ATTACHMENT

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Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue information from estimated year 2007; usage information from 2006-200**
Service Area	**Baldwin Hills**	
Proposal:		

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

Current Tariff & Quantities (D.07-11-014)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030)**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 31.65	$ 10.19		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	$ 1.8905	$ 1.8905	$ 1.8905	$ 1.8905	$ -	$ 1.8905		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	8,206	1,626	134	50	68	30	10,113	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities (2007) -Sales in ccf	1,179,800 Ccf	262,287 Ccf	46,055 Ccf	110,160 Ccf	0 Ccf	881 Ccf	1,599,183 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 1,003,048	$ 198,633	$ 16,309	$ 6,108	$ 18,600	$ 3,665	$ 1,246,363	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity charge	$ 2,230,412	$ 495,854	$ 87,067	$ 208,257	$ -	$ 1,666	$ 3,023,255	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 3,233,460	$ 694,487	$ 103,376	$ 214,365	$ 18,600	$ 5,330	$ 4,269,618	
Adopted Quantities - Supply Mix							1,670,090 Ccf	
Purchase Water (ccf)							769,705 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)							900,385 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate							4.24%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Current Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%						**Overall**	**Comments**
Meter Charge % revenue	31.02%	28.60%	15.78%	29.19%	N/A	N/A	29.19%	
Quantity Charge % revenue	68.98%	71.40%	84.22%	70.81%			70.81%	Residential does not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

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Adopted Tariff					**Adopted Connections (D.07-11-014)**					
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**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		1.00	3,842	251	1	0		
3/4" (no 3/4" meters in this district)	$ 10.19	$ 10.19		1.00	0	0	0	0		
1"	$ 25.46	$ 25.46		2.50	1,691	265	7	0		
1.5"	$ 50.90	$ 50.90		5.00	11	48	4	0		
2"	$ 81.44	$ 81.44		8.00	7	49	10	0		
3"	$ 152.70	$ 152.70		15.00	0	2	1	0		2
4"	$ 254.50	$ 254.50	$ 31.65	25.00	1	2	0	2	6	
6"	$ 509.00	$ 509.00	$ 47.48	50.00	0	0	0	0	20	
8"	$ 814.40	$ 814.40	$ 63.31	80.00	0	0	0	0	7	
10"	$ 1,170.70	$ 1,170.70	$ 79.13	115.00	0	0	0	0	0	
Quantity Charges					**5,552**	**617**	**23**	**2**	**33**	**2**
Any usage level $/Cc	**$ 1.89**	**$ 1.89**								

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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**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to								
Quantity charge revenue target	$ 502,177	$ 99,481	$ 8,155	$ 3,054	$ -	$ -	$ 612,866	
Equivalent Units	8,206	1,626	134	50	68	30	10,113	Meter connections expressed as number of standard 5/8" meters
Meter chg rev	$ 502,177	$ 99,152	$ 8,155	$ 3,054	$ 18,600	$ 3,665	$ 634,802	
Meter chg $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.70	$ 10.20	$ 5.20	$/mo per 5/8" equivalent unit
Adopted Sales ccf	1,179,800 Ccf	262,287 Ccf	46,055 Ccf	110,160 Ccf	0 Ccf	881 Ccf	1,442,087 Ccf	
New quantity charge revenue target	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153	
New SQR	$ 2.315	$ 2.269	$ 2.068	$ 1.918	N/A	$ 6.050	$ 2.275	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test							**Overall**	**Comments**
Meter Charge % revenue	15.53%	14.28%	7.89%	1.42%	N/A	N/A	14.86%	
Quantity Charge % revenue	84.47%	85.72%	92.11%	98.58%			85.14%	As long as quantity charge % revenues are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	
Total Revenue Requirement	$ 3,233,460	$ 694,158	$ 103,376	$ 214,365	$ 18,600	$ 8,995	**$ 4,272,955**
Meter charge $/EU/mo	$ 5.10	$ 5.10	$ 5.10	$ 5.10	N/A	$ 10.20	$ 5.20
Quantity charge if SQR	$ 2.315	$ 2.269	$ 2.068	$ 1.918	N/A	$ 6.050	$ 2.275

"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**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 5.10	$ 5.10	1.00	3,842	251	1	0		
3/4" (no 3/4" meters in this district)	$ 5.10	$ 5.10	1.00	0	0	0	0		
1"	$ 12.75	$ 12.75	2.50	1,691	265	7	0		
1.5"	$ 25.50	$ 25.50	5.00	11	48	4	0		
2"	$ 40.80	$ 40.80	8.00	7	49	10	0		
3"	$ 76.50	$ 76.50	15.00	0	2	1	0		2
4"	$ 127.50	$ 127.50	25.00	1	2	0	2	6	
6"	$ 255.00	$ 255.00	50.00	0	0	0	0	20	
8"	$ 408.00	$ 408.00	80.00	0	0	0	0	7	
10"	$ 586.50	$ 586.50	115.00	0	0	0	0	0	
				5,552	**617**	**23**	**2**	**33**	**2**

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

RESIDENTIAL SQR	**$**	**2.3150**
New Quantity Revenue Targe	**$**	**2,731,283**

Residential Rate Design	Top of Tier (monthly)	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 13	-	0.9445	$ 2.1865	9.29%	29.13%	18.88%	44.72%	343,636 Ccf	$ 751,367	27.51%
Tier 2 winter	13 to 33	10%	1.0389	$ 2.4052	26.95%	13.17%	22.73%		155,428 Ccf	$ 373,830	13.69%
Tier 3 winter	>33	20%	1.1334	$ 2.6238	8.48%	2.42%	3.11%		28,576 Ccf	$ 74,977	2.75%
Tier 1 summer	no change	-	0.9445	$ 2.1865	6.73%	31.03%	18.26%	55.28%	366,048 Ccf	$ 800,370	29.30%
Tier 2 summer	no change	15%	1.0862	$ 2.5145	32.55%	19.87%	30.06%		234,376 Ccf	$ 589,338	21.58%
Tier 3 summer	no change	25%	1.1806	$ 2.7331	15.99%	4.39%	6.97%		51,736 Ccf	$ 141,401	5.18%
Top of Tier - Break points	13				100.00%	100.00%			1,179,800 Ccf	$ 2,731,283	100.00%
	33										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** 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 **0.00%**

COMMERCIAL SQR	**$**	**2.2685**
New COMMERCIAL Q Revenue Targe	**$**	**595,006**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9497	2.1543	47.00%	123,275 Ccf	$ 265,577
All COMMERCIAL Meters (summer)	all	1.0446	2.3698	53.00%	139,012 Ccf	$ 329,429
TOTALS		**% increase in quantity rate**	**25.35%**	100.00%	262,287 Ccf	$ 595,006

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	**$**	**2.0676**
New PUBLIC AUTHORITY Q Revenue Targe	**$**	**95,222**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9407	$1.9450	37.00%	17,040 Ccf	$ 33,144
All PUBLIC AUTHORITY Meters (summer)	all	1.0348	$2.1395	63.00%	29,015 Ccf	$ 62,078
TOTALS		**% increase in quantity rate**	**13.17%**	100.00%	46,055 Ccf	$ 95,222

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%**

INDUSTRIAL SQR	**$**	**1.9182**
New INDUSTRIAL Q Revenue Targe	**$**	**211,311**

	ccf/mo	SQR differentials	New proposed SQR	portion of Ccf sales in season	estimate sales in season	Revenue estimate $ sales in season
All INDUSTRIAL Meters (winter)	all	0.9470	$1.8165	44.00%	48,470 Ccf	$ 88,046
All INDUSTRIAL Meters (summer)	all	1.0417	$1.9981	56.00%	61,690 Ccf	$ 123,265
TOTALS		**% increase in quantity rate**	**5.69%**	100.00%	110,160 Ccf	$ 211,311

Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales)) ($) **$ -** negative number means too much revenue collected

Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales) as % of New INDUSTRIAL Q revenue target **0.00%**

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Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixec cost to reduce meter charge)	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153
Total Quantity Revenue	$ 2,731,283	$ 595,006	$ 95,222	$ 211,311	$ -	$ 5,330	$ 3,638,153
Revenue Neutrality Check	$ -	$ -	$ -	$ -		$ -	$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%
Meter Charge Revenue	$ 502,176.60	$ 99,152.40	$ 8,154.66	$ 3,054.00	$ 18,600.00	$ 3,664.80	**$ 634,802.46**
Total Revenue	$ 3,233,459.74	$ 694,158.37	$ 103,376.30	$ 214,365.48	$ 18,600.00	$ 8,995.13	**$ 4,272,955.02**

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	$ 10.19	$ 1.8905
Proposed	$ 5.10	
	Block 1 (winter)	$ 2.1865
	Block 2 (winter)	$ 2.4052
	Block 3 (winter)	$ 2.6238
	Block 1 (summer)	$ 2.1865
	Block 2 (summer)	$ 2.5145
	Block 3 (summer)	$ 2.7331
Tier 1 Block	13	ccf
Tier 2 Block	33	ccf

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

small user (winter)		consumption	10 ccf/month	
Current bill	$ 29.10			
block	rate	consumption	bill	
0 to 13	$ 2.1865	10	$ 21.87	
13 to 33	$ 2.4052	0	$ -	
>33	$ 2.6238	0	$ -	
		total bill	$ 26.97	
		Percent change in bill		**-7.32%**
		$ change in bill		**$ (2.13)**

annual avg user (winter)		consumption	18 ccf/month	
Current bill	$ 44.22		$ 40.00	
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	5	$ 12.03	
>33	$ 2.6238	0	$ -	
		total bill	$ 45.55	
		Percent change in bill		**3.01%**
		$ change in bill		**$ 1.33**

small user (summer)		consumption	10 ccf/month	
Current bill	$ 29.10			
block	rate	consumption	bill	
0 to 13	$ 2.1865	10	$ 21.87	
13 to 33	$ 2.5145	0	$ -	
>33	$ 2.7331	0	$ -	
		total bill	$ 26.97	
		Percent change in bill		**-7.32%**
		$ change in bill		**$ (2.13)**

annual avg user (summer)		consumption	18 ccf/month	
Current bill	$ 44.22		$ 40.00	
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	5	$ 12.57	
>33	$ 2.7331	0	$ -	
		total bill	$ 46.10	
		Percent change in bill		**4.25%**
		$ change in bill		**$ 1.88**

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	$ 10.19	$ 1.8905
Proposed	$ 5.10	
	Block 1 (winter)	$ 2.1865
	Block 2 (winter)	$ 2.4052
	Block 3 (winter)	$ 2.6238
	Block 1 (summer)	$ 2.1865
	Block 2 (summer)	$ 2.5145
	Block 3 (summer)	$ 2.7331
Tier 1 Block	13	ccf
Tier 2 Block	33	ccf

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

average winter user		consumption		17 ccf/month
Current bill	$ 42.33			
block		consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	4	$ 9.62	
>33	$ 2.6238	0	$ -	
		total bill	$ 43.15	
		Percent change in bill		**1.93%**
		$ change in bill		**$ 0.82**

average summer user		consumption		20 ccf/month
Current bill	$ 48.00			
block		consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	7	$ 17.60	
>33	$ 2.7331	0	$ -	
		total bill	$ 51.13	
		Percent change in bill		**6.51%**
		$ change in bill		**$ 3.13**

large user (winter)		consumption		32 ccf/month
Current bill	$ 70.69			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	19	$ 45.70	
>33	$ 2.6238	0	$ -	
		total bill	$ 79.22	
		Percent change in bill		**12.08%**
		$ change in bill		**$ 8.54**

largest user (winter)		consumption		198 ccf/month
Current bill	$ 384.51			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.4052	20	$ 48.10	
>33	$ 2.6238	165	$ 432.93	
		total bill	$ 514.56	
		Percent change in bill		**33.82%**
		$ change in bill		**$ 130.05**

large user (summer)		consumption		32 ccf/month
Current bill	$ 70.69			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	19	$ 47.78	
>33	$ 2.7331	0	$ -	
		total bill	$ 81.30	
		Percent change in bill		**15.02%**
		$ change in bill		**$ 10.61**

largest user (summer)		consumption		318 ccf/month
Current bill	$ 611.37			
block	rate	consumption	bill	
0 to 13	$ 2.1865	13	$ 28.42	
13 to 33	$ 2.5145	20	$ 50.29	
>33	$ 2.7331	285	$ 778.95	
		total bill	$ 862.76	
		Percent change in bill		**41.12%**
		$ change in bill		**$ 251.39**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	13	tier 2	33

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

WINTER

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Winter Rates						Change in Winter Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per	Meter Charge	Quantity Charge	Total current	Current avg	Meter Chg	winter Tier 1	winter Tier 2	winter Tier 3	Proposed Winter	Proposed avg	Dollar ($)	Percent (%)
Month		$1.8905	Bill	unit cost		$2.1865	$2.4052	$2.6238	Total Bill	winter unit cost	Difference	Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.89	12.08	1.89	5.10	2.19			7.29	2.19	-4.79	-39.68%
2	10.19	3.78	13.97	1.89	5.10	4.37			9.47	2.19	-4.50	-32.20%
3	10.19	5.67	15.86	1.89	5.10	6.56			11.66	2.19	-4.20	-26.49%
4	10.19	7.56	17.75	1.89	5.10	8.75			13.85	2.19	-3.91	-22.00%
5	10.19	9.45	19.64	1.89	5.10	10.93			16.03	2.19	-3.61	-18.38%
6	10.19	11.34	21.53	1.89	5.10	13.12			18.22	2.19	-3.31	-15.39%
7	10.19	13.23	23.42	1.89	5.10	15.31			20.41	2.19	-3.02	-12.88%
8	10.19	15.12	25.31	1.89	5.10	17.49			22.59	2.19	-2.72	-10.75%
9	10.19	17.01	27.20	1.89	5.10	19.68			24.78	2.19	-2.43	-8.92%
10	10.19	18.91	29.10	1.89	5.10	21.87			26.97	2.19	-2.13	-7.32%
11	10.19	20.80	30.99	1.89	5.10	24.05			29.15	2.19	-1.83	-5.92%
12	10.19	22.69	32.88	1.89	5.10	26.24			31.34	2.19	-1.54	-4.68%
13	10.19	24.58	34.77	1.89	5.10	28.42			33.52	2.19	-1.24	-3.57%
14	10.19	26.47	36.66	1.89	5.10	28.42	2.41		35.93	2.20	-0.73	-1.98%
15	10.19	28.36	38.55	1.89	5.10	28.42	4.81		38.34	2.22	-0.21	-0.55%
16	10.19	30.25	40.44	1.89	5.10	28.42	7.22		40.74	2.23	0.30	0.75%
17	10.19	32.14	42.33	1.89	5.10	28.42	9.62		43.15	2.24	0.82	1.93%
18	10.19	34.03	44.22	1.89	5.10	28.42	12.03		45.55	2.25	1.33	3.01%
19	10.19	35.92	46.11	1.89	5.10	28.42	14.43		47.96	2.26	1.85	4.00%
20	10.19	37.81	48.00	1.89	5.10	28.42	16.84		50.36	2.26	2.36	4.92%
21	10.19	39.70	49.89	1.89	5.10	28.42	19.24		52.77	2.27	2.88	5.76%
22	10.19	41.59	51.78	1.89	5.10	28.42	21.65		55.17	2.28	3.39	6.55%
23	10.19	43.48	53.67	1.89	5.10	28.42	24.05		57.58	2.28	3.90	7.28%
24	10.19	45.37	55.56	1.89	5.10	28.42	26.46		59.98	2.29	4.42	7.95%
25	10.19	47.26	57.45	1.89	5.10	28.42	28.86		62.39	2.29	4.93	8.59%
26	10.19	49.15	59.34	1.89	5.10	28.42	31.27		64.79	2.30	5.45	9.18%
27	10.19	51.04	61.23	1.89	5.10	28.42	33.67		67.20	2.30	5.96	9.74%
28	10.19	52.93	63.12	1.89	5.10	28.42	36.08		69.60	2.30	6.48	10.26%
29	10.19	54.82	65.01	1.89	5.10	28.42	38.48		72.01	2.31	6.99	10.76%
30	10.19	56.72	66.91	1.89	5.10	28.42	40.89		74.41	2.31	7.51	11.22%
31	10.19	58.61	68.80	1.89	5.10	28.42	43.29		76.82	2.31	8.02	11.66%
32	10.19	60.50	70.69	1.89	5.10	28.42	45.70		79.22	2.32	8.54	12.08%
33	10.19	62.39	72.58	1.89	5.10	28.42	48.10		81.63	2.32	9.05	12.47%
34	10.19	64.28	74.47	1.89	5.10	28.42	48.10	2.62	84.25	2.33	9.78	13.14%
35	10.19	66.17	76.36	1.89	5.10	28.42	48.10	5.25	86.88	2.34	10.52	13.77%
36	10.19	68.06	78.25	1.89	5.10	28.42	48.10	7.87	89.50	2.34	11.25	14.38%
37	10.19	69.95	80.14	1.89	5.10	28.42	48.10	10.50	92.12	2.35	11.98	14.96%
38	10.19	71.84	82.03	1.89	5.10	28.42	48.10	13.12	94.75	2.36	12.72	15.50%
39	10.19	73.73	83.92	1.89	5.10	28.42	48.10	15.74	97.37	2.37	13.45	16.03%
40	10.19	75.62	85.81	1.89	5.10	28.42	48.10	18.37	99.99	2.37	14.18	16.53%
50	10.19	94.53	104.72	1.89	5.10	28.42	48.10	44.60	126.23	2.42	21.52	20.55%
60	10.19	113.43	123.62	1.89	5.10	28.42	48.10	70.84	152.47	2.46	28.85	23.34%
70	10.19	132.34	142.53	1.89	5.10	28.42	48.10	97.08	178.71	2.48	36.18	25.39%
80	10.19	151.24	161.43	1.89	5.10	28.42	48.10	123.32	204.95	2.50	43.52	26.96%
90	10.19	170.15	180.34	1.89	5.10	28.42	48.10	149.56	231.19	2.51	50.85	28.20%
100	10.19	189.05	199.24	1.89	5.10	28.42	48.10	175.80	257.42	2.52	58.18	29.20%
110	10.19	207.96	218.15	1.89	5.10	28.42	48.10	202.03	283.66	2.53	65.52	30.03%
120	10.19	226.86	237.05	1.89	5.10	28.42	48.10	228.27	309.90	2.54	72.85	30.73%
130	10.19	245.77	255.96	1.89	5.10	28.42	48.10	254.51	336.14	2.55	80.18	31.33%
140	10.19	264.67	274.86	1.89	5.10	28.42	48.10	280.75	362.38	2.55	87.52	31.84%
150	10.19	283.58	293.77	1.89	5.10	28.42	48.10	306.99	388.61	2.56	94.85	32.29%
160	10.19	302.48	312.67	1.89	5.10	28.42	48.10	333.23	414.85	2.56	102.18	32.68%
170	10.19	321.39	331.58	1.89	5.10	28.42	48.10	359.46	441.09	2.56	109.52	33.03%
180	10.19	340.29	350.48	1.89	5.10	28.42	48.10	385.70	467.33	2.57	116.85	33.34%
190	10.19	359.20	369.39	1.89	5.10	28.42	48.10	411.94	493.57	2.57	124.18	33.62%
200	10.19	378.10	388.29	1.89	5.10	28.42	48.10	438.18	519.81	2.57	131.52	33.87%
300	10.19	567.15	577.34	1.89	5.10	28.42	48.10	700.56	782.19	2.59	204.85	35.48%
400	10.19	756.20	766.39	1.89	5.10	28.42	48.10	962.94	1044.57	2.60	278.18	36.30%
500	10.19	945.25	955.44	1.89	5.10	28.42	48.10	1225.32	1306.95	2.60	351.51	36.79%
600	10.19	1134.30	1144.49	1.89	5.10	28.42	48.10	1487.71	1569.33	2.61	424.84	37.12%
700	10.19	1323.35	1333.54	1.89	5.10	28.42	48.10	1750.09	1831.72	2.61	498.18	37.36%
800	10.19	1512.40	1522.59	1.89	5.10	28.42	48.10	2012.47	2094.10	2.61	571.51	37.54%
900	10.19	1701.45	1711.64	1.89	5.10	28.42	48.10	2274.85	2356.48	2.61	644.84	37.67%
1000	10.19	1890.50	1900.69	1.89	5.10	28.42	48.10	2537.23	2618.86	2.61	718.17	37.78%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	13	tier 2	33

