STATE OF TEXAS COUNTY OF DENTON CITY OF CORINTH

On this the 17th day of August 2017 the City Council of the City of Corinth, Texas met in a Workshop Session at the Corinth City Hall at 5:30 P.M., located at 3300 Corinth Parkway, Corinth, Texas. The meeting date, time, place and purpose as required by Title 5, Subtitle A, Chapter 551, Subchapter C, Section 551.041, Government Code, with the following members to wit:

Members Present:

Bill Heidemann, Mayor Joe Harrison, Mayor Pro-Tem Sam Burke, Council Member Lowell Johnson, Council Member Don Glockel, Council Member Scott Garber, Council Member

Staff Members Present:

Bob Hart, City Manager
Fred Gibbs, Planning and Development Director
Lee Ann Bunselmeyer, Finance Director
Chris Rodriquez, Finance Manager
Angie Watson, Utility Billing Supervisor
Cody Collier, Public Works Director
Kim Pence, City Secretary
Shea Rodgers, Technology Services Manager
Mike Brownlee, City Engineer
Barbara Cubbage, Planning Manager

Others Present:

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C

CALL TO ORDER:

Mayor Heidemann called the meeting to order at 5:30 p.m.

BUSINESS AGENDA

 Receive a report, hold a discussion, and provide staff direction on the Fiscal Year 2017-2018 Annual Program of Services and Capital Improvement Program.

Bob Hart, City Manager - presented the annual budget overview. The following funds were discussed

- Utility Fund Overview
- Storm Drainage Fund Overview
- Capital Improvement Program
- Utility Rates

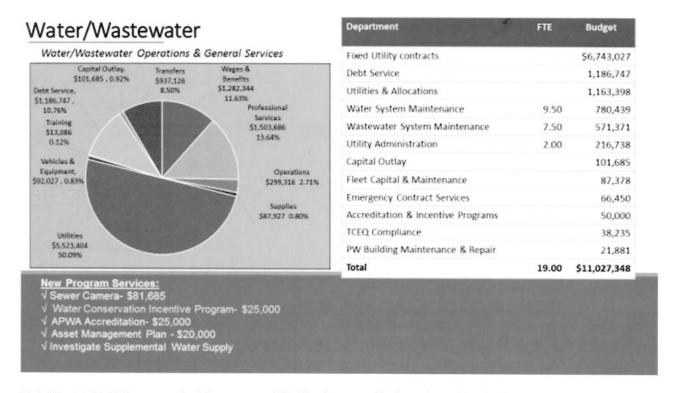


Annual Budget Overview

Utility Fund

- Water/Wastewater
- Engineering
- Utility Billing
- Garbage
- · Debt Service





Bob Hart, City Manager - the biggest part of this is when we talk about these fixed utility contracts and that is the Upper Trinity contract. We contract to buy from them our peak use of 7.5 million gallons of water a day and that is what we pay.

We are recommending that we get a replacement camera for the sewer system so we can look for breaks etc. as part of the maintenance program. One of the on-going items to look at is creating a conservation incentive program and when we begin to look at some of the rates that will help as to why.

The APWA Accreditation and Asset Management Plan are mainly through the Public Works Department some are in Public Works and some are in the Utility Funds.

We also have in here to spend some staff time trying to investigate Supplemental water supply. As we go through the rates we can discuss that.

Councilmember Glockel - what do the fixed utility contracts represent?

Bob Hart, City Manager - the bulk of it is in the Utilities which is the Upper Trinity Regional Authority.

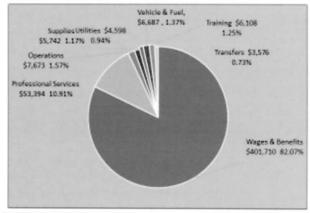
Lee Ann Bunselmeyer, Finance Director - your charges for the water and treatment of the wastewater is over in utilities and the administrative fees that go to Upper Trinity are under the Professional Services category. You are also paying utilities for some of your lift stations, and electric so that is mixed in there as well.

Councilmember Harrison - what does the Investigate the supplemental water supply entail?

Bob Hart, City Manager - it would be going back and having some conversations with the North Texas Groundwater District about the idea of forming some well for supplemental water. Having some conversations with the City of Denton about buying some water. When you start to investigate there could be other things that come up. But it would be exploring that kind of data.

We have to figure out some ways to keep from going over that 7.5 million gallon subscription we have right now with the Upper Trinity Regional Water District. We need to look at a whole range of ways to do that. Partly would be with conservation and partly would be with additional water supply.

Engineering



Department	FTE	Budget
Private Development Engineering	1.00	178,978
Capital Construction Inspections	2.00	164,972
Capital Project Management	1.00	127,283
Utilities & Allocations		11,568
Fleet Capital & Maintenance		6,687
Total	4.00	\$489,488

New Program Services:
√ Integrated Storm Water Management

Bob Hart, City Manager - this is placed in the Utility Fund and about half the cost is allocated to the Utility Fund and half the cost is covered by the General Fund. The General Fund pays for these services.

Mayor Heidemann - what is the Capital Project Management?

Bob Hart, City Manager - that is a staff person that does a lot of the coordination of the projects.

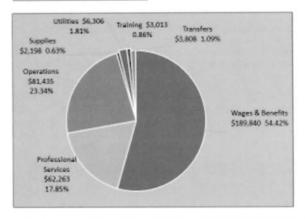
Mayor Heidemann - in the engineering, you have one person here at \$178,978?

Lee Ann Bunselmeyer, Finance Director - no, that is salaries plus some project money for surveys, studies, supply costs and various things. Those are not just salaries those are administrative costs to handle their engineering function.

Councilmember Glockel - I would like to see wages broken out. What really are wages and what is really benefits and if it is something extra to buy widgets with put a wedge over here for widgets but don't combine them so that we can figure out how these numbers are projected up here.

Bob Hart, City Manager - we have a slide coming up that will give a breakdown of wages and benefits.

Utility Billing



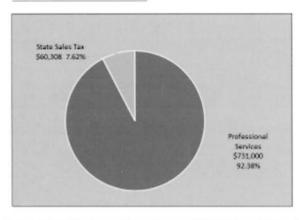
Department	FTE	Budget
Customer Service & Payment Processing	2.00	121,509
Utility Billing Administration	1.00	115,734
Meter Reading & Billing		60,547
Utilities & Allocations		51,073
Total	3.00	\$348,863

New Program Services:
√ Participate with NCTCOG on Shared Service Analysis
√ Consider change to billing statement to separate Upper Trinity rates from City rates

Bob Hart, City Manager - North Central Texas Council of Government (NCTCOG) is looking at doing some shared services. The trick is how do you get all the data, how you get it to customers so they can make meaning use of it. They are trying to put together some cities to help deal with some of that. I told them we are interested in participating however I have no idea what all that entails at this point.

