APPENDIX A

BEFORE THE PUBLIC UTILITIES COMMISSION

OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) to Decrease Revenues for Water Service in its Coronado District by ($73,100) or (0.46%) in 2008 and Increase Revenues by $266,200 or 1.67% in 2009 and $260,900 or 1.61% in 2010.	Application 07-01-036 (Filed January 22, 2007)
And Related Matters.	Application 07-01-037 (Filed January 22, 2007) Application 07-01-038 (Filed January 22, 2007) Application 07-01-039 (Filed January 22, 2007)

SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES AND CALIFORNIA-AMERICAN WATER COMPANY AS TO CONSERVATION RATE DESIGN ISSUES FOR THE CORONADO AND VILLAGE DISTRICTS

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Dated: June 26, 2008

BEFORE THE PUBLIC UTILITIES COMMISSION

OF THE STATE OF CALIFORNIA

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I. GENERAL

A. Pursuant to Article 12 of the Rules of Practice and Procedure of the California Public Utilities Commission ("Commission"), the Division of Ratepayer Advocates ("DRA") and California-American Water Company (collectively, "the Parties") have agreed on the terms of this Settlement Agreement which they now submit for approval. This Settlement Agreement addresses conservation-oriented increasing block rates and the related decoupling mechanism Water Revenue Adjustment Mechanism ("WRAM").

B. Since this Settlement Agreement represents a compromise by them, the Parties have entered into each stipulation contained in the Settlement Agreement on the basis that its approval by the Commission not be construed as an admission or concession by any Party regarding any fact or matter of law in dispute in this proceeding. Furthermore, the Parties intend that the approval of this Settlement Agreement by the Commission not be construed as a precedent or statement of policy of any kind for or against any Party in any current or future proceeding. (Rule 12.5, Commission's Rules on Practice and Procedure.)

C. The Parties agree that if the Commission fails to adopt the provisions agreed to and contained in this Settlement Agreement or modifies them, either Party may terminate this Settlement Agreement and pursue all rights which either Party may have as of the execution date of this Settlement Agreement.

D. This Settlement Agreement embodies the entire understanding and agreement of the Parties with respect to matters described herein, and as to the matters

described herein, supersedes any and all prior oral or written agreements, principles, negotiations, statements, representations, or understandings among the Parties.

E. The Parties agree that no signatory to the Settlement Agreement assumes any personal liability as a result of their agreement. All rights and remedies of the Parties are limited to those available before the Commission. Furthermore, the Settlement Agreement is being presented as an integrated package such that the Parties are agreeing to the Settlement Agreement as a whole, as opposed to agreeing to specific elements of the Settlement Agreement.

F. This Settlement Agreement may be executed in counterparts, each of which shall be deemed an original, and the counterparts together shall constitute one and the same instrument.

G. This Settlement Agreement may be amended or changed only by a written agreement signed by the Parties.

II. BACKGROUND

A. California American Water provides service to approximately 20,944 customers (including Private Fire Service) in its Coronado District, which provides service in the Cities of Coronado and Imperial Beach, a portion of the City of San Diego lying south of San Diego Bay and a small area of South Chula Vista located in the County of San Diego. All of the water provided to the Coronado District is purchased from the City of San Diego.

California American Water provides service to approximately 20,389 customers (including Private Fire Service) in its Village District, which provides service in the Conejo Valley, including the City of Thousand Oaks. All water provided to the Village District is purchased from Callegus Municipal Water District.

B. The tariff sheets for the Coronado and Village Districts are listed. These tariff sheets reflect the revenue requirement the Commission adopted in its decision in the first phase of this proceeding.

1. Schedule No. [CORONADO]-1; General Metered Service
2. Schedule No. [CORONADO]-4; Private Fire Protection Service
3. Schedule No. [VILLAGE]-1; General Metered Service
4. Schedule No. [VILLAGE]-4; Private Fire Protection Service

C. All of the residential, commercial, industrial, public authority and "other" customers in the two districts have metered service connections. These customers are generally billed on a bimonthly basis in Coronado and a monthly basis in Village.

III. PILOT PROGRAM

A. Overview:

1. The Parties agree that the conservation rate design and related decoupling mechanism (WRAM) constitute a Pilot Program to become effective within 90 days after a Commission decision adopting the proposed settlement. This period will allow for the distribution of information regarding conservation rates to customers.

2. This Pilot Program will be reviewed in the next general rate case ("GRC") filing. The filing dates for the next GRC are pursuant to D.07-05-062 in the Commission's Rate Case Plan proceeding.

3. Disparate Impact: If implementation of the proposed Pilot Program results in a disparate impact on ratepayers or shareholders, the Parties agree to meet to discuss adjustments to the proposed Pilot Program.

B. Conservation Rates:

1. Conservation rate designs are proposed for all customer classes except "Other" and private fire protection service.[1] The customer classes included are: residential, commercial, industrial, and public authority.

2. Quantity Rates for Residential Customers: Residential customers will have an increasing quantity (or block) rate design. (Quantity or volumetric rates are used to recover a portion of fixed costs and 100% of the variable cost. In traditional rate design, quantity charges recover approximately 50% of the utility's fixed costs and 100% of the utility's variable costs.)

3. Quantity Rates for Non-Residential Customers (except private fire service and private hydrant service):[2] The following customer classes will have single quantity rates: commercial, industrial, public authority, pressure irrigation, and gravity irrigation.

4. Service Charges: Additional fixed costs will be moved from the meter charge into the quantity charge for the following customer classes: commercial, industrial, public authority, gravity irrigation, and pressure irrigation. (Service or meter charges are used to recover a portion of fixed costs. In traditional rate design, service charges recover approximately 50% of the utility's fixed costs.)

C. Rate Design Parameters:

1. Revenue Requirement: The revenue requirement for each district and customer class will be the same under conservation rates as they are under the current rate structure.

2. Consumption Data: The proposed conservation rate designs are based on consumption data from 2006 and 2007 because it is the most recent data available. The Parties evaluated this data using bill frequency analysis (consumption analysis) using meter readings from each of the districts.

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[1] The proposed rates in the Settlement Agreement are based upon the revenue requirements set forth in the proposed decision in Phase 1 of this proceeding.

[2] As defined in Section V.A.

3. To evaluate how much the service charge could be reduced (how much fixed cost could move to the quantity charge), the Parties considered conservation goals, such as consistency with Best Management Practices 11 of the California Urban Water Conservation Council,[3] and ratepayer impact. Ratepayer impact was evaluated through bill impact analysis as described in the Schedules section below.

D. Related Accounting Mechanism:

1. A Water Revenue Adjustment Mechanism (WRAM) will be authorized for each district.

IV. RESIDENTIAL CUSTOMERS

A. Service Charges

1. The portion of fixed cost recovered in the service charge is reduced to 50% of what was recovered under the traditional rate design.

2. Due to the movement of additional fixed costs to the quantity charge, a greater percentage of the total revenue requirement comes from the quantity charges.

B. Quantity Charges and Consumption Blocks

1. The Parties propose a three-tiered increasing block rate structure to replace the single quantity charge.

2. Consumption Blocks: To evaluate where to set the consumption break points between tiers, the Parties considered ratepayer impact, maintained revenue neutrality, and followed guidelines in the CUWCC Handbook,[4] and AWWA M1 manual.[5]

3. The three tiers of consumption blocks are based on seasonal averages as follows:

a. Tier 1 – Metered usage from zero units to the average annual use in the Coronado District, and the average winter use in the Village District, which the Parties agree provides a proxy for indoor water use and ensures consumers at low and average levels of consumption stay within Tier 1.

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[3] Memorandum of Understanding Regarding Urban Water Conservation in California. Best Management Practice 11, Retail Conservation Pricing. June 2007. pg 53-58. California Urban Water Conservation Council. 1/31/08 <http://www.cuwcc.org/uploads/memorandum/MOU-07-06-13.pdf>

[4] Chesnutt, Thomas; Beecher, Janice; Mann, Patrick; Clark, Don; Hanemann, Michael; Raftelis, George; McSpadden, Casey; Pekelney, David; Christianson, John; and Krop, Richard, Designing, Evaluating, and Implementing Conservation Rate Structures. A Handbook Sponsored by the California Urban Water Conservation Council (1997), Chapter 6 (Conservation Rate Design).

[5] American Water Works Association, Principles of Water Rates, Fees, and Charges, AWWA Manual M1, Fifth Edition, Denver (2000), Section III (Rate Design), Chapter 12 (Increasing Block Rates).

b. Tier 2 – Metered usage from the top of Tier 1 to average summer usage.

c. Tier 3 – All consumption above the top of Tier 2.

4. The three tiers of quantity charges are as follows:

(1) The rate for Tier 1 is approximately 3% higher than the current single quantity rate in the Village District and 10% higher than the current single quantity rate in the Coronado District.

(2) The rate for Tier 2 is designed to be approximately 15 % greater than the rate for Tier 1.

(3) The rate for Tier 3 is designed to be approximately 25% greater than the rate for Tier 1.

The three tiers of rates are designed to be revenue neutral for each customer class and in each district.

V. NON-RESIDENTIAL CUSTOMERS

A. For the commercial, industrial, public authority, gravity irrigation, and pressure irrigation customer classes, the Parties propose a conservation rate design consisting of a reduced service charge and a single (uniform) quantity charge for each customer class.

B. Quantity and Service Charges: The single quantity charge will recover a greater percentage of fixed cost than the single quantity charge that would result from the standard rate design currently in place consistent with the following:

1. Service charges will be reduced by approximately 50%, with corresponding increases in the quantity rate to achieve revenue recovery neutrality.

C. The Parties agree that rates for "Other" and Private Fire Protection Service will not change.

VI. MECHANISMS FOR DECOUPLING SALES AND REVENUE

A. The goals of the decoupling mechanisms in the Pilot Program are as follows:

1. Sever the relationship between sales and revenue to remove any disincentive for California American Water to implement conservation rates and conservation programs.

2. Ensure cost savings resulting from conservation are passed on to ratepayers.

3. Reduce overall water consumption by California American Water ratepayers.

B. Decoupling for California American Water will be accomplished through the

following mechanism:

1. A Water Revenue Adjustment Mechanism (WRAM) for the Coronado and Village districts.

2. This decoupling mechanism, along with California American Water's Incremental Cost Balancing Accounts, will ensure recovery of the adopted fixed costs recovered through the quantity charge, and the actual variable costs for purchased power, purchased water, and pump taxes.[6] The fixed costs not included in these accounts will be recovered through the service charge, which is a monthly charge that customers pay regardless of consumption.

3. In accordance with established Commission practice, the WRAM and account will accrue interest at the 90-day commercial paper rate.

VII. WATER REVENUE ADJUSTMENT MECHANISM (WRAM)

A. The WRAM will track the difference between the total quantity charge revenues authorized by the Commission ("Total Adopted Quantity Revenues"), and the total revenues actually recovered through the quantity charge based on actual sales ("Total Actual Quantity Revenues"), excluding:

1. Revenue from Private Fire Protection Service and;

2. Revenue from the "Other" class of general metered customers.

B. Page 27 of the Attachment provides an example of how the Parties intend for the WRAM to operate.

C. The Parties agree that there will be no net change in taxes associated with the WRAM accounts.

VIII. RECOVERY AND REFUND OF THE WRAM ACCOUNT

A. The Parties agree that conservation rates may cause the amount of water consumed, and thus the cost of water production, to vary from adopted levels.

B. The Parties agree that the desired outcome and purpose of using WRAMs is to ensure that the utility and ratepayers are proportionally affected when conservation rates are implemented.

1. In the context of this Settlement Agreement, a proportional impact means that, if consumption is over or under the forecast level, the effect on either the utility or ratepayers (as a whole) should reflect that the costs or savings resulting from changes in consumption will be accounted for in a way such that neither the utility or ratepayers are harmed, or benefited, at the expense of the other party.

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[6] As discussed in footnote 4, the Incremental Cost Balancing Accounts reflect changes in unit price (in this case, the unit price of purchased power, purchased water, or pump taxes. California American Water will consider adopting an MCBA to replace the existing Incremental Cost Balancing Accounts and to capture variations in cost due to either changes in unit price or changes in consumption.

C. Reporting and Interest Accrual Requirements:

1. By March 31st of each year, California American Water will provide the Water Division (with a copy to DRA) with a written report on the status of the WRAMs as described herein.

2. The written report will include a section on the WRAM in each district showing the revenue over- or under-collection with respect to actual (or recorded) water sales, by customer class, as of December 31st of the preceding calendar year. Differences between Total Adopted Quantity Revenues and Total Actual Quantity Revenues will be tracked in the WRAM and accrue interest at the 90-day commercial paper rate.

D. The Parties agree that the net balances of the WRAM account will be resolved in the following manner:

1. California American Water will track revenues in the WRAM account in each district by customer class for analysis purposes, but implementation of a surcharge or surcredit will be done considering the net balance of the WRAM account for all customer classes in each district.

2. If the annual report shows that the combined over- or under-collection for the WRAM in any district exceeds 2.5% of the service area's total recorded revenue requirement for the prior calendar year, California American Water will file an advice letter within 30 days that amortizes the balance in all of the WRAM account in the district.

