<u>Wright Patman</u>	<u>Millwood</u>	<u>Total</u>
AUG 2016	345,219	209,284	554,503
SEPT 2016	430,717	169,932	600,649
OCT 2016	411,064	110,954	522,018
NOV 2016	373,388	98,810	472,198
DEC 2016	100,452	312,728	413,180
JAN 2017	49,133	349,409	398,542
FEB 2017	90,862	245,591	336,453
MAR 2017	286,272	102,766	389,038
APR 2017	386,924	73	386,997
MAY 2017	441,776	972	442,748
JUNE 2017	410,670	80,775	491,445
JULY 2017	418,775	106,739	525,514
Total Est Gal for FY17	<u>3,745,252</u>	<u>1,788,033</u>	<u>5,533,285</u>

Millwood Plant Usage:

Estimated FY17 for FY18	32.31%	<i>(MW Basin Repairs in April and May)</i>
Prior Year (FY16) Actual	41.00%	

FY17 Estimated Consumption (1000 Gallons)
Oct 2016- Jul 2017 (with Aug- Sept 2017 Estimated)

	Estimated based on Aug & Sept 2016							% OF TOTAL
	FEB/							
	AUG		SEP		MAR/			
OCT/ APR	NOV/ MAY	DEC/ JUN	JAN/ JUL	FEB/ AUG	SEP	YTD		
Oak Grove, TX	2031.140 1719.690	1922.040 2041.680	2138.300 2200.540	1732.880 2264.840	1721.090 2176.800	2031.060 2258.500	24238.560	0.4381%
Redwater, TX	11227.250 8833.650	9666.000 9961.450	11304.600 11641.850	9488.850 12253.100	8458.800 10849.700	9718.200 6101.460	119504.910	2.1597%
Central Bowie County	19083.670 14627.790	18158.740 15973.450	17962.540 21048.690	15046.560 23120.560	14130.120 18673.450	14445.110 19973.510	212244.190	3.8358%
Nash, TX	7655.000 6082.000	8086.000 7799.000	8403.000 7587.000	6779.000 8032.000	6361.000 8610.000	7983.000 8362.000	91739.000	1.6579%
Macedonia Eyllau	14412.789 16409.354	14313.310 13504.225	16019.060 15274.520	13934.286 14964.489	13893.652 14856.016	13421.051 15679.259	176682.011	3.1931%
Red River County	2344.320 2485.480	1078.240 2481.750	499.980 3086.410	1723.860 948.310	1380.660 2133.800	2516.120 3101.240	23780.170	0.4298%
Day & Zimmerman	646.900 417.100	605.700 529.700	1638.600 372.900	1543.700 625.000	904.900 588.800	629.200 518.100	9020.600	0.1630%
Leary, TX	1371.490 1438.070	1381.370 1367.690	1361.860 1678.900	1160.050 1640.750	1115.700 1494.750	1351.220 1651.780	17013.630	0.3075%
Mandeville, AR	2589.841 1865.183	2405.347 2041.379	2169.545 2979.600	2226.198 2015.539	1749.635 2625.148	1908.994 3975.039	28551.448	0.5160%
Union Water	8132.149 6988.403	7474.588 7593.698	7346.384 8160.857	7149.992 9536.519	6384.180 8975.787	7504.194 11776.738	97023.489	1.7535%
MCPWA	3015.000 2010.000	2390.000 1830.000	2345.000 3410.000	2710.000 2900.000	3595.000 3735.000	3845.000 2460.000	34245.000	0.6189%
Total Wholesale	72509.549 62876.720	67481.335 55124.022	71188.869 77441.267	63495.376 78301.107	59694.737 74719.251	65353.149 75857.626	834043.008	
New Boston, TX	33604.194 34663.270	33479.030 34524.694	30959.204 39988.591	31319.147 36061.671	29582.604 34170.549	31151.040 29245.522	398749.516	7.2064%
Hooks, TX	14457.800 11997.100	14115.800 12149.600	15262.700 13732.900	12092.700 12871.400	11159.600 15579.600	11715.100 15710.300	160844.600	2.9069%
DeKalb, TX	6091.000 5217.000	5727.000 6392.000	6613.000 6221.000	5655.000 6291.000	4431.000 7138.000	4978.000 6758.000	71512.000	1.2924%
Wake Village, TX	15463.000 10731.000	12919.000 12973.000	13367.000 15950.000	10534.000 15360.000	10242.000 15799.000	12127.000 16693.000	162158.000	2.9306%
Maud, TX	3705.000 2667.000	3559.000 3163.000	4641.000 3674.000	2661.000 3956.000	2547.000 4357.000	3090.000 3770.000	41790.000	0.7552%
Avery, TX	1948.900 1865.400	1779.600 2056.600	2400.600 2180.300	1870.500 1680.500	1567.700 2171.600	1724.200 2180.300	23426.200	0.4234%
Annona, TX	664.725 520.604	722.770 440.439	712.724 653.434	519.400 808.666	472.973 1018.264	626.843 601.017	7761.859	0.1403%