The other program is going ahead and separating the Upper Trinity portion from the City portion on the billing statement.

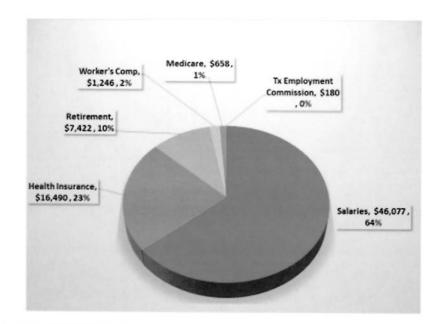
Garbage



Department	FTE	Budget
Solid Waste & Recycle Collection		\$791,308
Total		\$791,308

New Program Services:
√ Investigate multi-family recycling and business paper recycling

Bob Hart, City Manager - we contract with CWD and this is the sales tax we pay to the state. There is not an increase for CWD. We vote on it every year and until you vote on it we won't put it in there. This is an outside contract that they will bring to you and the Council will vote on whether to do it or not.



26 FTE

Total Wages & Benefits \$1,873,894

Average Wages & Benefits \$72,073

Utility Fund Wages & Benefits Analysis

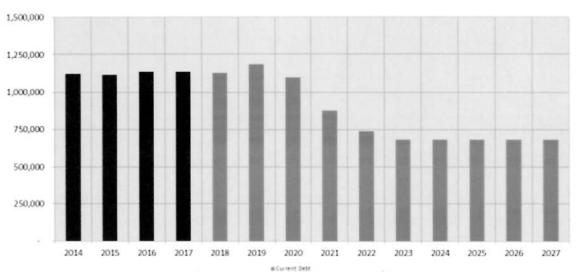
Bob Hart, City Manager - this is based on 26 people in the utility department. 64% goes to salaries and the other 36% deals with other costs.

Councilmember Burke - this is what I asked Lee Ann Bunselmeyer to do because we had citizens saying we are paying these people \$72,000 a year for an employee. I wanted to be able to show people the \$72,000 in cost for the employee is not \$72,000 in wages. It is a lot less. It is \$46,000 and the rest of that is health insurance and retirement.

Councilmember Glockel - tell me what a benefit is? What is included in a benefit? Everything on this pie chart and only on this pie chart?

Lee Ann Bunselmeyer, Finance Director - we probably should not have grouped them. What you have in your benefit is you have salaries, overtime, and longevity. Those 3 components actually go to the employee. Insurance, which is your health insurance, dental insurance, and life and disability insurance. In your retirement you have TMRS, and the 401A. Under Medicare, that is your EAP, FSA, and Medicare cost.

FY 2017-2018 Debt Service Payment = \$1,186,747

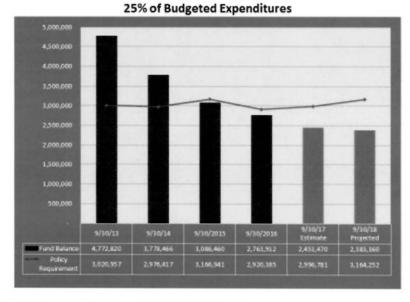


Average Debt Service Payment from 2018-2027= \$799,492

Utility Fund Total Outstanding Debt As of October 1, 2017 = \$7,994,916

Utility Fund Debt Analysis

WATER/WASTEWATER FUND



In December 2012, the City Council adopted a Fund Balance Policy. The policy established the City's goal to achieve and maintain an unassigned fund balance in the Water/Wastewater Fund equal to 25% of expenditures.

Appropriation from the minimum assigned fund balance requires the approval of the Council and may only be utilized for one-time expenditures, such as capital purchases and not for ongoing expenditures.

Fund Balance Historical Analysis

Bob Hart, City Manager - at the end of FY 2013 we were well within the 25% policy and we have been running a little short since 2015.

Councilmember Garber - the revenues are down because of the wet years plus we are at the tail end of the 3 year cycle where it was planned to be low anyway. Those are the reasons why we are looking at the deficit not necessarily there was failure to manage those 3 years.

Bob Hart, City Manager - we built the system thinking we are going to peak at about 7.5 million gallons a day. This year we are peaking at about 5 million gallons a day which also explains the shortage. This is mainly because of the wet years. When we put together the draft budget recommendation it is for a 1 year rate increase only. We are not trying to

look at a 3 year rate. What that does is help mitigate the rate of the increase and you would have to come back next year and talk about another rate increase under this scenario.

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - the original proposal that we had presented was an average for 3 year period. The new recommendation is to not average over 3 years and adopt the first year and the second year we will adopt and so on instead of one hit for 3 years.

Councilmember Burke - so relatively speaking when everybody freaked out, we lowered the amount of the rate increase just for 1 year so we can buffer over 3 and that is what ended up in the budget and not the whole proposal that we initially said.

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - correct. This is a 1 year rate increase so additional fractions could be made next year should your fund balance deteriorate further in the projected or you have additional capital projects that come up beyond what you have sitting in your funding capacity.

Councilmember Harrison - so what we are looking at is a 1 year rate? If come January or February we get no water the utility use is going to go up so our revenues will go up and then we will collect more than what we budgeted correct? We are going to have to redo the rates if we are over?

Bob Hart, City Manager - yes. When we get into the rates, I want to talk about this underlining philosophy about how we do rates because there are ways to mitigate that.