3. If the 2.5% threshold is not met the WRAM balance from the prior year will be moved to the following year, and if the 2.5% threshold is not then met on a cumulative basis, then these balancing accounts will be amortized in the next GRC.

4. Recovery of under-collections and refunds of over-collections will be passed on to ratepayers through volumetric surcharges and surcredits.

IX. SCHEDULES

The Attachment provides rate design and bill information for residential and non-residential customers for the Coronado and Village districts.[7]

A. Coronado District

1. Worksheet 1 "Rate Design" shows the proposed rate design for residential, commercial, public authority, industrial, and other customers in the district. A description of the rate design changes appear at the top of each page of this worksheet.

2. Worksheet 2 "Typical Bills" shows the typical bills for six different residential customer profiles (small (25th percentile of customers), annual average, large (90th percentile of customers) and largest (largest recorded

[7] The name and number of each worksheet appear on the top right-hand corner of each page, and the name of the district appears on the top left-hand corner of each page.

monthly use in 2006-2007)). The profiles show what a customer fitting that profile would experience under the proposed conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

3. Worksheet 3 "Bills by Consumption" shows what residential customers will experience under the water conservation rate design during the as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges. In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

4. Worksheet 4 "Total Non-Res Bills" shows the typical bills and the impact of the proposed conservation rate design for four different non-residential customer profiles (small (25th percentile of customers), average and large (90th percentile of customers)) for each customer class included in the rate design changes (commercial, public authority, industrial, pressure irrigation, gravity irrigation).

5. Worksheet 5 "Total Bills" is a chart showing the change in the total bills for residential customers comparing current and proposed rates.

6. Worksheet 6 "Average Cost" is a chart showing the average unit cost per Ccf at various consumption levels, comparing current and proposed rates for residential customers.

7. Worksheet 7 "Marginal Cost" is a chart showing the marginal cost structure of the proposed rate structure (the unit cost per Ccf as a customer moves from tier to tier). The chart graphically depicts the steps in the rate structure as the price by tier changes.

B. Village District.

1. Worksheet 1 "Rate Design" shows the proposed rate design for residential, commercial, public authority, industrial, and other customers in the district. A description of the rate design changes appear at the top of each page of this worksheet.

2. Worksheet 2 "Typical Bills" shows the typical bills for six different residential customer profiles (small (25th percentile of customers), annual average, large (90th percentile of customers) and largest (largest recorded monthly use in 2006-2007)). The profiles show what a customer fitting that profile would experience under the proposed conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

3. Worksheet 3 "Bills by Consumption" shows what residential customers will experience under the water conservation rate design as compared with

the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges. In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

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7. Worksheet 7 "Marginal Cost" is a chart showing the marginal cost structure of the proposed rate structure (the unit cost per Ccf as a customer moves from tier to tier). The chart graphically depicts the steps in the rate structure as the price by tier changes.

X. MONITORING AND DATA COLLECTION

California American Water will track data, such as billing and usage data by meter size, by month, and by class of customer, for use in analyzing customer response to the proposed conservation rates so that it is readily available to the Commission and the Parties to evaluate results of this Pilot Program.

XI. RETURN ON EQUITY

A. The Commission opened Investigation ("I.") 07-01-022 (Water Conservation OII) to consider conservation rates and programs for Class A water utilities.

1. In Phase 1A of I.07-01-022, the Commission adopted WRAM/MCBA mechanisms for California Water Service Company ("CWS") and Park Water Company ("Park"), in conjunction with conservation rate designs, in D.08-02-036. The Parties agree that the WRAM account proposed in this Settlement is substantially similar to the WRAM/MCBA mechanisms adopted for CWS and Park.

2. In Phase 1B of I.07-01-022, the Commission is currently considering the effect of the WRAM/MCBA mechanisms on the returns on equity ("ROEs") of CWS and Park.

B. If the Commission adopts a generic basis point adjustment to ROE for companies that have WRAM/MCBA mechanisms that are similar to those approved for CWS and Park in D.08-02-036 in Phase 1B of I.07-01-022, the Parties agree that the same generic ROE adjustment should be applied to California American Water's Coronado and Village Districts, and:

1. The ROE adjustment shall be applied to California American Water's Coronado and Village Districts when the conservation rates in the Pilot Program are implemented, and shall continue for the duration of the Pilot Program;

2. If the Commission has not yet issued a decision in Phase 1B of I.07-01-022 by the time the conservation rates in the Pilot Program are implemented, the conservation rates in the Pilot Program shall be subject to true-up, to the date of implementation of those rates, for the purposes of implementing the ROE adjustment, and;

3. California American Water will consult with DRA prior to submitting an advice letter to implement the ROE adjustment.

C. If the Commission issues a decision regarding ROE in Phase 1B of I.07-01-022 that is not consistent with the generic ROE adjustment described in this Section, the Parties agree to meet to discuss how that decision should affect California American Water's Coronado and Village Districts during the Pilot Program.

Respectfully submitted,

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1. The ROE adjustment shall be applied to California American Water's Coronado and Village Districts when the conservation rates in the Pilot Program are implemented, and shall continue for the duration of the Pilot Program;

2. If the Commission has not yet issued a decision in Phase 1B of I.07-01-022 by the time the conservation rates in the Pilot Program are implemented, the conservation rates in the Pilot Program shall be subject to true-up, to the date of implementation of those rates, for the purposes of implementing the ROE adjustment, and;

3. California American Water will consult with DRA prior to submitting an advice letter to implement the ROE adjustment.

C. If the Commission issues a decision regarding ROE in Phase 1B of I.07-01-022 that is not consistent with the generic ROE adjustment described in this Section, the Parties agree to meet to discuss how that decision should affect California American Water's Coronado and Village Districts during the Pilot Program.

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June 26, 2008

ATTACHMENT

Settlement Agreement between the Division of Ratepayer Advocates and California-American Water on Conservation Rate Design Issues – Coronado and Village Districts (A.07-01-036 and A.07-01-039)

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Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Coronado**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Coronado**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (A.07-01-036)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Fire Hydrants**	**Other**	**Total**	**Source: A.07-01-036**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 8.04	$ 8.04	$ 8.04	$ 8.04	$ 18.63	$ 10.98	$ 8.04		5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protection Service base is 4"
Tariff - Quantity charge per ccf	$ 2.2825	$ 2.2825	$ 2.2825	$ 2.2825	$ -		$ 2.2825		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	20,925	7,316	2,309	0	277	167	217	31,210	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities - Sales in ccf	2,828,100 Ccf	2,054,981 Ccf	870,703 Ccf	0 Ccf	0 Ccf		41,278 Ccf	5,795,062 Ccf	
Adopted Revenue - Meter Charge	$ 2,018,844	$ 705,848	$ 222,724	$ -	$ 63,027	$ 22,004	$ 20,936	$ 3,053,383	
Adopted Revenue - Quantity Charge	$ 6,455,138	$ 4,690,494	$ 1,987,380	$ -	$ -	-	$ 94,217	$ 13,227,229	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 8,473,982	$ 5,396,342	$ 2,210,104	$ -	$ 63,027	$ 22,004	$ 115,153	$ 16,280,612	
Adopted Quantities - Supply Mix						$ 85,030.68		5,940,000 Ccf	Source:Comparison Exhibit of California American Water Company and DRA for Coronado District- A.07-01-03
Purchase Water (ccf)								5,940,000 Ccf	
Well water (ccf)								0 Ccf	
Adopted Water Loss Rate								2.44%	

	Residential	Commercial	Public Authority			**Overall**	**Comments**
Current Tariff - BMP 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%						
Meter Charge % revenue	23.82%	13.08%	10.08%	-		18.75%	
Quantity Charge % revenue	76.18%	86.92%	89.92%	-		81.25%	Residential, public authority, industrial and overall meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	-		100.00%	Overall calculation also meets BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District: **Cal Am, Coronado** **Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area **Coronado**
Proposal:

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b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff	**Source: Cal Am Rev Calcs Worksheet**				**Attachment A Comparison of Exhibits (A.07-01-036), and Rev Calcs**					
Meter Charge % revenue	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**GPM Ratio (ratio of flow by connection diameter)**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Fire Protection Service**	**Other**
5/8" x 3/4"	$ 8.04	$ 8.04		1.0	16,852	724	48	0		1
3/4" (no 3/4" meters in this district)	$ 12.06	$ 12.06		1.0	0	0	0	0		0
1"	$ 20.10	$ 20.10		2.5	1,292	488	27	0		2
1.5"	$ 40.20	$ 40.20		5.0	103	309	94	0		0
2"	$ 64.32	$ 64.32		8.0	41	434	136	0		2
3"	$ 120.60	$ 120.60		15.0	0	2	0	0		13
4"	$ 201.00	$ 201.00	$18.63	25.0	0	5	3	0	120	0
6"	$ 402.00	$ 402.00	$39.02	50.0	0	4	8	0	50	0
8"	$ 643.20	$ 643.20	$57.72	80.0	0	0	2	0	14	
10"	$ 825.00	$ 825.00	$85.85	100.0	0	0	0	0	3	
Fire Hydrants			$10.98						167	
Quantity Charges					**18,288**	**1,966**	**318**	**0**	**354**	**18**
Any usage level $/Ccf	**$ 2.28**	**$ 2.28**								

Adopted Equivalent Units

Residential	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service EU = 4"**	**Other**
16,852	724	48	0	0	1
0	0	0	0	0	0
3,230	1,220	68	0	0	5
515	1,545	470	0	0	0
328	3,472	1,088	0	0	16
0	30	0	0	0	195
0	125	75	0	120	0
0	200	400	0	100	0
0	0	160	0	45	0
0	0	0	0	12	0
20,925	**7,316**	**2,309**	**0**	**277**	**217**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Coronado**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Coronado**	
Proposal:		

a) IBR quantity design (3 tier) for residential
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c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Fire Hydrants**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 1,009,422	$ 352,924	$ 111,362	$ -	$ -	-	$ 10,468	$ 1,484,176	
Equivalent Units	20,925	7,316	2,309	0	277	167	217	31,210	Meter connections expressed as number of standard 5/8" meters
Meter Charge rev	$ 1,009,422	$ 352,924	$ 111,362	$ -	$ 63,027	$ 22,004	$ 10,468	$ 1,569,207	
Meter charge $/mo per EU	$ 4.02	$ 4.02	$ 4.02	$ -	$18.63	$10.98	$ 4.02	$ 4.19	$/mo per 5/8" equivalent unit
Adopted Sales ccf	2,828,100 Ccf	2,054,981 Ccf	870,703 Ccf	0 Ccf	0 Ccf	0 Ccf	41,278 Ccf	5,795,062 Ccf	
New quantity charge revenue target	$ 7,464,560	$ 5,043,418	$ 2,098,742	$ -			$ 104,685	$ 14,711,405	
New SQR	$ 2.639	$ 2.454	$ 2.410	$ -	$ -	$ -	$ 2.536	$ 2.539	Feeder cell changes quantity charge per ccf
								$16,280,612	

BMP 11 Threshold Test								**Overall**	**Comments**
Meter Charge % revenue	11.91%	6.54%	5.04%				N/A	N/A	9.64%	
Quantity Charge % revenue	88.09%	93.46%	94.96%						90.36%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%						100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Coronado**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Coronado**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Private Fire Protection Service**	**Other**	**Total**
Total Rev Req	$ 8,473,982	$ 5,396,342	$ 2,210,104	$ 85,031	$ 115,153	**$ 16,280,612**
Meter charge $/EU/mo	$ 4.02	$ 4.02	$ 4.02	N/A	$ 4.02	$ 4.19
Quantity charge if SQR	$ 2.639	$ 2.454	$ 2.410	N/A	$ 2.536	$ 2.539

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail						**Adopted Connections (D.07-11-014)**					
Size	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**Measured Irrigation Service**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 4.02	$ 4.02			1.00	16,852	724	48	0		1
3/4" (no 3/4" meters in this district)	$ 6.03	$ 6.03			1.00	0	0	0	0		0
1"	$ 10.05	$ 10.05			2.50	1,292	488	27	0		2
1.5"	$ 20.10	$ 20.10			5.00	103	309	94	0		0
2"	$ 32.16	$ 32.16			8.00	41	434	136	0		2
3"	$ 60.30	$ 60.30			15.00	0	2	0	0		13
4"	$ 100.50	$ 100.50	$18.63		25.00	0	5	3	0	120	0
6"	$ 201.00	$ 201.00	$39.02		50.00	0	4	8	0	50	0
8"	$ 321.60	$ 321.60	$57.72		80.00	0	0	2	0	14	0
10"	$ 412.50	$ 412.50	$85.85		115.00	0	0	0	0	3	0
						18,288	**1,966**	**318**	**0**	**187**	**18**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Coronado**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Coronado**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

	New	Current
RESIDENTIAL SQR	**$ 2.6394**	2.2825
New Quantity Revenue Target	**$ 7,464,560**	