FY17 Estimated Consumption (1000 Gallons)
Oct 2016- Jul 2017 (with Aug- Sept 2017 Estimated)

	Estimated based on Aug & Sept 2016							% OF TOTAL
	OCT/ APR	NOV/ MAY	DEC/ JUN	JAN/ JUL	FEB/ AUG	MAR/ SEP	YTD	
RWRD	31888.610 19051.190	27376.000 23516.880	27401.570 28041.780	27281.770 34827.060	22197.520 23159.520	24996.620 20002.780	309741.300	5.5978%
Total Member Cities & RWRD	107823.229 86712.564	99678.200 95216.213	101357.798 110442.005	91933.517 111856.297	82200.397 103393.533	90408.803 94960.919	1175983.475	
Total Wholesale, Member Cities & RWRD	180332.778 149589.284	167159.535 160340.235	172546.667 187883.272	155428.893 190157.404	141895.134 178112.784	155761.952 170818.545	2010026.483	
Texarkana, AR	126580.089 89033.804	108809.976 104560.975	85722.400 119166.073	94429.987 129239.431	71472.735 132173.841	90767.716 149724.096	1301681.123	23.5246%
Texarkana, TX	215105.133 148373.912	196228.489 177846.790	154910.933 184395.655	148683.120 206117.165	123085.131 244216.375	142508.332 280106.359	2221577.394	40.1493%
Total Texarkana	341685.222 237407.716	305038.465 282407.765	240633.333 303561.728	243113.107 335356.596	194557.866 376390.216	233276.048 429830.455	3523258.517	
Total All	522018.000 386997.000	472198.000 442748.000	413180.000 491445.000	398542.000 525514.000	336453.000 554503.000	389038.000 600649.000	5533285.000	100.0002%

City of Texarkana, Texas
Proposed Water Production Rate By Plant
9/30/2018

	<u>Division 410</u>	<u>Sludge-WP</u>	<u>Total LWP</u>	<u>Division 420</u>	<u>Sludge-MW</u>	<u>Total MW</u>	<u>Total Blended</u>
<u>EXPENDITURES</u>							
Personnel Services	1,317,571		1,317,571	302,699		302,699	1,620,270
Supplies	887,600		887,600	279,625		279,625	1,167,225
Repairs & Maintenance	231,749		231,749	95,582		95,582	327,331
Contractual Services	628,409		628,409	495,995		495,995	1,124,404
Subtotal	3,065,329	-	3,065,329	1,173,901	-	1,173,901	4,239,230
Sludge Costs	-	301,436	301,436		100,000	100,000	401,436
Sludge Chemical/Transp Cost		81,314	81,314		-	-	81,314
Composting Revenue	-	(70,306)	(70,306)	-	-	-	(70,306)
Subtotal	-	312,444	312,444	-	100,000	100,000	412,444
Administration Costs 6.04%	185,146	18,872	204,017	70,904	6,040	76,944	280,961
Total Water Production Cost	3,250,475	331,316	3,581,790	1,244,805	106,040	1,350,845	4,932,635
Estimated Gallons By Plant			3,745,252			1,788,033	5,533,285
Estimated Cost Per 1,000 Gal			0.9564			0.7555	0.8914
			LWP			MW	Total