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

SUMMER

Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Summer Rates						Change in Summer Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $0.0000	Total current Bill	Current avg unit cost	Meter Charge	summer Tier 1 $2.1865	summer Tier 2 $2.5145	summer Tier 3 $2.7331	Proposed Summer Total Bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.89	12.08	1.89	5.10	2.19			7.29	2.19	-4.79	-39.68%
2	10.19	3.78	13.97	1.89	5.10	4.37			9.47	2.19	-4.50	-32.20%
3	10.19	5.67	15.86	1.89	5.10	6.56			11.66	2.19	-4.20	-26.49%
4	10.19	7.56	17.75	1.89	5.10	8.75			13.85	2.19	-3.91	-22.00%
5	10.19	9.45	19.64	1.89	5.10	10.93			16.03	2.19	-3.61	-18.38%
6	10.19	11.34	21.53	1.89	5.10	13.12			18.22	2.19	-3.31	-15.39%
7	10.19	13.23	23.42	1.89	5.10	15.31			20.41	2.19	-3.02	-12.88%
8	10.19	15.12	25.31	1.89	5.10	17.49			22.59	2.19	-2.72	-10.75%
9	10.19	17.01	27.20	1.89	5.10	19.68			24.78	2.19	-2.43	-8.92%
10	10.19	18.91	29.10	1.89	5.10	21.87			26.97	2.19	-2.13	-7.32%
11	10.19	20.80	30.99	1.89	5.10	24.05			29.15	2.19	-1.83	-5.92%
12	10.19	22.69	32.88	1.89	5.10	26.24			31.34	2.19	-1.54	-4.68%
13	10.19	24.58	34.77	1.89	5.10	28.42			33.52	2.19	-1.24	-3.57%
14	10.19	26.47	36.66	1.89	5.10	28.42	2.51		36.04	2.21	-0.62	-1.69%
15	10.19	28.36	38.55	1.89	5.10	28.42	5.03		38.55	2.23	0.01	0.02%
16	10.19	30.25	40.44	1.89	5.10	28.42	7.54		41.07	2.25	0.63	1.56%
17	10.19	32.14	42.33	1.89	5.10	28.42	10.06		43.58	2.26	1.25	2.96%
18	10.19	34.03	44.22	1.89	5.10	28.42	12.57		46.10	2.28	1.88	4.25%
19	10.19	35.92	46.11	1.89	5.10	28.42	15.09		48.61	2.29	2.50	5.43%
20	10.19	37.81	48.00	1.89	5.10	28.42	17.60		51.13	2.30	3.13	6.51%
21	10.19	39.70	49.89	1.89	5.10	28.42	20.12		53.64	2.31	3.75	7.52%
22	10.19	41.59	51.78	1.89	5.10	28.42	22.63		56.16	2.32	4.37	8.45%
23	10.19	43.48	53.67	1.89	5.10	28.42	25.14		58.67	2.33	5.00	9.31%
24	10.19	45.37	55.56	1.89	5.10	28.42	27.66		61.18	2.34	5.62	10.12%
25	10.19	47.26	57.45	1.89	5.10	28.42	30.17		63.70	2.34	6.25	10.87%
26	10.19	49.15	59.34	1.89	5.10	28.42	32.69		66.21	2.35	6.87	11.58%
27	10.19	51.04	61.23	1.89	5.10	28.42	35.20		68.73	2.36	7.49	12.24%
28	10.19	52.93	63.12	1.89	5.10	28.42	37.72		71.24	2.36	8.12	12.86%
29	10.19	54.82	65.01	1.89	5.10	28.42	40.23		73.76	2.37	8.74	13.45%
30	10.19	56.72	66.91	1.89	5.10	28.42	42.75		76.27	2.37	9.37	14.00%
31	10.19	58.61	68.80	1.89	5.10	28.42	45.26		78.79	2.38	9.99	14.52%
32	10.19	60.50	70.69	1.89	5.10	28.42	47.78		81.30	2.38	10.61	15.02%
33	10.19	62.39	72.58	1.89	5.10	28.42	50.29		83.81	2.39	11.24	15.48%
34	10.19	64.28	74.47	1.89	5.10	28.42	50.29	2.73	86.55	2.40	12.08	16.22%
35	10.19	66.17	76.36	1.89	5.10	28.42	50.29	5.47	89.28	2.41	12.92	16.92%
36	10.19	68.06	78.25	1.89	5.10	28.42	50.29	8.20	92.01	2.41	13.77	17.59%
37	10.19	69.95	80.14	1.89	5.10	28.42	50.29	10.93	94.75	2.42	14.61	18.23%
38	10.19	71.84	82.03	1.89	5.10	28.42	50.29	13.67	97.48	2.43	15.45	18.84%
39	10.19	73.73	83.92	1.89	5.10	28.42	50.29	16.40	100.21	2.44	16.29	19.42%
40	10.19	75.62	85.81	1.89	5.10	28.42	50.29	19.13	102.95	2.45	17.14	19.97%
50	10.19	94.53	104.72	1.89	5.10	28.42	50.29	46.46	130.28	2.50	25.56	24.41%
60	10.19	113.43	123.62	1.89	5.10	28.42	50.29	73.79	157.61	2.54	33.99	27.50%
70	10.19	132.34	142.53	1.89	5.10	28.42	50.29	101.13	184.94	2.57	42.42	29.76%
80	10.19	151.24	161.43	1.89	5.10	28.42	50.29	128.46	212.27	2.59	50.84	31.50%
90	10.19	170.15	180.34	1.89	5.10	28.42	50.29	155.79	239.60	2.61	59.27	32.87%
100	10.19	189.05	199.24	1.89	5.10	28.42	50.29	183.12	266.94	2.62	67.70	33.98%
110	10.19	207.96	218.15	1.89	5.10	28.42	50.29	210.45	294.27	2.63	76.12	34.90%
120	10.19	226.86	237.05	1.89	5.10	28.42	50.29	237.78	321.60	2.64	84.55	35.67%
130	10.19	245.77	255.96	1.89	5.10	28.42	50.29	265.12	348.93	2.64	92.97	36.32%
140	10.19	264.67	274.86	1.89	5.10	28.42	50.29	292.45	376.26	2.65	101.40	36.89%
150	10.19	283.58	293.77	1.89	5.10	28.42	50.29	319.78	403.59	2.66	109.83	37.39%
160	10.19	302.48	312.67	1.89	5.10	28.42	50.29	347.11	430.92	2.66	118.25	37.82%
170	10.19	321.39	331.58	1.89	5.10	28.42	50.29	374.44	458.26	2.67	126.68	38.21%
180	10.19	340.29	350.48	1.89	5.10	28.42	50.29	401.77	485.59	2.67	135.11	38.55%
190	10.19	359.20	369.39	1.89	5.10	28.42	50.29	429.10	512.92	2.67	143.53	38.86%
200	10.19	378.10	388.29	1.89	5.10	28.42	50.29	456.44	540.25	2.68	151.96	39.14%
300	10.19	567.15	577.34	1.89	5.10	28.42	50.29	729.75	813.56	2.69	236.22	40.92%
400	10.19	756.20	766.39	1.89	5.10	28.42	50.29	1003.06	1086.88	2.70	320.49	41.82%
500	10.19	945.25	955.44	1.89	5.10	28.42	50.29	1276.38	1360.19	2.71	404.75	42.36%
600	10.19	1134.30	1144.49	1.89	5.10	28.42	50.29	1549.69	1633.51	2.71	489.02	42.73%
700	10.19	1323.35	1333.54	1.89	5.10	28.42	50.29	1823.01	1906.82	2.72	573.28	42.99%
800	10.19	1512.40	1522.59	1.89	5.10	28.42	50.29	2096.32	2180.14	2.72	657.55	43.19%
900	10.19	1701.45	1711.64	1.89	5.10	28.42	50.29	2369.64	2453.45	2.72	741.81	43.34%
1000	10.19	1890.50	1900.69	1.89	5.10	28.42	50.29	2642.95	2726.77	2.72	826.08	43.46%

Non-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	Quantity Charge
Current	$ 10.19	$ 1.8905
Proposed		
Commercial winter	$ 5.10	$ 2.1543
Commercial summer	$ 5.10	$ 2.3698
Public Authority winter	$ 5.10	$ 1.9450
Public Authority summer	$ 5.10	$ 2.1395
Industrial winter	$ 5.10	$ 1.8165
Industrial summer	$ 5.10	$ 1.9981

"small user" represents 25th percentile user
"large user" represents 90th percentile user

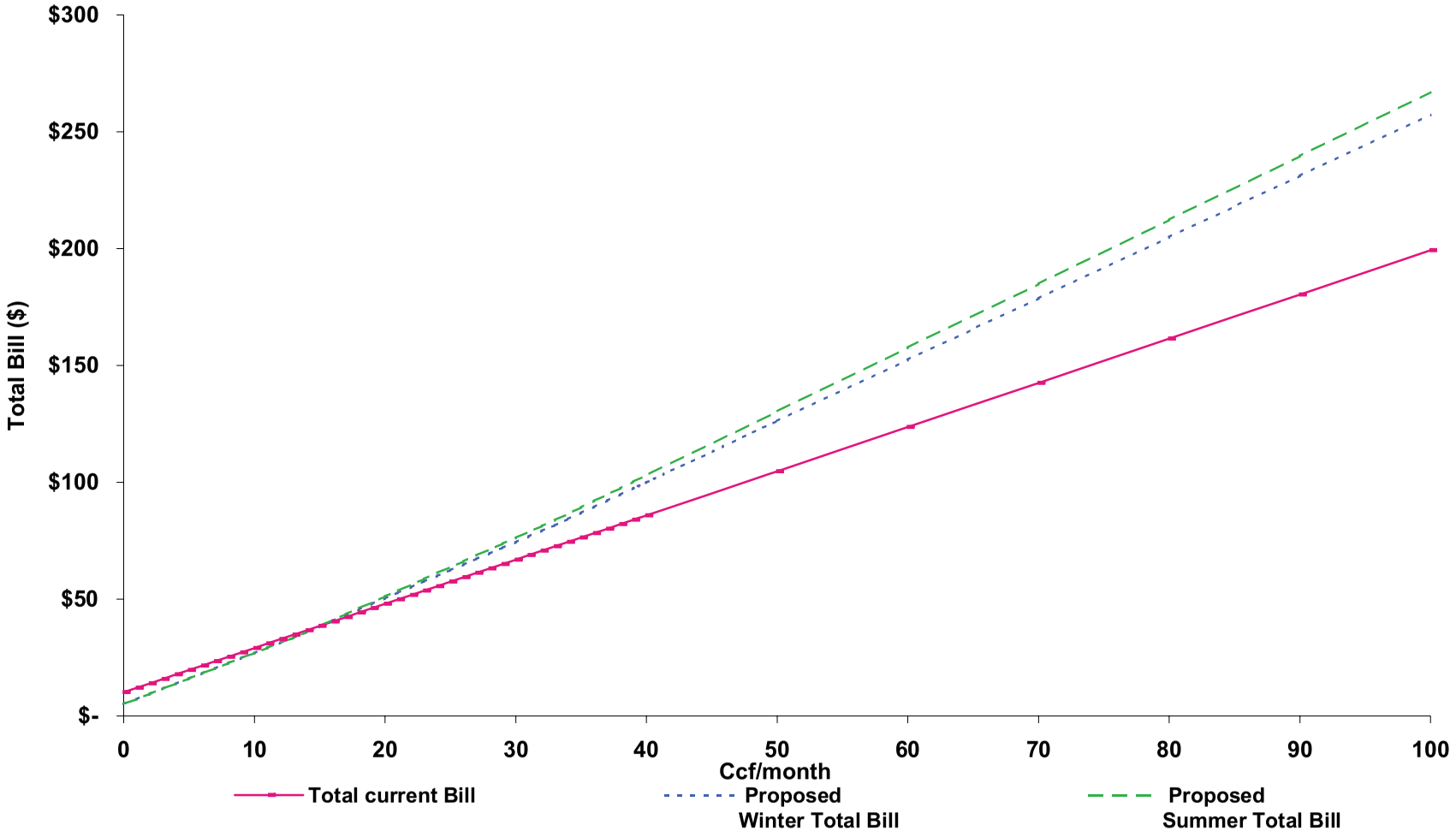
Season and User	Consumption	Total current bill	Total proposed bill	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	11	$ 30.9855	28.80	-7.06%	(2.19)
winter average user	34	$ 74.4670	78.35	5.21%	3.88
large user	73	$ 148.1965	162.37	9.56%	14.17
SUMMER - COMMERCIAL					
small user	11	$ 30.9855	31.17	0.59%	0.18
summer average user	36	$ 78.2480	90.41	15.55%	12.16
large user	69	$ 140.6345	168.62	19.90%	27.98
WINTER - PUBLIC AUTHORITY					
small user	10	$ 29.0950	24.55	-15.62%	(4.54)
winter average user	132	$ 259.7360	261.84	0.81%	2.11
large user	210	$ 407.1950	413.56	1.56%	6.36
SUMMER - PUBLIC AUTHORITY					
small user	4	$ 17.7520	13.66	-23.06%	(4.09)
summer average user	205	$ 397.7425	443.70	11.56%	45.96
large user	418	$ 800.4190	899.42	12.37%	99.00
WINTER - INDUSTRIAL	(There are only two industrial users. "small user" represents the smaller user and "large user" represents the larger of the two)				
small user	49	$ 102.8245	94.11	-8.48%	(8.72)
winter average user	2341	$ 4,435.8505	4,257.52	-4.02%	(178.33)
large user	4633	$ 8,768.8765	8,420.94	-3.97%	(347.94)
SUMMER - INDUSTRIAL					
small user	394	$ 755.0470	792.37	4.94%	37.32
summer average user	2960	$ 5,606.0700	5,919.62	5.59%	313.55
large user	5854	$ 11,077.1770	11,702.27	5.64%	625.09