	2016-17 Projected Actuals	2017-18 Proposed	2018-19 Projected	2019-20 Projected	2020-21 Projected
Water Charges	5,839,810	7,758,303	7,758,303	7,758,303	7,758,303
Wastewater Charges	4,306,237	3,288,209	3,288,209	3,288,209	3,288,209
Garbage	786,740	796,000	796,160	796,322	796,485
Charges & Fees	420,600	333,000	336,330	339,693	343,090
Interest Income	9,500	7,500	7,575	7,651	7,727
Miscellaneous Income	70,869	72,300	73,023	73,754	74,491
Transfers	240,924	335,385	342,092	348.933	355,911
Total Resources	11,674,680	12,590,697	12,601,692	12,612,865	12,624,216
Wages & Benefits Maintenance & Operations Debt Payment One-Time Expenditures	1,640,373 9,145,820 1,034,880 166,049	1,873,894 9,494,681 1,186,747 101,685	1,917,205 9,889,401 1,097,751	1,960,056 10,241,727 875,793	2,002,908 10,633,119 740,499
Total Expenditures	11,987,122	12,657,007	12,904,357	13,077,576	13,376,526
Net Income	(312,442)	(66,310)	(302,665)	(464,711)	(752,310)
Ending Fund Balance	2,451,470	2,385,160	2,082,495	1,617,784	865,474
Fund Requirement - 25%	2,996,781	3,164,252	3,226,089	3,269,394	3,344,132
Effective Fund Balance	20.45%	18.84%	16.14%	12.37%	6.47%

Utility Long Range Forecast

Bob Hart, City Manager - if we maintain this 1 year rate and we continue the increases with Upper Trinity Regional Water District you can see how it is projected to decline over the future years. The other issue that is out there is it does not include a substance for capital improvements. We know we are going to have to deal with some elevated storage issues so that has to be built in the rate base as well.

Councilmember Glockel - under transfer, where did that \$240, 924 come from?

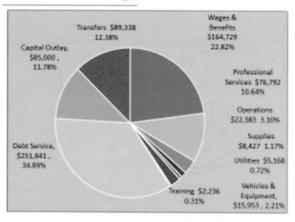
Bob Hart, City Manager - this would be a transfer from the general fund for the engineering. The general fund pays for one inspector, they pay a pro rata share for the engineer and the clerk.

Storm Drainage Fund

- Storm Drainage
- **Debt Service**



Storm Drainage



Department	FTE	Budget
Drainage Debt Service		\$251,841
Storm Water Maintenance	3.00	195,516
Utilities & Allocations		98,061
Drainage Capital Outlay		85,000
Mosquito Abatement		35,000
Structural Maintenance		28,287
Fleet Capital & Maintenance		15,953
TCEQ Best Mgt. Practices		12,209
Total	3.00	\$721,867

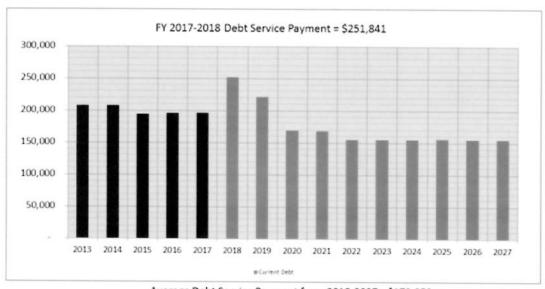
- New Program Services:

 √ Meadows/Shady Shores intersection drainage \$75,000

 √ Asset Management Plan \$5,000

 √ Lynchburg Drainage Concept Plan \$5,000

Bob Hart, City Manager - we covered the program areas in Public Works earlier.

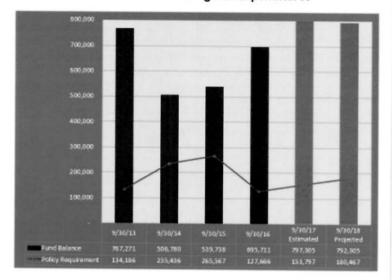


Average Debt Service Payment from 2018-2027= \$173,953 Storm Drainage Total Outstanding Debt as of October 1, 2017 = \$1,739,533

Storm Drainage Debt Analysis

STORM DRAINAGE FUND

25% of Budgeted Expenditures



In December 2012, the City Council adopted a Fund Balance Policy. The policy established the City's goal to achieve and maintain an unassigned fund balance in the Storm Drainage Fund equal to 25% of expenditures.

Appropriation from the minimum assigned fund balance requires the approval of the Council and may only be utilized for one-time expenditures, such as capital purchases and not for ongoing expenditures.

Fund Balance Historical Analysis

	P	2016-17 rojected Actuals	2017-18 Proposed	2018-19 Projected	2019-20 Projected	2020-21 Projected
Storm Drainage Fee	\$	685,000	\$ 705,000	\$ 712,050	\$ 719,171	\$ 726,363
Interest/Investment Income		31,782	11,867	11,986	12,106	12,228
Total Resources	\$	716,782	\$ 716,867	\$ 724,036	\$ 731,277	\$ 738,591
Wages & Benefits	\$	149,177	\$ 164,729	\$ 168,898	\$ 173,027	\$ 177,158
Maintenance & Operations		224,654	220,297	231,877	235,326	240,226
Debt Payment		195,646	251,841	221,585	168,775	168,074
Capital Outlay		45,711	85,000	-	-	
Total Expenditures	\$	615,188	\$ 721,867	\$ 622,360	\$ 577,128	\$ 585,458
Net Income		101,594	(5,000)	101,676	154,149	153,133
Ending Fund Balance		797,305	792,305	893,981	1,048,130	1,201,263
Fund Requirement - 25%		153,797	180,467	155,590	144,282	146,365
Effective Fund Balance		129.60%	109.76%	143.64%	181.61%	205.18%

Storm Drainage Long Range Forecast

Capital Improvement Program



CAPITAL COSTS	20	16-17	2017-18	20	18-19	2019-20	2020-21	Over 5 Years	Total
Public Works Facility	\$		\$ 1.500.000	\$		\$ -	\$ -	\$ -	\$ 1,500.000
Elevated Storage Tank		7.	1,700,000			3.00	5.500.000	-	7,200,00
Qual Run/Dobbs Road Water Lines					-	2,100,000			2,100,00
Lake Sharon Pump Station & 3mg Ground Storage Tank 24" and 20"line along Lake Sharon		5						3,900,000 2,000,000	3,900,00
16" line along S. Corinth street		-	-			-	-	250,000	250.00
12" line along FM2181					-			2.000.000	2,000,00
Total	\$	-	\$ 3,200,000	\$	-	\$2,100,000	\$5,500,000	\$8,150,000	\$18,950,00
FUNDING SOURCES	20	16-17	2017-18	20	18-19	2019-20	2020-21	Over 5 Years	Total
Unissued/Unauthorized Bond Proceeds	\$	-	ş -	\$	-	\$2,100,000	\$5.500.000	\$8,150,000	\$15,750,000
2017 C.O.		-	1,500,000				-		1,500,000
2016 C.O.		-	1,300,000		-	~	-		1,300,000
Impact Fees/Escrow Funds			400,000			-			400.00
Total	\$		\$ 3,200,000	ş		\$2,100,000	\$5,500,000	\$8,150,000	\$18,950,000

Capital Improvement Program - Water System Improvements

Bob Hart, City Manager - the big item is the elevated storage tank, getting the design, the site and waterlines that will feed that and we have to look out in the future to actually pay for those improvements. What we have in the budget deals with the site acquisition, getting the design work and making sure we have all the easements and right-of-way in place for that tank to be built.