City of Texarkana, Texas
Proposed Water Production Rate
9/30/2018

Water Production (both lakes)	Amount As Budgeted 2018
Total Gallons	5,533,285 (in thousands)
* Total Cost	4,932,635
Water Rate	0.8914 (per thousand)
<i>Prior Year Water Rate</i>	<i>0.8109</i>

The total costs include the following four components of the Texarkana Water Department:

- 1) Wright Patman (410)
- 2) Millwood (420)
- 3) Sludge Processing - LWP and \$100,000.00 for Millwood
- 4) Administrative Overhead - not to exceed 5% of the sum of 1, 2 and 3 as listed above

City of Texarkana, Texas

Proposed Water Production Rate By City

9/30/2018

Water Rate Calculation					
ANNUAL				MONTHLY	
	(in thousands) 2018 Budgeted Gallons as Estimated by the Water Department	Budgeted Cost Total as Estimated by the Water Department	Estimated 2018 Water Rate	Monthly Billing - Water Cost Only	Monthly Gallons
					(in thousands)
New Boston	398,750	355,464	0.8914	29,622	33,229
Hooks	160,845	143,385	0.8914	11,949	13,404
Dekalb	71,512	63,749	0.8914	5,312	5,959
Wake Village	162,158	144,555	0.8914	12,046	13,513
Maud	41,790	37,254	0.8914	3,104	3,483
Avery	23,426	20,883	0.8914	1,740	1,952
Annona	7,762	6,919	0.8914	577	647
Total	866,242	772,210	0.8914	64,351	72,186
Texarkana, AR	1,461,501	1,302,852	0.8914	108,571	121,792
Texarkana, TX	2,895,800	2,581,455	0.8914	215,121	241,317
RWRD	309,741	276,118	0.8914	23,010	25,812
Total	4,667,043	4,160,425	0.8914	346,702	388,920
Total All Cities	5,533,285	4,932,635	0.8914	411,053	461,106

Cost is defined as water production cost of LWP and Millwood lakes.
Gallons above are total gallons from both lakes.

City of Texarkana, Texas
Proposed Infrastructure Rate
9/30/2018

Member Cities	Original Ownership %	Revised Ownership %	Annual	Monthly
New Boston	3.572227%	3.572227%	25,005.59	2,083.80
Hooks	2.275268%	2.275268%	15,926.88	1,327.24
DeKalb	2.143895%	2.143895%	15,007.27	1,250.61
Wake Village	1.632379%	1.632379%	11,426.65	952.22
Maud	1.123658%	1.123658%	7,865.61	655.47
* Avery	0.419275%			
Annona	0.307469%	0.307469%	2,152.28	179.36
Total Member Cities	11.474171%	11.054896%	77,384.27	6,448.70
Texarkana				
Texarkana, AR	32.792567%	32.792567%	229,547.97	19,129.00
Texarkana, TX	55.733262%	56.152537%	393,067.76	32,755.65
Total Texarkana	88.525829%	88.945104%	622,615.73	51,884.65
Grand Total	100.000000%	100.000000%	700,000.00	58,333.35

Contribution Required for 2018 for projects in the LTWSC Capital Improvement Fund = \$700,000

City of Texarkana, Texas
Proposed Debt Service Rate
Highway 82 Widening Project
9/30/2018