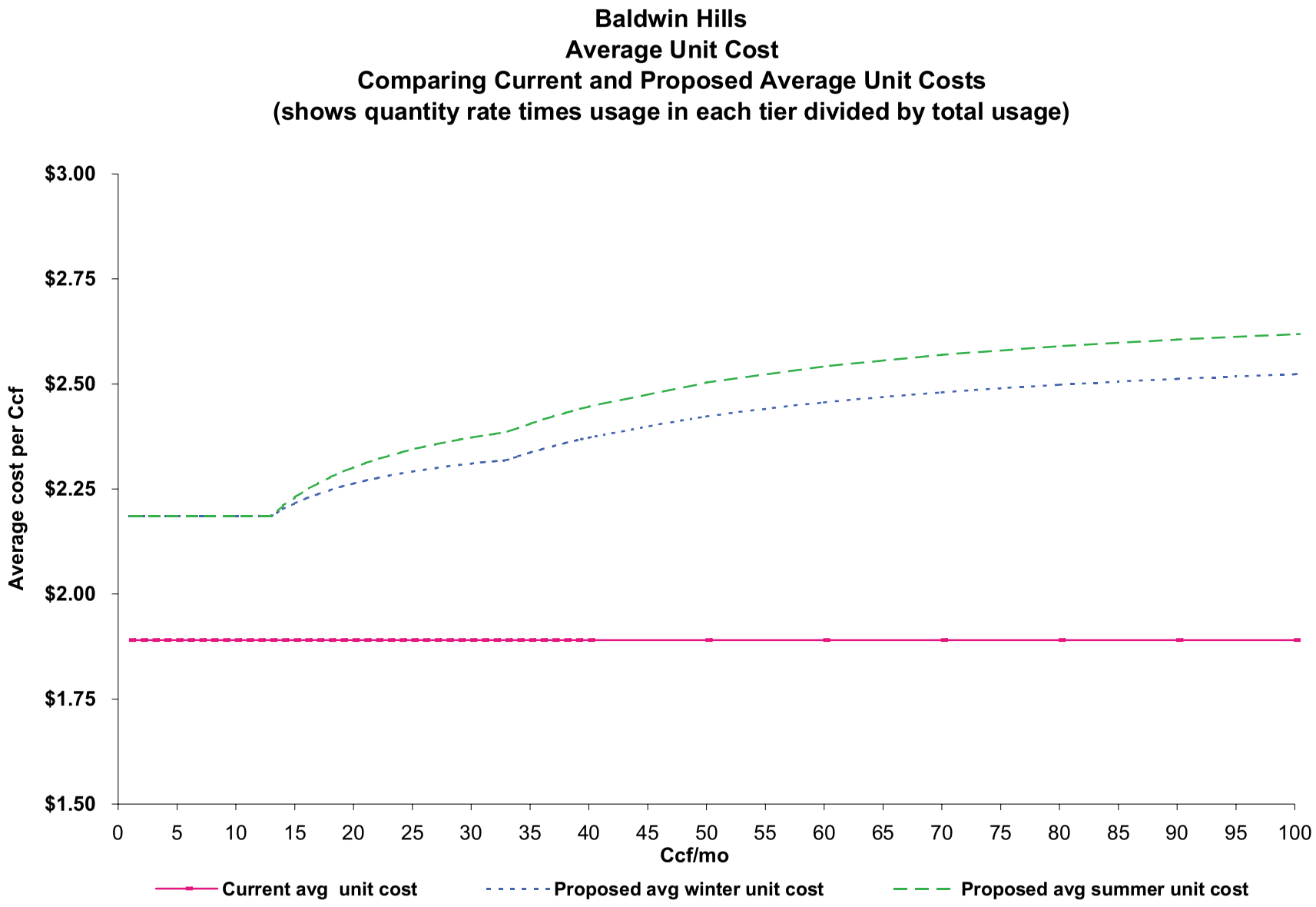
Company & District: **Cal Am, Los Angeles**
Service Area: **Baldwin Hills**

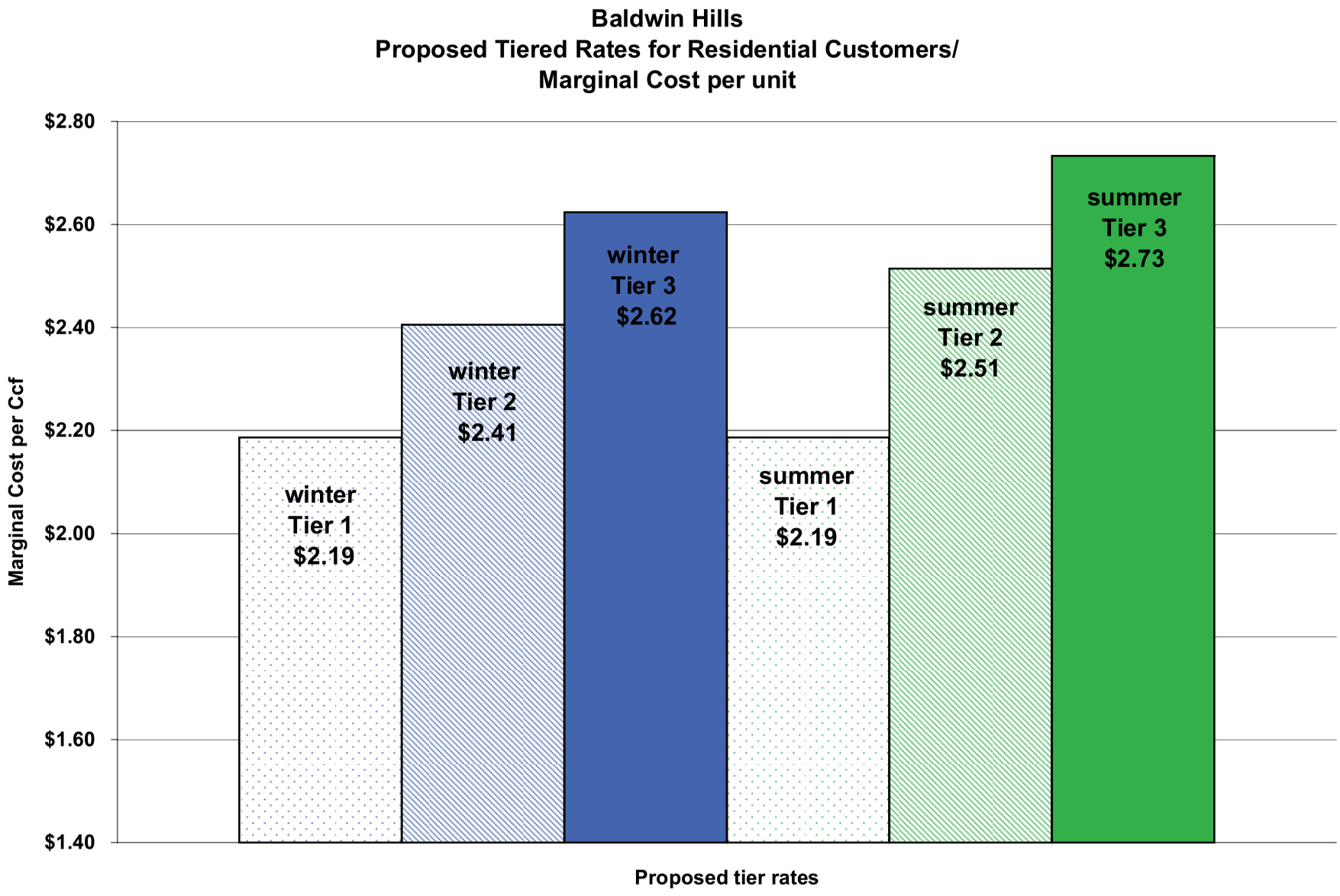
Water Revenue Adjustment Mechanism and Modified Cost Balancing Account
Example with 10% conservation

WRAM Revenues	**Adopted**	**Actual**	**Difference**	**Comments**
				The WRAM tracks quantity revenues for residential, commercial, industrial, public authority, pressure irrigation, and gravity irrigation customers
Sales (Ccf)	1,598,302	1,438,472	159,830	
Revenues				
Meter revenues	$ 612,888	$ 612,888	$ -	Actual revenue is based on adopted meter revenues and actual quantity revenues.
Quantity revenues	$ 3,632,807	$ 3,269,526	**$ 363,281**	Actual quantity revenues based on actual quantity revenues received, it would not be calculated using a formula. Difference column tracks over or under collected quantity revenues. Positive difference is undercollection by Cal Am. Negative difference is overcollection by Cal Am.
Average quantity rate	$ 2.2729			
Variable cost component	$ 1.2345			
Fixed Cost component	$ 1.0384			
MCBA Costs (Purchased power, purchased water and pump tax)				The MCBA tracks purchased power, purchased water and pump tax for all customer classes
Average cost / Ccf of water produced for purchased water, purchased power, and pump tax	$0.96	$0.90	$0.06	This adopted average cost is adopted average cost for purchased power, and purchased water. Actual average cost based on actual average cost incurred by Cal Am. Here, the value is a hypothetical actual average cost/ccf water produced for purchased water, power, and pump tax for illustrative purposes.
Total MCBA variable costs	$1,136,848	$955,638	**$181,210**	The adopted cost for these variable costs was greater than what Cal Am actually incurred. It represents an overcollection by the utility. Positive difference - overcollection of MCBA variable costs by Cal Am Negative difference - undercollection of MCBA variable costs by Cal Am
Net Balance of WRAM and MCBA				
WRAM Balance	$363,281			
MCBA Balance -	$181,210			
Net	$182,070			Net over or undercollection in the WRAM/MCBA. Positive balance - undercollection; ratepayers pay surcharge on $/Ccf basis Negative balance - overcollection; ratepayers receive surcredit on $/Ccf basis

Baldwin Hills
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf usage
(shows 5/8" x 3/4" meter/service charge and quantity rates times usage)




Baldwin Hills
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
Average cost per Ccf
$3.00
$2.75
$2.50
$2.25
$2.00
$1.75
$1.50
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


Baldwin Hills
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
$2.80
$2.60
$2.40
$2.20
$2.00
$1.80
$1.60
$1.40
Marginal Cost per Ccf
winter
Tier 1
$2.19
winter
Tier 2
$2.41
winter
Tier 3
$2.62
summer
Tier 1
$2.19
summer
Tier 2
$2.51
summer
Tier 3
$2.73
Proposed tier rates

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
Proposal:		

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Current Tariff & Quantities (D.07-11-014	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Gravity Irrigation**	**Pressure Irrigation**	**Private Fire Protection Service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030**
										5/8" x 3/4" meters are the base for equivalent units, except Private Fire Protectio
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 2.41	$ 2.41	$ 31.65	$ 10.19		Service base is 4"
Tariff - Quantity charge per ccf	$ 1.0157	$ 1.0157	$ 1.0157	$ 1.0157	$ 0.6243	$ 0.8085	$ -	$ 1.0157		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	8,155	2,782	861	92	66	553	266	90	12,864	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities - Sales in ccf	1,561,624 Ccf	805,981 Ccf	201,105 Ccf	23,626 Ccf	7,964 Ccf	192,346 Ccf	0 Ccf	2,123 Ccf	2,794,769 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 996,964	$ 339,822	$ 105,184	$ 11,178	$ 1,892	$ 15,847	$ 71,424	$ 10,994	$ 1,553,307	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity Charge	$ 1,586,141	$ 818,635	$ 204,262	$ 23,997	$ 4,972	$ 155,508	$ -	$ 2,156	$ 2,795,672	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 2,583,106	$ 1,158,457	$ 309,446	$ 35,175	$ 6,864	$ 171,355	$ 71,424	$ 13,151	$ 4,348,979	
Adopted Quantities - Supply Mix									3,103,650 Ccf	
Purchase Water (ccf)									445,183 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)									2,658,467 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate									9.96%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Current Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%								**Overall**	**Comments**
Meter Charge % revenue	38.60%	29.33%	33.99%	31.78%	27.57%	9.25%	N/A	N/A	35.72%	
Quantity Charge % revenue	61.40%	70.67%	66.01%	68.22%	72.43%	90.75%			64.28%	Residential, public authority, industrial and overall do not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			100.00%	Overall calculation also does not meet BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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Adopted Tariff						**Adopted Connections (D.07-11-014)**							
Meter Charge % revenue	**Residential**	**Commercial, Public Authority, Industrial, Other**	**Private Fire Protection Service**	**Measured Irrigation Service**	**GPM Ratio (ratio of flow by connection diameter)**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Gravity Irrigation**	**Pressure Irrigation**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		$ 2.41	1.00	5,865	155	18	0				
3/4" (no 3/4" meters in this district)	$ 10.19	$ 10.19		$ 3.59	1.00	0	0	0	0				
1"	$ 25.46	$ 25.46		$ 5.98	2.50	382	131	18	5			7	
1.5"	$ 50.90	$ 50.90		$ 11.94	5.00	90	140	16	3			2	
2"	$ 81.44	$ 81.44		$ 19.12	8.00	105	168	61	8		2	40	
3"	$ 152.70	$ 152.70		$ 35.86	15.00	3	7	7	0			12	6
4"	$ 254.50	$ 254.50	$ 31.65	$ 59.73	25.00	0	2	5	0	25	2	1	
6"	$ 509.00	$ 509.00	$ 47.48		50.00	0	2	0	0	68			
8"	$ 814.40	$ 814.40	$ 63.31		80.00	0	0	0	0	30			
10"	$ 1,170.70	$ 1,170.70	$ 79.13		115.00	0	0	0	0	2			
Quantity Charges						**6,445**	**605**	**125**	**16**	**125**	**4**	**62**	**6**
Any usage level $/Ccf	**$ 1.02**	**$ 1.02**											

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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**	**Gravity Irrigation**	**Pressure Irrigation**	**Private Fire Protection Service**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 499,086	$ 170,228	$ 52,693	$ 5,600	$ 946	$ 7,925	$ -	$ -	$ 736,478	
Equivalent Units	8,155	2,782	861	92	66	553	266	90	12,864	Meter connections expressed as number of standard 5/8" meters
Meter Charge rev	$ 499,086	$ 170,228	$ 52,693	$ 5,600	$ 946	$ 7,925	$ 71,424	$ 10,994	$ 818,896	
Meter charge $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 1.20	$ 1.20	$ 22.40	$ 10.20	$ 5.30	$/mo per 5/8" equivalent unit
Adopted Sales ccf	1,561,624 Ccf	805,981 Ccf	201,105 Ccf	23,626 Ccf	7,964 Ccf	192,346 Ccf	0 Ccf	2,123 Ccf	2,367,605 Ccf	
New quantity charge revenue target	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083	
New SQR	$ 1.335	$ 1.226	$ 1.277	$ 1.252	$ 0.743	$ 0.850	N/A	$ 1.016	$ 1.263	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test									**Overall**	**Comments**
Meter Charge % revenue	19.32%	14.69%	17.03%	15.92%	13.78%	4.62%	N/A	N/A	18.83%	
Quantity Charge % revenue	80.68%	85.31%	82.97%	84.08%	86.22%	95.38%			81.17%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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Rate Summary		**Residential**		**Commercial**		**Public Authority**		**Industrial**		**Gravity Irrigation**		**Pressure Irrigation**		**Private Fire Protection Service**		**Other**		**Total**
Total Rev Req	$	2,583,106	$	1,158,457	$	309,446	$	35,175	$	6,864	$	171,355	$	71,424	$	13,151	**$**	**4,348,979**
Meter charge $/EU/mo	$	5.10	$	5.10	$	5.10	$	5.10	$	1.20	$	1.20		N/A	$	10.20	$	5.30
Quantity charge if SQR	$	1.335	$	1.226	$	1.277	$	1.252	$	0.743	$	0.850		N/A	$	1.016	$	1.263

"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**	**Gravity Irrigation**	**Pressure Irrigation**	**Other**
5/8" x 3/4"	$	5.10	$	5.10			$	2.39	1.00	5,865	155	18	0				
3/4" (no 3/4" meters in this district)	$	5.10	$	5.10			$	2.39	1.00	0	0	0	0				
1"	$	12.75	$	12.75			$	5.98	2.50	382	131	18	5			7	
1.5"	$	25.50	$	25.50			$	11.94	5.00	90	140	16	3			2	
2"	$	40.80	$	40.80			$	19.12	8.00	105	168	61	8		2	40	
3"	$	76.50	$	76.50			$	35.88	15.00	3	7	7	0			12	6
4"	$	127.50	$	127.50	$	31.66	$	59.73	25.00	0	2	5	0	25	2	1	
6"	$	255.00	$	255.00	$	47.48			50.00	0	2	0	0	68			
8"	$	408.00	$	408.00	$	63.31			80.00	0	0	0	0	30			
10"	$	586.50	$	586.50	$	79.13			115.00	0	0	0	0	2			
										6,445	**605**	**125**	**16**	**125**	**4**	**62**	**6**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
Proposal:		

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

RESIDENTIAL SQR	**$**	**1.3345**
New Quantity Revenue Target	**$**	**2,084,020**

Residential Rate Design	Top of Tier (monthly)	Tier Rate Percentage Differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	Ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 12	-	0.9215	$ 1.2298	7.16%	23.51%	16.94%	41.96%	367,184 Ccf	$ 451,547	21.67%
Tier 2 winter	12 to 38	10%	1.0136	$ 1.3527	24.12%	12.49%	22.73%		195,018 Ccf	$ 263,808	12.66%
Tier 3 winter	>38	20%	1.1058	$ 1.4757	10.68%	5.96%	2.28%		93,073 Ccf	$ 137,349	6.59%
Tier 1 summer	no change	-	0.9215	$ 1.2298	4.57%	25.40%	15.26%	58.04%	396,677 Ccf	$ 487,816	23.41%
Tier 2 summer	no change	15%	1.0597	$ 1.4142	32.78%	20.81%	37.04%		324,983 Ccf	$ 459,597	22.05%
Tier 3 summer	no change	25%	1.1519	$ 1.5372	20.69%	11.83%	5.74%		184,689 Ccf	$ 283,903	13.62%
Top of Tier - Break points	12				100.00%	100.00%			1,561,624 Ccf	$ 2,084,020	100.00%
	38										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** 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 **0.00%**

COMMERCIAL SQR	**$**	**1.2261**
New COMMERCIAL Q Revenue Target	**$**	**988,229**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9479	$ 1.1622	45.00%	362,691 Ccf	$ 421,520
All COMMERCIAL Meters (summer)	all	1.0427	$ 1.2784	55.00%	443,290 Ccf	$ 566,710
TOTALS	**% increase in quantity rate**		**25.87%**	100.00%	805,981 Ccf	$ 988,229

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	**$**	**1.2767**
New PUBLIC AUTHORITY Q Revenue Target	**$**	**256,753**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9390	$ 1.1988	35.00%	70,387 Ccf	$ 84,379
All PUBLIC AUTHORITY Meters (summer)	all	1.0329	$ 1.3187	65.00%	130,718 Ccf	$ 172,374
TOTALS	**% increase in quantity rate**		**29.83%**	100.00%	201,105 Ccf	$ 256,753

