

Austin Water Utility

Joint Subcommittee on Financial Plan

February 1, 2012



Presentation Outline

- Fixed Charges
- Fixed Revenue Goals
- Volatility and Volumetric Rates



Fixed Charges

Committee Input Summary Fixed Charges



- Current fixed fee components (\$7.10 for 5/8") will remain the same
- \$17 million collected from revenue stability fee would be transformed into a new fixed fee component
- Residential would have a tiered fee based on current month water usage
- Number of tiers for residential fee based on number of rate blocks
- Non-residential customer classes of multifamily and commercial would have a meter based fee
- Non-residential customer classes of large volume and wholesale would have a set fee based on fixed revenue goal



Fixed Charges – Remaining Input

- Tiered Fees
 - Top 3 tiers the same to reduce volatility
 - Each of 5 tiers have different rates
 - Small or large spread between tiers 1 and 5

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Tiered Fees

- Tiers based on number of rate blocks
 - Top 3 tiers the same fee amount
 - ➤ Reduces volatility by not reducing the amount collected when customers reduce bill from block 5 to 4
 - ➤ Allows for larger spread between tiers 1 and 2 and 3 to 5
 - 5 tiers with different fees for each tier
 - ➤ Increases volatility due to reduction in revenue when customers reduce volume from block 5 to 4
 - ➤ Larger spread between blocks further increases the revenue volatility



Questions and Discussion?



Fixed Revenue Goals



Decision Points - Input

- Basis for fixed revenue goal?
 - Percent of total revenue
 - Percent of fixed costs
 - Specific dollar amount or costs to be recovered
- Goal for each customer class?
 - Consistent for all classes
 - Different by class based on volatility of class rates and revenue



Decision Points - Input

- Transition to meet goal?
 - Implement as soon as possible
 - Longer transition for larger change
 - 3-5 years maximum



Basis for Fixed Revenue Goals

- Percent of total revenue
 - Fixed revenue goal based on specific percent of total revenue
 - Fixed revenue adjusts as total revenue increases
 - Example 20% of total revenue
- Percent of fixed costs or specific costs
 - Specific percent of total fixed costs or specific component of costs
 - Examples 20% of total fixed costs or 20% of debt service costs
- Set dollar amount \$50 million in fixed costs
 - Would have to be changed over time as revenue increases





- Based on Revenue Stability Fee meter size fixed revenue distribution
 - Approved fee revenue by class
 - Current revenue stability fee distribution
- Based on cost of service allocation
 - Total cost of service percentage by class
- Based on specific percentage of fixed revenue
 - Consistent percentage of fixed revenue for all classes
 - Each class has specific fixed revenue goal for that class



Fixed Revenue Goal Alternatives Based on 2012 Fixed Revenue

Fixed Revenue	哥	xed	Re	ve	nu	e
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	Re	2012 venue Class	Ch	nimum narge enue \$	Re ³	venue ability ee \$	F	otal ixed enue \$	Total Fixed Revenue %
Residential	\$	103.7	\$	15.7	\$	10.5	\$	26.2	25.3%
Multifamily	\$	42.8	\$	3.2	\$	2.5	\$	5.7	13.3%
Commercial	\$	63.0	\$	3.9	\$	4.0	\$	7.9	12.5%
Large Volume	\$	13.0	\$	0.2	\$	0.1	\$	0.3	2.3%
Wholesale	\$	11.8	\$	0.1	\$		\$	0.1	0.8%
Total	\$	234.3	\$	23.1	\$	17.1	\$	40.2	17.2%





	Re	2012 venue / Class	F	irrent ixed enue \$	Current Fixed Revenue %	COS Fixed Revenue Goal %
Residential	\$	103.7	\$	26.2	25.3%	22.6%
Multifamily	\$	42.8	\$	5.7	13.3%	14.7%
Commercial	\$	63.0	\$	7.9	12.5%	13.5%
Large Volume	\$	13.0	\$	0.3	2.3%	8.5%
Wholesale	\$	11.8	\$	0.1	0.8%	7.6%
Total	\$	234.3	\$	40.2	17.2%	17.2%