Residential Rate Design	ccf/mo	% change from current SQR	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1	0 to 12	10%	-	0.9490	$ 2.5048	34.22%	71.96%	61.07%	2,035,101 Ccf	$ 5,097,551	68.50%
Tier 2	12 to 24	26%	15%	1.0914	$ 2.8805	41.31%	19.52%	30.70%	552,045 Ccf	$ 1,590,187	21.37%
Tier 3	>24	37%	25%	1.1863	$ 3.1310	24.48%	8.52%	8.23%	240,954 Ccf	$ 754,432	10.14%
Top of Tier - Break points	12					100.00%	100.00%	100.00%	2,828,100 Ccf	$ 7,442,170	100.00%
	24										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ 22,391** negative number means too much revenue collected
Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales) as % of New Res Q revenue target **0.30%**

Residential Bill Impacts

COMMERCIAL SQR	**$ 2.4542**	
New COMMERCIAL Q Revenue Target	**$ 5,043,418**	

	ccf/mo	SQR differentials	New proposed SQR	Ccf estimate sales	Rev estimate $ sales
All COMMERCIAL Meters	all	1.0000	$ 2.4542	2,054,981 Ccf	$ 5,043,418
TOTALS	**% increase in quantity rate**		**0.00%**	2,054,981 Ccf	$ 5,043,418

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR	**$ 2.4104**	
New PUBLIC AUTHORITY Q Revenue Target	**$ 2,098,742**	

	ccf/mo	SQR differentials	New proposed SQR	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters	all	1.0000	$ 2.4104	870,703 Ccf	$ 2,098,742
TOTALS	**% increase in quantity rate**		**0.00%**	870,703 Ccf	$ 2,098,742

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Coronado**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Coronado**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 7,464,560	$ 5,043,418	$ 2,098,742	$ -	$ 104,685	$ 14,711,405
Total Quantity Revenue	$ 7,442,170	$ 5,043,418	$ 2,098,742	$ -	$ 104,685	$ 14,689,014
Revenue Neutrality Check	$ 22,391	$ -	$ -	$ -	$ -	$ 22,391
Revenue Neutrality Check	0.30%	0.00%	0.00%	0.00%	0.00%	0.15%
Meter Charge Revenue	$ 1,009,422.00	$ 352,923.84	$ 111,362.04	$ 85,030.68	$ 10,468.08	**$ 1,569,206.64**
Total Revenue	$ 8,451,591.70	$ 5,396,341.81	$ 2,210,103.68	$ 85,030.68	$ 115,153.20	**$ 16,258,221.07**

Residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 8.04	$ 2.2825
Proposed	$ 4.02	
	Block 1 (winter)	$ 2.5048
	Block 2 (winter)	$ 2.8805
	Block 3 (winter)	$ 3.1310
Tier 1 Block	12	ccf
Tier 2 Block	24	ccf

"small user" represents the 20th percentile of customers
"large user" represents the 90th percentile of customers

small user		consumption	10 ccf/month
Current bill	$ 30.87		
block	rate	consumption	bill
0 to 12	$ 2.5048	10	$ 25.05
12 to 24	$ 2.8805	0	$ -
>24	$ 3.1310	0	$ -
		total bill	$ 29.07
		Percent change in bill	**-5.82%**
		$ change in bill	**$ (1.80)**

annual avg user		consumption	12 ccf/month
Current bill	$ 35.43		$ 40.00
block	rate	consumption	bill
0 to 12	$ 2.5048	12	$ 30.06
12 to 24	$ 2.8805	0	$ -
>24	$ 3.1310	0	$ -
		total bill	$ 34.08
		Percent change in bill	**-3.82%**
		$ change in bill	**$ (1.35)**

average winter user		consumption	9 ccf/month
Current bill	$ 28.58		
block		consumption	bill
0 to 12	$ 2.5048	9	$ 22.54
12 to 24	$ 2.8805	0	$ -
>24	$ 3.1310	0	$ -
		total bill	$ 26.56
		Percent change in bill	**-7.06%**
		$ change in bill	**$ (2.02)**

average summer user		consumption	15 ccf/month
Current bill	$ 42.28		
block		consumption	bill
0 to 12	$ 2.5048	12	$ 30.06
12 to 24	$ 2.8805	3	$ 8.64
>24	$ 3.1310	0	$ -
		total bill	$ 42.72
		Percent change in bill	**1.05%**
		$ change in bill	**$ 0.44**

Residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 8.04	$ 2.2825
Proposed	$ 4.02	
	Block 1 (winter)	$ 2.5048
	Block 2 (winter)	$ 2.8805
	Block 3 (winter)	$ 3.1310
Tier 1 Block	12 ccf	
Tier 2 Block	24 ccf	

"small user" represents the 20th percentile of customers
"large user" represents the 90th percentile of customers

large user		consumption	25 ccf/month	
Current bill	$ 65.10			
block	rate	consumption	bill	
0 to 12	$ 2.5048	12	$ 30.06	
12 to 24	$ 2.8805	12	$ 34.57	
>24	$ 3.1310	1	$ 3.13	
		total bill	$ 71.78	
		Percent change in bill		**10.25%**
		$ change in bill		**$ 6.67**

largest user		consumption	290 ccf/month	
Current bill	$ 669.97			
block	rate	consumption	bill	
0 to 12	$ 2.5048	12	$ 30.06	
12 to 24	$ 2.8805	12	$ 34.57	
>24	$ 3.1310	266	$ 832.85	
		total bill	$ 901.50	
		Percent change in bill		**34.56%**
		$ change in bill		**$ 231.53**

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Bill Impact Analysis at Various Usage Levels

	Ccf	Ccf
tier 1	12 tier 2	24

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(1) - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(2) - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
(3) - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(4) - Average unit cost is calculated as usage times proposed quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates						Change in Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $2.2825	Total current bill	Current avg unit cost	Meter Charge	Tier 1 $2.5048	Tier 2 $2.8805	Tier 3 $3.1310	Proposed total bill	Proposed avg unit cost	Dollar ($) Difference	Percent (%) Difference
0	8.04	0.00	8.04	0.00	4.02	0.00			4.02	0.0000	-4.02	-50.00%
1	8.04	2.28	10.32	2.28	4.02	2.50			6.52	2.5048	-3.80	-36.79%
2	8.04	4.57	12.61	2.28	4.02	5.01			9.03	2.5048	-3.58	-28.36%
3	8.04	6.85	14.89	2.28	4.02	7.51			11.53	2.5048	-3.35	-22.52%
4	8.04	9.13	17.17	2.28	4.02	10.02			14.04	2.5048	-3.13	-18.23%
5	8.04	11.41	19.45	2.28	4.02	12.52			16.54	2.5048	-2.91	-14.95%
6	8.04	13.70	21.74	2.28	4.02	15.03			19.05	2.5048	-2.69	-12.36%
7	8.04	15.98	24.02	2.28	4.02	17.53			21.55	2.5048	-2.46	-10.26%
8	8.04	18.26	26.30	2.28	4.02	20.04			24.06	2.5048	-2.24	-8.52%
9	8.04	20.54	28.58	2.28	4.02	22.54			26.56	2.5048	-2.02	-7.06%
10	8.04	22.83	30.87	2.28	4.02	25.05			29.07	2.5048	-1.80	-5.82%
11	8.04	25.11	33.15	2.28	4.02	27.55			31.57	2.5048	-1.57	-4.75%
12	8.04	27.39	35.43	2.28	4.02	30.06			34.08	2.5048	-1.35	-3.82%
13	8.04	29.67	37.71	2.28	4.02	30.06	2.88		36.96	2.5337	-0.75	-2.00%
14	8.04	31.96	40.00	2.28	4.02	30.06	5.76		39.84	2.5585	-0.16	-0.39%
15	8.04	34.24	42.28	2.28	4.02	30.06	8.64		42.72	2.5800	0.44	1.05%
16	8.04	36.52	44.56	2.28	4.02	30.06	11.52		45.60	2.5987	1.04	2.33%
17	8.04	38.80	46.84	2.28	4.02	30.06	14.40		48.48	2.6153	1.64	3.50%
18	8.04	41.09	49.13	2.28	4.02	30.06	17.28		51.36	2.6301	2.24	4.55%
19	8.04	43.37	51.41	2.28	4.02	30.06	20.16		54.24	2.6432	2.83	5.51%
20	8.04	45.65	53.69	2.28	4.02	30.06	23.04		57.12	2.6551	3.43	6.39%
21	8.04	47.93	55.97	2.28	4.02	30.06	25.92		60.00	2.6658	4.03	7.20%
22	8.04	50.22	58.26	2.28	4.02	30.06	28.81		62.88	2.6756	4.63	7.94%
23	8.04	52.50	60.54	2.28	4.02	30.06	31.69		65.76	2.6845	5.23	8.63%
24	8.04	54.78	62.82	2.28	4.02	30.06	34.57	0.00	68.64	2.6927	5.82	9.27%
25	8.04	57.06	65.10	2.28	4.02	30.06	34.57	3.13	71.78	2.7102	6.67	10.25%
26	8.04	59.35	67.39	2.28	4.02	30.06	34.57	6.26	74.91	2.7264	7.52	11.16%
27	8.04	61.63	69.67	2.28	4.02	30.06	34.57	9.39	78.04	2.7414	8.37	12.01%
28	8.04	63.91	71.95	2.28	4.02	30.06	34.57	12.52	81.17	2.7553	9.22	12.81%
29	8.04	66.19	74.23	2.28	4.02	30.06	34.57	15.66	84.30	2.7683	10.07	13.56%
30	8.04	68.48	76.52	2.28	4.02	30.06	34.57	18.79	87.43	2.7803	10.92	14.27%
31	8.04	70.76	78.80	2.28	4.02	30.06	34.57	21.92	90.56	2.7917	11.76	14.93%
32	8.04	73.04	81.08	2.28	4.02	30.06	34.57	25.05	93.69	2.8023	12.61	15.56%
33	8.04	75.32	83.36	2.28	4.02	30.06	34.57	28.18	96.82	2.8122	13.46	16.15%
34	8.04	77.61	85.65	2.28	4.02	30.06	34.57	31.31	99.95	2.8216	14.31	16.71%
35	8.04	79.89	87.93	2.28	4.02	30.06	34.57	34.44	103.09	2.8304	15.16	17.24%
36	8.04	82.17	90.21	2.28	4.02	30.06	34.57	37.57	106.22	2.8388	16.01	17.74%
37	8.04	84.45	92.49	2.28	4.02	30.06	34.57	40.70	109.35	2.8467	16.85	18.22%
38	8.04	86.74	94.78	2.28	4.02	30.06	34.57	43.83	112.48	2.8542	17.70	18.68%
39	8.04	89.02	97.06	2.28	4.02	30.06	34.57	46.97	115.61	2.8613	18.55	19.11%
40	8.04	91.30	99.34	2.28	4.02	30.06	34.57	50.10	118.74	2.8680	19.40	19.53%
50	8.04	114.13	122.17	2.28	4.02	30.06	34.57	81.41	150.05	2.9206	27.89	22.83%
60	8.04	136.95	144.99	2.28	4.02	30.06	34.57	112.72	181.36	2.9557	36.37	25.09%
70	8.04	159.78	167.82	2.28	4.02	30.06	34.57	144.03	212.67	2.9807	44.86	26.73%
80	8.04	182.60	190.64	2.28	4.02	30.06	34.57	175.34	243.98	2.9995	53.34	27.98%
90	8.04	205.43	213.47	2.28	4.02	30.06	34.57	206.65	275.29	3.0141	61.83	28.96%
100	8.04	228.25	236.29	2.28	4.02	30.06	34.57	237.96	306.60	3.0258	70.31	29.76%
110	8.04	251.08	259.12	2.28	4.02	30.06	34.57	269.27	337.91	3.0354	78.80	30.41%
120	8.04	273.90	281.94	2.28	4.02	30.06	34.57	300.58	369.22	3.0434	87.28	30.96%
130	8.04	296.73	304.77	2.28	4.02	30.06	34.57	331.89	400.53	3.0501	95.77	31.42%
140	8.04	319.55	327.59	2.28	4.02	30.06	34.57	363.20	431.84	3.0559	104.25	31.82%
150	8.04	342.38	350.42	2.28	4.02	30.06	34.57	394.51	463.15	3.0609	112.74	32.17%
160	8.04	365.20	373.24	2.28	4.02	30.06	34.57	425.82	494.46	3.0653	121.22	32.48%
170	8.04	388.03	396.07	2.28	4.02	30.06	34.57	457.13	525.77	3.0691	129.71	32.75%
180	8.04	410.85	418.89	2.28	4.02	30.06	34.57	488.44	557.08	3.0726	138.19	32.99%
190	8.04	433.68	441.72	2.28	4.02	30.06	34.57	519.75	588.39	3.0756	146.68	33.21%
200	8.04	456.50	464.54	2.28	4.02	30.06	34.57	551.06	619.70	3.0784	155.16	33.40%
300	8.04	684.75	692.79	2.28	4.02	30.06	34.57	864.16	932.81	3.0960	240.02	34.64%
400	8.04	913.00	921.04	2.28	4.02	30.06	34.57	1,177.26	1245.91	3.1047	324.87	35.27%
500	8.04	1141.25	1149.29	2.28	4.02	30.06	34.57	1,490.37	1559.01	3.1100	409.72	35.65%
600	8.04	1369.50	1377.54	2.28	4.02	30.06	34.57	1,803.47	1872.11	3.1135	494.57	35.90%
700	8.04	1597.75	1605.79	2.28	4.02	30.06	34.57	2,116.57	2185.21	3.1160	579.42	36.08%
800	8.04	1826.00	1834.04	2.28	4.02	30.06	34.57	2,429.67	2498.31	3.1179	664.27	36.22%
900	8.04	2054.25	2062.29	2.28	4.02	30.06	34.57	2,742.77	2811.42	3.1193	749.13	36.32%
1000	8.04	2282.50	2290.54	2.28	4.02	30.06	34.57	3,055.87	3124.52	3.1205	833.98	36.41%

