Amador Water Agency

System-Wide Cost of Service and Water Rate Study

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The Reed Group, Inc.



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Study Objectives

- > Develop water rates that accurately reflect the cost of providing service
- > Improve equity for customers across all water service areas
- > Improve Agency's financial stability
- > Avoid more costly multiple, duplicative rate setting processes
- > Provide rates that reduce administrative and customer service costs
- Support more efficient budgeting and accounting practices

Presentation Outline

- > Revisions from March 2012
- > FY 12-13 revenue requirement
- > Proposed water rates
- > Summary
 - Benefits of the system-wide water rates
- > Next steps



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AWS CFD Revenue for Debt Service

- > Special tax revenue from the AWS CFD for debt service is estimated at \$120,200 annually
- > This additional revenue equates to savings of about \$1.37/month for residential AWS customers



FY 12-13 Water System Costs

Operation and maint.	\$5,207,300
Debt service payments	
AWS	\$1,823,900
CAWP	\$516,400
Lake Camanche	\$43,600
La Mel Heights	\$19,800
Rehab./replac. projects	\$160,000
Operating reserve	\$220,000
TOTAL	\$7,991,000



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Offsetting Non-Rate Revenue

Plymouth DS payments	\$189,300
PG&E contract payments	\$173,000
AWS partic. fees for DS	\$41,000
AWS CFD revenue for DS	\$120,200
CAWP-W revenue for DS	\$94,300
CAWP-W revenue for O&M	\$294,000
Misc. operating revenue	<u>\$91,100</u>
TOTAL	\$1,002,900



FY 12-13 Water Rate Revenue Requirement

Operation and maint. \$4,822,200
Rehab./replac. projects \$160,000
Operating reserves \$220,000
Debt service payments \$1,786,000
TOTAL REV. RQMT. \$6,988,200



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Water Rate Revenue Requirement Summary Total = \$6,988,200 Oper. Reserve 3% Oper. & Maint. 69% Rehab/Replac Projects 2%

Water Rate Revenue Requirement Summary

> Current rate revenues

\$6,477,000

> FY 12-13 rev. regmt.

\$6,988,500

> Increase

\$511,500

- > Proposed overall rate increase is 8%
 - About 2% less than without the AWS CFD



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Functional Cost Categories

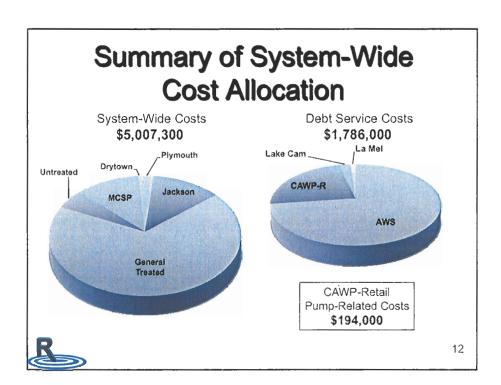
- > Customer cost
- > Administrative costs
- > Supply/transmission costs
- > Water treatment costs
- > Water distribution costs
- > Rehabilitation/replacement project costs
- > Operating reserve contribution
- > Debt service costs



Service/Demand Factors

- > No. of customer accounts
- > No. of equivalent meters
- > Annual water use
- > Maximum month water use
- > Service type (untreated, treated, resale)
- > Customer class (residential, non-residential, irrigation, industrial)





Water Rate Design

- > Water rates recover the costs of providing service to each customer class from each customer class
- > Three elements of rate structure:
 - Customer charge
 - Capacity charge
 - Usage charge
- > Revenue mix:
 - 50% from fixed service charges
 - 50% from water usage charges



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Water Rate Structure

- > Water usage rate
 - 3-tier rates for single family residential
 - Uniform rate for all other customer classes
 - Different rates for treated, untreated, MCSP, and resale
- > Monthly service charges
 - Based on size of water meter
 - Different charges for treated, untreated, MCSP, and each resale customer