Alternative #2 Fixed Revenue								
at C	OS Go	al Levels						
F	ixed	% of						
Re	venue	Total						
\$	23.4	58.2%						
\$	6.3	15.7%						
\$	8.5	21.1%						
\$	1.1	2.7%						
\$	0.9	2.2%						
\$	40.2	17.2%						





	Re	2012 venue Class	Current Fixed Revenue \$		Current Fixed Revenue %	Fixed Revenue Goal %
Residential	\$	103.7	\$	26.2	25.3%	17.2%
Multifamily	\$	42.8	\$	5.7	13.3%	17.2%
Commercial	\$	63.0	\$	7.9	12.5%	17.2%
Large Volume	\$	13.0	\$	0.3	2.3%	17.2%
Wholesale	_\$_	11.8	\$	0.1	0.8%	17.2%
Total	\$	234.3	\$	40.2	17.2%	17.2%

Alternative #3 Fixed Revenue at Goal Levels									
Fixed % of									
Re	venue	Total							
\$	17.8	44.3%							
\$	7.4	18.4%							
\$	10.8	26.9%							
\$	2.2	5.5%							
\$	2.0	5.0%							
\$	40.2	17.2%							





	Re	2012 venue / Class	Current Fixed Revenue \$		Current Fixed Revenue %	Fixed Revenue Goal %
Residential	\$	103.7	\$	26.2	25.3%	30.0%
Multifamily	\$	42.8	\$	5.7	13.3%	15.0%
Commercial	\$	63.0	\$	7.9	12.5%	20.0%
Large Volume	\$	13.0	\$	0.3	2.3%	10.0%
Wholesale	_\$_	11.8	\$	0.1	0.8%	10.0%
Total	\$	234.3	\$	40.2	17.2%	22.4%

Alternative #4									
Fixed Revenue									
at Goal Levels									
Approved % of									
	fee	Total							
\$	31.1	59.1%							
ው	6.4	40.00/							
\$	6.4	12.2%							
\$	12.6	24.0%							
\$	1.3	2.5%							
Ψ	1.0	2.570							
\$	1.2	2.3%							
\$	52.6	100.1%							





	Re	2012 venue / Class	F	irrent ixed enue \$	Current Fixed Revenue %	Fixed Revenue Goal %
Residential	\$	103.7	\$	26.2	25.3%	25.0%
Multifamily	\$	42.8	\$	5.7	13.3%	25.0%
Commercial	\$	63.0	\$	7.9	12.5%	25.0%
Large Volume	\$	13.0	\$	0.3	2.3%	25.0%
Wholesale	_\$_	11.8	\$	0.1	0.8%	25.0%
Total	\$	234.3	\$	40.2	17.2%	25.0%

Alternative #5											
F	Fixed Revenue										
at Goal Levels											
Approved % of											
	fee	Total									
\$	25.9	44.2%									
•											
Ф	10.7	10.20/									
\$	10.7	18.3%									
\$	15.8	27.0%									
\$	3.3	5.6%									
Ψ	0.0	3.370									
Φ	0.0	4.007									
\$	2.9	4.9%									
\$	58.6	100.0%									



Transition to Fixed Revenue Goals

- Implementing all increases in fixed revenue in one year could have significant bill impacts
- Any increases in fixed revenue for any class could be transitioned over more than one year
- Each class could have different transition period



Questions and Discussion?