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Village**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Village**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (A.0701039)	**Residential**	**Commercial**	**Public Authority**	**Industrial**		**Metered Construction**	**Total**	**Source: A.0701039**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$10.05	$ 10.05	$ 10.05	$ 10.05		$ 10.05		5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protection Service base is 4"
Tariff - Quantity charge per ccf	$2.19	$2.19	$2.19	$2.19		$ 2.1900		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	23,606	5,384	1,899	1,884		57	32,830	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities - Sales in ccf	5,242,500 Ccf	1,343,300 Ccf	512,000 Ccf	651,300 Ccf		26,600 Ccf	7,775,700 Ccf	
Adopted Revenue - Meter Charge	$ 2,846,884	$ 649,310	$ 229,019	$ 227,210		$ 6,874	$ 3,959,298	
Adopted Revenue - Quantity Charge	$ 11,481,075	$ 2,941,827	$ 1,121,280	$ 1,426,347		$ 58,254	$ 17,028,783	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 14,327,959	$ 3,547,200	$ 1,329,500	$ 1,654,000		$ 65,128	$ 20,988,081	
Adopted Quantities - Supply Mix							8,253,600 Ccf	From A.0701039, Comparison Exhibit Attachment A, Page 5
Purchase Water (ccf)							8,253,600 Ccf	
Well water (ccf)							0 Ccf	
Adopted Water Loss Rate							5.79%	

	Residential	Commercial	Public Authority				
Current Tariff - BMP 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%					**Overall**	**Comments**
Meter Charge % revenue	19.87%	18.08%	16.96%	13.74%	$2,846,884	18.86%	
Quantity Charge % revenue	80.13%	81.92%	83.04%	86.26%	$11,481,075	81.14%	Residential, public authority, industrial and overall meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%		100.00%	Overall calculation also meets BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District: Cal Am, Village — **Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area Village
Proposal:

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff	Source: Cal Am Rev Calcs Worksheet			Source: A.0701039					
Meter Charge % revenue	Residential	Commercial, Public Authority, Industrial, Other	GPM Ratio (ratio of flow by connection diameter)	Residential	Commercial	Public Authority	Industrial	Fire Protection Service	Metered Construction
5/8" x 3/4"	$ 10.05	$10.05	1.0	16,664	106	2	4		1
3/4" (no 3/4" meters in this district)	$ 10.05	$ 10.05	1.0	56	0	2	2		0
1"	$ 25.13	$ 25.13	2.5	2,404	110	34	6		0
1.5"	$ 50.25	$ 50.25	5.0	55	96	36	41		0
2"	$ 80.40	$ 80.40	8.0	62	421	60	86		7
3"	$ 150.75	$ 150.75	15.0	2	25	13	8		0
4"	$ 251.25	$ 251.25	25.0	3	26	21	18		0
6"	$ 502.50	$ 502.50	50.0	0	1	7	8		0
8"	$ 804.00	$ 804.00	80.0	0	1	1			
10"	$ 1,005.00	$ 1,005.00	100.0	0	0				
Fire Hydrants								167	
Quantity Charges				**19,246**	**786**	**176**	**173**	**167**	**8**
Any usage level $/Ccf	**$ 2.19**	**$ 2.19**							

Adopted Equivalent Units				
Residential	Commercial	Public Authority	Industrial	Metered Construction
16,664	106	2	4	1
56	0	2	2	0
6,010	275	85	15	0
275	480	180	205	0
496	3,368	480	688	56
30	375	195	120	0
75	650	525	450	0
0	50	350	400	0
0	80	80	0	0
0	0	0	0	0
23,606	**5,384**	**1,899**	**1,884**	**57**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Village**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Village**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**50%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 1,423,442	$ 324,655	$ 114,510	$ 113,605	$ 3,437	$ 1,979,649	
Equivalent Units	23,606	5,384	1,899	1,884	57	32,830	Meter connections expressed as number of standard 5/8" meters
Meter Charge rev	$ 1,423,442	$ 324,655	$ 114,510	$ 113,605	$ 3,437	$ 1,979,649	
Meter charge $/mo per EU	$ 5.03	$ 5.03	$ 5.03	$ -	$ 5.03	$ 5.03	$/mo per 5/8" equivalent unit
Adopted Sales ccf	5,242,500 Ccf	1,343,300 Ccf	512,000 Ccf	651,300 Ccf	26,600 Ccf	7,775,700 Ccf	
New quantity charge revenue target	$ 12,904,517	$ 3,266,482	$ 1,235,790	$ 1,539,952	$ 17,032,220	$ 35,978,961	
New SQR	$ 2.462	$ 2.432	$ 2.414	$ 2.364	$ 640.309	$ 4.627	Feeder cell changes quantity charge per ccf
						$37,958,610	

BMP 11 Threshold Test						**Overall**	**Comments**
Meter Charge % revenue	9.93%	9.04%	8.48%	N/A	N/A	5.22%	
Quantity Charge % revenue	90.07%	90.96%	91.52%			94.78%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Village**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Village**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Private Fire Protection Service**	**Other**	**Total**
Total Rev Req	$ 14,327,959	$ 3,591,137	$ 1,350,299	$ -	$ 17,035,657	**$ 36,305,053**
Meter charge $/EU/mo	$ 5.03	$ 5.03	$ 5.03	N/A	$ 5.03	$ 5.03
Quantity charge if SQR	$ 2.462	$ 2.432	$ 2.414	N/A	$ 640.309	$ 4.627

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail				**Adopted Connections (A.0701039)**					
Size	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$5.03	$5.03	1.00	16,664	106	2	4		1
3/4" (no 3/4" meters in this district)	$5.03	$5.03	1.00	56	0	2	2		0
1"	$12.56	$12.56	2.50	2,404	110	34	6		0
1.5"	$25.13	$25.13	5.00	55	96	36	41		0
2"	$40.20	$40.20	8.00	62	421	60	86		7
3"	$75.38	$75.38	15.00	2	25	13	8		0
4"	$125.63	$125.63	25.00	3	26	21	18	0	0
6"	$251.25	$251.25	50.00	0	1	7	8	0	0
8"	$402.00	$402.00	80.00	0	1	1	0	0	0
10"	$502.50	$502.50	115.00	0	0	0	0	0	0
						19,246	**786**	**176**	**173**

0

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Village**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Village**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
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d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

RESIDENTIAL SQR	**$**	**2.4615**
New Quantity Revenue Target	**$**	**12,904,517**

Residential Rate Design	ccf/mo	% change from current SQR	Tier Rate Percentage Differentials	Tier Rate Differentials		New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier	Ccf estimate sales in tier		Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1	0 to 15	3%	-	0.9164	$	2.2557	12.74%	54.99%	34.55%	2,882,909 Ccf	$	6,502,978	50.46%
Tier 2	15 to 26	18%	15%	1.0538	$	2.5941	32.11%	22.69%	36.11%	1,189,635 Ccf	$	3,085,978	23.94%
Tier 3	>26	29%	25%	1.1455	$	2.8196	55.15%	22.32%	29.34%	1,169,956 Ccf	$	3,298,838	25.60%
Top of Tier - Break points	15						100.00%	100.00%	100.00%	5,242,500 Ccf	$	12,887,794	100.00%
	26												

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ 16,723** negative number means too much revenue collected
Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales) as % of New Res Q revenue target **0.13%**

Residential Bill Impacts

COMMERCIAL SQR	**$**	**2.4317**
New COMMERCIAL Q Revenue Target	**$**	**3,266,482**

	ccf/mo	SQR differentials		New proposed SQR	Ccf estimate sales		Rev estimate $ sales
All COMMERCIAL Meters	all	1.0000	$	2.4317	1,343,300 Ccf	$	3,266,482
TOTALS	**% increase in quantity rate**			**0.00%**	1,343,300 Ccf	$	3,266,482

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR	**$**	**2.4137**
New PUBLIC AUTHORITY Q Revenue Target	**$**	**1,235,790**

	ccf/mo	SQR differentials		New proposed SQR	Ccf estimate sales in season		Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters	all	1.0000	$	2.4137	512,000 Ccf	$	1,235,790
TOTALS	**% increase in quantity rate**			**0.00%**	512,000 Ccf	$	1,235,790

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, Village**	**Revenue info from comparison of exhibits 2008; usage information from 2005-2006**
Service Area	**Village**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 12,904,517	$ 3,266,482	$ 1,235,790	$ -	$ 17,032,220	$ 35,978,961
Total Quantity Revenue	$ 12,887,794	$ 3,266,482	$ 1,235,790	$ -	$ 17,032,220	$ 34,422,286
Revenue Neutrality Check	$ 16,723	$ -	$ -	$ -	$ -	$ 1,556,675
Revenue Neutrality Check	0.13%	0.00%	0.00%	0.00%	0.00%	4.52%
Meter Charge Revenue	$ 1,423,441.80	$ 324,655.20	$ 114,509.70	$ -	$ 3,437.10	**$ 1,866,043.80**
Total Revenue	$ 14,311,235.37	$ 3,591,137.40	$ 1,350,299.40	$ -	$ 17,035,657.20	**$ 36,288,329.37**

Residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 10.05	$ 2.1900
Proposed	$ 5.03	
	Block 1	$ 2.2557
	Block 2	$ 2.5941
	Block 3	$ 2.8196
Tier 1 Block	15	ccf
Tier 2 Block	26	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

small user		consumption	12 ccf/month	
Current bill	$ 36.33			
block	rate	consumption	bill	
0 to 15	$ 2.2557	12	$ 27.07	
15 to 26	$ 2.5941	0	$ -	
>26	$ 2.8196	0	$ -	
		total bill	$ 32.09	
		Percent change in bill		**-11.66%**
		$ change in bill		**$ (4.24)**

annual avg user		consumption	21 ccf/month	
Current bill	$ 56.04		$ 40.00	
block	rate	consumption	bill	
0 to 15	$ 2.2557	15	$ 33.84	
15 to 26	$ 2.5941	6	$ 15.56	
>26	$ 2.8196	0	$ -	
		total bill	$ 54.42	
		Percent change in bill		**-2.88%**
		$ change in bill		**$ (1.62)**

average winter user		consumption	10.5 ccf/month	
Current bill	$ 33.05			
block		consumption	bill	
0 to 15	$ 2.2557	11	$ 23.68	
15 to 26	$ 2.5941	0	$ -	
>26	$ 2.8196	0	$ -	
		total bill	$ 28.71	
		Percent change in bill		**-13.12%**
		$ change in bill		**$ (4.34)**

average summer user		consumption	36 ccf/month	
Current bill	$ 88.89			
block		consumption	bill	
0 to 15	$ 2.2557	15	$ 33.84	
15 to 26	$ 2.5941	11	$ 28.53	
>26	$ 2.8196	10	$ 28.20	
		total bill	$ 95.59	
		Percent change in bill		**7.54%**
		$ change in bill		**$ 6.70**

Residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 10.05	$ 2.1900
Proposed	$ 5.03	
	Block 1	$ 2.2557
	Block 2	$ 2.5941
	Block 3	$ 2.8196
Tier 1 Block	15	ccf
Tier 2 Block	26	ccf

"small user" represents the 25th percentile of customers
"large user" represents the 90th percentile of customers

large user		consumption		41 ccf/month	
Current bill	$ 99.84				
block	rate	consumption		bill	
0 to 15	$ 2.2557	15	$	33.84	
15 to 26	$ 2.5941	11	$	28.53	
>26	$ 2.8196	15	$	42.29	
		total bill	$	109.69	
		Percent change in bill			**9.87%**
		$ change in bill		**$**	**9.85**

largest user		consumption		1022 ccf/month	
Current bill	$ 2,248.23				
block	rate	consumption		bill	
0 to 15	$ 2.2557	15	$	33.84	
15 to 26	$ 2.5941	11	$	28.53	
>26	$ 2.8196	996	$	2,808.35	
		total bill	$	2,875.74	
		Percent change in bill			**27.91%**
		$ change in bill		**$**	**627.51**

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Bill Impact Analysis at Various Usage Levels