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, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**Duarte**	
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INDUSTRIAL SQR	**$**	**1.2518**							
New INDUSTRIAL Q Revenue Target	**$**	**29,575**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All INDUSTRIAL Meters (winter)	all	0.9533	$	1.1933	51.00%	12,049 Ccf	$	14,379	
All INDUSTRIAL Meters (summer)	all	1.0486	$	1.3127	49.00%	11,577 Ccf	$	15,196	
TOTALS	**% increase in quantity rate**			**29.24%**	100.00%	23,626 Ccf	$	29,575	
Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New INDUSTRIAL Q revenue target - Total (INDUSTRIAL Q sales) as % of New INDUSTRIAL Q revenue target								**0.00%**	

GRAVITY IRRIGATION SQR	**$**	**0.7431**							
New Irrigation Q Revenue Target	**$**	**5,918**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All GRAVITY IRRIGATION Meters (winter)	all	0.9488	$	0.7050	46.00%	3,663 Ccf	$	2,583	
All GRAVITY IRRIGATION Meters (summer)	all	1.0436	$	0.7756	54.00%	4,301 Ccf	$	3,335	
TOTALS	**% increase in quantity rate**			**24.23%**	100.00%	7,964 Ccf	$	5,918	
Revenue Neutrality Check (New Gravity Irrigation Q revenue target - Total (Gravity Irrigation Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New Gravity Irrigation Q revenue target - Total (Gravity Irrigation Q sales) as % of Gravity Irrigation Res Q revenue target								**0.00%**	

PRESSURE IRRIGATION SQR	**$**	**0.8497**							
New Irrigation Q Revenue Target	**$**	**163,430**							
	ccf/mo	SQR differentials		New proposed SQR	portion of sales in season	Ccf estimate sales in season		Rev estimate $ sales in season	
All PRESSURE IRRIGATION Meters (winter)	all	0.9390	$	0.7978	35.00%	67,321 Ccf	$	53,709	
All PRESSURE IRRIGATION Meters (summer)	all	1.0329	$	0.8776	65.00%	125,025 Ccf	$	109,721	
TOTALS	**% increase in quantity rate**			**8.55%**	100.00%	192,346 Ccf	$	163,430	
Revenue Neutrality Check (New Pressure Irrigation Q revenue target - Total (Pressure Irrigation Q sales)) ($)							**$**	**-**	negative number means too much revenue collected
Revenue Neutrality Check (New Pressure Irrigation Q revenue target - Total (Pressure Irrigation Q sales) as % of Pressure Irrigation Res Q revenue target								**0.00%**	

Rate Design and Revenue Check Spreadsheet

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Summary of Proposed Quantity and Meter Charge Revenues	**RESIDENTIAL**	**COMMERCIAL**	**PUBLIC AUTHORITY**	**INDUSTRIAL**	**GRAVITY IRRIGATION**	**PRESSURE IRRIGATION**	**PRIVATE FIRE**	**OTHER**	**TOTAL**
New Quantity Revenue Target (Includes move of fixed cos									
to reduce meter charge)	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083
Total Quantity Revenue	$ 2,084,020	$ 988,229	$ 256,753	$ 29,575	$ 5,918	$ 163,430	$ -	$ 2,156	$ 3,530,083
Revenue Neutrality Check	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Meter Charge Revenue	$ 499,086.00	$ 170,227.80	$ 52,693.20	$ 5,599.80	$ 946.20	$ 7,924.98	$ 71,424.00	$ 10,994.40	**$ 818,896.38**
Total Revenue	$ 2,583,105.94	$ 1,158,457.26	$ 309,446.43	$ 35,175.17	$ 6,864.40	$ 171,354.97	$ 71,424.00	$ 13,150.73	**$ 4,348,978.91**

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	$ 10.19	$ 1.0157
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.2298
	Block 2 (winter)	$ 1.3527
	Block 3 (winter)	$ 1.4757
	Block 1 (summer)	$ 1.2298
	Block 2 (summer)	$ 1.4142
	Block 3 (summer)	$ 1.5372
Tier 1 Block	12	ccf
Tier 2 Block	38	ccf

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

small user (winter)		consumption		10 ccf/month
Current bill	$ 20.35			
block	rate	consumption	bill	
0 to 12	$ 1.2298	10	$ 12.30	
12 to 38	$ 1.3527	0	$ -	
>38	$ 1.4757	0	$ -	
		total bill	$ 17.40	
		Percent change in bill		**-14.50%**
		$ change in bill		**$ (2.95)**

annual avg user (winter)		consumption		21 ccf/month
Current bill	$ 31.52		$ 40.00	
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	9	$ 12.17	
>38	$ 1.4757	0	$ -	
		total bill	$ 32.03	
		Percent change in bill		**1.62%**
		$ change in bill		**$ 0.51**

small user (summer)		consumption		10 ccf/month
Current bill	$ 20.35			
block	rate	consumption	bill	
0 to 12	$ 1.2298	10	$ 12.30	
12 to 38	$ 1.4142	0	$ -	
>38	$ 1.5372	0	$ -	
		total bill	$ 17.40	
		Percent change in bill		**-14.50%**
		$ change in bill		**$ (2.95)**

annual avg user (summer)		consumption		21 ccf/month
Current bill	$ 31.52		$ 40.00	
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	9	$ 12.73	
>38	$ 1.5372	0	$ -	
		total bill	$ 32.59	
		Percent change in bill		**3.38%**
		$ change in bill		**$ 1.07**

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	$ 10.19	$ 1.0157
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.2298
	Block 2 (winter)	$ 1.3527
	Block 3 (winter)	$ 1.4757
	Block 1 (summer)	$ 1.2298
	Block 2 (summer)	$ 1.4142
	Block 3 (summer)	$ 1.5372
Tier 1 Block	12	ccf
Tier 2 Block	38	ccf

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

average winter user		consumption	18 ccf/month	
Current bill	$ 28.47			
block		consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	6	$ 8.12	
>38	$ 1.4757	0	$ -	
		total bill	$ 27.97	
		Percent change in bill		**-1.75%**
		$ change in bill	**$**	**(0.50)**

average summer user		consumption	30 ccf/month	
Current bill	$ 40.66			
block		consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	18	$ 25.46	
>38	$ 1.5372	0	$ -	
		total bill	$ 45.31	
		Percent change in bill		**11.44%**
		$ change in bill	**$**	**4.65**

large user (winter)		consumption	33 ccf/month	
Current bill	$ 43.71			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	21	$ 28.41	
>38	$ 1.4757	0	$ -	
		total bill	$ 48.26	
		Percent change in bill		**10.42%**
		$ change in bill	**$**	**4.56**

largest user (winter)		consumption	706 ccf/month	
Current bill	$ 727.27			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.3527	26	$ 35.17	
>38	$ 1.4757	668	$ 985.77	
		total bill	$ 1,040.80	
		Percent change in bill		**43.11%**
		$ change in bill	**$**	**313.53**

large user (summer)		consumption	33 ccf/month	
Current bill	$ 43.71			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	21	$ 29.70	
>38	$ 1.5372	0	$ -	
		total bill	$ 49.56	
		Percent change in bill		**13.38%**
		$ change in bill	**$**	**5.85**

largest user (summer)		consumption	1159 ccf/month	
Current bill	$ 1,187.39			
block	rate	consumption	bill	
0 to 12	$ 1.2298	12	$ 14.76	
12 to 38	$ 1.4142	26	$ 36.77	
>38	$ 1.5372	1121	$ 1,723.20	
		total bill	$ 1,779.82	
		Percent change in bill		**49.89%**
		$ change in bill	**$**	**592.44**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	12	tier 2	38

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

WINTER

Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Winter Rates				(3)	(4)	Change in Winter Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.0157	Total current bill	Current avg unit cost	Meter Charge	winter Tier 1 $1.2298	winter Tier 2 $1.3527	winter Tier 3 $1.4757	Proposed winter total bill	Proposed avg winter unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.0000	-5.09	-49.95%
1	10.19	1.02	11.21	1.02	5.10	1.23			6.33	1.2298	-4.88	-43.51%
2	10.19	2.03	12.22	1.02	5.10	2.46			7.56	1.2298	-4.66	-38.15%
3	10.19	3.05	13.24	1.02	5.10	3.69			8.79	1.2298	-4.45	-33.60%
4	10.19	4.06	14.25	1.02	5.10	4.92			10.02	1.2298	-4.23	-29.70%
5	10.19	5.08	15.27	1.02	5.10	6.15			11.25	1.2298	-4.02	-26.33%
6	10.19	6.09	16.28	1.02	5.10	7.38			12.48	1.2298	-3.81	-23.37%
7	10.19	7.11	17.30	1.02	5.10	8.61			13.71	1.2298	-3.59	-20.76%
8	10.19	8.13	18.32	1.02	5.10	9.84			14.94	1.2298	-3.38	-18.44%
9	10.19	9.14	19.33	1.02	5.10	11.07			16.17	1.2298	-3.16	-16.36%
10	10.19	10.16	20.35	1.02	5.10	12.30			17.40	1.2298	-2.95	-14.50%
11	10.19	11.17	21.36	1.02	5.10	13.53			18.63	1.2298	-2.74	-12.80%
12	10.19	12.19	22.38	1.02	5.10	14.76			19.86	1.2298	-2.52	-11.27%
13	10.19	13.20	23.39	1.02	5.10	14.76	1.35		21.21	1.2392	-2.18	-9.34%
14	10.19	14.22	24.41	1.02	5.10	14.76	2.71		22.56	1.2473	-1.85	-7.57%
15	10.19	15.24	25.43	1.02	5.10	14.76	4.06		23.92	1.2544	-1.51	-5.94%
16	10.19	16.25	26.44	1.02	5.10	14.76	5.41		25.27	1.2605	-1.17	-4.44%
17	10.19	17.27	27.46	1.02	5.10	14.76	6.76		26.62	1.2659	-0.84	-3.05%
18	10.19	18.28	28.47	1.02	5.10	14.76	8.12		27.97	1.2707	-0.50	-1.75%
19	10.19	19.30	29.49	1.02	5.10	14.76	9.47		29.33	1.2751	-0.16	-0.55%
20	10.19	20.31	30.50	1.02	5.10	14.76	10.82		30.68	1.2789	0.17	0.57%
21	10.19	21.33	31.52	1.02	5.10	14.76	12.17		32.03	1.2825	0.51	1.62%
22	10.19	22.35	32.54	1.02	5.10	14.76	13.53		33.38	1.2857	0.85	2.61%
23	10.19	23.36	33.55	1.02	5.10	14.76	14.88		34.74	1.2886	1.19	3.54%
24	10.19	24.38	34.57	1.02	5.10	14.76	16.23		36.09	1.2912	1.52	4.41%
25	10.19	25.39	35.58	1.02	5.10	14.76	17.59		37.44	1.2937	1.86	5.23%
26	10.19	26.41	36.60	1.02	5.10	14.76	18.94		38.80	1.2960	2.20	6.00%
27	10.19	27.42	37.61	1.02	5.10	14.76	20.29		40.15	1.2981	2.53	6.74%
28	10.19	28.44	38.63	1.02	5.10	14.76	21.64		41.50	1.3000	2.87	7.43%
29	10.19	29.46	39.65	1.02	5.10	14.76	23.00		42.85	1.3018	3.21	8.09%
30	10.19	30.47	40.66	1.02	5.10	14.76	24.35		44.21	1.3035	3.55	8.72%
31	10.19	31.49	41.68	1.02	5.10	14.76	25.70		45.56	1.3051	3.88	9.32%
32	10.19	32.50	42.69	1.02	5.10	14.76	27.05		46.91	1.3066	4.22	9.88%
33	10.19	33.52	43.71	1.02	5.10	14.76	28.41		48.26	1.3080	4.56	10.42%
34	10.19	34.53	44.72	1.02	5.10	14.76	29.76		49.62	1.3093	4.89	10.94%
35	10.19	35.55	45.74	1.02	5.10	14.76	31.11		50.97	1.3106	5.23	11.44%
36	10.19	36.57	46.76	1.02	5.10	14.76	32.47		52.32	1.3117	5.57	11.91%
37	10.19	37.58	47.77	1.02	5.10	14.76	33.82		53.68	1.3128	5.90	12.36%
38	10.19	38.60	48.79	1.02	5.10	14.76	35.17		55.03	1.3139	6.24	12.79%
39	10.19	39.61	49.80	1.02	5.10	14.76	35.17	1.48	56.50	1.3180	6.70	13.46%
40	10.19	40.63	50.82	1.02	5.10	14.76	35.17	2.95	57.98	1.3220	7.16	14.09%
50	10.19	50.79	60.98	1.02	5.10	14.76	35.17	17.71	72.74	1.3527	11.76	19.29%
60	10.19	60.94	71.13	1.02	5.10	14.76	35.17	32.47	87.49	1.3732	16.36	23.00%
70	10.19	71.10	81.29	1.02	5.10	14.76	35.17	47.22	102.25	1.3879	20.96	25.79%
80	10.19	81.26	91.45	1.02	5.10	14.76	35.17	61.98	117.01	1.3988	25.56	27.95%
90	10.19	91.41	101.60	1.02	5.10	14.76	35.17	76.74	131.76	1.4074	30.16	29.69%
100	10.19	101.57	111.76	1.02	5.10	14.76	35.17	91.49	146.52	1.4142	34.76	31.10%
110	10.19	111.73	121.92	1.02	5.10	14.76	35.17	106.25	161.28	1.4198	39.36	32.29%
120	10.19	121.88	132.07	1.02	5.10	14.76	35.17	121.01	176.04	1.4245	43.96	33.29%
130	10.19	132.04	142.23	1.02	5.10	14.76	35.17	135.77	190.79	1.4284	48.56	34.14%
140	10.19	142.20	152.39	1.02	5.10	14.76	35.17	150.52	205.55	1.4318	53.16	34.89%
150	10.19	152.36	162.55	1.02	5.10	14.76	35.17	165.28	220.31	1.4347	57.76	35.54%
160	10.19	162.51	172.70	1.02	5.10	14.76	35.17	180.04	235.06	1.4373	62.36	36.11%
170	10.19	172.67	182.86	1.02	5.10	14.76	35.17	194.79	249.82	1.4395	66.96	36.62%
180	10.19	182.83	193.02	1.02	5.10	14.76	35.17	209.55	264.58	1.4415	71.56	37.08%
190	10.19	192.98	203.17	1.02	5.10	14.76	35.17	224.31	279.34	1.4433	76.16	37.49%
200	10.19	203.14	213.33	1.02	5.10	14.76	35.17	239.06	294.09	1.4450	80.76	37.86%
300	10.19	304.71	314.90	1.02	5.10	14.76	35.17	386.64	441.66	1.4552	126.76	40.26%
400	10.19	406.28	416.47	1.02	5.10	14.76	35.17	534.21	589.23	1.4603	172.76	41.48%
500	10.19	507.85	518.04	1.02	5.10	14.76	35.17	681.78	736.81	1.4634	218.77	42.23%
600	10.19	609.42	619.61	1.02	5.10	14.76	35.17	829.35	884.38	1.4655	264.77	42.73%
700	10.19	710.99	721.18	1.02	5.10	14.76	35.17	976.92	1031.95	1.4669	310.77	43.09%
800	10.19	812.56	822.75	1.02	5.10	14.76	35.17	1,124.49	1179.52	1.4680	356.77	43.36%
900	10.19	914.13	924.32	1.02	5.10	14.76	35.17	1,272.06	1327.09	1.4689	402.77	43.57%
1000	10.19	1015.70	1025.89	1.02	5.10	14.76	35.17	1,419.63	1474.66	1.4696	448.77	43.74%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	12	tier 2	38