CAPITAL COSTS	2016-17	20	17-18	20	18-19	20	19-20	20	20-21	(Over 5 Years	Total
Sewer line Realignment (L3)	\$ 225,000	\$	*	\$		\$		\$		\$	7	\$ 225.000
FM2181 lift station and 14"/12" force main	-						-		2		700.000	700.000
Lynchburg 15", 12", 10" Sewer Line	*						-				1.300.000	1,300,000
Shady Rest Lift station 18"/21" Sewer Line									1,0		1.700.000	1.700.000
Total	\$225,000	\$	•	\$	•	\$	•	\$	*	\$	3,700,000	\$3,925,000
FUNDING SOURCES	2016-17	20)17-18	20	18-19	20	19-20	20	20-21		Over 5 Years	Total
Unissued/Unauthorized Bond Proceeds	\$ -	\$		\$.71	\$	7	\$	27	\$	3.700.000	\$ 3,700,000
Aid in Construction	225.000		-								-	225.000
Total	\$ 225,000	S		S		S		S		s	3,700,000	\$ 3,925,000

Capital Improvement Program - Wastewater System Improvements

Bob Hart, City Manager - the sewer line Realignment with (L3), we are finalizing the design and getting ready to get quotes to move forward on that.

CAPITAL COSTS	201	16-17	2	2017-18	201	8-19	201	9-20	202	0-21	ver 5 ears	Total
Meadows/Shady Shores Intersection	\$		\$	75,000	\$		\$		\$		\$ -	\$ 75,000
Total	\$		\$	75,000	\$	-	\$		S		\$	\$ 75,000

FUNDING SOURCES	20	16-17	:	2017-18	201	8-19	20	19-20	20:	20-21	Over 5 Years	Total
Drainage Operating Funds	\$		\$	75,000	\$		\$		\$		\$ -	\$ 75.000
Total	\$		\$	75,000	\$		\$		\$		\$ -	\$ 75,000

Capital Improvement Program – Drainage Improvements

Base Rate (b	y meter siz	e)			
Meter Size	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff
5/8 x 3 /4"	\$23.27	\$31.23	\$27.66	\$4.39	18.87%
Full 3 /4"	32.25	34.36	32.25	0.00	0.00%
1"	32.25	43.73	38.73	6.48	20.09%
1 ½"	65.15	65.15	65.15	0.00	0.00%
2"	100.70	100.70	100.70	0.00	0.00%
3"	210.25	343.56	304.30	94.05	44.73%
4"	330.10	437.26	387.29	57.19	17.32%
6"	660.95	660.95	660.95	0.00	0.00%
10"	1,510.65	1,510.65	1,510.65	0.00	0.00%

The rates include a senior citizen discount where senior citizens receive 3,000 gallons of water and 1,000 gallons of wastewater included in their monthly minimum bill.

Water Rates- Base Rates

Volumetric Cha	rge - Reside	ential			CASE A
Tier	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff
0-10000	\$2.77	\$4.95	\$5.08	\$2.31	83.39%
10001-25000	4.77	6.95	7.08	2.31	48.43%
25001-50000	6.77	8.95	9.08	2.31	34.12%
50000 up	8.77	10.95	11.08	2.31	26.34%

Volumetric Charge – Commercial								
Tier	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff			
0-10000	\$3.68	\$4.75	\$4.56	\$0.88	23.91%			
10001-25000	4.68	5.75	5.56	0.88	18.80%			
25001-50000	5.68	6.75	6.56	0.88	15.49%			
50000 up	6.68	7.75	7.56	0.88	13.17%			

Water Rates- Volumetric Charges

Tier	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff
Base Fee	\$21.39	\$21.39	\$21.39	\$0.00	0.009
Volumetric Fee	5.60	3.67	3.67	(1.93)	-34.46%

Wastewater Rates

Tier	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff
5,000 Gallons	\$37.12	\$55.98	\$53.06	\$15.94	42.91%
10,000 Gallons	50.97	\$80.73	78.46	27.49	53.93%
30,000 Gallons	156.37	\$229.73	230.06	73.69	47.13%
75,000 Gallons	511.02	\$682.48	663.26	152.24	29.79%

Wastewater Bill Analysis								
Tier	Current	June 15 Meeting	Proposed Budget	Budget vs Current	% Diff			
5,000 Gallons	\$49.39	\$39.74	\$39.74	(\$9.65)	(19.54%)			
10,000 Gallons	77.39	58.09	58.09	(19.30)	(24.94%)			
30,000 Gallons	189.39	131.49	131.49	(57.90)	(30.57%)			

Average Resident Bill

V 10,000 Gallons of Water V 5,000 Gallons of Wastewater

> Current Rates Total Bill = \$100.36

> Proposed Rates Total Bill = \$118.20

Resident Impact \$17.84 or 17.8% increase

Average Bill Analysis - Residential

Bob Hart, City Manager - this is what we looked at on June 15th based on your feedback we made some adjustments to these rates as the recommendation and these are the numbers that we have used in the preparation of this budget. This proposed budget on a 1 year rate is a resident increase on an average bill of about 17.8% It was going to be about 32% increase.

Utility Rates



Base Rates	Curi	rent	June	15 Mtg	Prop	oosed (31%) Di	ifference	% Diff
5/8 x3/4"	\$	23.27	\$	31.23	\$	27.66	\$	4.39	18.87%
Full 3/4"		32.25		34.26		32.25			0.31%
1"		32.25		43.73		38.73		6.48	20.09%
1 1/2"		65.15		65.15		65.15			0.00%
2"		100.70		100.70		100.70		-	0.00%
3"		210.25		343.56		304.30		94.05	44.73%
4"		330.10		437.26		387.29		57.19	17.33%
6"		660.95		660.95		660.95			0.00%
10"	1	,510.65	1	,510.65	1	,510.65			0.00%
Residential Rates				A PLANT	1075		1	Contract of the last	
0-10,000	\$	2.77	\$	4.95	\$	5.08	\$	2.31	83.39%
10,001-25,000		4.77		6.95		7.08		2.31	48.43%
25,001-50,000		6.77		8.95		9.08		2.31	34.12%
50,001+		8.77		10.95		11.08		2.31	26.34%
Commercial Rate	s	PARTY CAN		SPALEST.	7	ALC: OF THE		THE PARTY	The second
0-10,000	\$	3.68	\$	4.75	\$	4.56	\$	0.88	23.91%
10,001-25,000		4.68		5.75		5.56		0.88	18.80%
25,001-50,000		5.68		6.75		6.56		0.88	15.49%
50,001+		6.68		7.75		7.56		0.88	13.17%
Wastewater Rate	is		-	Lines	2.2	SEATURES.	184	The state of	The second
Base Rate	\$	21.39	\$	21.39	\$	21.39	\$		0.00%
Volumetric Fee		5.60		3.67		3.67		(1.93)	-34.46%