New Topic: Volatility & Volumetric Rates



Current Volumetric Rate Summary

- Residential
 - 5 rate blocks inclining rates for higher usage
- Non-Residential Retail
 - Uniform rates same rate for each 1,000 gallon unit
 - Seasonal rates 10% higher in peak season
 - > Peak season: July to October
 - ➤ off peak season: November to June
- Wholesale
 - Uniform rates same rate for each 1,000 gallon unit

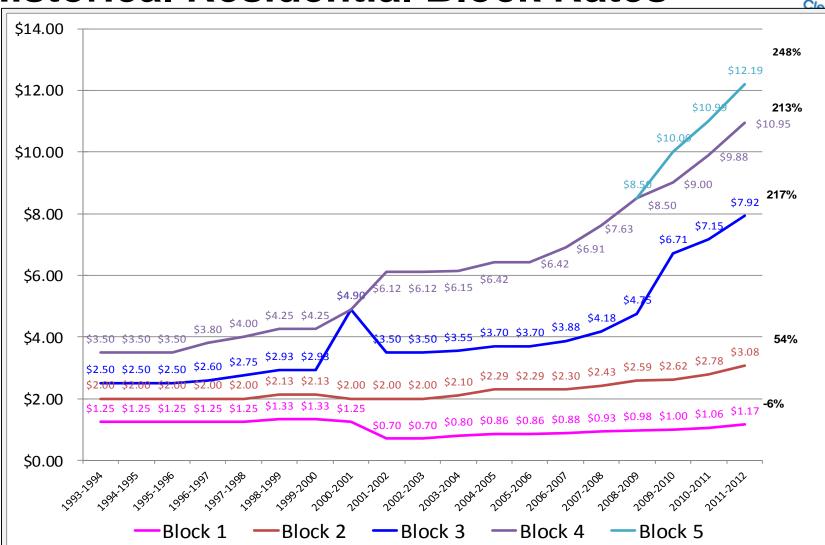


What Creates Revenue Volatility?

- Rate Structure
 - Inclining block rates creates high volatility
 - Large variance between higher blocks increases volatility
 - Uniform rates provides less volatility
- Weather
 - Wet weather conditions, especially during the summer, significantly impact revenue volatility
- Economy
 - Economic conditions impacting growth in customers
- Water Conservation
 - Increased water conservation reduces water sales
 - Mandatory water restrictions during drought



Historical Residential Block Rates





Historical Residential Block Rates Previous Graph Data

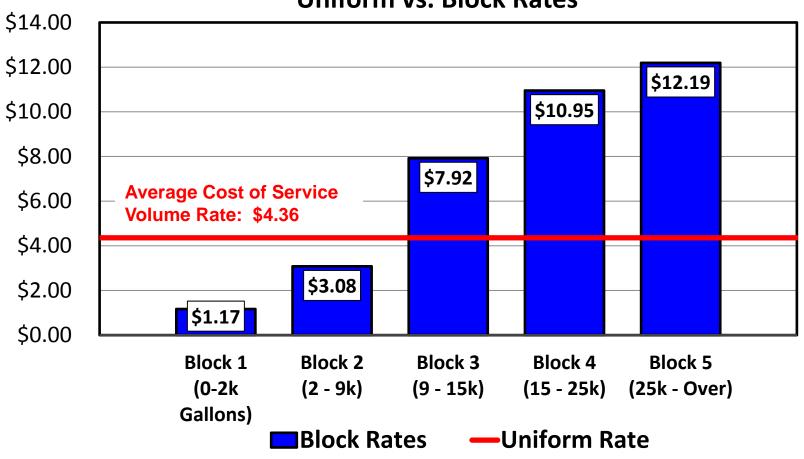
Fiscal Year	Block 1	Block 2	Block 3	Block 4	Block 5
1993-1994	1.25	2.00	2.50	3.50	
1994-1995	1.25	2.00	2.50	3.50	
1995-1996	1.25	2.00	2.50	3.50	
1996-1997	1.25	2.00	2.60	3.80	
1997-1998	1.25	2.00	2.75	4.00	
1998-1999	1.33	2.13	2.93	4.25	
1999-2000	1.33	2.13	2.93	4.25	
2000-2001	1.25	2.00	4.90		
2001-2002	0.70	2.00	3.50	6.12	
2002-2003	0.70	2.00	3.50	6.12	
2003-2004	0.80	2.10	3.55	6.15	
2004-2005	0.86	2.29	3.70	6.42	
2005-2006	0.86	2.29	3.70	6.42	
2006-2007	0.88	2.30	3.88	6.91	
2007-2008	0.93	2.43	4.18	7.63	
2008-2009	0.98	2.59	4.75	8.50	8.50
2009-2010	1.00	2.62	6.71	9.00	10.00
2010-2011	1.06	2.78	7.15	9.88	10.99
2011-2012	1.17	3.08	7.92	10.95	12.19
% Increase					
1994 to 2012	-6.4%	54.0%	216.8%	212.9%	248.3%