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

SUMMER

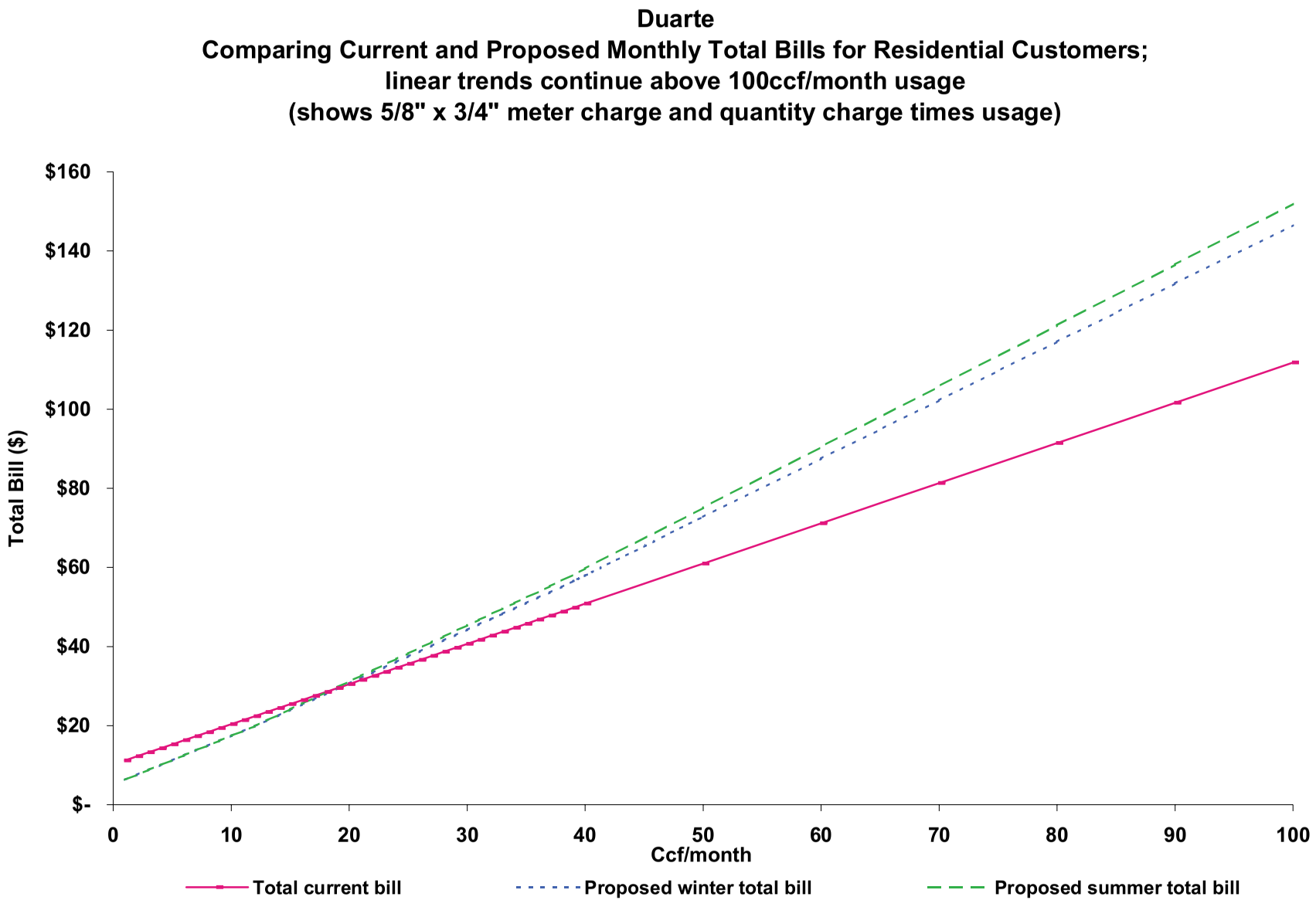
Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Summer Rates				(3)	(4)	Change in Summer Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.0157	Total current bill	Current avg unit cost	Meter Charge	summer Tier 1 $1.2298	summer Tier 2 $1.4142	summer Tier 3 $1.5372	Proposed summer total bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.02	11.21	1.02	5.10	1.23			6.33	1.23	-4.88	-43.51%
2	10.19	2.03	12.22	1.02	5.10	2.46			7.56	1.23	-4.66	-38.15%
3	10.19	3.05	13.24	1.02	5.10	3.69			8.79	1.23	-4.45	-33.60%
4	10.19	4.06	14.25	1.02	5.10	4.92			10.02	1.23	-4.23	-29.70%
5	10.19	5.08	15.27	1.02	5.10	6.15			11.25	1.23	-4.02	-26.33%
6	10.19	6.09	16.28	1.02	5.10	7.38			12.48	1.23	-3.81	-23.37%
7	10.19	7.11	17.30	1.02	5.10	8.61			13.71	1.23	-3.59	-20.76%
8	10.19	8.13	18.32	1.02	5.10	9.84			14.94	1.23	-3.38	-18.44%
9	10.19	9.14	19.33	1.02	5.10	11.07			16.17	1.23	-3.16	-16.36%
10	10.19	10.16	20.35	1.02	5.10	12.30			17.40	1.23	-2.95	-14.50%
11	10.19	11.17	21.36	1.02	5.10	13.53			18.63	1.23	-2.74	-12.80%
12	10.19	12.19	22.38	1.02	5.10	14.76			19.86	1.23	-2.52	-11.27%
13	10.19	13.20	23.39	1.02	5.10	14.76	1.41		21.27	1.24	-2.12	-9.07%
14	10.19	14.22	24.41	1.02	5.10	14.76	2.83		22.69	1.26	-1.72	-7.06%
15	10.19	15.24	25.43	1.02	5.10	14.76	4.24		24.10	1.27	-1.33	-5.21%
16	10.19	16.25	26.44	1.02	5.10	14.76	5.66		25.51	1.28	-0.93	-3.51%
17	10.19	17.27	27.46	1.02	5.10	14.76	7.07		26.93	1.28	-0.53	-1.93%
18	10.19	18.28	28.47	1.02	5.10	14.76	8.49		28.34	1.29	-0.13	-0.46%
19	10.19	19.30	29.49	1.02	5.10	14.76	9.90		29.76	1.30	0.27	0.91%
20	10.19	20.31	30.50	1.02	5.10	14.76	11.31		31.17	1.30	0.67	2.19%
21	10.19	21.33	31.52	1.02	5.10	14.76	12.73		32.59	1.31	1.07	3.38%
22	10.19	22.35	32.54	1.02	5.10	14.76	14.14		34.00	1.31	1.46	4.50%
23	10.19	23.36	33.55	1.02	5.10	14.76	15.56		35.41	1.32	1.86	5.55%
24	10.19	24.38	34.57	1.02	5.10	14.76	16.97		36.83	1.32	2.26	6.54%
25	10.19	25.39	35.58	1.02	5.10	14.76	18.38		38.24	1.33	2.66	7.47%
26	10.19	26.41	36.60	1.02	5.10	14.76	19.80		39.66	1.33	3.06	8.36%
27	10.19	27.42	37.61	1.02	5.10	14.76	21.21		41.07	1.33	3.46	9.19%
28	10.19	28.44	38.63	1.02	5.10	14.76	22.63		42.48	1.34	3.86	9.98%
29	10.19	29.46	39.65	1.02	5.10	14.76	24.04		43.90	1.34	4.25	10.73%
30	10.19	30.47	40.66	1.02	5.10	14.76	25.46		45.31	1.34	4.65	11.44%
31	10.19	31.49	41.68	1.02	5.10	14.76	26.87		46.73	1.34	5.05	12.12%
32	10.19	32.50	42.69	1.02	5.10	14.76	28.28		48.14	1.35	5.45	12.76%
33	10.19	33.52	43.71	1.02	5.10	14.76	29.70		49.56	1.35	5.85	13.38%
34	10.19	34.53	44.72	1.02	5.10	14.76	31.11		50.97	1.35	6.25	13.97%
35	10.19	35.55	45.74	1.02	5.10	14.76	32.53		52.38	1.35	6.64	14.53%
36	10.19	36.57	46.76	1.02	5.10	14.76	33.94		53.80	1.35	7.04	15.06%
37	10.19	37.58	47.77	1.02	5.10	14.76	35.36		55.21	1.35	7.44	15.58%
38	10.19	38.60	48.79	1.02	5.10	14.76	36.77		56.63	1.36	7.84	16.07%
39	10.19	39.61	49.80	1.02	5.10	14.76	36.77	1.54	58.16	1.36	8.36	16.79%
40	10.19	40.63	50.82	1.02	5.10	14.76	36.77	3.07	59.70	1.37	8.88	17.48%
50	10.19	50.79	60.98	1.02	5.10	14.76	36.77	18.45	75.07	1.40	14.10	23.12%
60	10.19	60.94	71.13	1.02	5.10	14.76	36.77	33.82	90.45	1.42	19.31	27.15%
70	10.19	71.10	81.29	1.02	5.10	14.76	36.77	49.19	105.82	1.44	24.53	30.17%
80	10.19	81.26	91.45	1.02	5.10	14.76	36.77	64.56	121.19	1.45	29.74	32.53%
90	10.19	91.41	101.60	1.02	5.10	14.76	36.77	79.93	136.56	1.46	34.96	34.41%
100	10.19	101.57	111.76	1.02	5.10	14.76	36.77	95.31	151.93	1.47	40.17	35.95%
110	10.19	111.73	121.92	1.02	5.10	14.76	36.77	110.68	167.30	1.47	45.39	37.23%
120	10.19	121.88	132.07	1.02	5.10	14.76	36.77	126.05	182.68	1.48	50.60	38.31%
130	10.19	132.04	142.23	1.02	5.10	14.76	36.77	141.42	198.05	1.48	55.82	39.24%
140	10.19	142.20	152.39	1.02	5.10	14.76	36.77	156.79	213.42	1.49	61.03	40.05%
150	10.19	152.36	162.55	1.02	5.10	14.76	36.77	172.17	228.79	1.49	66.25	40.76%
160	10.19	162.51	172.70	1.02	5.10	14.76	36.77	187.54	244.16	1.49	71.46	41.38%
170	10.19	172.67	182.86	1.02	5.10	14.76	36.77	202.91	259.54	1.50	76.68	41.93%
180	10.19	182.83	193.02	1.02	5.10	14.76	36.77	218.28	274.91	1.50	81.89	42.43%
190	10.19	192.98	203.17	1.02	5.10	14.76	36.77	233.65	290.28	1.50	87.11	42.87%
200	10.19	203.14	213.33	1.02	5.10	14.76	36.77	249.03	305.65	1.50	92.32	43.28%
300	10.19	304.71	314.90	1.02	5.10	14.76	36.77	402.75	459.37	1.51	144.47	45.88%
400	10.19	406.28	416.47	1.02	5.10	14.76	36.77	556.46	613.09	1.52	196.62	47.21%
500	10.19	507.85	518.04	1.02	5.10	14.76	36.77	710.18	766.81	1.52	248.77	48.02%
600	10.19	609.42	619.61	1.02	5.10	14.76	36.77	863.90	920.53	1.53	300.92	48.57%
700	10.19	710.99	721.18	1.02	5.10	14.76	36.77	1,017.62	1074.25	1.53	353.07	48.96%
800	10.19	812.56	822.75	1.02	5.10	14.76	36.77	1,171.34	1227.97	1.53	405.22	49.25%
900	10.19	914.13	924.32	1.02	5.10	14.76	36.77	1,325.06	1381.69	1.53	457.37	49.48%
1000	10.19	1015.70	1025.89	1.02	5.10	14.76	36.77	1,478.78	1535.41	1.53	509.52	49.67%

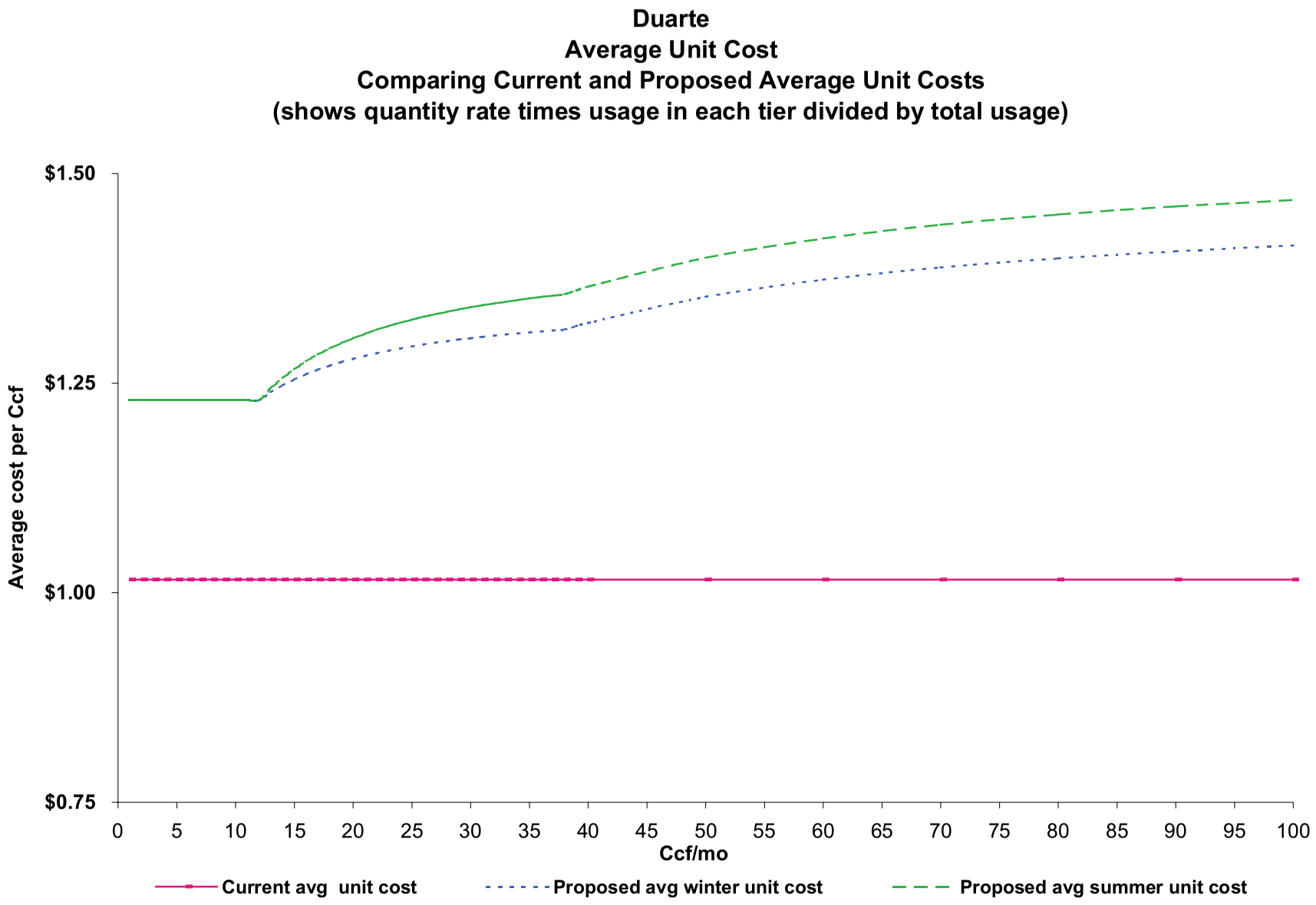
Non-residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

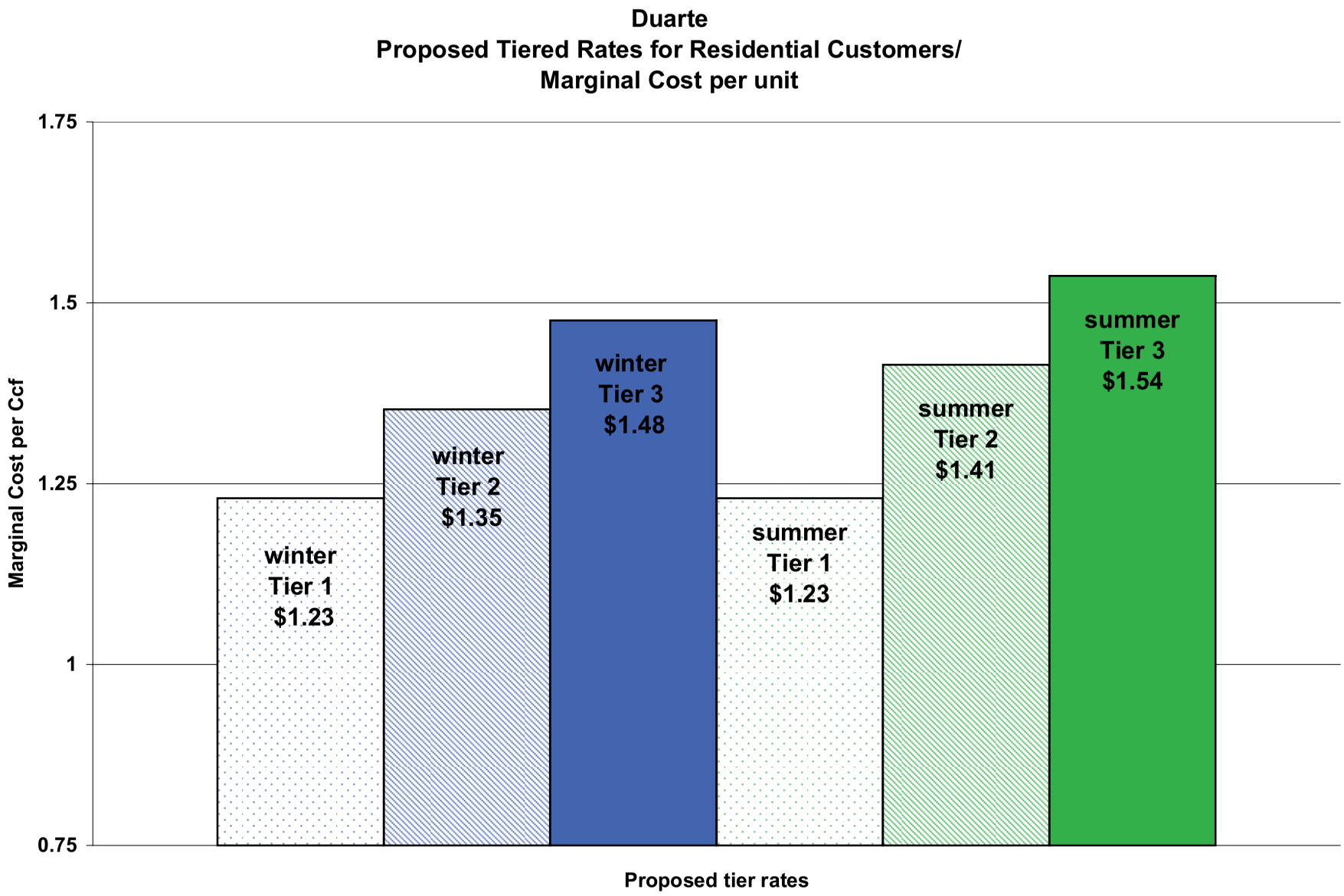
	Meter Charge	Quantity Charge
Current	$ 10.19	$ 1.0157
Proposed		
Commercial winter	$ 5.10	$ 1.1622
Commercial summer	$ 5.10	$ 1.2784
Public Authority winter	$ 5.10	$ 1.1988
Public Authority summer	$ 5.10	$ 1.3187
Industrial winter	$ 5.10	$ 1.1933
Industrial summer	$ 5.10	$ 1.3127
Current	$ 2.41	$ 0.8085
Proposed		
Pressure Irrigation winter	$ 1.20	$ 0.7978
Pressure Irrigation summer	$ 1.20	$ 0.8776
Current	$ 2.41	$ 0.6243
Proposed		
Gravity Irrigation winter	$ 1.20	$ 0.7050
Gravity Irrigation summer	$ 1.20	$ 0.7756

"small user" represents 25th percentile user
"large user" represents 90th percentile user