Average Reside	nt Bill
√ 10,000 Gallons of W	Vater
√ 5,000 Gallons of Wa	astewater
Current Total Bill =	\$100.36
Water = \$50.	97
Wastewater = \$4	49.39
Proposed Total Bill	\$118.20
Water = \$78.	46
Wastewater = \$3	39.74
Resident Imp	act
\$17.84 or 17.8% in	ncrease

Proposed Budget Rates – 31% Fixed Base Fee / No Future CIP

Entity Name Entities that are served by UTRWD only		Residential	Commercial	Total	Subscription Mgd	Subscription per Acct Total
Denton Co. Fresh Water Supply District 6-7 (Lantana)		3.300	30	3,330	3.20	961
Corinth - Current		6.800	334	7.134	7.50	1,051
Mustang SUD (Providence/Savannah)		6.400		6.400	2.90	453
LCMUA (Shady Shores/Lake Dalas/Hickory Creek)	wells as secondary for peak demand	4,526	399	4,925	3.80	772
Entites with multiple water providers	STREET, STREET	Well st	N THE PARTY		NICE SERVICE	
Denton Co. Fresh Water Supply District 1A (Castle Hill)	City of Lewisville	3,791	91	3.882	3.00	773
Cross Timbers Water Supply						
(Bartonville/Copper Carryon/Double Oak)	wells	2,300	15	2.315	2.50	1.080
Prosper	wels	7,300	175	7,475	1.00	134
Flower Mound	Own/Lake Lewisville/Lake Grapevine	20.018	108	20.126	30.00	1.491
Krum	wells	1,716	97	1.813	0.40	221
Celna	wels	4,576	196	4.772	2.50	524
Argyle Water Supply (Argyle/Bartonville)	wels	2.300	45	2.345	2.00	853
Sanger	wels	2,522	304	2.826	0.50	177
Aubrey	wels	1.059	122	1.181	0.10	85
Justin	wels	1,300	100	1.400	0.85	607
Highland Village	wels	5,200	300	5,500	3.00	545
UTRWD Board member - No Water Subscription	- Charles and the second			DESCRIPTION OF THE PERSON OF T		SERVICE OF THE PERSON NAMED IN
Lewisville	Own/Lake Lewisville	16,875	5.625	22.500	None	None
Pilot Point	wels	1.500	200	1.700	None	None
Denton	Owntake Lewisville/Ray Roberts	29,411	4.784	34,195	None	None
Ponder	wells	945	55	1,000	None	None
Little Elm	North Texas Municipal Water District	10,313	188	10,501	None	None

UTRWD Member Comparison

Bob Hart, City Manager - Denton County provides water out to Lantana. Mustang Special Utility District provides water out to Providence and Savannah and LCMUA. These are the systems that rely on the Upper Trinity Regional Water District for all their water supply source. LCMUA does use a couple of wells to avoid going over their subscription amount of this 3.80 Mgd. If you exceed that for 3 consecutive days then you end with a new subscription level and that is what your bill is based on.

Our number is 7.50 Mgd and we are peaking at about 5.00 Mgd this year and that means that 1/3 of what we are paying Upper Trinity we are not selling. That is the rainfall and that is what is causing some of the shortage.

The other cities listed are buying water from Upper Trinity and they have additional water providers available. Highland

Village is half of what our subscription is and the reason they can get by with that is because they are using wells as part of their water supply. Flower Mound has their own water treatment plant and they are pulling water out of Lake Grapevine and Lake Lewisville and they are also getting water from the Upper Trinity. Their subscription rate is higher and what is probably happening there is a lot of commercial activity that would skew that number.

When you start looking at these numbers with these Cities that begins to explain why it is hard to compare rates because you are not comparing water rates with Upper Trinity 100% and everybody else is averaging all these water supply sources and that is how they are able to drive some of their costs down. We need to start looking at some alternative water supply sources. Most of our bill is tied up with Upper Trinity.

Councilmember Garber - how long would it take us to get a well and how much would that cost?

Bob Hart, City Manager - we have to see if we have ground water available to tap into. Then we have to see if we can get a permit to drill the well.

Councilmember Burke - is there any way we could partner with some of our homeowner associations not mix the water supply and make them use some cheap water to water?

Bob Hart, City Manager - that is possible. Also for how we water the parks.

Councilmember Johnson - we have discussed that back in 2011/2012 and one of the factors was where are we going to pump the water.

Councilmember Burke - there is probably a whole different set of requirements for the City to do it than a private citizen and is there a way we can encourage some of our private citizens to tap in to that outside of the regulatory scheme on some of these larger tracts to use that for irrigation so that we can offset this potential peak demand problem.

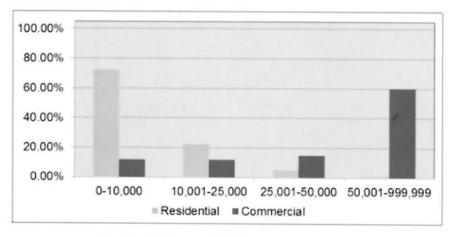
Bob Hart, City Manager - the incentive program becomes a big part of that.

Councilmember Harrison - I think it is going to be difficult and TCEQ is going to eat you up.