Water Rate Structure - Continued

- > Monthly debt service charges
 - Varies for each water service area
 - Based on size of water meter
 - Individualized charges for MSCP and each resale customer
- > CAWP-Retail pumping surcharge
 - · Additional usage rate applied to all water use



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CAWP-Retail Pumping Surcharge

		-	_				
	With Existing Pump System			With GSL		Cost Savings	
Annual Pump-Related Costs (1)							
Pumping Energy	\$	271,000			\$	271,000	
Standby Power			\$	20,600	\$	(20,600)	
Power Foregone	\$	36,900	\$	87,100	\$	(50,200)	
SLP & TC Pump Station Maint	\$	77,300	\$	16,200	\$	61,100	
Total Pump-Related Costs	\$	385,200	\$	123,900	\$	261,300	
Annual CAWP-Wholesale Water F		279,800					
Cost Savings per 1,000 gal.	\$	0.93					
Unaccounted-For Water System L	ose Rate	(3)				-12%	
Pumping Surcharge per 1,000 gal.						1.06	
Pumping Surcharge per CCF					\$	0.79	

Notes:

- (1) From Agency's cost analysis of the GSL project.
- (2) CAWP-Wholesale water deliveries to CAWP-Retail and three retail agencies.
- (3) Based on the difference between CAWP-Wholesale deliveries into the CAWP-Retail service area and metered water sales within the CAWP-Retail service area.



Proposed Water Rates

Wa	iter Usage Rates (\$/	CCF)		Monthly Se	rvics	Charges		
		Treated Water			ŧ	intreated Water	Treated Water	
Single Fami	ily Residential	1.5		5/8" meter	\$	7.34	\$	12.5
Tier 1	0-10 CCF/mo.	\$	1.92	3/4" meter	S	8.89	\$	16.7
Tier 2	11-40 CCF/mo.	\$	2.40	1" meter	S	11.99	S	25.0
Tier 3	>40 CCF/mo.	\$	3.00	1 1/2" meter	S	19.73	S	45.7
Multi-Family	and Commercial	5	2.19	2" meter	S	29.03	S	70.7
Mule Creek	State Prison	\$	1.61	3" meter	S	53.80	S	137.1
Drytown, Pl	ymouth, Jackson	\$	1.21	4" meter	\$	81.68	S	211.9
S. See S.		Un	treated	6" meter	\$	159,11	\$	419.5
			Nater	2º Indus./Public meter	S	103.36		
Untreated In	rigation	\$	0.61	3º Indus./Public meter	5	202.47		
Untreated In	ndus, & Publ. Agen.	\$	0.61	4º Indus./Public meter	\$	313.97		
				6" Indus./Public meter	\$	623.70		
		Pum	p. Surch.	Mule Creek State Prison			S	11,42
CAWP Reta	il Customers Only (1)	S	0.79	Dryfown CWD			S	64
	7 - 1111			City of Plymouth			5	2,40
				City of Jackson			S	10,53



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Proposed Debt Service Charges

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	Amador Water System Service Area		Not Approved by Voters (2)		CAWP CFD Approved by Voters (2)		Lake Camanche Service Area		La Mel Heights: Service Ave	
5/8" meter	\$	14.90	\$	32.47	S	12.39	S	4.93	S	31.20
V4" meter	\$	22,35	\$	48.70	S	18,59	S	7.39	S	46.80
" meter	\$	37.26	\$	81.17	\$	30.98	5	12.32	S	78.00
1 f/2" meter	\$	74.51	\$	162.35	\$	61.95	\$	24.64	\$	155.99
meter	\$	119.22	S.	259.75	5	99.13	S	39.43	\$	249,58
meter	\$	238.44	S.	519.51	S	198.26				
meter	3.	372.56	\$	811.73	5	309.77				
meter	\$	745.13	S	1,623,46	\$	649.55				
Indus/Public meter	S	476.88								
3" Indus (Public meter	S	953.76								
Indus./Public meter	- 5	1,490.26							,	
6" Indus./Public meter	\$	2,980,51								
Mule Creek State Prison	S	11,922								
Drytown CWD	S	1,192								
City of Plymouth	S	5,469								
City of Jackson	\$	19,373								