Member Cities	Allocation of Tex, AR			
	Original Ownership %	Revised Ownership %	Ownership % to Participating Cities	Monthly
			Annual	
New Boston	3.572227%	3.572227%	5.315226%	8,814.61
Hooks	2.275268%	2.275268%	3.385441%	5,614.31
DeKalb	2.143895%	2.143895%	3.189967%	5,290.15
Wake Village	1.632379%	1.632379%	2.428867%	4,027.96
Maud	1.123658%	1.123658%	1.671925%	2,772.67
###	0.419275%			
Avery				
Annona	0.307469%	0.307469%	0.457493%	758.69
				63.22
Total Member Cities	11.474171%	11.054896%	16.448919%	27,278.39
Texarkana				
*** Texarkana, AR	32.792567%			
Texarkana, TX	55.733262%	56.152537%	83.551081%	138,558.61
				11,546.55
Total Texarkana	88.525829%	56.152537%	83.551081%	138,558.61
Grand Total	100.000000%	67.207433%	100.000000%	165,837.00
				13,819.75

Debt Service Requirement for 2018 = \$165,837

*** Texarkana, Arkansas has not claimed their ownership interest in the Highway 82 water line

Texarkana, TX took control of Avery's ownership interest

TEXARKANA WATER UTILITIES

WRIGHT PATMAN AND MILLWOOD WATER TREATMENT OPERATING EXPENSES - ACTUAL (Audited)

For the Year Ended September 30, 2016

	<u>Wright Patman</u>	<u>Millwood</u>	<u>Total</u>	
Personal Services:				From Audited TB for Div 410 & 420
Management	23,381	24,423	47,804	
Supervision	129,932	24,182	154,114	
Maintenance & Operations	498,176	169,380	667,556	
Overtime	83,846	44,997	128,843	
Standby	0	0	0	
Shift Differential	6,528	1,589	8,117	
Pay Out-Annual Leave	435	0	435	
Pay Out-Sick Leave	0	0	0	
Pay Out-Comp Time	0	0	0	
Pay Out-Post Retirement Insurance	709	0	709	
Temporary Labor	5,601	310	5,911	
Accrued Payroll	6,500	4,140	10,640	
Longevity	6,567	5,487	12,054	
Group Insurance	114,447	35,013	149,460	
Accrued Vacation & Sick Leave	6,242	2,791	9,033	
Retirement	120,751	43,260	164,011	
Social Security	55,473	20,043	75,516	
Workmen's Compensation	17,842	3,034	20,876	
Unemployment	0	0	0	
Employee Screening	5	0	5	
Incentive	708	0	708	
Education & Training	13,114	560	13,674	
Salary & Benefit Transfers Out	0	0	0	
Total Personal Services	1,090,257	379,210	1,469,467	
Supplies:				
Office Supplies & Expenses	1,629	159	1,787	
Operating Supplies	7,387	2,710	10,097	
Botanical Supplies	0	11	11	
Safety	8,398	3,801	12,199	
Minor Tools	5,920	889	6,808	
Wearing Apparel	6,332	1,702	8,034	
Laundry & Janitorial	2,635	2,365	5,000	
Lab & Photo Supplies	26,322	4,280	30,602	
Printing	1,050	0	1,050	
Chemicals-Plant	576,668	208,848	785,516	
Chemicals-Lake	2,399	0	2,399	
Total Supplies	638,740	224,765	863,504	
Repairs & Maintenance:				
Office Machines & Equipment	75	0	75	
Motor Vehicles	21,656	648	22,305	
Machinery & Equipment	5,987	16,302	22,289	
Signal Equipment	1,421	207	1,627	
Buildings	3,003	3,061	6,064	
Water Treatment Equipment	88,905	48,807	137,712	
Water Transmission Mains	9,567	0	9,567	
Tanks & Reservoirs	21,071	4,052	25,123	
Sewer Instruments	0	0	0	
Sludge Pond Maintenance	0	0	0	
Equipment Utilization	0	0	0	
Equipment Apportionment	(5,490)	0	(5,490)	
Total Repairs & Maintenance	146,195	73,076	219,271	
Contractual Services:				
Accounting & Audit	1,950	1,170	3,121	
Communications	11,804	8,552	20,356	
Rentals	2,413	684	3,097	
Fees & Permits	35,484	42,992	78,476	
Freight Charges	0	0	0	
Refuse Hauling	2,077	0	2,077	
Insurance	38,807	13,289	52,097	
Laboratory Services	6,885	574	7,459	
Legal Advertising	0	0	0	
Maintenance Contracts	3,324	371	3,695	
Postage	1,115	60	1,175	
Power Purchases	278,534	232,076	510,610	
Power Purchases-Lake	180,521	0	180,521	
Special Services	138	8	145	
Water Rights	613	154,947	155,560	
Total Contractual Services	563,666	454,723	1,018,389	
Rounding	0	0	0	
Subtotals	2,438,858	1,131,774	3,570,632	Reconciled to Audited TB
Sludge Processing	153,318	0	153,318	Sludge Actual 2016
Total Operating Expenses	2,592,176	1,131,774	3,723,950	
Administrative Overhead	129,609	56,589	186,198	5% Admin
Total Operating Expenses With Overhead	2,721,785	1,188,363	3,910,148	
Total Gallons of Water Sold - All (Consumption Report)	3,317,406,000	2,305,738,000	5,623,144,000	
Actual Cost per 1,000 Gallons (Total Op Exp wOH / Total Gals)	0.8204559	0.5153936	0.6953668	