Season and User	Consumption (Ccf)	Total current bill	Total proposed bil	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	11	$21.36	17.88	-16.28%	(3.48)
winter average user	100	$111.76	121.32	8.55%	9.56
large user	202	$215.36	239.86	11.38%	24.50
SUMMER - COMMERCIAL					
small user	14	$24.41	23.00	-5.78%	(1.41)
summer average user	93	$104.65	123.99	18.48%	19.34
large user	93	$104.65	123.99	18.48%	19.34
WINTER - PUBLIC AUTHORITY					
small user	10	$20.35	17.09	-16.02%	(3.26)
winter average user	97	$108.71	121.38	11.65%	12.67
large user	205	$218.41	250.85	14.85%	32.44
SUMMER - PUBLIC AUTHORITY					
small user	12	$22.38	20.92	-6.50%	(1.45)
summer average user	176	$188.95	237.19	25.53%	48.23
large user	430	$446.94	572.13	28.01%	125.19
WINTER - INDUSTRIAL					
small user	14	$24.41	21.81	-10.66%	(2.60)
winter average user	110	$121.92	136.37	11.85%	14.45
large user	228	$241.77	277.18	14.65%	35.41
SUMMER - INDUSTRIAL					
small user	18	$28.47	28.73	0.90%	0.26
summer average user	106	$117.85	144.24	22.39%	26.39
large user	233	$246.85	310.95	25.97%	64.11
WINTER - PRESSURE IRRIGATION					
small user	48	$41.22	39.49	-4.18%	(1.72)
winter average user	164	$135.00	132.04	-2.19%	(2.96)
large user	186	$152.79	149.59	-2.09%	(3.19)
SUMMER - PRESSURE IRRIGATION					
small user	127	$105.09	112.65	7.20%	7.57
summer average user	315	$257.08	277.64	8.00%	20.56
large user	635	$515.79	558.47	8.27%	42.67
WINTER - GRAVITY IRRIGATION					
small user	85	$55.48	61.13	10.19%	5.65
winter average user	115	$74.21	82.28	10.88%	8.07
large user	166	$106.05	118.24	11.50%	12.19
SUMMER - GRAVITY IRRIGATION					
small user	50	$33.63	39.98	18.89%	6.35
summer average user	101	$65.47	79.53	21.49%	14.07
large user	190	$121.03	148.55	22.74%	27.53


Duarte
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf/month usage
(shows 5/8" x 3/4" meter charge and quantity charge times usage)
Total Bill ($)
$160
$140
$120
$100
$80
$60
$40
$20
$-
0
10
20
30
40
50
60
70
80
90
100
Ccf/month
Total current bill
Proposed winter total bill
Proposed summer total bill


Duarte
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
$1.50
$1.25
$1.00
$0.75
Average cost per Ccf
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


Duarte
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
1.75
1.5
1.25
1
0.75
Marginal Cost per Ccf
winter
Tier 1
$1.23
winter
Tier 2
$1.35
winter
Tier 3
$1.48
summer
Tier 1
$1.23
summer
Tier 2
$1.41
summer
Tier 3
$1.54
Proposed tier rates

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

a) IBR quantity design (3 tier) with seasonal adder for residential
b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
c) WRAM for each service area
d) Modified cost balancing accounts for purchased water (including pump tax) and purchased power for each service area
e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Current Tariff & Quantities (D.07-11-014)	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**	**Source: D.07-11-014 (order modifying D.07-08-030)**
Tariff - Meter Charge 5/8" x 3/4" $/mo	$ 10.19	$ 10.19	$ 10.19	$ 10.19	$ 31.65	$ 10.19		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	$ 1.2264	$ 1.2264	$ 1.2264	$ 1.2264	$ -	$ 1.2264		$/Ccf, Single Quantity Rate
Adopted 5/8" x 3/4" Equivalents	23,000	4,872	1,100	345	380	155	29,851	5/8" x 3/4" Equivalents Units (EUs) as defined in Standard Practice SP-U-7W
Adopted Quantities -Sales in ccf	3,840,875 Ccf	1,217,490 Ccf	222,471 Ccf	79,207 Ccf	0 Ccf	2,155 Ccf	5,362,198 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Revenue - Meter Charge	$ 2,811,033	$ 595,216	$ 134,319	$ 42,147	$ 102,557	$ 18,947	$ 3,704,218	adopted tariff times adopted meter charge times twelve
Adopted Revenue - Quantity charge	$ 4,710,449	$ 1,493,130	$ 272,838	$ 97,139	$ -	$ 2,643	$ 6,576,200	adopted tariff times adopted quantities
Adopted Revenue - Total	$ 7,521,482	$ 2,088,346	$ 407,157	$ 139,287	$ 102,557	$ 21,590	$ 10,280,418	
Adopted Quantities - Supply Mix							5,647,554 Ccf	
Purchase Water (ccf)							1,176,991 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Well water (ccf)							4,470,563 Ccf	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"
Adopted Water Loss Rate							4.45%	From Appendix A to D.07-11-014 "Order Modifying D.07-08-030"

Adopted Tariff - BPM 11 Threshold Test	(quantity revenue/quantity revenue + meter revenue) > or = 70%						**Overall**	**Comments**
Meter Charge % revenue	37.37%	28.50%	32.99%	36.03%	N/A	N/A	36.03%	
Quantity Charge % revenue	62.63%	71.50%	67.01%	63.97%			63.97%	Residential and Fire does not meet BMP 11 revenue test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	Overall calculation also does not meet BMP 11

Rate Design and Revenue Check Spreadsheet

Company & District: **Cal Am, LA** **Revenue info from estimated 2007; usage information from 2006-2007**
Service Area **San Marino**
Proposal:
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b) single quantity rate with seasonal adder for commercial, public authority, and industrial (by service area and customer class)
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e) revenue requirement for each service area and customer class will be the same under conservation rates as under current rate structure

Adopted Tariff					**Adopted Connections (D.07-11-014)**					
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**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 10.19	$ 10.19		1.00	6,954	598	15	10		
3/4" (no 3/4" meters in this district, the one listed here is likely a 5/8" meter per D. Stephenson)	$ 15.27	$ 15.27		1.00	1	0	0	0		
1"	$ 25.46	$ 25.46		2.50	4,319	347	17	8		
1.5"	$ 50.90	$ 50.90		5.00	723	189	27	5		
2"	$ 81.44	$ 81.44		8.00	204	247	69	25		
3"	$ 152.70	$ 152.70		15.00	0	4	7	1		7
4"	$ 254.50	$ 254.50	$ 31.65	25.00	0	9	4	3	46	
6"	$ 509.00	$ 509.00	$ 47.48	50.00	0	4	3	0	72	1
8"	$ 814.40	$ 814.40	$ 63.31	80.00	0	0	0	0	48	
10"	$ 1,170.70	$ 1,170.70	$ 79.13	115.00	0	0	0	0	8	
Quantity Charges					**12,201**	**1,398**	**142**	**52**	**174**	**8**
Any usage level $/Ccf	**$ 1.23**	**$ 1.23**								

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

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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**	**Other**	**Total**	**Comments**
Reduce meter charge by	**50%**	**50%**	**50%**	**50%**	**0%**	**0%**		feeder cell results in lower meter charge
Results in adding these $ to Quantity charge revenue target	$ 1,407,569	$ 298,136	$ 67,289	$ 21,114	$ -	$ -	$ 1,794,109	
Equivalent Units (EU)	23,000	4,872	1,100	345	380	155	29,851	Meter connections expressed as number of std 5/8" meters
Meter charge revenue	$ 1,407,569	$ 298,136	$ 67,289	$ 21,114	$ 102,557	$ 18,947	$ 1,915,612	
Meter chg $/mo per EU	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.50	$ 10.20	$ 5.30	$/mo per 5/8" equivalent unit
Adopted Sales ccf	3,840,875 Ccf	1,217,490 Ccf	222,471 Ccf	79,207 Ccf	0 Ccf	2,155 Ccf	5,058,365 Ccf	
New quantity charge revenue target	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753	
New SQR	$ 1.592	$ 1.470	$ 1.528	$ 1.492	N/A	$ 10.018	$ 1.563	Feeder cell changes quantity charge per ccf

BMP 11 Threshold Test							**Overall**	**Comments**
Meter Charge % revenue	18.71%	14.28%	16.53%	15.16%	N/A	N/A	18.60%	
Quantity Charge % revenue	81.29%	85.72%	83.47%	84.84%			81.40%	As long as these values are > 70% it passes BMP 11 test
Total	100.00%	100.00%	100.00%	100.00%			100.00%	

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

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Rate Summary	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**	**Total**
Total Rev Req	$ 7,521,482	$ 2,088,346	$ 407,157	$ 139,287	$ 102,557	$ 40,536	**$ 10,299,365**
Meter charge $/EU/mo	$ 5.10	$ 5.10	$ 5.10	$ 5.10	$ 22.50	$ 10.20	$ 5.30
Quantity charge if SQR	$ 1.592	$ 1.470	$ 1.528	$ 1.492	N/A	$ 10.018	$ 1.563

"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**	**Ratio**	**Residential**	**Commercial**	**Public Authority**	**Industrial**	**Private Fire Protection Service**	**Other**
5/8" x 3/4"	$ 5.10	$ 5.10	1.00	6,954	598	15	10		
3/4" (no 3/4" meters in this district, the one listed here is likely a 5/8" meter per D. Stephenson)	$ 5.10	$ 5.10	1.00	1	0	0	0		
1"	$ 12.75	$ 12.75	2.50	4,319	347	17	8		
1.5"	$ 25.50	$ 25.50	5.00	723	189	27	5		
2"	$ 40.80	$ 40.80	8.00	204	247	69	25		
3"	$ 76.50	$ 76.50	15.00	0	4	7	1		7
4"	$ 127.50	$ 127.50	25.00	0	9	4	3	46	
6"	$ 255.00	$ 255.00	50.00	0	4	3	0	72	1
8"	$ 408.00	$ 408.00	80.00	0	0	0	0	48	
10"	$ 586.50	$ 586.50	115.00	0	0	0	0	8	
				12,201	**1,398**	**142**	**52**	**174**	**8**

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

Proposal:

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

RESIDENTIAL SQR $ **1.5918**
New Quantity Revenue Target $ **6,113,912**

Residential rate design	Top of Tier (monthly)	Tier Rate percentage differentials	Tier Rate Differentials	New rates	portion of consumption in tier	portion of sales in tier	portion of customers in tier (by season)	Portion of sales in season	ccf estimate sales in tier	Rev estimate $ sales in tier	% of quantity revenue in tier
Tier 1 winter	0 to 14	-	0.9266	$ 1.4750	6.32%	22.70%	15.92%	42.59%	872,033 Ccf	$ 1,286,281	21.04%
Tier 2 winter	14 to 58	10%	1.0193	$ 1.6225	28.20%	17.19%	24.56%		660,243 Ccf	$ 1,071,271	17.52%
Tier 3 winter	>58	20%	1.1120	$ 1.7700	8.07%	2.69%	2.11%		103,393 Ccf	$ 183,009	2.99%
Tier 1 summer	no change	-	0.9266	$ 1.4750	4.51%	24.56%	15.03%	57.41%	943,221 Ccf	$ 1,391,286	22.76%
Tier 2 summer	no change	15%	1.0656	$ 1.6963	34.82%	25.55%	36.88%		981,517 Ccf	$ 1,664,940	27.23%
Tier 3 summer	no change	25%	1.1583	$ 1.8438	18.08%	7.30%	5.50%		280,468 Ccf	$ 517,126	8.46%
Top of Tier - Break points	14				100.00%				3,840,875 Ccf	$ 6,113,912	100.00%
	58										

Revenue Neutrality Check (New Residential Q revenue target - Total (Res tiered Q sales)) ($) **$ -** 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 **0.00%**

COMMERCIAL SQR $ **1.4704**
New COMMERCIAL Q Revenue Target $ **1,790,210**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All COMMERCIAL Meters (winter)	all	0.9497	$ 1.3964	47.00%	572,220 Ccf	$ 799,049
All COMMERCIAL Meters (summer)	all	1.0446	$ 1.5360	53.00%	645,270 Ccf	$ 991,161
TOTALS	**% increase in quantity rate**		**25.25%**	100.00%	1,217,490 Ccf	$ 1,790,210

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 $ **1.5277**
New PUBLIC AUTHORITY Q Revenue Target $ **339,868**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All PUBLIC AUTHORITY Meters (winter)	all	0.9407	$ 1.4372	37.00%	82,314 Ccf	$ 118,298
All PUBLIC AUTHORITY Meters (summer)	all	1.0348	$ 1.5809	63.00%	140,157 Ccf	$ 221,570
TOTALS	**% increase in quantity rate**		**28.90%**	100.00%	222,471 Ccf	$ 339,868

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%**

INDUSTRIAL SQR $ **1.4919**
New INDUSTRIAL Q Revenue Target $ **118,173**

	ccf/mo	SQR differentials	New proposed SQR	portion of sales in season	Ccf estimate sales in season	Rev estimate $ sales in season
All INDUSTRIAL Meters (winter)	all	0.9470	$ 1.4128	44.00%	34,851 Ccf	$ 49,239
All INDUSTRIAL Meters (summer)	all	1.0417	$ 1.5541	56.00%	44,356 Ccf	$ 68,934
TOTALS	**% increase in quantity rate**		**26.72%**	100.00%	79,207 Ccf	$ 118,173

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

Rate Design and Revenue Check Spreadsheet

Company & District:	**Cal Am, LA**	**Revenue info from estimated 2007; usage information from 2006-2007**
Service Area	**San Marino**	

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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)	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753
Total Quantity Revenue	$ 6,113,912	$ 1,790,210	$ 339,868	$ 118,173	$ -	$ 21,590	$ 8,383,753
Revenue Neutrality Check	$ -	$ -	$ -	$ -			$ -
Revenue Neutrality Check	0.00%	0.00%	0.00%	0.00%			0.00%
Meter Charge Revenue	$ 1,407,569.40	$ 298,135.80	$ 67,289.40	$ 21,114.00	$ 102,556.56	$ 18,946.80	**$ -**
Total Revenue	$ 7,521,481.86	$ 2,088,345.58	$ 407,157.19	$ 139,286.82	$ 102,556.56	$ 40,536.49	**$ 8,383,752.55**

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	$ 10.19	$ 1.2264
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.4750
	Block 2 (winter)	$ 1.6225
	Block 3 (winter)	$ 1.7700
	Block 1 (summer)	$ 1.4750
	Block 2 (summer)	$ 1.6963
	Block 3 (summer)	$ 1.8438
Tier 1 Block	14	ccf
Tier 2 Block	58	ccf

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

small user (winter)		consumption		12 ccf/month
Current bill	$ 24.91			
block	rate	consumption	bill	
0 to 14	$ 1.4750	12	$ 17.70	
14 to 58	$ 1.6225	0	$ -	
>58	$ 1.7700	0	$ -	
		total bill	$ 22.80	
		Percent change in bill		**-8.46%**
		$ change in bill	**$**	**(2.11)**

annual avg user (winter)		consumption		26 ccf/month
Current bill	$ 42.08		$ 40.00	
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	12	$ 19.47	
>58	$ 1.7700	0	$ -	
		total bill	$ 45.22	
		Percent change in bill		**7.47%**
		$ change in bill	**$**	**3.14**

small user (summer)		consumption		12 ccf/month
Current bill	$ 24.91			
block	rate	consumption	bill	
0 to 14	$ 1.4750	12	$ 17.70	
14 to 58	$ 1.6963	0	$ -	
>58	$ 1.8438	0	$ -	
		total bill	$ 22.80	
		Percent change in bill		**-8.46%**
		$ change in bill	**$**	**(2.11)**

annual avg user (summer)		consumption		26 ccf/month
Current bill	$ 42.08		$ 40.00	
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	12	$ 20.36	
>58	$ 1.8438	0	$ -	
		total bill	$ 46.11	
		Percent change in bill		**9.58%**
		$ change in bill	**$**	**4.03**

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	$ 10.19	$ 1.2264
Proposed	$ 5.10	
	Block 1 (winter)	$ 1.4750
	Block 2 (winter)	$ 1.6225
	Block 3 (winter)	$ 1.7700
	Block 1 (summer)	$ 1.4750
	Block 2 (summer)	$ 1.6963
	Block 3 (summer)	$ 1.8438
Tier 1 Block	14	ccf
Tier 2 Block	58	ccf

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

average winter user		consumption		23 ccf/month
Current bill	$ 38.40			
block		consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	9	$ 14.60	
>58	$ 1.7700	0	$ -	
		total bill	$ 40.35	
		Percent change in bill		**5.09%**
		$ change in bill	**$**	**1.96**

average summer user		consumption		30 ccf/month
Current bill	$ 46.98			
block		consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	16	$ 27.14	
>58	$ 1.8438	0	$ -	
		total bill	$ 52.89	
		Percent change in bill		**12.58%**
		$ change in bill	**$**	**5.91**

large user (winter)		consumption		49 ccf/month
Current bill	$ 70.28			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	35	$ 56.79	
>58	$ 1.7700	0	$ -	
		total bill	$ 82.54	
		Percent change in bill		**17.44%**
		$ change in bill	**$**	**12.26**

largest user (winter)		consumption		784 ccf/month
Current bill	$ 971.69			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6225	44	$ 71.39	
>58	$ 1.7700	726	$ 1,285.05	
		total bill	$ 1,382.19	
		Percent change in bill		**42.25%**
		$ change in bill	**$**	**410.51**

large user (summer)		consumption		49 ccf/month
Current bill	$ 70.28			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	35	$ 59.37	
>58	$ 1.8438	0	$ -	
		total bill	$ 85.12	
		Percent change in bill		**21.11%**
		$ change in bill	**$**	**14.84**

largest user (summer)		consumption		1253 ccf/month
Current bill	$ 1,546.87			
block	rate	consumption	bill	
0 to 14	$ 1.4750	14	$ 20.65	
14 to 58	$ 1.6963	44	$ 74.64	
>58	$ 1.8438	1195	$ 2,203.34	
		total bill	$ 2,303.72	
		Percent change in bill		**48.93%**
		$ change in bill	**$**	**756.85**

