

Water, Sewer and Storm Drain Committee

November 17th , 2016 10:30 AM City Hall

Committee:	Gary Baland – Council Member
	Jason Banks – Chair/Vice-Mayor
Attendees:	Jim Goodwin –City Manager
	Scott Rolls – City Engineer
	Ron Walker – Public Works Facilities Manager/Chief Plant Operator
	Joe Aguilar - Finance Director
	Hope Ithurburn, Executive Assistant to City Manager

----- Agenda Topics -----

- 1. Review/Approve Meeting Minutes from April 21, 2016, May 19, 2016, and August 18, 2016
- 2. Review Progress on Water Fee Study
- 3. Project Updates
- 4. Adjournment



Water, Sewer and Storm Drain Committee Meeting Minutes

April 21, 2016 – 10:30 am Live Oak City Hall

COMMITTEE:	Jason Banks, Vice Mayor
	Gary Baland, Council Member
STAFF:	Jim Goodwin, City Manager
	Scott Rolls, City Engineer
	Ron Walker, Public Works Facilities Manager/Chief Plant Operator
	Joe Aguilar, City Finance Director
	Hope Ithurburn, Executive Assistant to the City Manager

1. Council Member Baland called the meeting to order at 10:30 am.

2. The following staff members were present:

Jim Goodwin, City Manager, Ron Walker, Public Works Facilities Manager/Chief Plant Operator, Scott Rolls, City Engineer, and Hope Ithurburn, Executive Assistant to the City Manager.

The following guests were present:

Catherine Hansford and Rachel, Hansford Economic Consulting

- 3. Roll Call Present: Council Member Baland Absent: Vice Mayor Banks
- 4. Water/Sewer Fee Study

Lengthy discussion regarding the study followed.

5. Project Updates

Scott and Ron updated the committee on projects with discussion following.

6. Adjournment

Council Member Baland adjourned the meeting at 12:32 pm.



Water, Sewer and Storm Drain Committee Meeting Minutes

May 19, 2016 – 10:30 am Live Oak City Hall

COMMITTEE:	Jason Banks, Vice Mayor
	Gary Baland, Council Member
STAFF:	Jim Goodwin. City Manager
	Scott Rolls, City Engineer
	Ron Walker, Public Works Facilities Manager/Chief Plant Operator
	Joe Aguilar. City Finance Director
	Hope Ithurburn, Executive Assistant to the City Manager

1. Council Member Baland called the meeting to order at 10:32 am.

2. The following staff members were present:

Jim Goodwin, City Manager, Ron Walker, Public Works Facilities Manager/Chief Plant Operator, Joe Aguilar, City Finance Director, Scott Rolls, City Engineer, and Hope Ithurburn, Executive Assistant to the City Manager.

3. Roll Call

Present: Council Member Baland Absent: Vice Mayor Banks

4. Emergency Drought Regulations

Jim presented the proposed regulation changes with discussion following regarding the roll out/communication plan to residents.

5. Project Updates

Jim updated the committee on projects with discussion following.

6. Adjournment

Council Member Baland adjourned the meeting at 11:26 pm.



Water, Sewer and Storm Drain Committee Meeting Minutes

August 18, 2016 – 10:30 am Live Oak City Hall

COMMITTEE:	Jason Banks, Vice Mayor
	Gary Baland, Council Member
STAFF:	Jim Goodwin, City Manager
	Scott Rolls, City Engineer
	Ron Walker, Public Works Facilities Manager/Chief Plant Operator
	Joe Aguilar, City Finance Director
	Hope Ithurburn, Executive Assistant to the City Manager

1. Council Member Baland called the meeting to order at 10:32 am.

2. The following staff members were present:

Jim Goodwin, City Manager, Ron Walker, Public Works Facilities Manager/Chief Plant Operator, Scott Rolls, City Engineer, and Hope Ithurburn, Executive Assistant to the City Manager.

3. Roll Call

Present: Vice Mayor Banks and Council Member Baland Absent: None

4. Update on GSA/GSP Process

Jim and Scott provided a status update with discussion following.

5. Water Services to Live Oak Child Care Center Jim and Scott gave an update with discussion following.

6. Project Updates Scott gave updates on various projects.

7. Adjournment

Council Member Baland adjourned the meeting at 11:49 am.