	Ccf	Ccf
tier 1	15 tier 2	26

Change in Bills for Residential Customers with 5/8" x 3/4" Connections

(1) - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(2) - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
(3) - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(4) - Average unit cost is calculated as usage times proposed quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates						Change in Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $2.1900	Total current bill	Current avg unit cost	Meter Charge	Tier 1 $2.2557	Tier 2 $2.5941	Tier 3 $2.8196	Proposed total bill	Proposed avg unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.05	0.00	10.05	0.00	5.03	0.00			5.03	0.0000	-5.03	-50.00%
1	10.05	2.19	12.24	2.19	5.03	2.26			7.28	2.2557	-4.96	-40.52%
2	10.05	4.38	14.43	2.19	5.03	4.51			9.54	2.2557	-4.89	-33.91%
3	10.05	6.57	16.62	2.19	5.03	6.77			11.79	2.2557	-4.83	-29.05%
4	10.05	8.76	18.81	2.19	5.03	9.02			14.05	2.2557	-4.76	-25.32%
5	10.05	10.95	21.00	2.19	5.03	11.28			16.30	2.2557	-4.70	-22.36%
6	10.05	13.14	23.19	2.19	5.03	13.53			18.56	2.2557	-4.63	-19.97%
7	10.05	15.33	25.38	2.19	5.03	15.79			20.81	2.2557	-4.57	-17.99%
8	10.05	17.52	27.57	2.19	5.03	18.05			23.07	2.2557	-4.50	-16.32%
9	10.05	19.71	29.76	2.19	5.03	20.30			25.33	2.2557	-4.43	-14.90%
10	10.05	21.90	31.95	2.19	5.03	22.56			27.58	2.2557	-4.37	-13.67%
11	10.05	24.09	34.14	2.19	5.03	24.81			29.84	2.2557	-4.30	-12.60%
12	10.05	26.28	36.33	2.19	5.03	27.07			32.09	2.2557	-4.24	-11.66%
13	10.05	28.47	38.52	2.19	5.03	29.32	-		34.35	2.2557	-4.17	-10.83%
14	10.05	30.66	40.71	2.19	5.03	31.58	-		36.60	2.2557	-4.11	-10.08%
15	10.05	32.85	42.90	2.19	5.03	33.84	-		38.86	2.2557	-4.04	-9.42%
16	10.05	35.04	45.09	2.19	5.03	33.84	2.59		41.45	2.2768	-3.64	-8.06%
17	10.05	37.23	47.28	2.19	5.03	33.84	5.19		44.05	2.2955	-3.23	-6.83%
18	10.05	39.42	49.47	2.19	5.03	33.84	7.78		46.64	2.3121	-2.83	-5.72%
19	10.05	41.61	51.66	2.19	5.03	33.84	10.38		49.24	2.3269	-2.42	-4.69%
20	10.05	43.80	53.85	2.19	5.03	33.84	12.97		51.83	2.3403	-2.02	-3.75%
21	10.05	45.99	56.04	2.19	5.03	33.84	15.56		54.42	2.3524	-1.62	-2.88%
22	10.05	48.18	58.23	2.19	5.03	33.84	18.16		57.02	2.3634	-1.21	-2.08%
23	10.05	50.37	60.42	2.19	5.03	33.84	20.75		59.61	2.3734	-0.81	-1.34%
24	10.05	52.56	62.61	2.19	5.03	33.84	23.35		62.21	2.3826	-0.40	-0.64%
25	10.05	54.75	64.80	2.19	5.03	33.84	25.94		64.80	2.3910	0.00	0.00%
26	10.05	56.94	66.99	2.19	5.03	33.84	28.53		67.40	2.3989	0.41	0.60%
27	10.05	59.13	69.18	2.19	5.03	33.84	28.53	2.82	70.21	2.4144	1.03	1.50%
28	10.05	61.32	71.37	2.19	5.03	33.84	28.53	5.64	73.03	2.4289	1.66	2.33%
29	10.05	63.51	73.56	2.19	5.03	33.84	28.53	8.46	75.85	2.4424	2.29	3.12%
30	10.05	65.70	75.75	2.19	5.03	33.84	28.53	11.28	78.67	2.4550	2.92	3.86%
31	10.05	67.89	77.94	2.19	5.03	33.84	28.53	14.10	81.49	2.4667	3.55	4.56%
32	10.05	70.08	80.13	2.19	5.03	33.84	28.53	16.92	84.31	2.4777	4.18	5.22%
33	10.05	72.27	82.32	2.19	5.03	33.84	28.53	19.74	87.13	2.4881	4.81	5.85%
34	10.05	74.46	84.51	2.19	5.03	33.84	28.53	22.56	89.95	2.4979	5.44	6.44%
35	10.05	76.65	86.70	2.19	5.03	33.84	28.53	25.38	92.77	2.5070	6.07	7.00%
36	10.05	78.84	88.89	2.19	5.03	33.84	28.53	28.20	95.59	2.5157	6.70	7.54%
37	10.05	81.03	91.08	2.19	5.03	33.84	28.53	31.02	98.41	2.5239	7.33	8.05%
38	10.05	83.22	93.27	2.19	5.03	33.84	28.53	33.84	101.23	2.5317	7.96	8.54%
39	10.05	85.41	95.46	2.19	5.03	33.84	28.53	36.66	104.05	2.5391	8.59	9.00%
40	10.05	87.60	97.65	2.19	5.03	33.84	28.53	39.47	106.87	2.5461	9.22	9.44%
50	10.05	109.50	119.55	2.19	5.03	33.84	28.53	67.67	135.07	2.6008	15.52	12.98%
60	10.05	131.40	141.45	2.19	5.03	33.84	28.53	95.87	163.26	2.6373	21.81	15.42%
70	10.05	153.30	163.35	2.19	5.03	33.84	28.53	124.06	191.46	2.6633	28.11	17.21%
80	10.05	175.20	185.25	2.19	5.03	33.84	28.53	152.26	219.65	2.6829	34.40	18.57%
90	10.05	197.10	207.15	2.19	5.03	33.84	28.53	180.46	247.85	2.6981	40.70	19.65%
100	10.05	219.00	229.05	2.19	5.03	33.84	28.53	208.65	276.05	2.7102	47.00	20.52%
110	10.05	240.90	250.95	2.19	5.03	33.84	28.53	236.85	304.24	2.7202	53.29	21.24%
120	10.05	262.80	272.85	2.19	5.03	33.84	28.53	265.04	332.44	2.7285	59.59	21.84%
130	10.05	284.70	294.75	2.19	5.03	33.84	28.53	293.24	360.64	2.7355	65.89	22.35%
140	10.05	306.60	316.65	2.19	5.03	33.84	28.53	321.44	388.83	2.7415	72.18	22.80%
150	10.05	328.50	338.55	2.19	5.03	33.84	28.53	349.63	417.03	2.7467	78.48	23.18%
160	10.05	350.40	360.45	2.19	5.03	33.84	28.53	377.83	445.22	2.7512	84.77	23.52%
170	10.05	372.30	382.35	2.19	5.03	33.84	28.53	406.03	473.42	2.7553	91.07	23.82%
180	10.05	394.20	404.25	2.19	5.03	33.84	28.53	434.22	501.62	2.7588	97.37	24.09%
190	10.05	416.10	426.15	2.19	5.03	33.84	28.53	462.42	529.81	2.7620	103.66	24.33%
200	10.05	438.00	448.05	2.19	5.03	33.84	28.53	490.61	558.01	2.7649	109.96	24.54%
300	10.05	657.00	667.05	2.19	5.03	33.84	28.53	772.58	839.97	2.7832	172.92	25.92%
400	10.05	876.00	886.05	2.19	5.03	33.84	28.53	1,054.54	1121.93	2.7923	235.88	26.62%
500	10.05	1095.00	1105.05	2.19	5.03	33.84	28.53	1,336.50	1403.90	2.7977	298.85	27.04%
600	10.05	1314.00	1324.05	2.19	5.03	33.84	28.53	1,618.46	1685.86	2.8014	361.81	27.33%
700	10.05	1533.00	1543.05	2.19	5.03	33.84	28.53	1,900.43	1967.82	2.8040	424.77	27.53%
800	10.05	1752.00	1762.05	2.19	5.03	33.84	28.53	2,182.39	2249.78	2.8059	487.73	27.68%
900	10.05	1971.00	1981.05	2.19	5.03	33.84	28.53	2,464.35	2531.75	2.8075	550.70	27.80%
1000	10.05	2190.00	2200.05	2.19	5.03	33.84	28.53	2,746.31	2813.71	2.8087	613.66	27.89%

APPENDIX B

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BEFORE THE PUBLIC UTILITIES COMMISSION

OF THE STATE OF CALIFORNIA

Application of California-American Water Company (U210W) to Decrease Revenues for Water Service in its Coronado District by ($73,100) or (0.46%) in 2008 and Increase Revenues by $266,200 or 1.67% in 2009 and $260,900 or 1.61% in 2010.	Application 07-01-036 (Filed January 22, 2007)
And Related Matters.	Application 07-01-037 (Filed January 22, 2007) Application 07-01-038 (Filed January 22, 2007) Application 07-01-039 (Filed January 22, 2007)

SETTLEMENT AGREEMENT BETWEEN THE DIVISION OF RATEPAYER ADVOCATES, CALIFORNIA-AMERICAN WATER COMPANY AND MARK WEST AREA COMMUNITY SERVICES COMMITTEE ON CONSERVATION RATE DESIGN ISSUES FOR THE LARKFIELD DISTRICT

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Dated: June 27, 2008

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I. GENERAL

A. Pursuant to Article 12 of the Rules of Practice and Procedure of the California Public Utilities Commission ("Commission"), the Division of Ratepayer Advocates ("DRA"), California-American Water Company and Mark West Area Community Services Committee (collectively, "the Parties") have agreed on the terms of this Settlement Agreement which they now submit for approval. This Settlement Agreement addresses conservation-oriented increasing block rates and the related decoupling mechanisms, Water Revenue Adjustment Mechanism ("WRAM") and Modified Cost Balancing Accounts ("MCBAs").

B. Since this Settlement Agreement represents a compromise by them, the Parties have entered into each stipulation contained in the Settlement Agreement on the basis that its approval by the Commission not be construed as an admission or concession by any Party regarding any fact or matter of law in dispute in this proceeding. Furthermore, the Parties intend that the approval of this Settlement Agreement by the Commission not be construed as a precedent or statement of policy of any kind for or against any Party in any current or future proceeding. (Rule 12.5, Commission's Rules on Practice and Procedure.)

C. The Parties agree that if the Commission fails to adopt the provisions agreed to and contained in this Settlement Agreement or modifies them, either Party may terminate this Settlement Agreement and pursue all rights which either Party may have as of the execution date of this Settlement Agreement.

D. This Settlement Agreement embodies the entire understanding and agreement of the Parties with respect to matters described herein, and as to the matters described herein, supersedes any and all prior oral or written agreements, principles, negotiations, statements, representations, or understandings among the Parties.

E. The Parties agree that no signatory to the Settlement Agreement assumes any personal liability as a result of their agreement. All rights and remedies of the Parties are limited to those available before the Commission. Furthermore, the Settlement Agreement is being presented as an integrated package such that parties are agreeing to the Settlement Agreement as a whole, as opposed to agreeing to specific elements of the Settlement Agreement.

F. This Settlement Agreement may be executed in counterparts, each of which shall be deemed an original, and the counterparts together shall constitute one and the same instrument.

G. This Settlement Agreement may be amended or changed only by a written agreement signed by the Parties.

II. BACKGROUND

A. California American Water provides service to approximately 2,400 customers (including Private Fire Service) in its Larkfield District, which provides service in the Larkfield area of the city of Santa Rosa.

B. The tariff sheets for the Larkfield District are listed. These tariff sheets reflect the revenue requirement the Commission adopted in its decision in the first phase of this proceeding.

1. Schedule No. [LARKFIELD]-1; General Metered Service

2. Schedule No. [LARKFIELD]-4; Private Fire Protection Service

C. All of the residential, commercial, industrial and public authority customers have metered service connections. These customers are generally billed on a bimonthly basis.

III. PILOT PROGRAM

A. Overview:

1. The Parties agree that the conservation rate design and related decoupling mechanisms (WRAM and MCBA) constitute a Pilot Program to become effective within 90 days after a Commission decision adopting the proposed settlement. This period will allow for outreach and for the distribution of information that will educate customers as to the effects of the conservation rate design on their water bills.

2. This Pilot Program will be reviewed in the next general rate case ("GRC") filing. The filing dates for the next GRC are pursuant to D.07-05-062 in the Commission's Rate Case Plan proceeding.

   a. In the next GRC for the Larkfield District, California American Water will consider a five-tier increasing block rate structure in its conservation rate design proposal. As part of this effort, California American Water agrees to:

   (1) Collect data as to the number of dwelling units in the apartment buildings in the Larkfield District;

   (2) Make available to DRA metered consumption data for apartment building customers in the Larkfield District.

3. Disparate Impact: If implementation of the proposed Pilot Program results in a disparate impact on ratepayers or shareholders, the Parties agree to meet to discuss adjustments to the proposed Pilot Program.

B. Conservation Rates:

1. Conservation rate designs are proposed for all customer classes except private fire protection service.[1] The customer classes included are: residential, commercial, industrial, and public authority.

2. Quantity Rates for Residential Customers: Residential customers will have an increasing quantity (or block) rate design. (Quantity or volumetric rates are used to recover a portion of fixed costs and 100% of the variable cost. In traditional rate design, quantity charges recover approximately 50% of the utility's fixed costs and 100% of the utility's variable costs.)

3. Quantity Rates for Non-Residential Customers (except private fire service and private hydrant service):[2] The following customer classes will have single quantity: commercial, industrial and public authority.