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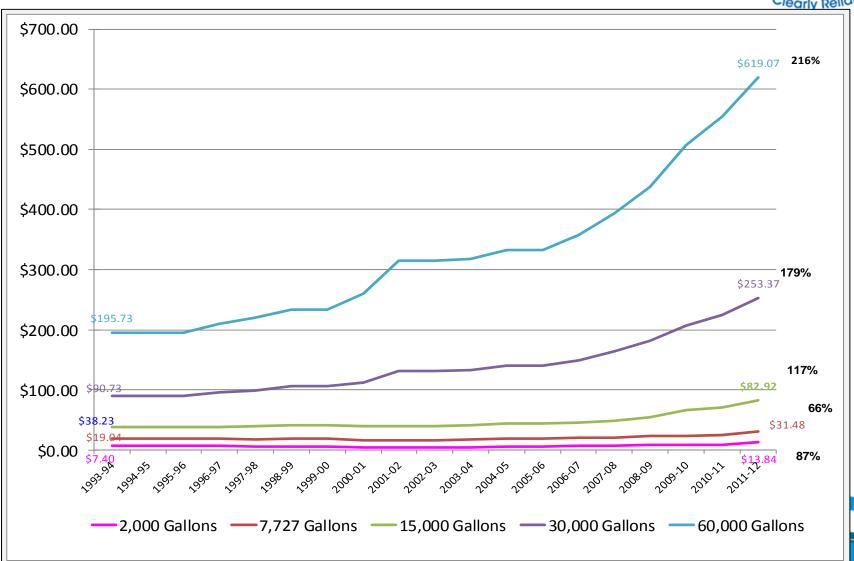
Approved Residential Rate Design

Residential Volume Rate Per 1,000 Gallons: Uniform vs. Block Rates



Historical Average Residential Bills







Historical Average Bill Previous Graph Data

Fiscal Year	2,000 Gallons	7,727 Gallons	15,000 Gallons	30,000 Gallons	60,000 Gallons
1993-1994	7.40	19.04	38.23	90.73	195.73
1994-1995	7.40	19.04	38.23	90.73	195.73
1995-1996	7.40	19.04	38.23	90.73	195.73
1996-1997	6.90	18.72	38.83	95.83	209.83
1997-1998	6.40	18.47	39.73	99.73	219.73
1998-1999	6.56	19.42	42.05	105.80	233.30
1999-2000	6.56	19.42	42.05	105.80	233.30
2000-2001	4.73	16.18	39.43	112.93	259.93
2001-2002	4.72	16.17	39.72	131.52	315.12
2002-2003	4.72	16.17	39.72	131.52	315.12
2003-2004	5.10	17.13	41.10	133.35	317.85
2004-2005	5.72	18.83	43.95	140.25	332.85
2005-2006	6.07	19.18	44.30	140.60	333.20
2006-2007	7.01	20.18	46.39	150.04	357.34
2007-2008	7.21	21.13	49.30	163.75	392.65
2008-2009	8.21	23.04	54.84	182.34	437.34
2009-2010	8.70	23.70	67.30	207.30	507.30
2010-2011	9.22	25.14	71.58	225.33	555.03
2011-2012	13.84	31.48	82.92	253.37	619.07
% Increase					
1994 to 2012	87.0%	65.3%	116.9%	179.3%	216.3%



Residential Water Bill Comparison

The following 2 graphs show residential water bills for various cities:

Graph 1: bills from 0 gallons to 10,000 gallons

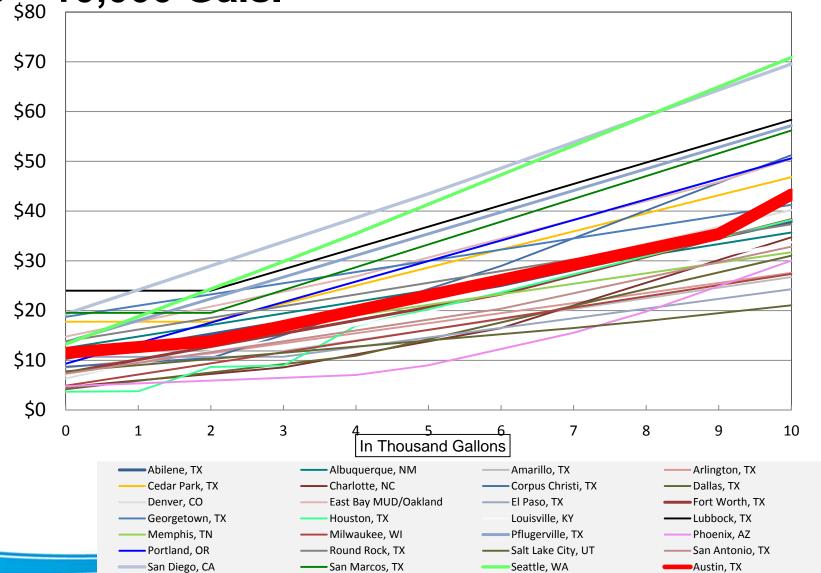
 AWU rates show below average bills compared to other cities from 0 to 10,000 gallons

Graph 2: bills from 10,000 gallons to 60,000 gallons

 After about 25,000 gallons, AWU bills are higher than all other cities shown Residential Water Bills Comparison 0 – 10,000 Gals.

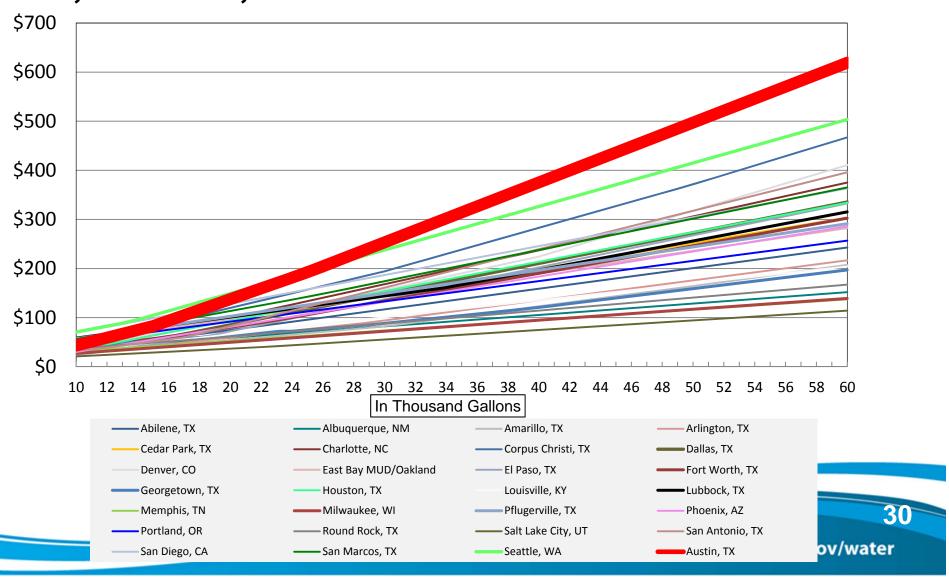


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Residential Water Bills Comparison 10,000 – 60,000 Gals.