Entity Name	Base Rate	Volumetric 10,000	Total Water	Total WW 5,000	T
Entitles that are served by UTRWD only	Dase Nate	10,000	Total water	5,000	Total Bill
Denton Co. Fresh Water Supply District 6-7 (Lantana)	27.00	29 70	56.70	40.00	96.70
Connth - Current	23.27	27 70	50.97	49.39	100 36
Mustang SUD (Providence/Savannah)	26.75	34.40	61.15	49.15	110.30
Connth - Proposed	27.66	50 80	78 46	39.74	118.20
LCMUA (Shady Shores/Lake Dallas/Hickory Creek)	30.00	53 00	83 00	52.40	135.40
Entites with multiple water providers	000000000000000000000000000000000000000	Control of the	The state of the s		
Denton Co. Fresh Water Supply District 1A (Castle Hill) Cross Timbers Water Supply	34.75	29.92	64.67	None	64.67
(Bartonville/Copper Canyon/Double Oak)	38.25	32 50	70.75	None	70.75
Prosper	11.12	37.40	48.52	40.23	88.75
Flower Mound	32.82	30.00	62.82	31.29	94.11
Krum	16 20	31.52	47.72	46.77	94.49
Celina	22 25	39.68	61.93	37.79	99.72
Argyle Water Supply (Argyle/Bartonville)	27.04	30.97	58.01	43.64	101.65
Sanger	21.74	40.55	62.29	43.10	105.39
Aubrey	29.09	46.13	75.22	35.70	110.92
Justin	27.50	54.00	81.50	33.00	114 50
Highland Village	31.00	28.00	59.00	60.60	119.60
UTRWD Board member - No Water Subscription	100000000000000000000000000000000000000	F 1 1 3 / 6 / 5 /	STATE OF THE PARTY.	Control of the Control of	THE RESERVE THE PERSON NAMED IN
Lewisville	14.78	24.40	39 18	19.75	58 93
Pilot Point	22.08	27.61	49.69	31.64	81.33
Denton	16.00	41.50	57.50	31.50	89.00
Ponder	25.85	33.95	59.80	38.11	97.91
Little Elm	22 70	48.16	70.86	42.29	113.15

UTRWD Member Comparison

Utility Customers Based on Usage



Residential Customers (95.3%) Commercial Customers (4.7%) Total Customers

6,800 334 7,134

Base Rates	Current	City	UTRWD	Total	Ttl vs Current	% Diff
5/8 x 3/4	23.27	15.81	15.42	31.23	7.96	34.2%
full 3/4	32.25	17.39	16.96	34.35	2.10	6.5%
1 inch	32.25	22.14	21.59	43.73	11.48	35.6%
1 1/2 inch	65.15	37.39	27.76	65.15		0.0%
2 inch	100.70	55.98	44.72	100.70		0.0%
3 inch	210.25	173.94	169.62	343.56	133.31	63.4%
4 inch	330.10	221.38	215.88	437.26	107.16	32.5%
6 inch	660.95	337.13	323.82	660.95		0.0%
10 inch	1,510.65	1,063.47	447.18	1,510.65		0.0%
Residential Rate:	,					
0-10,000	2.77	-	5.39	5.39	2.62	94.6%
10,001-25,000	4.77	1.54	5.39	6.93	2.16	45.3%
25,001-50,000	6.77	3.54	5.39	8.93	2.16	31.9%
50,001+	8.77	5.54	5.39	10.93	2.16	24.6%
Commercial Rate	is .	1	Section 1			THE REAL PROPERTY.
0-10,000	3.68		5.39	5.39	1.71	46.5%
10,001-25,000	4.68		5.39	5.39	0.71	15.2%
25,001-50,000	5.68	0.92	5.39	6.31	0.63	11.1%
50,001 +	6.68	1.92	5.39	7.31	0.63	9.4%
Wastewater Rate	es .				Parket State of State	
Base Rate	21.39	21.39		21.39		0.0%
/olumetric	5.60	.96	2.71	3.67	(1.93)	-34.5%

Average Resident Bill
V 10,000 Gallons of Water
√ 5,000 Gallons of WW
Current Total Bill = \$100.36
Water = \$50.97
Wastewater = \$49.39
Total Revised Bill = \$124.87
Water Fee = \$85.13
City Fee = \$15.81
UTRWD = \$69.32
Wastewater Fee = \$39.74
City Fee = \$26.19
UTRWD = \$13.55
Resident Impact
\$24.51 or 24.4% increase

UTRWD Fee Component – 35% Base Fee / No Future CIP

Bob Hart, City Manager - this rate is based on a 35% base fee. If we have a water bill of \$85.13, almost \$16.00 of that is a city component of the bill and \$69.00 is Upper Trinity. If you were to separate out that bill that is what you would see. Highland Village takes that Upper Trinity component and increase annually between 3-5% and passes it through.

Base Rates	Current	Proposed (31%)	40%	50%	60%
5/8 x 3/4	23.27	27.66	35.70	44.62	53.54
full 3/4	32.25	32.25	39.26	49.08	58.90
1 inch	32.25	38.73	49.97	62.47	74.96
1 1/2 inch	65.15	65.15	65.15	80.31	96.38
2 inch	100.70	100.70	100.70	129.39	155.27
3 inch	210.25	304.30	392.65	490.81	588.97
4 inch	330.10	387.29	499.73	624.66	749.60
5 inch	660.95	660.95	749.60	936.99	1.124.39
10 inch	1,510.65	1,510.65	1,510.65	1,510.65	1,552.73
Residential Rates		ERE BARRIST	18 18 18 18	1-	THE RESERVE
0-10,000	2.77	5.08	4.10	3.02	1.94
10,001-25,000	4.77	7.08	6.10	5.02	3.94
25,001-50,000	6.77	9.08	8.10	7.02	5.94
50,001+	8.77	11.08	10.10	9.02	7.94
Commercial Rates				TO REAL PROPERTY.	E SINGE
0-10,000	3.68	4.56	4.35	4.11	3.87
10,001-25,000	4.68	5.56	5.35	5.11	4.87
25,001-50,000	5.68	6.56	6.35	6.11	5.87
50,001+	6.68	7.56	7.35	7.11	6.87
Wastewater	Current	Proposed	THE LIE WAR		-
Base Rate	21.39	21.39			
/olumetric	5.60	3.67			

Fixed Base Rate Comparison

Bob Hart, City Manager - this shows our current rates and what is proposed in the budget of 31% cost recovery on the fixed rate. The question then is what happens if you run it out to 40%, 50% and 60% and I was surprised and remember getting out to 60% is where you provide the financial stability of the system even during the wet years. The higher you can get that number the greater the financial stability you are going to have.

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - you are shifting the revenues you are recovering to your fixed charge and fewer from your volumetric charge. That drives up your base fee and down your volumetric fee and when that happens your users that only uses 3,000 - 4,000 gal of water will actually see a greater increase. The users that are using more gallons 10,000, 20,000, 30,000 and 50,000 gallons will see a lower increase because you are shifting the percentage of revenue you are getting out of your base charge versus your volumetric.