4. Service Charges: Additional fixed costs will be moved from the meter charge into the quantity charge for the following customer classes: residential, commercial, industrial and public authority. (Service or meter charges are used to recover a portion of fixed costs. In traditional rate design, service charges recover approximately 50% of the utility's fixed costs.)

C. Rate Design Parameters:

---

[1] The proposed rates in the Settlement Agreement are based upon the revenue requirements set forth in the proposed decision in Phase 1 of this proceeding.

[2] As defined in Section V.A.

1. Revenue Requirement: The revenue requirement for the Larkfield District and customer class will be the same under conservation rates as they are under the current rate structure.

2. Consumption Data: The proposed conservation rate design is based on consumption data from 2007 because it is the most recent data available. The Parties evaluated this data using bill frequency analysis (consumption analysis) using meter readings from the Larkfield District.

3. To evaluate how much the service charge could be reduced (how much fixed cost could move to the quantity charge), the Parties considered conservation goals, such as consistency with Best Management Practices 11 of the California Urban Water Conservation Council,[3] and ratepayer impact. Ratepayer impact was evaluated through bill impact analysis as described in the Schedules section below.

D. Related Accounting Mechanisms:

1. A Water Revenue Adjustment Mechanism (WRAM) will be authorized for the Larkfield District.

2. Modified Cost Balancing Accounts (MCBAs) for purchased water and purchased power will be authorized for the Larkfield District.[4]

IV. RESIDENTIAL CUSTOMERS

A. Service Charges

1. The portion of fixed cost recovered in the service charge is reduced to 50% of what was recovered under the traditional rate design.

2. Due to the movement of additional fixed costs to the quantity charge, a greater percentage of the total revenue requirement comes from the quantity charges.

B. Quantity Charges and Consumption Blocks

1. The Parties propose a three-tiered increasing block rate structure to replace the single quantity charge.

2. Consumption Blocks: To evaluate where to set the consumption break points between tiers, the Parties considered ratepayer impact, maintained revenue neutrality, and followed guidelines in the CUWCC Handbook,[5] and AWWA M1 manual.[6]

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[3] Memorandum of Understanding Regarding Urban Water Conservation in California. Best Management Practice 11, Retail Conservation Pricing. June 2007. pg 53-58. California Urban Water Conservation Council. 1/31/08 <http://www.cuwcc.org/uploads/memorandum/MOU-07-06-13.pdf>

[4] Pump taxes are tracked in the purchased water balancing account for the Larkfield District.

[5] Chesnutt, Thomas; Beecher, Janice; Mann, Patrick; Clark, Don; Hanemann, Michael; Raftelis, George; McSpadden, Casey; Pekelney, David; Christianson, John; and Krop, Richard, Designing, Evaluating, and

3. The three tiers of consumption blocks are based on seasonal averages as follows:

   a. Tier 1 – Metered usage from zero units to the average winter usage, which the Parties agree provides a proxy for indoor water use and ensures consumers at low and average levels of consumption stay within Tier 1.

   b. Tier 2 – Metered usage from the top of Tier 1 to the average summer usage.

   c. Tier 3 – All consumption above the top of Tier 2.

4. The three tiers of quantity charges are as follows:

   (1) The rate for Tier 1 is approximately 9% higher than the current single quantity rate.

   (2) The rate for Tier 2 is designed to be approximately 15% greater than the rate for Tier 1.

   (3) The rate for Tier 3 is designed to be approximately 25% greater than the rate for Tier 1.

   The three tiers of rates are designed to be revenue neutral for each customer class and in the Larkfield District.

V. NON-RESIDENTIAL CUSTOMERS

A. For the commercial, industrial and public authority customer classes, the Parties propose a conservation rate design consisting of a reduced service charge and a single (uniform) quantity charge for each customer class.

B. Quantity and Service Charges: The single quantity charge will recover a greater percentage of fixed cost than the single quantity charge that would result from the standard rate design currently in place consistent with the following:

   1. Service charges will be reduced by approximately 50%, with corresponding increases in the quantity rate to achieve revenue recovery neutrality.

C. The Parties agree that rates for Private Fire Protection Service will not change.

Implementing Conservation Rate Structures. A Handbook Sponsored by the California Urban Water Conservation Council (1997), Chapter 6 (Conservation Rate Design).

[6] American Water Works Association, Principles of Water Rates, Fees, and Charges, AWWA Manual M1, Fifth Edition, Denver (2000), Section III (Rate Design), Chapter 12 (Increasing Block Rates).

VI. MECHANISMS FOR DECOUPLING SALES AND REVENUE

A. The goals of the decoupling mechanisms in the Pilot Program are as follows:

1. Sever the relationship between sales and revenue to remove any disincentive for California American Water to implement conservation rates and conservation programs.

2. Ensure cost savings resulting from conservation are passed on to ratepayers.

3. Reduce overall water consumption by California American Water ratepayers.

B. Decoupling for California American Water will be accomplished through both of the following mechanisms:

1. A Water Revenue Adjustment Mechanism (WRAM) for the Larkfield District

2. A Modified Cost Balancing Account (MCBA) for the Larkfield District. MCBAs will replace existing cost balancing accounts for purchased power, and purchased water (pump taxes are tracked in the purchased water balancing account for the district).

3. Together, these decoupling mechanisms will ensure recovery of the adopted fixed costs recovered through the quantity charge, and the actual variable costs for purchased power, purchased water, and pump taxes.[7] The fixed costs not included in these accounts will be recovered through the service charge, which is a monthly charge that customers pay regardless of consumption.

4. In accordance with established Commission practice, the WRAM and MCBA accounts will accrue interest at the 90-day commercial paper rate.

VII. WATER REVENUE ADJUSTMENT MECHANISM (WRAM)

A. The WRAM will track the difference between the total quantity charge revenues authorized by the Commission ("Total Adopted Quantity Revenues"), and the total revenues actually recovered through the quantity charge based on actual sales ("Total Actual Quantity Revenues"), excluding revenue from Private Fire Protection Service (Schedule No. LW-4).

B. The Parties agree that there will be no net change in taxes associated with the WRAM.

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[7] As discussed in footnote 8, infra, the revenue decoupling mechanisms also ensure recovery of other variable costs (such as chemicals and uncollectibles), which are de minimus, at adopted levels.

VIII. MODIFIED COST BALANCING ACCOUNT (MCBA)

A. A Modified Cost Balancing Account (MCBA) will replace any "incremental cost balancing accounts" (ICBAs) that California American Water currently has in its Larkfield District.

1. The costs of purchased water, purchased power, and pump taxes associated with the production of water can vary due to changes in unit cost, supply mix, or consumption amount.

2. An ICBA tracks cost changes attributable to changes in unit price, but not changes in the amount of consumption.

3. An MCBA tracks changes in price and quantity (amount of consumption), and will capture both cost savings and cost increases.

B. The MCBAs will capture the cost savings and cost increases associated with purchased water, purchased power, and pump taxes (all of which are recovered through the quantity charge under both the current and proposed rate designs).

C. The Larkfield District will have a separate balancing account for purchased power and purchased water. Pump taxes are tracked in the purchased water balancing account for the District.

D. In particular, for purchased water, purchased power, and pump taxes, the MCBAs will track the difference between the total variable costs authorized by the Commission ("Total Adopted Variable MCBA Costs"), and the total variable costs actually incurred ("Total Actual Variable MCBA Costs").[8]

IX. MAINTAINING LEAST-COST WATER MIX

A. With regard to changes in the water mix that result in changes in variable costs tracked in the MCBAs, California American Water stipulates that it will exercise due diligence in ensuring the least-cost water mix of its water sources.

B. Parties agree that the MCBA will track changes in purchased water (which in turn affects the amount of purchased power and pump taxes).

C. California American Water will make a showing in the next GRC filing demonstrating that it has exercised due diligence in ensuring the least-cost mix for its water sources, and that any significant change in water purchases was reasonable.

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[8] The other *de minimus* variable costs described in footnote 7, supra, are not tracked in the MCBAs because they are a small amount and do not vary significantly. Recovery of these other variable costs at adopted levels is ensured, however, because any under- or over-collection of the revenues associated with these costs is included in the WRAM balance. See Section VII, *infra*.

X. RECOVERY AND REFUND OF BALANCING ACCOUNTS

A. The Parties agree that conservation rates may cause the amount of water consumed, and thus the cost of water production, to vary from adopted levels.

B. The Parties agree that the desired outcome and purpose of using WRAMs and MCBAs is to ensure that the utility and ratepayers are proportionally affected when conservation rates are implemented.

1. In the context of this Settlement Agreement, a proportional impact means that, if consumption is over or under the forecast level, the effect on either the utility or ratepayers (as a whole) should reflect that the costs or savings resulting from changes in consumption will be accounted for in a way such that neither the utility or ratepayers are harmed, or benefited, at the expense of the other party.

C. Reporting and Interest Accrual Requirements: The Parties agree that the amounts in the WRAM and MCBA accounts will be reported as follows:

1. By March 31st of each year, California American Water will provide the Water Division (with a copy to DRA) a written report on the status of the WRAM and MCBAs as described herein.

2. WRAM: The written report will include a section on the WRAM showing the revenue over- or under-collection with respect to actual (or recorded) water sales, by customer class, as of December 31st of the preceding calendar year. Differences between Total Adopted Quantity Revenues and Total Actual Quantity Revenues will be tracked in the WRAM and accrue interest at the 90-day commercial paper rate.

3. MCBAs: The written report will include a section on the MCBA comparing Total Adopted MCBA Costs with Total Actual MCBA Costs as of December 31st of the preceding calendar year. Differences between Total Adopted MCBA Costs and Total Actual MCBA Costs will be tracked in the MCBAs and accrue interest at the 90-day commercial paper rate.

D. The Parties agree that the net balances of the WRAM and MCBA accounts will be resolved in the following manner:

1. The WRAM and MCBA accounts will always be considered together for the purposes of determining the need for additional revenue recovery from, or for refunds to, ratepayers in that service area, and will be netted prior to any refund or recovery.

2. California American Water will track revenues in the WRAM account by customer class for analysis purposes, but implementation of a surcharge or surcredit will be done considering the net balance of the WRAM and MCBA accounts for all customer classes in the Larkfield District except for fire service.

3. If the annual report shows that the combined over- or under-collection for the WRAM or the MCBA exceeds 2.5% of the District's total recorded revenue requirement for the prior calendar year, California American

Water will file an advice letter within 30 days that amortizes the balance in all of the WRAM and MCBA accounts.

4. If the 2.5% threshold is not met, these balancing accounts will be amortized in the next GRC.

5. Recovery of under-collections and refunds of over-collections will be passed on to ratepayers through volumetric surcharges and surcredits.

XI. SCHEDULES

The Attachment provides rate design and bill information for residential and non-residential customers for the Larkfield District.[9]

1. Worksheet 1 "Rate Design" shows the proposed rate design for residential, commercial, public authority, industrial, and other customers in the service area. A description of the rate design changes appear at the top of each page of this worksheet.

2. Worksheet 2 "Typical Bills" shows the typical bills for six different residential customer profiles (small (20th percentile of customers), annual average, winter average, summer average, large (90th percentile of customers) and largest (largest recorded monthly use in 2007)). The profiles show what a customer fitting that profile would experience under the proposed conservation rate design, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges). In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

3. Worksheet 3 "Bills by Consumption" shows what residential customers will experience under the water conservation rate design during the summer and the winter, as compared with the current uniform single quantity rate, for their total bill (consisting of the meter charge and the quantity charges. In particular, this worksheet shows the dollars and percent changes in total bills (at different consumption levels) between the current and the proposed rate designs.

4. Worksheet 4 "Total Non-Res Bills" shows the typical bills and the impact of the proposed conservation rate design for three different non-residential customer profiles (small (20th percentile of customers), annual average, and large (90th percentile of customers)) for each customer class included in the rate design changes (commercial, public authority and industrial).

5. Worksheet 5 "WRAM MCBA Example" shows an example of the way the Parties intend for the Water Revenue Adjustment Mechanism and Modified Cost Balancing Account to work together to decouple revenues from sales. This example assumes 10 percent water conservation is achieved.

[9] The name and number of each worksheet appear on the top right-hand corner of each page.

6. Worksheet 6 "Total Bills" is a chart showing the change in the total bills for residential customers comparing current and proposed rates in the winter and summer.

7. Worksheet 7 "Average Cost" is a chart showing the average unit cost per Ccf at various consumption levels, comparing current and proposed rates in the winter and summer for residential customers.

8. Worksheet 8 "Marginal Cost" is a chart showing the marginal cost structure of the proposed rate structure in the summer and winter (the unit cost per Ccf as a customer moves from tier to tier). The chart graphically depicts the steps in the rate structure as the price by tier changes.

XII. MONITORING AND DATA COLLECTION

California American Water will track data, such as billing and usage data by meter size, by month, and by class of customer, for use in analyzing customer response to the proposed conservation rates so that it is readily available to the Commission and the Parties to evaluate results of this Pilot Program.

XIII. RETURN ON EQUITY

A. The Commission opened Investigation ("I.") 07-01-022 (Water Conservation OII) to consider conservation rates and programs for Class A water utilities.