City of Live Oak

Water Rate and Fee Study *Preliminary Results & Discussion*

Hansford Economic Consulting November 17, 2016

NOTE: Until the study is completed and approved by City Council, all information presented is considered DRAFT.

BACKGROUND

Utilities Customer Base Total Approx. 2,250 Accounts





Customer Use of Facilities



Purpose of the Study

- Determine funding needed over the next 5 years to operate and maintain the utility system responsibly
- Create adequate revenue to fund CIP (capital improvement projects)
- Ensure costs are allocated equitably for all customer classes
- Establish appropriate rate schedules for 5 years
- Meet current bond covenants

Revenue Requirement



- Determine funding needed to meet financial needs
 - > Operations & Maintenance
 - > Debt Service
 - System Rehabilitation
 - Capital Improvements
 - Fund Reserves

Rate Structure



- How to collect the necessary revenue requirement
 - Service and Use Charges
 - Want to reflect local customer water needs / demands
 - Meet multiple objectives



Water Rate Structure

- Include Service Charges and Use Charges
- Service Charges intended to capture <u>fixed costs</u> of the water system
- Use Charges intended to capture variable costs of system



WHY PERFORM A RATE STUDY NOW?

Goals

- Adequately fund water enterprise fund such that other City services are not negatively impacted
 - Don't take away funding from Parks, Streets, Public Safety, and other City services
- Avoid heavy fines for non-compliance with regulations
- Don't kick the can down the road! Provide for timely system rehabilitation
- Circumvent cost-cutting measures in the short-term, as they typically create greater costs in the long-run
 - If maintenance projects are not addressed they can quickly become replacement projects



Best Practices



- Rates should be reviewed every 3-5 years
- Planning for future improvements is critical
- Financial standards drive a "self-sustaining" utility
- Equitable cost recovery
- Ensure ability to meet regulatory requirements

City of Live Oak Practices



CALIFORNIA

City has not completed a water rate study in the last 10 years

 Water enterprise fund has been operating at a net loss the last 2 years, depleting reserves

Water enterprise fund is projected to operate at a net loss this fiscal year

Water enterprise fund will end this fiscal year with less than 6 months operating cash

City has not performed systematic rehabilitation in the past; the water system has large capital improvement projects to be completed over the next 5 years





Projected Water Enterprise Fund Cash Balance

Assumes all CIP projects are funded in the next 5 years and \$1.0 Million Collected for System Rehabilitation



San Juan Capistrano



2015: Ruling in the San Juan Capistrano case created stricter standards on how tiered rates should be set under Prop 218

"...the City failed to demonstrate that the tiers correspond to the actual cost of providing service at a given level of usage..."

"...rates were not proportional to the cost of service..."

As a result of the San Juan Capistrano case, many agencies have either eliminated their tiered rates in favor of a uniform rate, or revised their tiered rates to better comply with the standards set by the San Juan Capistrano case.

Information provided by Kelly Salt of Best & Krieger one of the lead attorneys for the defendant (City of San Juan Capistrano).

WATER RATE STUDY

Water Fund - How Much More is Needed?



Capital Improvement Costs WATER (Next 5 Fiscal Years) - 2016 \$'s in Millions

Item	Total Project Costs	Project Costs Paid with Rates
Pennington Rd Main	\$0.66	\$0.00
Pennington Rd E. Main	\$0.20	\$0.00
Well 7A	\$2.50	\$0.00
Meter Replacements	\$0.85	\$0.85
Valve Replacements	\$0.34	\$0.34
Fire Hydrant Replacements	\$0.34	\$0.34
Well 7B	\$2.70	\$2.00
Tank (Wells 7A&7B)	\$0.80	\$0.08
Booster St. (Wells 7A&7B)	\$1.50	\$0.15
TOTAL	\$9.89	\$3.76



Major Assumptions of the Rate Study

- Growth 35 to 50 single family residential units / year
- Operations Costs Annual Increase 3.5% / year based on historical increases
- New Rates Coincide with fiscal year first increase in effect July 1, 2017; thereafter the next 4 fiscal years