TEXARKANA WATER UTILITIES
MEMBER CITIES BILLING
WRIGHT PATMAN SLUDGE PROCESSING COST
FY 2016 ACTUAL

Composting Costs:

Compost Division Budget Expenses (580):

Personal Services	153,677
Supplies	6,477
Repairs & Maintenance	82,889
Contractual Services	15,986
Capital Outlays	0
Total Division Expenses	<u>259,028</u>

Other Labor & Benefits (530):

Operator II (1300 Bldg)	34,041
Plant Mechanic I (1/2)	15,150
Total Other Labor	<u>49,191</u>

Benefit Percentage	X	55.50%
Total Benefit Cost		<u>27,301</u>

Total Other Labor & Benefits	<u>76,492</u>
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Total Composting & Other Labor Costs	335,520
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Amount Attributable to Water Treatment

Plant Sludge (TSS):

Wright Patman Solids (Metric Tons)	849.510
South Regional Influent Solids (Metric Tons)	<u>1,931.370</u>
Water Treatment TSS Ratio	<u>43.98484%</u>

Total Applicable Compost Costs	147,578
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Sludge Chemical Costs:

Total Cost of Polymer	95,088
Water Treatment TSS Ratio	<u>43.98484%</u>

Total Sludge Chemical Costs	41,824
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Transportation Costs:

200 Site Pumping Costs (Electrical)	104,140
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Amount Attributable to Water Treatment Plant Waste:

Wright Patman Gallons Wasted (Mil Gallons)	214.026
South Regional Influent Flows (Mil Gallons)	<u>3,683.200</u>
Water Treatment Plant Volume Ratio	<u>5.81087%</u>

Total Transportation Costs	6,051
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Total Estimated Sludge Processing Costs Applicable to Water Plant	195,453
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Less Compost Sales:

Total Compost Sales	95,795
Water Treatment TSS Ratio	<u>43.98484%</u>
Sales Applicable to Water Treatment Plant Sludge	(42,135)

Net Sludge Processing Costs Applicable to Water Plant	<u>153,318</u>
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TEXARKANA WATER UTILITIES

WRIGHT PATMAN AND MILLWOOD WATER TREATMENT OPERATING EXPENSES - ACTUAL (Audited)

For the Year Ended September 30, 2016

Wright Patman Millwood Total
TRUE-UP ADJUSTMENT CALCULATION

	Fiscal Year 2016 Billing					
	2016 Water	2016 Infrastructure	2016 Debt Service	2014 True Up	FY 2016 Annual	FY 2016 Monthly
New Boston	276,686	20,921	8,713	(74,864)	231,456	19,288
Hooks	109,368	13,325	5,550	(14,682)	113,561	9,463
DeKalb	59,854	12,556	5,229	(10,487)	67,152	5,596
Wake Village	133,327	9,560	3,982	(18,091)	128,778	10,732
Maud	38,792	6,581	2,741	(4,373)	43,741	3,645
Avery	18,118	-	-	(1,981)	16,137	1,345
Annona	5,718	1,801	750	(2,743)	5,526	461
RWRD	214,457	-	-	(52,572)	161,885	13,490
	\$856,320	\$64,744	\$26,965	(\$179,793)	\$768,236	\$64,020