CAWP Gravity Supply Line

- > Estimated cost = \$13.4 million
- > Financed with approved USDA grant/loan
 - \$5.08M grant (38%) and \$8.33M loan (62%)
 - Loan repaid at 3.25% over 40 years
 - Annual loan payment ~ \$412,800 (P+I+R)
- > Proposed CAWP CFD
 - · Special tax would pay off USDA loan
- > Eliminates extraordinary pump-related costs
- > Lower water bills for CAWP customers



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CAWP Pump Station Upgrades and Pipeline Replacement

- > Estimated cost = \$9.7 million
- > Bond or COP financing required
 - \$10.9M repaid over 30-years at 5.5%
 - Annual payment ~ \$750,000
- > Repay Interim WDF loan of \$900,000
 - Annual payment ~ \$161,200
- > Continues operation with high pump-related costs
- > Higher water bills for CAWP customers

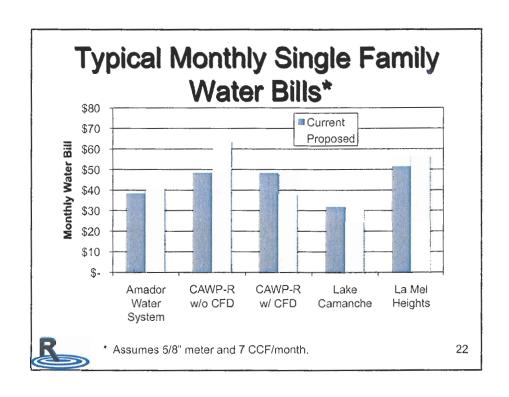


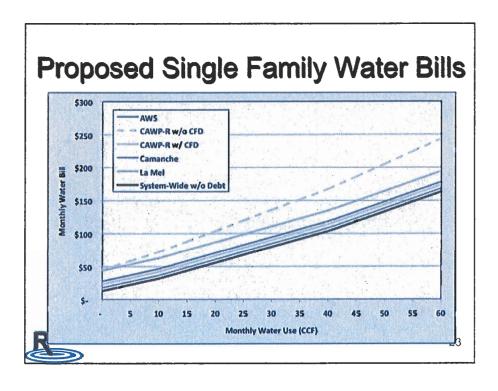
Typical Monthly Single Family Water Bills*

	Amador Water System	CAWP-R w/o CFD	CAWP-R w/ CFD	Lake Camanche	La Mel Heights
Usage Charge	\$13.44	\$13.44	\$13.44	\$13.44	\$13.44
Service Charge	\$12.55	\$12.55	\$12.55	\$12.55	\$12.55
DS Charge	\$14.90	\$32.47	\$12.39	\$4.93	\$31.20
Pump, Surcharge		\$5.53			
Bill Totals	\$40.89	\$63.99	\$38.38	\$30.92	\$57.19

^{*} Assumes 5/8" meter and median monthly usage of 7 CCF/month.







Summary of Recommendations

- > Adopt proposed new system-wide water rates for all water service areas
- > Adopt both debt service charge schedules for CAWP-Retail service area
 - Implement one or the other based on outcome of CAWP CFD election
- > Adopt provision to rescind CAWP-R pumping surcharge once GSL becomes operational
- Adopt procedures for annual inflationary adjustment to water usage rates and service charge



Benefits of Proposed System-Wide Water Rates

- > Accurately reflects the cost of providing service
- > Improves equity for all customers
- > Improves Agency's financial stability
- > Avoids more costly multiple, duplicative rate setting processes
- Reduces administrative and customer service costs
- > Helps avoid the need for additional internal loans
- > Supports more efficient budgeting and accounting practices



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Next Steps

- Prepare and mail required Notice of Public Hearing and least 45 days prior to holding a public hearing
- > Hold public hearing, consider comments, and tabulate any written protests
- Absent a majority protest, adopt new system-wide water rates and related recommendations