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	14	tier 2	58

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

WINTER

Usage	Typical Bills Under Current Rates		(1)	(2)	Typical Bills Under Proposed Winter Rates				(3)	(4)	Change in Winter Bills (5)	
Ccf Per Month	Meter Charge	Quantity Charge $1.2264	Total current bill	Current avg unit cost	Meter Charge	winter Tier 1 $1.4750	winter Tier 2 $1.6225	winter Tier 3 $1.7700	Proposed winter total bill	Proposed avg winter unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.0000	-5.09	-49.95%
1	10.19	1.23	11.42	1.23	5.10	1.48			6.58	1.4750	-4.84	-42.41%
2	10.19	2.45	12.64	1.23	5.10	2.95			8.05	1.4750	-4.59	-36.33%
3	10.19	3.68	13.87	1.23	5.10	4.43			9.53	1.4750	-4.34	-31.32%
4	10.19	4.91	15.10	1.23	5.10	5.90			11.00	1.4750	-4.10	-27.13%
5	10.19	6.13	16.32	1.23	5.10	7.38			12.48	1.4750	-3.85	-23.57%
6	10.19	7.36	17.55	1.23	5.10	8.85			13.95	1.4750	-3.60	-20.50%
7	10.19	8.58	18.77	1.23	5.10	10.33			15.43	1.4750	-3.35	-17.84%
8	10.19	9.81	20.00	1.23	5.10	11.80			16.90	1.4750	-3.10	-15.50%
9	10.19	11.04	21.23	1.23	5.10	13.28			18.38	1.4750	-2.85	-13.44%
10	10.19	12.26	22.45	1.23	5.10	14.75			19.85	1.4750	-2.60	-11.60%
11	10.19	13.49	23.68	1.23	5.10	16.23			21.33	1.4750	-2.35	-9.94%
12	10.19	14.72	24.91	1.23	5.10	17.70			22.80	1.4750	-2.11	-8.46%
13	10.19	15.94	26.13	1.23	5.10	19.18			24.28	1.4750	-1.86	-7.11%
14	10.19	17.17	27.36	1.23	5.10	20.65			25.75	1.4750	-1.61	-5.88%
15	10.19	18.40	28.59	1.23	5.10	20.65	1.62		27.37	1.4849	-1.21	-4.24%
16	10.19	19.62	29.81	1.23	5.10	20.65	3.25		29.00	1.4935	-0.82	-2.74%
17	10.19	20.85	31.04	1.23	5.10	20.65	4.87		30.62	1.5011	-0.42	-1.36%
18	10.19	22.08	32.27	1.23	5.10	20.65	6.49		32.24	1.5078	-0.02	-0.08%
19	10.19	23.30	33.49	1.23	5.10	20.65	8.11		33.86	1.5139	0.37	1.11%
20	10.19	24.53	34.72	1.23	5.10	20.65	9.74		35.49	1.5193	0.77	2.21%
21	10.19	25.75	35.94	1.23	5.10	20.65	11.36		37.11	1.5242	1.16	3.24%
22	10.19	26.98	37.17	1.23	5.10	20.65	12.98		38.73	1.5287	1.56	4.20%
23	10.19	28.21	38.40	1.23	5.10	20.65	14.60		40.35	1.5328	1.96	5.09%
24	10.19	29.43	39.62	1.23	5.10	20.65	16.23		41.98	1.5365	2.35	5.94%
25	10.19	30.66	40.85	1.23	5.10	20.65	17.85		43.60	1.5399	2.75	6.73%
26	10.19	31.89	42.08	1.23	5.10	20.65	19.47		45.22	1.5431	3.14	7.47%
27	10.19	33.11	43.30	1.23	5.10	20.65	21.09		46.84	1.5461	3.54	8.18%
28	10.19	34.34	44.53	1.23	5.10	20.65	22.72		48.47	1.5488	3.94	8.84%
29	10.19	35.57	45.76	1.23	5.10	20.65	24.34		50.09	1.5513	4.33	9.47%
30	10.19	36.79	46.98	1.23	5.10	20.65	25.96		51.71	1.5537	4.73	10.07%
31	10.19	38.02	48.21	1.23	5.10	20.65	27.58		53.33	1.5559	5.13	10.63%
32	10.19	39.24	49.43	1.23	5.10	20.65	29.21		54.96	1.5580	5.52	11.17%
33	10.19	40.47	50.66	1.23	5.10	20.65	30.83		56.58	1.5600	5.92	11.68%
34	10.19	41.70	51.89	1.23	5.10	20.65	32.45		58.20	1.5618	6.31	12.17%
35	10.19	42.92	53.11	1.23	5.10	20.65	34.07		59.82	1.5635	6.71	12.63%
36	10.19	44.15	54.34	1.23	5.10	20.65	35.70		61.45	1.5652	7.11	13.08%
37	10.19	45.38	55.57	1.23	5.10	20.65	37.32		63.07	1.5667	7.50	13.50%
38	10.19	46.60	56.79	1.23	5.10	20.65	38.94		64.69	1.5682	7.90	13.91%
39	10.19	47.83	58.02	1.23	5.10	20.65	40.56		66.31	1.5696	8.29	14.30%
40	10.19	49.06	59.25	1.23	5.10	20.65	42.19		67.94	1.5709	8.69	14.67%
41	10.19	50.28	60.47	1.23	5.10	20.65	43.81		69.56	1.5722	9.09	15.03%
42	10.19	51.51	61.70	1.23	5.10	20.65	45.43		71.18	1.5734	9.48	15.37%
43	10.19	52.74	62.93	1.23	5.10	20.65	47.05		72.80	1.5745	9.88	15.70%
44	10.19	53.96	64.15	1.23	5.10	20.65	48.68		74.43	1.5756	10.28	16.02%
45	10.19	55.19	65.38	1.23	5.10	20.65	50.30		76.05	1.5767	10.67	16.32%
46	10.19	56.41	66.60	1.23	5.10	20.65	51.92		77.67	1.5776	11.07	16.62%
47	10.19	57.64	67.83	1.23	5.10	20.65	53.54		79.29	1.5786	11.46	16.90%
48	10.19	58.87	69.06	1.23	5.10	20.65	55.17		80.92	1.5795	11.86	17.17%
49	10.19	60.09	70.28	1.23	5.10	20.65	56.79		82.54	1.5804	12.26	17.44%
50	10.19	61.32	71.51	1.23	5.10	20.65	58.41		84.16	1.5812	12.65	17.69%
51	10.19	62.55	72.74	1.23	5.10	20.65	60.03		85.78	1.5820	13.05	17.94%
52	10.19	63.77	73.96	1.23	5.10	20.65	61.66		87.41	1.5828	13.44	18.18%
53	10.19	65.00	75.19	1.23	5.10	20.65	63.28		89.03	1.5836	13.84	18.41%
54	10.19	66.23	76.42	1.23	5.10	20.65	64.90		90.65	1.5843	14.24	18.63%
55	10.19	67.45	77.64	1.23	5.10	20.65	66.52		92.27	1.5850	14.63	18.85%
56	10.19	68.68	78.87	1.23	5.10	20.65	68.15		93.90	1.5857	15.03	19.06%
57	10.19	69.90	80.09	1.23	5.10	20.65	69.77		95.52	1.5863	15.42	19.26%
58	10.19	71.13	81.32	1.23	5.10	20.65	71.39		97.14	1.5869	15.82	19.46%
59	10.19	72.36	82.55	1.23	5.10	20.65	71.39	1.77	98.91	1.5900	16.36	19.82%
60	10.19	73.58	83.77	1.23	5.10	20.65	71.39	3.54	100.68	1.5930	16.91	20.18%
70	10.19	85.85	96.04	1.23	5.10	20.65	71.39	21.24	118.38	1.6183	22.34	23.27%
80	10.19	98.11	108.30	1.23	5.10	20.65	71.39	38.94	136.08	1.6373	27.78	25.65%
90	10.19	110.38	120.57	1.23	5.10	20.65	71.39	56.64	153.78	1.6520	33.22	27.55%
100	10.19	122.64	132.83	1.23	5.10	20.65	71.39	74.34	171.48	1.6638	38.65	29.10%
110	10.19	134.90	145.09	1.23	5.10	20.65	71.39	92.04	189.18	1.6735	44.09	30.39%
120	10.19	147.17	157.36	1.23	5.10	20.65	71.39	109.74	206.89	1.6815	49.53	31.47%
130	10.19	159.43	169.62	1.23	5.10	20.65	71.39	127.44	224.59	1.6883	54.96	32.40%
140	10.19	171.70	181.89	1.23	5.10	20.65	71.39	145.14	242.29	1.6942	60.40	33.21%
150	10.19	183.96	194.15	1.23	5.10	20.65	71.39	162.84	259.99	1.6992	65.84	33.91%
160	10.19	196.22	206.41	1.23	5.10	20.65	71.39	180.54	277.69	1.7037	71.27	34.53%
170	10.19	208.49	218.68	1.23	5.10	20.65	71.39	198.24	295.39	1.7076	76.71	35.08%
180	10.19	220.75	230.94	1.23	5.10	20.65	71.39	215.95	313.09	1.7110	82.15	35.57%
190	10.19	233.02	243.21	1.23	5.10	20.65	71.39	233.65	330.79	1.7141	87.58	36.01%
200	10.19	245.28	255.47	1.23	5.10	20.65	71.39	251.35	348.49	1.7169	93.02	36.41%
300	10.19	367.92	378.11	1.23	5.10	20.65	71.39	428.35	525.49	1.7346	147.38	38.98%
400	10.19	490.56	500.75	1.23	5.10	20.65	71.39	605.36	702.50	1.7435	201.75	40.29%
500	10.19	613.20	623.39	1.23	5.10	20.65	71.39	782.36	879.50	1.7488	256.11	41.08%
600	10.19	735.84	746.03	1.23	5.10	20.65	71.39	959.36	1056.51	1.7523	310.48	41.62%
700	10.19	858.48	868.67	1.23	5.10	20.65	71.39	1136.37	1233.51	1.7549	364.84	42.00%
800	10.19	981.12	991.31	1.23	5.10	20.65	71.39	1313.37	1410.51	1.7568	419.20	42.29%
900	10.19	1103.76	1113.95	1.23	5.10	20.65	71.39	1490.38	1587.52	1.7582	473.57	42.51%
1000	10.19	1226.40	1236.59	1.23	5.10	20.65	71.39	1667.38	1764.52	1.7594	527.93	42.69%

Bill Impact Analysis at Various Usage Levels

	Ccf		Ccf
tier 1	14	tier 2	58

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

SUMMER

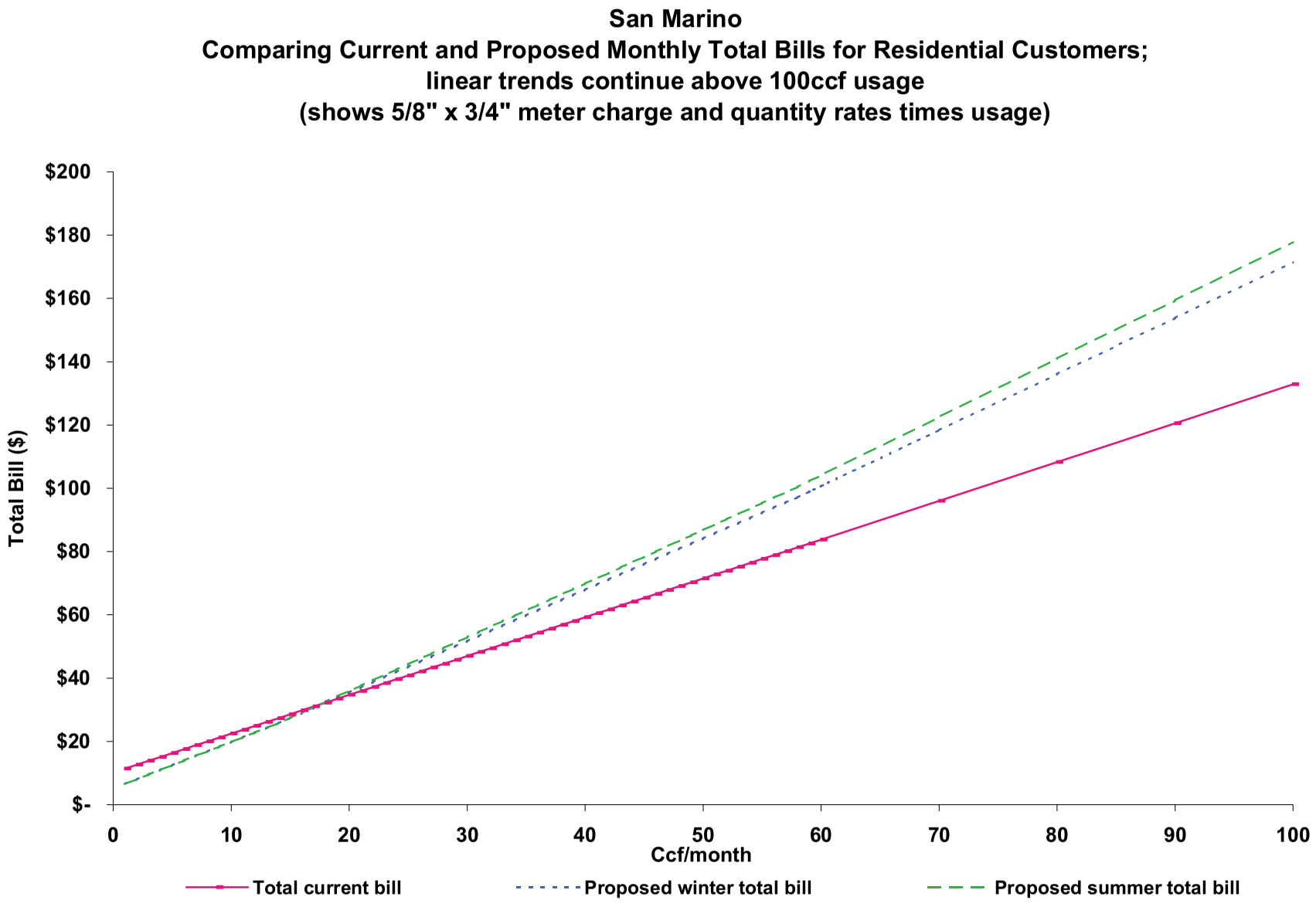
Usage	Typical Bills Under Current Rates				Typical Bills Under Proposed Summer Rates						Change in Summer Bills (5)	
			(1)	(2)					(3)	(4)		
Ccf Per Month	Meter Charge	Quantity Charge $1.2264	Total current bill	Current avg unit cost	Meter Charge	summer Tier 1 $1.4750	summer Tier 2 $1.6963	summer Tier 3 $1.8438	Proposed summer total bill	Proposed avg summer unit cost	Dollar ($) Difference	Percent (%) Difference
0	10.19	0.00	10.19	0.00	5.10	0.00			5.10	0.00	-5.09	-49.95%
1	10.19	1.23	11.42	1.23	5.10	1.48			6.58	1.48	-4.84	-42.41%
2	10.19	2.45	12.64	1.23	5.10	2.95			8.05	1.48	-4.59	-36.33%
3	10.19	3.68	13.87	1.23	5.10	4.43			9.53	1.48	-4.34	-31.32%
4	10.19	4.91	15.10	1.23	5.10	5.90			11.00	1.48	-4.10	-27.13%
5	10.19	6.13	16.32	1.23	5.10	7.38			12.48	1.48	-3.85	-23.57%
6	10.19	7.36	17.55	1.23	5.10	8.85			13.95	1.48	-3.60	-20.50%
7	10.19	8.58	18.77	1.23	5.10	10.33			15.43	1.48	-3.35	-17.84%
8	10.19	9.81	20.00	1.23	5.10	11.80			16.90	1.48	-3.10	-15.50%
9	10.19	11.04	21.23	1.23	5.10	13.28			18.38	1.48	-2.85	-13.44%
10	10.19	12.26	22.45	1.23	5.10	14.75			19.85	1.48	-2.60	-11.60%
11	10.19	13.49	23.68	1.23	5.10	16.23			21.33	1.48	-2.35	-9.94%
12	10.19	14.72	24.91	1.23	5.10	17.70			22.80	1.48	-2.11	-8.46%
13	10.19	15.94	26.13	1.23	5.10	19.18			24.28	1.48	-1.86	-7.11%
14	10.19	17.17	27.36	1.23	5.10	20.65			25.75	1.48	-1.61	-5.88%
15	10.19	18.40	28.59	1.23	5.10	20.65	1.70		27.45	1.49	-1.14	-3.99%
16	10.19	19.62	29.81	1.23	5.10	20.65	3.39		29.14	1.50	-0.67	-2.25%
17	10.19	20.85	31.04	1.23	5.10	20.65	5.09		30.84	1.51	-0.20	-0.64%
18	10.19	22.08	32.27	1.23	5.10	20.65	6.79		32.54	1.52	0.27	0.84%
19	10.19	23.30	33.49	1.23	5.10	20.65	8.48		34.23	1.53	0.74	2.21%
20	10.19	24.53	34.72	1.23	5.10	20.65	10.18		35.93	1.54	1.21	3.49%
21	10.19	25.75	35.94	1.23	5.10	20.65	11.87		37.62	1.55	1.68	4.67%
22	10.19	26.98	37.17	1.23	5.10	20.65	13.57		39.32	1.56	2.15	5.78%
23	10.19	28.21	38.40	1.23	5.10	20.65	15.27		41.02	1.56	2.62	6.82%
24	10.19	29.43	39.62	1.23	5.10	20.65	16.96		42.71	1.57	3.09	7.80%
25	10.19	30.66	40.85	1.23	5.10	20.65	18.66		44.41	1.57	3.56	8.71%
26	10.19	31.89	42.08	1.23	5.10	20.65	20.36		46.11	1.58	4.03	9.58%
27	10.19	33.11	43.30	1.23	5.10	20.65	22.05		47.80	1.58	4.50	10.39%
28	10.19	34.34	44.53	1.23	5.10	20.65	23.75		49.50	1.59	4.97	11.16%
29	10.19	35.57	45.76	1.23	5.10	20.65	25.44		51.19	1.59	5.44	11.89%
30	10.19	36.79	46.98	1.23	5.10	20.65	27.14		52.89	1.59	5.91	12.58%
31	10.19	38.02	48.21	1.23	5.10	20.65	28.84		54.59	1.60	6.38	13.23%
32	10.19	39.24	49.43	1.23	5.10	20.65	30.53		56.28	1.60	6.85	13.85%
33	10.19	40.47	50.66	1.23	5.10	20.65	32.23		57.98	1.60	7.32	14.45%
34	10.19	41.70	51.89	1.23	5.10	20.65	33.93		59.68	1.61	7.79	15.01%
35	10.19	42.92	53.11	1.23	5.10	20.65	35.62		61.37	1.61	8.26	15.55%
36	10.19	44.15	54.34	1.23	5.10	20.65	37.32		63.07	1.61	8.73	16.06%
37	10.19	45.38	55.57	1.23	5.10	20.65	39.01		64.77	1.61	9.20	16.55%
38	10.19	46.60	56.79	1.23	5.10	20.65	40.71		66.46	1.61	9.67	17.02%
39	10.19	47.83	58.02	1.23	5.10	20.65	42.41		68.16	1.62	10.14	17.47%
40	10.19	49.06	59.25	1.23	5.10	20.65	44.10		69.85	1.62	10.61	17.91%
41	10.19	50.28	60.47	1.23	5.10	20.65	45.80		71.55	1.62	11.08	18.32%
42	10.19	51.51	61.70	1.23	5.10	20.65	47.50		73.25	1.62	11.55	18.72%
43	10.19	52.74	62.93	1.23	5.10	20.65	49.19		74.94	1.62	12.02	19.10%
44	10.19	53.96	64.15	1.23	5.10	20.65	50.89		76.64	1.63	12.49	19.47%
45	10.19	55.19	65.38	1.23	5.10	20.65	52.59		78.34	1.63	12.96	19.82%
46	10.19	56.41	66.60	1.23	5.10	20.65	54.28		80.03	1.63	13.43	20.16%
47	10.19	57.64	67.83	1.23	5.10	20.65	55.98		81.73	1.63	13.90	20.49%
48	10.19	58.87	69.06	1.23	5.10	20.65	57.67		83.42	1.63	14.37	20.80%
49	10.19	60.09	70.28	1.23	5.10	20.65	59.37		85.12	1.63	14.84	21.11%
50	10.19	61.32	71.51	1.23	5.10	20.65	61.07		86.82	1.63	15.31	21.41%
51	10.19	62.55	72.74	1.23	5.10	20.65	62.76		88.51	1.64	15.78	21.69%
52	10.19	63.77	73.96	1.23	5.10	20.65	64.46		90.21	1.64	16.25	21.97%
53	10.19	65.00	75.19	1.23	5.10	20.65	66.16		91.91	1.64	16.72	22.23%
54	10.19	66.23	76.42	1.23	5.10	20.65	67.85		93.60	1.64	17.19	22.49%
55	10.19	67.45	77.64	1.23	5.10	20.65	69.55		95.30	1.64	17.66	22.74%
56	10.19	68.68	78.87	1.23	5.10	20.65	71.24		96.99	1.64	18.13	22.98%
57	10.19	69.90	80.09	1.23	5.10	20.65	72.94		98.69	1.64	18.60	23.22%
58	10.19	71.13	81.32	1.23	5.10	20.65	74.64		100.39	1.64	19.07	23.45%
59	10.19	72.36	82.55	1.23	5.10	20.65	74.64	1.84	102.23	1.65	19.68	23.85%
60	10.19	73.58	83.77	1.23	5.10	20.65	74.64	3.69	104.07	1.65	20.30	24.23%
70	10.19	85.85	96.04	1.23	5.10	20.65	74.64	22.13	122.51	1.68	26.47	27.57%
80	10.19	98.11	108.30	1.23	5.10	20.65	74.64	40.56	140.95	1.70	32.65	30.15%
90	10.19	110.38	120.57	1.23	5.10	20.65	74.64	59.00	159.39	1.71	38.82	32.20%
100	10.19	122.64	132.83	1.23	5.10	20.65	74.64	77.44	177.83	1.73	45.00	33.88%
110	10.19	134.90	145.09	1.23	5.10	20.65	74.64	95.88	196.26	1.74	51.17	35.27%
120	10.19	147.17	157.36	1.23	5.10	20.65	74.64	114.32	214.70	1.75	57.34	36.44%
130	10.19	159.43	169.62	1.23	5.10	20.65	74.64	132.75	233.14	1.75	63.52	37.45%
140	10.19	171.70	181.89	1.23	5.10	20.65	74.64	151.19	251.58	1.76	69.69	38.32%
150	10.19	183.96	194.15	1.23	5.10	20.65	74.64	169.63	270.02	1.77	75.87	39.08%
160	10.19	196.22	206.41	1.23	5.10	20.65	74.64	188.07	288.45	1.77	82.04	39.75%
170	10.19	208.49	218.68	1.23	5.10	20.65	74.64	206.51	306.89	1.78	88.21	40.34%
180	10.19	220.75	230.94	1.23	5.10	20.65	74.64	224.94	325.33	1.78	94.39	40.87%
190	10.19	233.02	243.21	1.23	5.10	20.65	74.64	243.38	343.77	1.78	100.56	41.35%
200	10.19	245.28	255.47	1.23	5.10	20.65	74.64	261.82	362.21	1.79	106.74	41.78%
300	10.19	367.92	378.11	1.23	5.10	20.65	74.64	446.20	546.59	1.80	168.48	44.56%
400	10.19	490.56	500.75	1.23	5.10	20.65	74.64	630.58	730.97	1.81	230.22	45.97%
500	10.19	613.20	623.39	1.23	5.10	20.65	74.64	814.96	915.35	1.82	291.96	46.83%
600	10.19	735.84	746.03	1.23	5.10	20.65	74.64	999.34	1099.72	1.82	353.69	47.41%
700	10.19	858.48	868.67	1.23	5.10	20.65	74.64	1183.72	1284.10	1.83	415.43	47.82%
800	10.19	981.12	991.31	1.23	5.10	20.65	74.64	1368.10	1468.48	1.83	477.17	48.14%
900	10.19	1103.76	1113.95	1.23	5.10	20.65	74.64	1552.48	1652.86	1.83	538.91	48.38%
1000	10.19	1226.40	1236.59	1.23	5.10	20.65	74.64	1736.86	1837.24	1.83	600.65	48.57%