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Rate Structure is modified







OPTIONS

OPTION 1: Revenue Collection in Service versus Use Charges

- Cost of Service Approx. 45% costs fixed and 55% variable
 - Currently Approx. 80% costs collected in service charges

Options:

- Service charges calculated using cost of service recommended
 - Decreases the impact of rates to small households (seniors in particular) but could make the City more vulnerable to decreased revenue in droughts
- Service charges calculated using current revenue split
 - Service charges increase for all meter sizes increase
- ▶ Keep ¾″ and smaller meter service charge at current service charge
 - Holds service charges, could make the City more vulnerable to decreased revenue in droughts

Service Charge / Use Charge Split Assumes AWWA Meter Ratios

	Cost of	Кеер 3/4"	Current
Meter Size	Service	Charge	Allocation
3/4" or smaller	\$22.41	\$23.97	\$35.99
1"	\$36.99	\$39.61	\$59.62
1 1/2"	\$73.20	\$78.42	\$118.45
1 3/4"	\$73.20	\$78.42	\$118.45
2"	\$116.16	\$124.52	\$188.57
3"	\$253.94	\$272.22	\$412.34
4"	\$439.18	\$470.51	\$710.72
6"	\$902.68	\$967.95	\$1 <i>,</i> 468.39



OPTION 2: Meter Ratios Used in Study

Move to AWWA standards recommended

- Brings City to industry standards
 - Greater service charge increase to larger sized meters & smaller service charge increase to smaller sized meters

Keep current meter ratios

- Unknown basis
 - Smaller service charge increase to larger sized meters & greater service charge increase to smaller sized meters



Meter Ratio Differences

	Current	AWWA
Meter Size	Ratios	Ratios
Less than 1"	1.1	1.0
1"	1.3	1.7
1.5"	1.3	3.3
2"	2.1	5.3
3"	5.3	11.7
4"	9.1	20.0
6"	19.4	41.7



Meter Ratio Impact to Service Charges Assumes COS base/use split

Meter Size	City Ratios	AWWA Ratios
3/4" or smaller	\$24.17	\$22.41
1"	\$26.04	\$36.99
1 1/2"	\$32.24	\$73.20
1 3/4"	\$32.24	\$73.20
2"	\$52.70	\$116.16
3"	\$129.31	\$253.94
4"	\$225.88	\$439.18
6"	\$467.31	\$902.68



OPTION 3: Keep a Monthly Water Allowance in Service Charges or Remove

- Keep current allowance (not presented because the basis for the allowances by meter size are unknown)
- Remove all allowances so that customers pay for every unit of water consumed (best meets intent of proportionality) recommended
- Change allowances so that water use included in the service charges equals minimum monthly water use (54% to 62% of water use)

Monthly Allowance Based on Criteria

- Between 54% and 62% of water in monthly allowances
 - Minimum month system-wide water use 2014 & 2015 applied to all months = water in monthly allowances

	Current	Proposed	
3/4" or smaller	20	11	HCF
1"	21	30	HCF
1 1/2"	22	30	HCF
1 3/4"	22	30	HCF
2"	36	60	HCF
3"	90	155	HCF
4"	155	155	HCF
6"	330	155	HCF

Comparison Monthly SF Water Bill with & without Monthly Allowance

Assumes AWWA Meter Ratios & COS Split; Single Family ¾" Meter using 15 HCF of Water





Estimated Monthly Bill for a Multi-Unit Residential Customer

Assumes AWWA Meter Ratios & COS Split

2" Meter







Estimated Average Monthly Bill Impact Large Water Users

Assumes AWWA Meter Ratios & COS Split





Estimated Annual Water Bill Impact Live Oak Unified School District Assumes AWWA Meter Ratios & COS Split





OPTION 4: Collect for System Rehabilitation in Rates

- Include system rehabilitation costs in rates recommended
 - Collect \$1.0 million over 5 years for mains replacement