Bob Hart, City Manager - you need to talk about what cost recovery you want and then how you are going to approach these volumetric rates. That is a policy decision that you have to make and then we can start plugging the numbers in.

Fixed Base Fee Water Residential Bill Impact

Gallons	Current	Proposed	40%	50%	60%
5,000	37.12	53.06	56.20	59.72	63.24
10,000	50.97	78.46	76.70	74.82	72.94
30,000	156.37	230.06	208.70	185.22	161.74
75,000	511.02	663.26	623.20	551.12	479.04

Average Residential Bill

Gallons	Current	Proposed	40%	50%	60%
10,000 Water	50.97	78.46	76.70	74.82	72.94
5,000 Wastewater	49.39	39.74	39.74	39.74	39.74
Total Bill	100.36	118.20	116.44	114.56	112.68

Fixed Base Rate Comparison

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - the total bill would be \$118.20 total if you did not increase the gallons for seniors which is currently at 3,000 gallons. If you increase the gallons for seniors everyone else roughly pays \$5.00 more.

Base Rates	Current	35%	Difference	% Diff
5/8 x 3/4	23.27	31.23	7.96	34.21%
full 3/4	32.25	34.36	2.11	6.54%
1 inch	32.25	43.73	11.48	35.60%
1 1/2 inch	65.15	65.15	-	0.00%
2 inch	100.70	100.70		0.00%
3 inch	210.25	343.56	133.31	63.41%
4 inch	330.10	437.26	107.16	32.46%
6 inch	660.95	660.95		0.00%
10 inch	1,510.65	1,510.65		0.00%
Residential Rates		BEGINSON		
0-10,000	2.77	5.24	2.47	89.17%
10,001-25,000	4.77	7.24	2.47	51.78%
25,001-50,000	6.77	9.24	2.47	36.48%
50,001+	8.77	11.24	2.47	28.16%
Commercial Rates		Harrison Co.	THE RESERVE	A TO SHAPE
0-10,000	3.68	4.47	0.79	21.47%
10,001-25,000	4.68	5.47	0.79	16.88%
25,001-50,000	5.68	6.47	0.79	13.91%
50,001+	6.68	7.47	0.79	11.83%
Wastewater	\$150 m	242-1245		
Base Rate	21.39	21.39		0.00%
Volumetric	5.60	3.67	(1.93)	-34.46%

A	verage Resident Bill
v 10,0	00 Gallons of Water
√ 5,00	0 Gallons of Wastewater
Cur	rent Total Bill = \$100.36
	Water = \$50.97
1	Nastewater = \$49.39
Prop	osed Total Bill = \$123.40
	Water = \$83.66
'	Nastewater = \$39.74
	Resident Impact
\$23	3.04 or 22.9% increase

35% Base Fee Analysis/10,000 Senior Minimum BIII

Bob Hart, City Manager - for a senior included in the base is 10,000 gallons of water for free so as a senior the bill would be \$31.23 for water. Everyone that is under 65 years of age their water bill would be \$83.66 and the reason for that is they have to make up for everybody else free water.

Councilmember Harrison - if we go the proposed route and average 10,000 gallons the senior's bill would be \$123.40?

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - their total bill would be around \$102.00 for a senior's bill for 3,000 gallons of water. If you change the policy so seniors receive 10,000 gallons of water then their total bill would be approximately \$70.00.

Councilmember Glockel - a person does not need 10,000 gallons and that is kind of over and above this 3,000 gallons of water. If you are going to give 3,000 gallons out for a senior to keep my bill flat you would have to maybe give me 6,000 gallons of water not 10,000.

Councilmember Garber - so more levels and pushing the cost into the higher levels. So instead of 0-10,000 we want 0-3,000, 6,000 - 9,000?

Councilmember Glockel - just for that one bracket. I would not have a multi-bracket.

Bob Hart, City Manager - so what I think I am hearing is we are going to shift more of the cost into the volumetric side and lessen the base side? If we leave the seniors so there is not an adjustment is keep the cost recovery low?

Councilmember Glockel - you are going to change the base rate that is a given. I am talking about the volumetric. That is the only advantage that 65 years and older has today is that they get 3,000 gallons of water for free. We are talking about giving them as much as 10,000 and that is \$50.80 at the new rate. The old rate it would have been \$27.00 for 10,000 gallons. I am saying find a spot and set it for all seniors that the volumetric at the new rate is still the same as what we would pay at \$27.70 and not give them 10,000 gallons.

Nelisa, **Heddin**, **Nelisa Heddin Consulting**, **L.L.C** - so to clarify you want to let them have the increase in the base fee but no increase for seniors in the volumetric is that correct up to 5,000 or 6,000 gallons?

Councilmember Glockel - correct and if they use over that then they will have to pay whatever the new rate is.

Nelisa, Heddin, Nelisa Heddin Consulting, L.L.C - so let the increase go through for the base charge with the volumetric rate, you could add a tier for 0-5,000 gallons tier it is \$2.77 and then from 5,000-10,000 gallons tier would be \$3.77 or a dollar more and you would leave your senior policy in place. Your average senior uses 7,633 gallons of water is their average use is and so that would mitigate the impact and it would also mitigate the impact of the rate increase for anybody using less than 5,000 gallons.

Councilmember Johnson - how about we look at moving our base rate to 50% at \$44.62 and putting in your 0-5,000 gallons for your first rate set and then push the rest of your rates from 5,000 down to the 40% level so 5,000 - 10,000 would be \$4.10, 10,000 - 25,000 would be \$6.10 etc. would that not cover your 0-5,000 at \$2.77 and also provide you some volumetric relief on the other side as well.

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - so your average bill would go up by \$21.00 for anyone using 0-5,000 gallons of water it may go up a little bit more than that.

Councilmember Burke - so if we did what Lowell suggested with a 50% fixed rate and then did the rate structure as he suggested are you saying the average bill would be \$120.00?

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - the water bill would be less for a 5,000 gallon user they would just have the \$20.00 increase on the base rate.