1. In Phase 1A of I.07-01-022, the Commission adopted WRAM/MCBA mechanisms for California Water Service Company (CWS") and Park Water Company ("Park"), in conjunction with conservation rate designs, in D.08-02-036. The Parties agree that the WRAM/MCBA mechanisms proposed in this Settlement are substantially similar to the WRAM/MCBA mechanisms adopted for CWS and Park.

2. In Phase 1B of I.07-01-022, the Commission is currently considering the effect of the WRAM/MCBA mechanisms on the returns on equity ("ROEs") of CWS and Park.

B. If the Commission adopts a generic basis point adjustment to ROE for companies that have WRAM/MCBA mechanisms that are similar to those approved for CWS and Park in D.08-02-036 in Phase 1B of I.07-01-022, the Parties agree that the same generic ROE adjustment should be applied to California American Water's Larkfield District, and:

1. The ROE adjustment shall be applied to California American Water's Larkfield District when the conservation rates in the Pilot Program are implemented, and shall continue for the duration of the Pilot Program;

2. If the Commission has not yet issued a decision in Phase 1B of I.07-01-022 by the time the conservation rates in the Pilot Program are implemented, the conservation rates in the Pilot Program shall be subject

to true-up, to the date of implementation of those rates, for the purposes of implementing the ROE adjustment, and;

3. California American Water will consult with DRA prior to submitting an advice letter to implement the ROE adjustment.

C. If the Commission issues a decision regarding ROE in Phase 1B of I.07-01-022 that is not consistent with the generic ROE adjustment described in this Section, the Parties agree to meet to discuss how that decision should affect California American Water's Larkfield District during the Pilot Program.

Respectfully submitted,

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June 27, 2008

to true-up, to the date of implementation of those rates, for the purposes of implementing the ROE adjustment, and;

3. California American Water will consult with DRA prior to submitting an advice letter to implement the ROE adjustment.

C. If the Commission issues a decision regarding ROE in Phase 1B of I.07-01-022 that is not consistent with the generic ROE adjustment described in this Section, the Parties agree to meet to discuss how that decision should affect California American Water's Larkfield District during the Pilot Program.

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June 27, 2008

Settlement Agreement between the Division of Ratepayer Advocates, California-American Water and Mark West Area Community Service Committee on Conservation Rate Design Issues – Larkfield District (A.07-01-037)

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APPENDIX B

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am**	**Revenue info from comparison of exhibits 2008; usage information from 2007**
Service Area:	**Larkfield**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (A.07-01-036)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Fire Hydrants**	**Other**	**Total**	**Source: A.07-01-037**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$18.80	$ 18.80	$ 18.80	$ 18.80	$ 15.52	$ -	$ 18.80		5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protection Service base is 4"
Tariff - Quantity charge per ccf	$3.87	$3.87	$3.87	$3.87	$ -		$ 3.8717		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	2,478	967	86	25	2,175	0	0	5,730	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities - Sales in ccf	366,200 Ccf	133,800 Ccf	12,000 Ccf	2,300 Ccf	0 Ccf	0 Ccf	0 Ccf	514,300 Ccf	
Adopted Revenue - Meter Charge	$ 558,826	$ 218,004	$ 19,285	$ 5,639	$ 12,206	$ -	$ -	$ 813,960	
Adopted Revenue - Quantity Charge	$ 1,417,817	$ 518,033	$ 46,460	$ 8,905	$ -	-	$ -	$ 1,991,215	Adopted Tariff times Adopted Quantities
Adopted Revenue - Total	$ 1,976,642	$ 736,038	$ 65,746	$ 14,544	$ 12,206	$ -	$ -	$ 2,805,175	
Adopted Quantities - Supply Mix						$ 12,205.56		5,940,000 Ccf	Source:Comparison Exhibit of California American Water Company & DRA for Larkfield District - A. 07-01-037.
Purchase Water (ccf)								5,940,000 Ccf	
Well water (ccf)								0 Ccf	
Adopted Water Loss Rate								2.44%	

Current Tariff - BMP 11 Threshold Test	Residential	Commercial	Public Authority	Industrial	**Overall**	**Comments**
	(quantity revenue/quantity revenue + meter revenue) > or = 70%					
Meter Charge % revenue	28.27%	29.62%	29.33%	38.77%	29.02%	
Quantity Charge % revenue	71.73%	70.38%	70.67%	61.23%	70.98%	Residential, public authority, industrial and overall meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%	100.00%	Overall calculation also meets BMP 11

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District: Cal Am — Revenue info from comparison of exhibits 2008; usage information from 2007
Service Area: Larkfield
Proposal:

a) IBR quantity design (3 tier) for residential
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c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff	Source: Cal Am Rev Calcs Worksheet				Attachment A Comparison of Exhibits (A.07-01-036), and Rev Calcs					
Meter Charge % revenue	Residential	Commercial, Public Authority, Industrial, Other	Private Fire Protection Service	GPM Ratio (ratio of flow by connection diameter)	Residential	Commercial	Public Authority	Industrial	Fire Protection Service	Other
5/8" x 3/4"	$ 18.80	$ 18.80		1.0	1,438	78	0	0	0	0
3/4" (no 3/4" meters in this district)	$ 28.20	$ 28.20		1.5	561	44	0	0	0	0
1"	$ 46.99	$ 46.99		2.5	66	89	1	0	0	0
1.5"	$ 93.98	$ 93.98	$ 7.76	5.0	5	45	0	0	1	0
2"	$ 150.37	$ 150.37		8.0	1	30	1	0	0	0
3"	$ 281.95	$ 281.95		15.0	0	4	0	0	0	0
4"	$ 469.92	$ 469.92	$ 15.52	25.0	0	3	3	1	18	0
6"	$ 939.84	$ 939.84	$ 23.30	50.0	0	0	0	0	18	0
8"	$ 1,503.74	$ 1,503.74	$ 31.06	80.0	0	0	0	0	9	0
10"	$ 1,879.67	$ 1,879.67	$ 38.83	100.0	0	0	0	0	1	0
									0	
Quantity Charges					**2,071**	**293**	**5**	**1**	**47**	**0**
Any usage level $/Ccf	**$ 3.87**	**$ 3.87**								

Adopted Equivalent Units

Residential	Commercial	Public Authority	Industrial	Private Fire Protection Service EU = 4"	Other
1,438	78	0	0	0	0
842	66	0	0	0	0
165	223	3	0	0	0
25	225	0	0	5	0
8	240	8	0	0	0
0	60	0	0	0	0
0	75	75	25	450	0
0	0	0	0	900	0
0	0	0	0	720	0
0	0	0	0	100	0
2,478	**967**	**86**	**25**	**2,175**	**0**
				3,555	

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am**	**Revenue info from comparison of exhibits 2008; usage information from 2007**
Service Area:	**Larkfield**	
Proposal:		

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Proposed Change in Revenue Requirement Allocation Between Meter and Quantity Charges and BMP 11 test

Proposed	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Fire Hydrants**	**Other**	**Total**	**Comments**
Reduce meter charge by	50%	50%	50%	50%	0%	0%	50%		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 279,413	$ 109,002	$ 9,643	$ 2,820	$ -	$ -	$ -	$ 400,877	
Equivalent Units	2,478	967	86	25	2,175	0	0	5,730	Meter connections expressed as number of standard 5/8" meters
Meter Charge rev	$ 279,413	$ 109,002	$ 9,643	$ 2,820	$ 12,206	$ -	$ -	$ 413,083	
Meter charge $/mo per EU	$ 9.40	$ 9.40	$ 9.40	$ 9.40	$ 0.47	$ -	$ -	$ 6.01	$/mo per 5/8" equivalent unit
Adopted Sales ccf	366,200 Ccf	133,800 Ccf	12,000 Ccf	2,300 Ccf	0 Ccf	0 Ccf	0 Ccf	514,300 Ccf	
New quantity charge revenue target	$ 1,697,229	$ 627,036	$ 56,103	$ 11,724			$ -	$ 2,392,093	
New SQR	$ 4.635	$ 4.686	$ 4.675	$ 5.098	$ -	$ -	$ -	$ 4.651	Feeder cell changes quantity charge per ccf
								$2,805,175	

BMP 11 Threshold Test								**Overall**	**Comments**
Meter Charge % revenue	14.14%	14.81%	14.67%	19.39%			N/A	N/A	14.73%	
Quantity Charge % revenue	85.86%	85.19%	85.33%	80.61%					85.27%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%					100.00%	

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am**	**Revenue info from comparison of exhibits 2008; usage information from 2007**
Service Area:	**Larkfield**	
Proposal:		

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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**
Total Rev Req	$ 1,976,642	$ 736,038	$ 65,746	$ 14,544	$ -	$ -	**$ 2,792,970**
Meter charge $/EU/mo	$ 9.40	$ 9.40	$ 9.40	$ 9.40	N/A	$ -	$ 6.01
Quantity charge if SQR	$ 4.635	$ 4.686	$ 4.675	$ 5.098	N/A	$ -	$ 4.651

"summer" = May 1 - October 31; "winter" = Nov 1 - April 31

Proposed Rate Detail						**Adopted Connections (D.07-11-014)**					
Size	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**Measured Irrigation Service**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 18.80	$ 18.80			1.00	1,438	78	0	0		0
3/4" (no 3/4" meters in this district)	$ 28.20	$ 28.20			1.00	561	44	0	0		0
1"	$ 46.99	$ 46.99			2.50	66	89	1	0		0
1.5"	$ 93.98	$ 93.98			5.00	5	45	0	0		0
2"	$ 150.37	$ 150.37			8.00	1	30	1	0		0
3"	$ 281.95	$ 281.95			15.00	0	4	0	0		0
4"	$ 469.92	$ 469.92	$ 31.66		25.00	0	3	3	1	18	0
6"	$ 939.84	$ 939.84	$ 47.48		50.00	0	0	0	0	18	0
8"	$ 1,503.74	$ 1,503.74	$ 63.31		80.00	0	0	0	0	9	0
10"	$ 1,879.67	$ 1,879.67	$ 79.13		115.00	0	0	0	0	1	0
						2,071	**293**	**5**	**1**	**46**	**0**

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am**	**Revenue info from comparison of exhibits 2008; usage information from 2007**
Service Area:	**Larkfield**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Proposed Quantity Rates ($/Ccf) and Revenue Neutrality Calculations

	New	Current
RESIDENTIAL SQR	**$ 4.6347**	3.8717
New Quantity Revenue Target	**$ 1,697,229**	

Residential Rate Design	ccf/mo	% change from current SQR	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption entirely within tier	portion of sales in tier	portion of customers in tier	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1	0 to 7	9%	-	0.9100	$ 4.2176	11.37%	46.56%	33.08%	170,503 Ccf	$ 719,109	42.26%
Tier 2	7 to 17	25%	15%	1.0465	$ 4.8502	36.83%	31.89%	43.24%	116,781 Ccf	$ 566,414	33.29%
Tier 3	> 17	36%	25%	1.1375	$ 5.2720	51.79%	21.55%	23.68%	78,916 Ccf	$ 416,044	24.45%
Top of Tier - Break points	7					100.00%	100.00%	100.00%	366,200 Ccf	$ 1,701,567	100.00%
	17										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ (4,338)** negative number means too much revenue collected

COMMERCIAL SQR	**$ 4.6864**	
New COMMERCIAL Q Revenue Target	**$ 627,036**	

	ccf/mo	SQR differentials	New proposed SQR	Ccf estimate sales	Rev estimate $ sales
All COMMERCIAL Meters	all	1.0000	$ 4.6864	133,800 Ccf	$ 627,036
TOTALS	**% increase in quantity rate**		**0.00%**	133,800 Ccf	$ 627,036

Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New COMMERCIAL Q revenue target - Total (COMMERCIAL Q sales) as % of new COMMERCIAL Q revenue target **0.00%**

PUBLIC AUTHORITY SQR	**$ 4.6753**	
New PUBLIC AUTHORITY Q Revenue Target	**$ 56,103**	

	ccf/mo	SQR differentials	New proposed SQR	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters	all	1.0000	$ 4.6753	12,000 Ccf	$ 56,103
TOTALS	**% increase in quantity rate**		**0.00%**	12,000 Ccf	$ 56,103

Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($) **$ -** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target **0.00%**

Worksheet 1: Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am**	**Revenue info from comparison of exhibits 2008; usage information from 2007**
Service Area:	**Larkfield**	
Proposal:		

a) IBR quantity design (3 tier) for residential
b) single quantity rate for commercial, public authority, and industrial (by service area and customer class)
c) WRAM
d) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

INDUSTRIAL SQR	**$**	**5.0976**						
New INDUSTRIAL Q Revenue Target	**$**	**11,724**						
		ccf/mo	SQR differentials	New proposed SQR	Ccf estimate sales in season	Rev estimate $ sales in season		
All INDUSTRIAL Meters		all	1.0000	$ 5.0976	2,300 Ccf	$ 11,724		
TOTALS		**% increase in quantity rate**		**0.00%**	2,300 Ccf	$ 11,724		
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales)) ($)							**$**	**-** negative number means too much revenue collected
Revenue Neutrality Check (New PUBLIC AUTHORITY Q revenue target - Total (PUBLIC AUTHORITY Q sales) as % of New PUBLIC AUTHORITY Q revenue target								**0.00%**

Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixed cost to reduce meter charge)	$ 1,697,229	$ 627,036	$ 56,103	$ 11,724	$ -	$ -	$ 2,392,093
Total Quantity Revenue	$ 1,701,567	$ 627,036	$ 56,103	$ 11,724	$ -	$ -	$ 2,396,430
Revenue Neutrality Check	$ (4,338)	$ -	$ -	$ -	$ -	$ -	$ (4,338)
Revenue Neutrality Check	-0.25%	0.00%	0.00%	0.00%	0.00%		-0.18%
Meter Charge Revenue	$ 279,412.95	$ 109,002.06	$ 9,642.71	$ 2,819.51	$ 12,205.56	$ -	**$ 413,082.78**
Total Revenue	$ 1,980,980.32	$ 736,037.59	$ 65,745.81	$ 14,543.92	$ 12,205.56	$ -	**$ 2,809,513.20**

Residential Customer Bill Impact Analysis
Worksheet 2: Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 18.80	$ 3.8717
Proposed	$ 9.40	
	Block 1 (winter)	$ 4.2176
	Block 2 (winter)	$ 4.8502
	Block 3 (winter)	$ 5.2720
Tier 1 Block	7	ccf
Tier 2 Block	17	ccf

"small user" represents the 20th percentile of customers
"large user" represents the 90th percentile of customers

small user		consumption	9 ccf/month
Current bill	$ 53.65		
block	rate	consumption	bill
0 to 7	$ 4.2176	7	$ 29.52
7 to 17	$ 4.8502	2	$ 9.70
> 17	$ 5.2720	0	$ -
		total bill	$ 48.62
		Percent change in bill	**-9.36%**
		$ change in bill	**$ (5.02)**

annual avg user		consumption	13 ccf/month
Current bill	$ 69.13		$ 40.00
block	rate	consumption	bill
0 to 7	$ 4.2176	7	$ 29.52
7 to 17	$ 4.8502	6	$ 29.10
> 17	$ 5.2720	0	$ -
		total bill	$ 68.02
		Percent change in bill	**-1.60%**
		$ change in bill	**$ (1.11)**

average winter user		consumption	9 ccf/month
Current bill	$ 53.65		
block		consumption	bill
0 to 7	$ 4.2176	7	$ 29.52
7 to 17	$ 4.8502	2	$ 9.70
> 17	$ 5.2720	0	$ -
		total bill	$ 48.62
		Percent change in bill	**-9.36%**
		$ change in bill	**$ (5.02)**

average summer user		consumption	17 ccf/month
Current bill	$ 84.62		
block		consumption	bill
0 to 7	$ 4.2176	7	$ 29.52
7 to 17	$ 4.8502	10	$ 48.50
> 17	$ 5.2720	0	$ -
		total bill	$ 87.42
		Percent change in bill	**3.31%**
		$ change in bill	**$ 2.80**

Residential Customer Bill Impact Analysis
Worksheet 2: Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

	Meter Charge	Q Charge
Current	$ 18.80	$ 3.8717
Proposed	$ 9.40	
	Block 1 (winter)	$ 4.2176
	Block 2 (winter)	$ 4.8502
	Block 3 (winter)	$ 5.2720
Tier 1 Block	7 ccf	
Tier 2 Block	17 ccf	

"small user" represents the 20th percentile of customers
"large user" represents the 90th percentile of customers

large user		consumption	46 ccf/month	
Current bill	$ 196.90			
block	rate	consumption	bill	
0 to 7	$ 4.2176	7	$ 29.52	
7 to 17	$ 4.8502	10	$ 48.50	
> 17	$ 5.2720	29	$ 152.89	
		total bill	$ 240.31	
		Percent change in bill		**22.05%**
		$ change in bill		**$ 43.41**

largest user		consumption	507 ccf/month	
Current bill	$ 1,981.75			
block	rate	consumption	bill	
0 to 7	$ 4.2176	7	$ 29.52	
7 to 17	$ 4.8502	10	$ 48.50	
> 17	$ 5.2720	490	$ 2,583.27	
		total bill	$ 2,670.69	
		Percent change in bill		**34.76%**
		$ change in bill		**$ 688.94**

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Worksheet 3: Bills by Consumption
Bill Impact Analysis at Various Usage Levels
Change in Bills for Residential Customers with 5/8" x 3/4" Connections

	Ccf		Ccf
tier 1	7	tier 2	17

(1) - Total current bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(2) - Average unit cost is calculated as usage times current quantity rate (which is a uniform/single quantity rate) divided by usage
(3) - Total proposed bill includes meter charge plus usage times quantity rate which is a uniform/single quantity rate
(4) - Average unit cost is calculated as usage times proposed quantity rates (which are tiered rates) divided by usage (ccf)
(5) - Change in bills refers to dollar and percent difference from current total to proposed total bills

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Rates						Change in Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $3.8717	Total current bill	Current avg unit cost	Meter Charge	Tier 1 $4.2176	Tier 2 $4.8502	Tier 3 $5.2720	Proposed total bill	Proposed avg unit cost	Dollar ($) Difference	Percent (%) Difference
0	18.80	0.00	18.80	0.00	9.40	0.00			9.40	0.0000	-9.40	-50.01%
1	18.80	3.87	22.67	3.87	9.40	4.22			13.62	4.2176	-9.06	-39.94%
2	18.80	7.74	26.54	3.87	9.40	8.44			17.83	4.2176	-8.71	-32.81%
3	18.80	11.62	30.42	3.87	9.40	12.65			22.05	4.2176	-8.36	-27.50%
4	18.80	15.49	34.29	3.87	9.40	16.87			26.27	4.2176	-8.02	-23.39%
5	18.80	19.36	38.16	3.87	9.40	21.09			30.49	4.2176	-7.67	-20.11%
6	18.80	23.23	42.03	3.87	9.40	25.31			34.70	4.2176	-7.33	-17.43%
7	18.80	27.10	45.90	3.87	9.40	29.52			38.92	4.2176	-6.98	-15.21%
8	18.80	30.97	49.77	3.87	9.40	29.52	4.85		43.77	4.2967	-6.00	-12.06%
9	18.80	34.85	53.65	3.87	9.40	29.52	9.70		48.62	4.3582	-5.02	-9.36%
10	18.80	38.72	57.52	3.87	9.40	29.52	14.55		53.47	4.4074	-4.04	-7.03%
11	18.80	42.59	61.39	3.87	9.40	29.52	19.40		58.32	4.4476	-3.07	-5.00%
12	18.80	46.46	65.26	3.87	9.40	29.52	24.25		63.17	4.4812	-2.09	-3.20%
13	18.80	50.33	69.13	3.87	9.40	29.52	29.10		68.02	4.5096	-1.11	-1.60%
14	18.80	54.20	73.00	3.87	9.40	29.52	33.95		72.87	4.5339	-0.13	-0.18%
15	18.80	58.08	76.88	3.87	9.40	29.52	38.80		77.72	4.5550	0.85	1.10%
16	18.80	61.95	80.75	3.87	9.40	29.52	43.65		82.57	4.5734	1.83	2.26%
17	18.80	65.82	84.62	3.87	9.40	29.52	48.50		87.42	4.5897	2.80	3.31%
18	18.80	69.69	88.49	3.87	9.40	29.52	48.50	5.27	92.70	4.6276	4.20	4.75%
19	18.80	73.56	92.36	3.87	9.40	29.52	48.50	10.54	97.97	4.6615	5.61	6.07%
20	18.80	77.43	96.23	3.87	9.40	29.52	48.50	15.82	103.24	4.6921	7.01	7.28%
21	18.80	81.31	100.11	3.87	9.40	29.52	48.50	21.09	108.51	4.7197	8.41	8.40%
22	18.80	85.18	103.98	3.87	9.40	29.52	48.50	26.36	113.78	4.7448	9.81	9.43%
23	18.80	89.05	107.85	3.87	9.40	29.52	48.50	31.63	119.06	4.7677	11.21	10.39%
24	18.80	92.92	111.72	3.87	9.40	29.52	48.50	36.90	124.33	4.7887	12.61	11.28%
25	18.80	96.79	115.59	3.87	9.40	29.52	48.50	42.18	129.60	4.8080	14.01	12.12%
26	18.80	100.66	119.46	3.87	9.40	29.52	48.50	47.45	134.87	4.8259	15.41	12.90%
27	18.80	104.54	123.34	3.87	9.40	29.52	48.50	52.72	140.14	4.8424	16.81	13.63%
28	18.80	108.41	127.21	3.87	9.40	29.52	48.50	57.99	145.42	4.8578	18.21	14.31%
29	18.80	112.28	131.08	3.87	9.40	29.52	48.50	63.26	150.69	4.8720	19.61	14.96%
30	18.80	116.15	134.95	3.87	9.40	29.52	48.50	68.54	155.96	4.8854	21.01	15.57%
31	18.80	120.02	138.82	3.87	9.40	29.52	48.50	73.81	161.23	4.8978	22.41	16.14%
32	18.80	123.89	142.69	3.87	9.40	29.52	48.50	79.08	166.50	4.9095	23.81	16.69%
33	18.80	127.77	146.57	3.87	9.40	29.52	48.50	84.35	171.78	4.9205	25.21	17.20%
34	18.80	131.64	150.44	3.87	9.40	29.52	48.50	89.62	177.05	4.9309	26.61	17.69%
35	18.80	135.51	154.31	3.87	9.40	29.52	48.50	94.90	182.32	4.9406	28.01	18.15%
36	18.80	139.38	158.18	3.87	9.40	29.52	48.50	100.17	187.59	4.9498	29.41	18.59%
37	18.80	143.25	162.05	3.87	9.40	29.52	48.50	105.44	192.86	4.9585	30.81	19.01%
38	18.80	147.12	165.92	3.87	9.40	29.52	48.50	110.71	198.14	4.9668	32.21	19.41%
39	18.80	151.00	169.80	3.87	9.40	29.52	48.50	115.98	203.41	4.9746	33.61	19.79%
40	18.80	154.87	173.67	3.87	9.40	29.52	48.50	121.26	208.68	4.9820	35.01	20.16%
50	18.80	193.59	212.39	3.87	9.40	29.52	48.50	173.98	261.40	5.0400	49.01	23.08%
60	18.80	232.30	251.10	3.87	9.40	29.52	48.50	226.70	314.12	5.0787	63.02	25.10%
70	18.80	271.02	289.82	3.87	9.40	29.52	48.50	279.41	366.84	5.1063	77.02	26.58%
80	18.80	309.74	328.54	3.87	9.40	29.52	48.50	332.13	419.56	5.1270	91.02	27.71%
90	18.80	348.45	367.25	3.87	9.40	29.52	48.50	384.85	472.28	5.1431	105.03	28.60%
100	18.80	387.17	405.97	3.87	9.40	29.52	48.50	437.57	525.00	5.1560	119.03	29.32%
110	18.80	425.89	444.69	3.87	9.40	29.52	48.50	490.29	577.72	5.1665	133.03	29.92%
120	18.80	464.60	483.40	3.87	9.40	29.52	48.50	543.01	630.44	5.1753	147.03	30.42%
130	18.80	503.32	522.12	3.87	9.40	29.52	48.50	595.73	683.16	5.1828	161.04	30.84%
140	18.80	542.04	560.84	3.87	9.40	29.52	48.50	648.45	735.88	5.1891	175.04	31.21%
150	18.80	580.76	599.56	3.87	9.40	29.52	48.50	701.17	788.60	5.1947	189.04	31.53%
160	18.80	619.47	638.27	3.87	9.40	29.52	48.50	753.89	841.32	5.1995	203.04	31.81%
170	18.80	658.19	676.99	3.87	9.40	29.52	48.50	806.61	894.04	5.2038	217.05	32.06%
180	18.80	696.91	715.71	3.87	9.40	29.52	48.50	859.33	946.76	5.2075	231.05	32.28%
190	18.80	735.62	754.42	3.87	9.40	29.52	48.50	912.05	999.48	5.2109	245.05	32.48%
200	18.80	774.34	793.14	3.87	9.40	29.52	48.50	964.77	1052.20	5.2140	259.06	32.66%
300	18.80	1161.51	1180.31	3.87	9.40	29.52	48.50	1,491.97	1579.39	5.2333	399.08	33.81%
400	18.80	1548.68	1567.48	3.87	9.40	29.52	48.50	2,019.17	2106.59	5.2430	539.11	34.39%
500	18.80	1935.85	1954.65	3.87	9.40	29.52	48.50	2,546.37	2633.79	5.2488	679.14	34.74%
600	18.80	2323.02	2341.82	3.87	9.40	29.52	48.50	3,073.56	3160.99	5.2526	819.17	34.98%
700	18.80	2710.19	2728.99	3.87	9.40	29.52	48.50	3,600.76	3688.19	5.2554	959.20	35.15%
800	18.80	3097.36	3116.16	3.87	9.40	29.52	48.50	4,127.96	4215.38	5.2575	1099.22	35.27%
900	18.80	3484.53	3503.33	3.87	9.40	29.52	48.50	4,655.16	4742.58	5.2591	1239.25	35.37%
1000	18.80	3871.70	3890.50	3.87	9.40	29.52	48.50	5,182.36	5269.78	5.2604	1379.28	35.45%