Comparison of Austin Water Rates with Other Cities' Rates



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

San Antonio, TX Residential Rates

	Off-Peak	<u>Peak</u>
Minimum Charge	\$ 7.31	\$ 7.31
0 - 5,985 Gals.	2.17	2.17
5,986 – 12,717 Gals.	3.07	3.19
12,718 – 17,205 Gals.	4.26	4.54
17,206 – over Gals.	7.32	8.53



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Dallas, TX Residential Rates

Minimum Charge	\$ 4.20
0 – 4,000 Gals.	1.68
4,001 – 10,000 Gals.	3.35
10,001 – 15,000 Gals.	4.63
15,001 – over Gals.	6.25
I	



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Fort Worth, TX Residential Rates

Minimum Charge	\$ 7.50
0 – 5,984 Gals.	2.63
5,985 – 14,959 Gals.	3.74
14,960 – 22,438 Gals.	4.65
22,439 – over Gals.	5.61



Austin Water	
Residential Rates	
Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Houston, TX		
Residential Rates		
Minimum Charge	\$ 3.70	
0 - 1,000 Flat Bill	3.80	
2,000 Flat Bill	8.66	
3,000 Flat Bill	8.95	
4,000 Flat Bill	16.93	
5,000 Flat Bill	20.29	
6,000 Flat Bill	23.65	
6,001 – 12,000 add per Kgal	3.65	
Over 12,000 add per Kgal	6.01	

Houston has an upcoming rate increase in April. Rates not posted yet.



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Arlington, TX Residential Rates

Minimum Charge	\$8.57
0 – 2,000 Gals.	1.42
2,001 – 10,000 Gals.	2.02
10,001– 15,000 Gals.	2.98
15,001 – 29,000 Gals.	3.41
29,001 – over Gals.	4.08



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 - 2,000 Gals.	1.17
2,001 - 9,000 Gals.	3.08
9,001 - 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

San Marcos, TX Residential Rates

Minimum Charge	\$19.55
0 – 2,000 Gals.*	0.00
2,001 – 10,000 Gals.	4.58
10,001– 25,000 Gals.	5.74
25,001 – over Gals.	6.37

^{*} First 2,000 Gallons are included in customer charge



\$ 4.36

Revenue Volatility – Rate Comparisons

Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Phoenix, AZ Residential Rates

Oct – May 4,487 Kgal in min chg

Jun– Sep 7,479 Kgal in min chg

All Volume not included:

Dec – Mar \$ 4.21

Apr - May & Oct - Nov 4.49

Jun – Sep 6.16

Minimum Charge



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Portland, OR Residential Rates

Minimum Charge \$ 9.33

All Volume 4.13

* Historically had inclining block structure as aggressive as Austin's



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 - 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Seattle, WA Residential Rates

<u>Off-Peak</u> <u>Peak</u>		
\$ 13.25	\$13.25	
5.40	5.80	
5.40	6.89	
5.40	15.78	
	\$ 13.25 5.40 5.40	

Off Peak = Mid September to Mid May Peak Season = Mid May to Mid September



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 - 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

San Diego, CA Residential Rates

Minimum Charge	\$ 19.33
0 – 10,500 Gals.	4.83
10,501 – 21,000 Gals.	5.24
21,001 – over Gals.	5.88



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Atlanta, GA Residential Rates

Minimum Charge	\$ 6.56
0 – 4,000 Gals.	3.65
4,001 – 8,000 Gals.	7.34
8,001 – over Gals.	8.44



Austin Water Residential Rates

Minimum Charge	\$ 11.50
0 – 2,000 Gals.	1.17
2,001 – 9,000 Gals.	3.08
9,001 – 15,000 Gals.	7.92
15,001 – 25,000 Gals.	10.95
25,001 – over Gals.	12.19

Denver Water Residential Rates

Minimum Charge	\$6.33
0 – 11,000 Gals.	2.54
11,001 – 30,000 Gals.	5.09
30,001– 40,000 Gals.	7.63
40,001 – over Gals.	10.17



Questions & Discussion?



Decision Points Volatility & Volumetric Rates





- Residential rate blocks
 - Differentials between blocks
 - Amount of subsidy of blocks 1 and 2
 - Costs funded from only blocks 1-4
- Non-residential rates
 - Current uniform seasonal rates
 - Excess use or block rates for non-residential
- Transition to meet goals
 - Number of years to make changes to rates





- Transition to meet goals
 - Number of years to make changes to rates



Questions & Discussion?