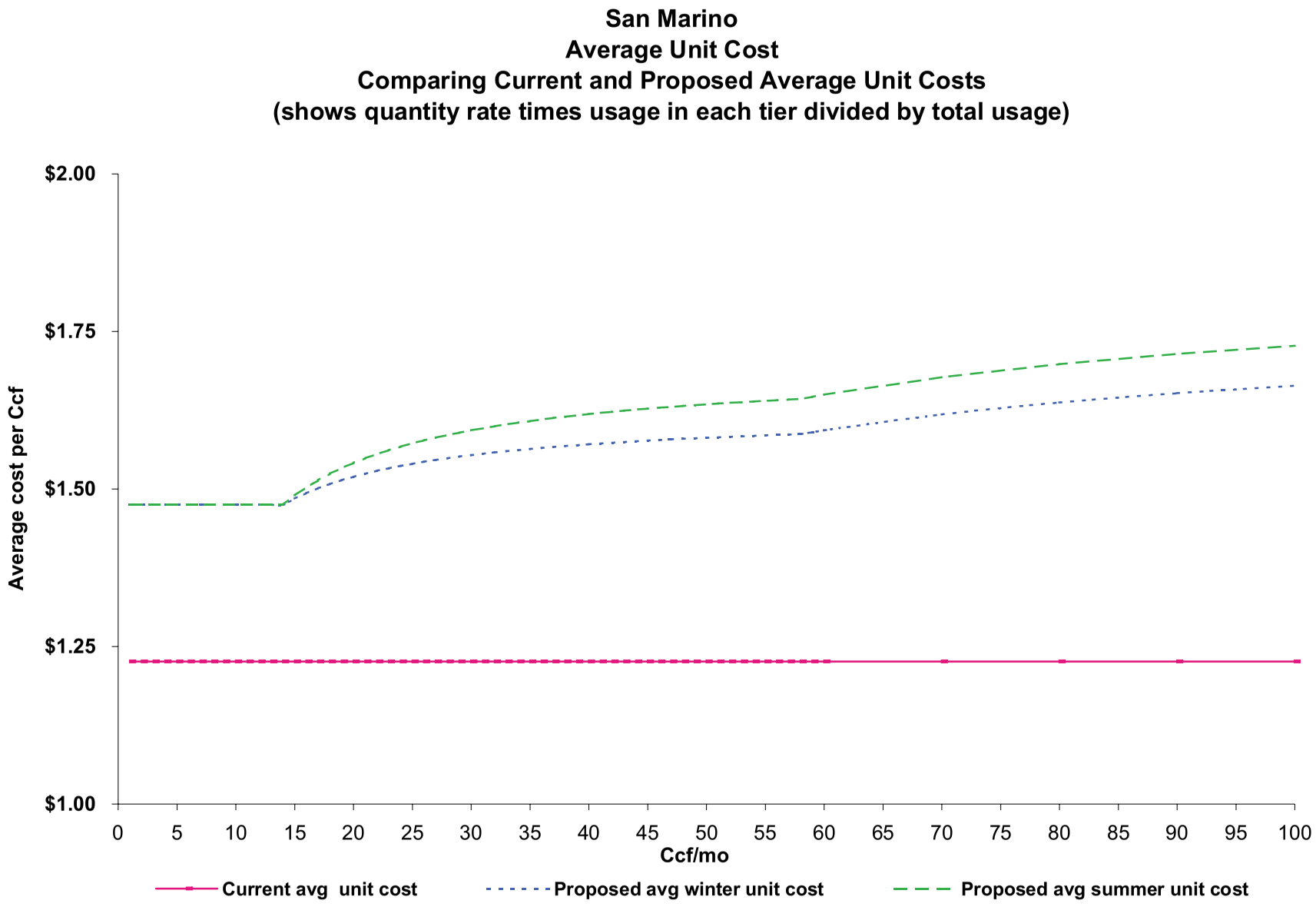
Non-residential Customer Bill Impact Analysis
Typical bill comparisons current to proposed for 5/8" x 3/4" Customers
Based on Meter Charge Plus Quantity Charges Times Consumption

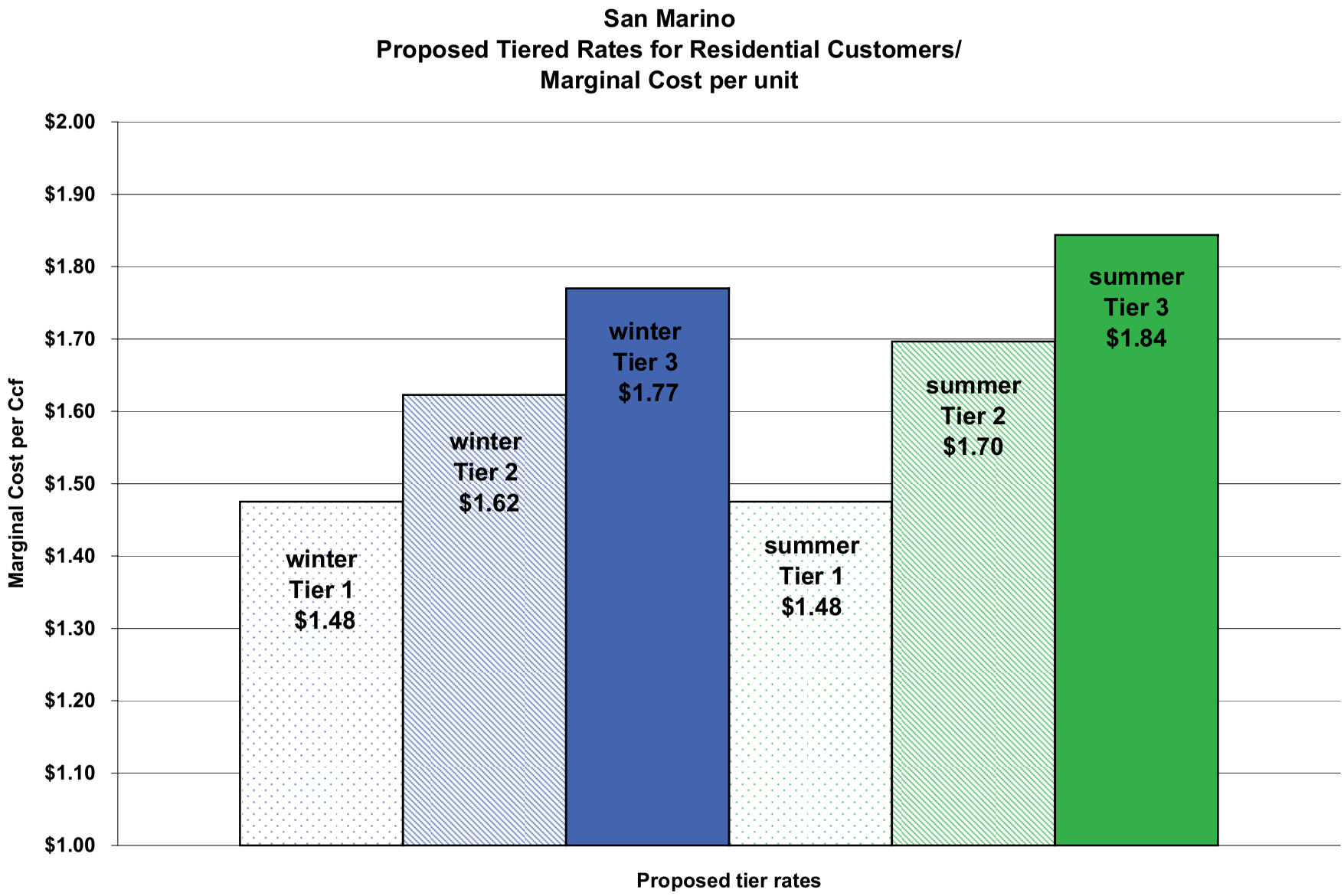
	Meter Charge	Quantity Charge
Current	$ 10.19	$ 1.2264
Proposed		
Commercial winter	$ 5.10	$ 1.3964
Commercial summer	$ 5.10	$ 1.5360
Public Authority winter	$ 5.10	$ 1.4372
Public Authority summer	$ 5.10	$ 1.5809
Industrial winter	$ 5.10	$ 1.4128
Industrial summer	$ 5.10	$ 1.5541

"small user" represents 25th percentile user
"large user" represents 90th percentile user

Season and User	Consumption (Ccf)	Total current bill	Total proposed bill	% change in bill	$ change in bill
WINTER - COMMERCIAL					
small user	8	$20.00	16.27	-18.65%	(3.73)
winter average user	61	$85.00	90.28	6.21%	5.28
large user	146	$189.24	208.97	10.43%	19.73
SUMMER - COMMERCIAL					
small user	8	$20.00	17.39	-13.06%	(2.61)
summer average user	68	$93.59	109.55	17.06%	15.97
large user	162	$208.87	253.94	21.58%	45.07
WINTER - PUBLIC AUTHORITY					
small user	13	$26.13	23.78	-8.99%	(2.35)
winter average user	107	$141.41	158.88	12.35%	17.46
large user	264	$333.96	384.51	15.14%	50.55
SUMMER - PUBLIC AUTHORITY					
small user	22	$37.17	39.88	7.29%	2.71
summer average user	181	$232.17	291.24	25.44%	59.07
large user	433	$541.22	689.62	27.42%	148.40
WINTER - INDUSTRIAL					
small user	4	$15.10	10.75	-28.78%	(4.34)
winter average user	101	$134.06	147.80	10.25%	13.74
large user	303	$381.79	433.19	13.46%	51.40
SUMMER - INDUSTRIAL					
small user	9	$21.23	19.09	-10.08%	(2.14)
summer average user	122	$159.81	194.70	21.83%	34.89
large user	450	$562.07	704.45	25.33%	142.38


San Marino
Comparing Current and Proposed Monthly Total Bills for Residential Customers;
linear trends continue above 100ccf usage
(shows 5/8" x 3/4" meter charge and quantity rates times usage)
Total Bill ($)
$200
$180
$160
$140
$120
$100
$80
$60
$40
$20
$-
0
10
20
30
40
50
60
70
80
90
100
Ccf/month
Total current bill
Proposed winter total bill
Proposed summer total bill


San Marino
Average Unit Cost
Comparing Current and Proposed Average Unit Costs
(shows quantity rate times usage in each tier divided by total usage)
$2.00
$1.75
$1.50
$1.25
$1.00
Average cost per Ccf
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Ccf/mo
Current avg unit cost
Proposed avg winter unit cost
Proposed avg summer unit cost


San Marino
Proposed Tiered Rates for Residential Customers/
Marginal Cost per unit
$2.00
$1.90
$1.80
$1.70
$1.60
$1.50
$1.40
$1.30
$1.20
$1.10
$1.00
Marginal Cost per Ccf
winter Tier 1 $1.48
winter Tier 2 $1.62
winter Tier 3 $1.77
summer Tier 1 $1.48
summer Tier 2 $1.70
summer Tier 3 $1.84
Proposed tier rates