Depreciation	2017	2018	2019	2020	2021	2022
		Year 1	Year 2	Year 3	Year 4	Year 5
Existing Assets Annual Depreciation New Assets Annual Depreciation Total Annual Depreciation	\$303,664 \$52,417 \$356,081	\$313,123 \$54,737 \$367,860	\$322,877 \$57,057 \$379,934	\$332,935 \$59,609 \$392,544	\$343,306 \$106,011 \$449,317	\$354,000 \$153,444 \$507,444
Percentage of Depreciation in Rates	0%	100%	100%	100%	100%	100%
Estimated System Rehabilitation Cost	\$0	\$367,900	\$379,900	\$392,500	\$449 <i>,</i> 300	\$507,400

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Do not include system rehabilitation in rates

Impact to Single Family Bill of Collection for System Rehabilitation

Assumes AWWA Meter Ratios & COS Split

	Current	7/1/2017	7/1/2017
¾" Meter		100% System Rehabilitation	0% System Rehabilitation
Typical Monthly Bill 15 HCF	\$23.97	\$52.36	\$45.06

Affordability

- ▶ EPA water bills affordable if <2.5% of MHI
- SWRCB water bills are affordable in Disadvantaged communities if >1.5% but < 2.0% of MHI</p>

Assumes AWWA Meter Ratios & COS Split

Item	Current Rates	7/1/2017 Rates	7/1/2017 Rates
Monthly Water Bill	20 HCF Allowance	No Allowance	11 HCF Allowance
Monthly Median Household Income (MHI)	\$3,529	\$3 <i>,</i> 529	\$3 <i>,</i> 529
Average Monthly Water Bill (Single Family Customer)	\$23.97	\$52.36	\$40.64
Average Monthly Water Bill as Percentage of MHI	0.7%	1.5%	1.2%

Water Bill Comparison Single Family

Assumes AWWA Meter Ratios & COS Split; Single Family 3/4" Meter using 15 HCF of Water



WATER CONNECTION FEE

Water Connection Fee Methodology

- Total Costs: \$4.5 Million
- EDUs Served: 1,279
- Changed to match impact fee schedules by land use (per unit for residential or per building square foot for non-residential)
- Fee is calculated using 2016 construction costs; therefore it should be increased each year using an inflator such as the Engineering News Record Construction Cost Index March to March increase



Calculated Water Connection Fees

Curront		EDU	Fee per EDU	
	Item	Factors		
Connection			_	
Fees	FEE PER EDU [1]		\$3,518	
	LAND USE			
By Meter Size	<u>Residential</u>	<u>Per Unit</u>	<u>Per Unit</u>	
	Single Family	1.00	\$3,518	
	Duplex (per unit)	0.80	\$2,797	
¾″ or less -	Multi Family (per unit)	0.60	\$2,110	
\$7,635	Non-Residential	<u>Per 1,000 sqft</u>	<u>Per 1,000 sqft</u>	
	Office	0.4258	\$1,498	
	Commercial	0.5109	\$1,798	
	Industrial	0.3193	\$1,123	
	Warehouse	0.3193	\$1,123	
	Source: HEC.			

[1] The fee would be increased each year by an automatic inflator such as the ENR CCI March to March increase.



Annual Water Production -2016					2015	2014	2013
Year-Month	Booster Puming Station	Well 3	Well 4	Combined Total	Combined Total	Combined Total	Combined Total
14-Jan	7.94	0.00	9.70	17.64	19.30	24.31	20.61
14-Feb	7.68	1.19	9.19	18.06	18.08	20.43	20.51
14-Mar	6.83	4.95	7.21	18.99	25.67	24.48	29.34
14-Apr	13.77	6.00	7.97	27.74	28.64	31.20	34.44
14-May	19.01	7.56	8.05	34.62	34.38	45.11	46.86
14-Jun	23.08	10.20	8.91	42.19	36.66	53.02	53.53
14-Jul	21.91	14.18	12.94	49.03	38.34	54.51	56.22
14-Aug	31.49	10.86	6.20	48.55	39.01	50.47	54.26
14-Sep	23.94	8.63	10.63	43.20	34.43	40.29	45.50
14-Oct	8.46	9.27	11.81	29.54	31.70	31.88	37.39
14-Nov				0.00	21.86	21.57	28.43
14-Dec				0.00	19.57	18.79	24.02
Total Per Site	164.11	72.84	92.61	329.56			
Grand Total MG				329.56	347.64	416.06	451.11