Base Rates	Current	5000 Gal Minimum Bill	10,000 Gal Minimum Bill
5/8 x 3/4	23.27	53.54	53.54
full 3/4	32.25	58.90	58.90
1 inch	32.25	74.96	74.96
1 1/2 inch	65.15	96.38	96.38
2 inch	100.70	155.27	155.27
3 inch	210.25	588.97	588.97
4 inch	330.10	749.60	749.60
6 inch	660.95	1,124.39	1,124.39
10 inch	1,510.65	1,552.73	1,552.73
Residential Rates	A C P A C P A C A C A C A C A C A C A C	STATE OF THE STATE OF	
0-10,000	2.77	2.01	2.19
10,001-25,000	4.77	4.01	4.19
25,001-50,000	6.77	6.01	6.19
50,001 +	8.77	8.01	8.19
Commercial Rates	He de la	ALEX PALL PASSES	Same Park
0-10,000	3.68	3.87	3.87
10,001-25,000	4.68	4.87	4.87
25,001-50,000	5.68	5.87	5.87
50,001 +	6.68	6.87	6.87
Wastewater		MI PORTE BA	-
Base Rate	21.39	21.39	21.39
Volumetric	5.60	3.67	3.67

Average Resident Bill At 10,000 Gallon Senior
V 10,000 Gallons of Water
v 5,000 Gallons of Wastewater
Current Total Bill = \$100.36 Water = \$50.97
Wastewater = \$49.39
Proposed Total Bill = \$115.18
Water = \$75.44
Wastewater = \$39.74
Resident Impact
\$14.82 or 14.77% increase

60% Base Fee Senior Citizen Analysis

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - so this is a 60% base fee scenario and for your average customer, your non-senior customers their bill would be \$115.18 but your senior citizens, under this scenario their bill would be \$53.54 for the water and \$39.00 for sewer. So the senior citizens bill would be about \$94.00 versus \$115.00 or \$118.00 with the other scenarios.

Current	5,000	10,000	20,000	30,000	75,000
Average Resident	\$37.12	\$50.97	\$98.67	\$156.37	\$511.02
Senior Resident	28.81	42.66	90.36	148.06	502.71
10,000 Gallons Senior Minimum Bill	5,000	10,000	20,000	30,000	75,000
Average Resident	\$64.49	\$75.44	\$117.34	\$169.24	\$497.79
Senior Resident	53.54	53.54	95.44	147.34	475.89
5,000 Gallons Senior Minimum Bill	5,000	10,000	20,000	30,000	75,000
Average Resident	\$63.59	\$73.64	\$113.74	\$163.84	\$484.29
Senior Resident	53.54	63.59	103.69	153.79	474.24

60% Base Fee Senior Citizen Analysis

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - option 1 would be to include gallons and base fee, Option 2 is to address through just your tier rate structure and how you want do that and then the question is, is your tier rate structure appropriate for achieving the goals you want to achieve. Right now it is structured with a \$2.00 differential between each of the rate tiers and that was based off where you were several years ago. You can certainly look at being a little more

aggressive with your volumetric rates in terms of the differential between tiers ultimately the lower tier will go lower and the higher tier will come higher. If you were to be a little more aggressive I would encourage you to put more of your cost recovery in that base charge just to provide you more coverage for the wet years.

Councilmember Johnson - if we go this route you are raising the rates quite a bit for the family of 4 or family of 5 and that concerns me.

Councilmember Burke - my opinion on that is there does not need to be an increase in the subsidy of the seniors at all. Most of the subsidy in our society right now go to the older population and most of the wealth in our society is that population. The other part of that is wants you give that benefit like any other benefit taking it away is very painful.

Councilmember Johnson - I agree. If we are going to do anything we should help out the other end where they need the help.

Councilmember Burke - I think our policy on the low end where you are really calling non-discretionary use should be neutral and should be based on discretionary use. The more excessive discretionary use the more you pay. Not based on age. I think 50% seems like a good number we just have to match rates. I am not suggesting we take away the 3,000 gallons of free water for the seniors but the rest of the increase they will absorb like everyone else is.

Councilmember Garber - the higher that base rate goes that shows that we are 6% better off at collecting dollars than we are at a lower base rate. As long as the volumetric offsets any potential increases or mitigate as much of it as we can for that 3,000 gallon range. If we can line up the volumetric rates with what our citizens are actually using and if you keep it that low to 3,000 or 4,000 gallons you are not going to water your lawn that much.

Councilmember Johnson - so you want to establish a 0-5,000 gallon rate and then 5,000 - 10,000 gallons and go from there?

Councilmember Garber - yes and line those categories up with what we are actually using so if 72% of our citizens are using 10,000 gallons or less we are going to have to collect most of our dollars within that range because that is where most people use it. We are going to have to split those categories up some to capture as many categories within that 10,000 gallons as we can because if we put most of the cost to the 50,000 gallons, that is not even 1% so we will not recover our cost. To make it simple I think we should try to hit as close to 60% as we can on the base rate try to really help our citizens that use 2,000, 3,000, 4,000 gallons of water, like we currently are and expand it to more folks and then really break up that 10,000 gallon range so that the folks at the top end of that at 25,000 gallons are paying more of the share versus less.

Nelisa Heddin, Nelisa Heddin Consulting, L.L.C - so you are wanting to get as close to the 60% base fee and break up the 0-10,000 gallon block into perhaps 3 sections to get a little help to the lower end. So maybe \$1.50 for 0-3,000 gallons etc.

Councilmember Garber - yes.

Mayor Heidemann - so what we are proposing is to go back and give us a base rate of 50% and 60% and change your structure on your volumetric side and not doing anything additional or take away on the senior side is that correct?

Bob Hart, City Manager - we can come back next Thursday evening and have all of this provided?

Nelisa Heddin, Nelisa Heddin Consultant, L.L.C - absolutely.



- Planning (January)
 - January 14 Council Goal setting / Strategic Planning Retreat
- Department Budget (March April)
 - □ March 7 Budget Kickoff
 - March 28 Departments submit budgets to Finance
 - □ April 11-22 Budgets reviewed by City Manager

City Manager's Budget – (May – July)

- ☐ June 29 Council Policy Workshop
- □ July 25 Receive certified tax roll; calculate effective & rollback tax rates
- July 31 Submit proposed budget to Council

City Council's Budget - (August - September)

- □ August 3 Budget work session; Budget Overview
- August 10- Budget work session; review governmental funds
- August 10 Vote on published tax rate and public hearing dates
- □ August 17 Budget work session; review proprietary funds
- August 24 & September 7 Public hearings on tax rate & budget
- August 31 & September 14- Budget work session (if needed)

Adopted Budget - (September - October)

- □ September 21 Adopt budget & tax rate
- □ October 1 Fiscal year begins; implementation of adopted budget

Budget Process Calendar

ADJOURN:

Mayor Heidemann adjourned the meeting at 8:20 p.m.

AYES: All

Meeting adjourned.

15T day of Approved by Council on the y or 2017.

Kimberly Pence, City Secretary

City of Corinth, Texas