	Fiscal Year 2016 True Up Calculation							
	Budgeted Gal (000's)	Budgeted Amt	Budgeted Rate	Actual Gal (000's)	Actual Amt	Actual Rate	Annual True Up	Monthly True Up
New Boston	346,447	276,686	0.798600	364,592	253,525	0.6953668	(23,161)	(1,930.06)
Hooks	136,944	109,368	0.798600	173,325	120,524	0.6953668	11,156	929.70
DeKalb	74,945	59,854	0.798600	73,063	50,806	0.6953668	(9,048)	(754.03)
Wake Village	166,943	133,327	0.798600	168,670	117,288	0.6953668	(16,039)	(1,336.62)
Maud	48,573	38,792	0.798600	42,719	29,705	0.6953668	(9,087)	(757.22)
Avery	22,686	18,118	0.798600	19,374	13,472	0.6953668	(4,646)	(387.17)
Annona	7,159	5,718	0.798600	8,733	6,072	0.6953668	354	29.53
RWRD	268,529	214,457	0.798600	318,769	221,662	0.6953668	7,205	600.38
Total	1,072,226	\$856,320		1,169,245	\$813,054		(\$43,266)	(\$3,605)

City of Texarkana, Texas
Proposed Water Cost Recap
9/30/2018

	2018 Annual Cost				2017 Annual Cost	Increase/ (Decrease)
	Water	Infrastructure	Debt Service	2016 True Up	Total	
New Boston	355,464	25,006	8,815	(23,161)	366,124	63,316
Hooks	143,385	15,927	5,614	11,156	176,082	11,958
DeKalb	63,749	15,007	5,290	(9,048)	74,998	(5,270)
Wake Village	144,555	11,427	4,028	(16,039)	143,971	(15,893)
Maud	37,254	7,866	2,773	(9,087)	38,805	(7,023)
Avery	20,883	-	-	(4,646)	16,237	6,445
Annona	6,919	2,152	759	354	10,185	1,569
Texarkana, AR	1,302,852	229,548	-	-	1,532,400	-
Texarkana, TX	2,581,455	393,068	138,559	-	3,113,082	-
RWRD	276,118	-	-	7,205	283,323	-
	\$ 4,932,635	\$ 700,000	\$ 165,837	\$ (43,266)	\$ 5,755,206	18,327
					\$ 1,036,296	\$ 73,429

	2018 Monthly Cost				2017 Monthly Cost	Increase/ (Decrease)
	Water	Infrastructure	Debt Service	2016 True Up	Total	
New Boston	29,622	2,084	735	(1,930)	30,510	5,276
Hooks	11,949	1,327	468	930	14,674	997
DeKalb	5,312	1,251	441	(754)	6,250	(439)
Wake Village	12,046	952	336	(1,337)	11,998	(1,324)
Maud	3,104	655	231	(757)	3,234	(585)
Avery	1,740	-	-	(387)	1,353	537
Annona	577	179	63	30	718	131
Texarkana, AR	108,571	19,129	-	-	127,700	-
Texarkana, TX	215,121	32,756	11,547	-	259,423	-
RWRD	23,010	-	-	600	23,610	-
	\$ 411,053	\$ 58,333	\$ 13,820	\$ (3,605)	\$ 479,601	1,527
					\$ 86,358	\$ 6,119

City of Texarkana, Texas
Accounts Receivable Status
9/30/2018

Entity	AR Balance	Penalty	Monthly Interest	Total
City of DeKalb	301.05	-	0.5%	\$ 301.05

**Balance consists of penalties unpaid to Texarkana, Texas