

City Of Manhattan Beach

Public Information Meeting Water and Sewer Rates

Wednesday, October 7, 2009

and

Tuesday, October 13, 2009

City Council Chambers

7:00-9:00 p.m.



Agenda

- Purpose of Meeting
- How are utilities funded?
- Why are we faced with large rate increases now?
- How do we know infrastructure needs replacement and what are the costs?
- When faced with an increase in rates, what criteria did City Council give Staff about rates when developing various options?
- Given our needs for infrastructure, how much revenue is needed by each utility?
- With this information in hand, why did the City Council choose the rate structure now proposed?
- What are the impacts on my rates?
- Why not bonding for infrastructure? What are the pros/cons?
- What are the impacts on revenue/rates if we conserve water?
- What are the next steps in the process?
- What questions/issues has the City heard from residents?
- Questions?

Purpose of Meeting

- Review material available to City Council when deliberating on rates (available on City's website at www.citymb.info)
- Listen to questions/issues

How are utilities funded?

- **Each utility is funded exclusively by rates**
- **Each utility is a “stand alone” enterprise fund**
 - Similar to SCE, natural gas, etc.
 - No mixing of utility funds with City’s General Fund
 - Utilities receive no property tax or proceeds from General Obligation Bonds
- **There is a difference between G.O. Bonds and Revenue Bonds**
 - G.O. Bonds voted
 - Revenue Bonds are not voted; debt is part of rate.

Why are we faced with large rate increases now?

➤ Water

- Infrastructure deficiencies
- Increase in wholesale water cost

➤ Sewer

- Infrastructure deficiencies
- Existing deficit in rate revenues and operating expenses

How do we know our infrastructure needs replacement and what are the costs?

- In August, 2008 the City hired AKM Engineers to perform extensive review of system condition.

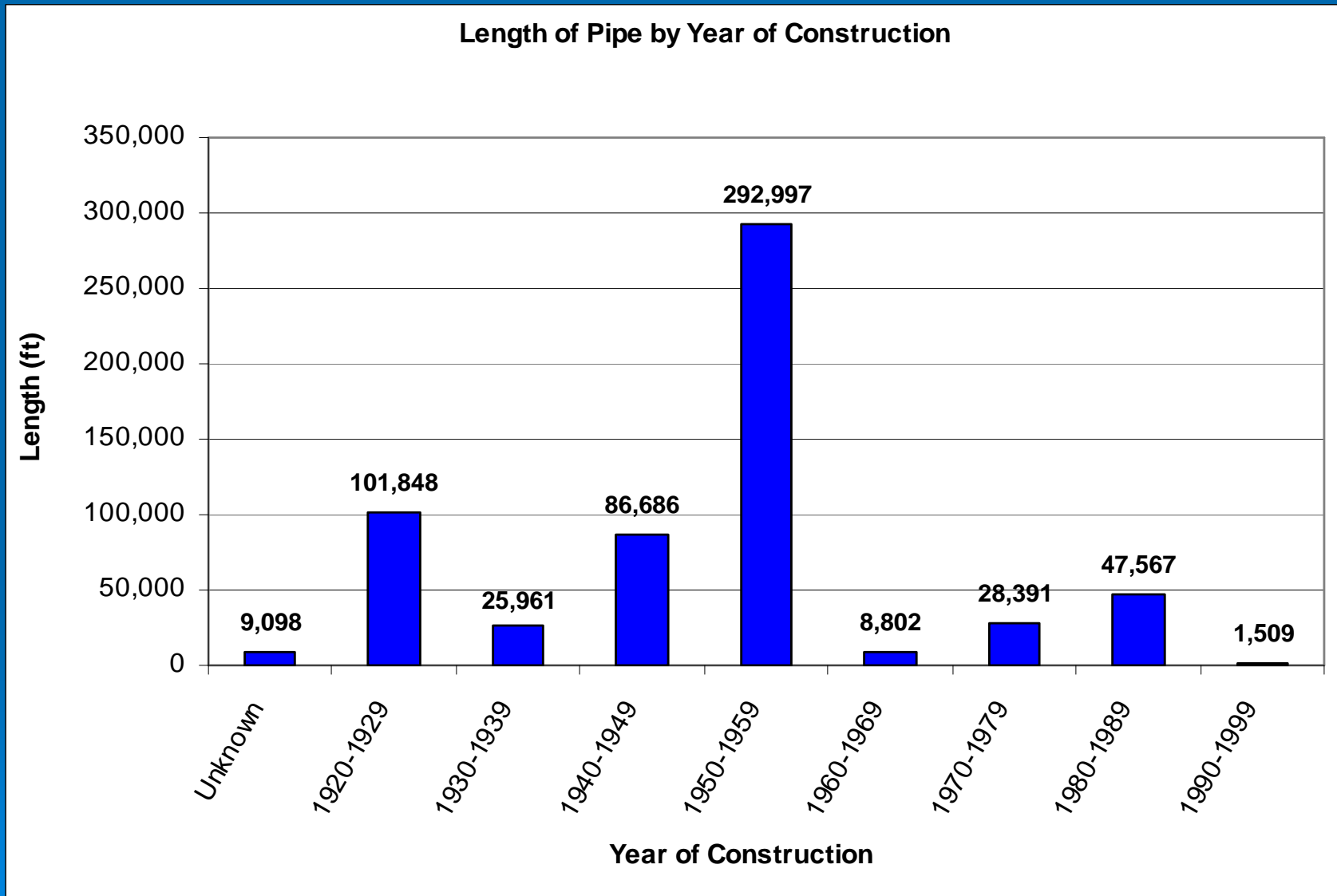
How do we know our infrastructure needs replacement and what are the costs?

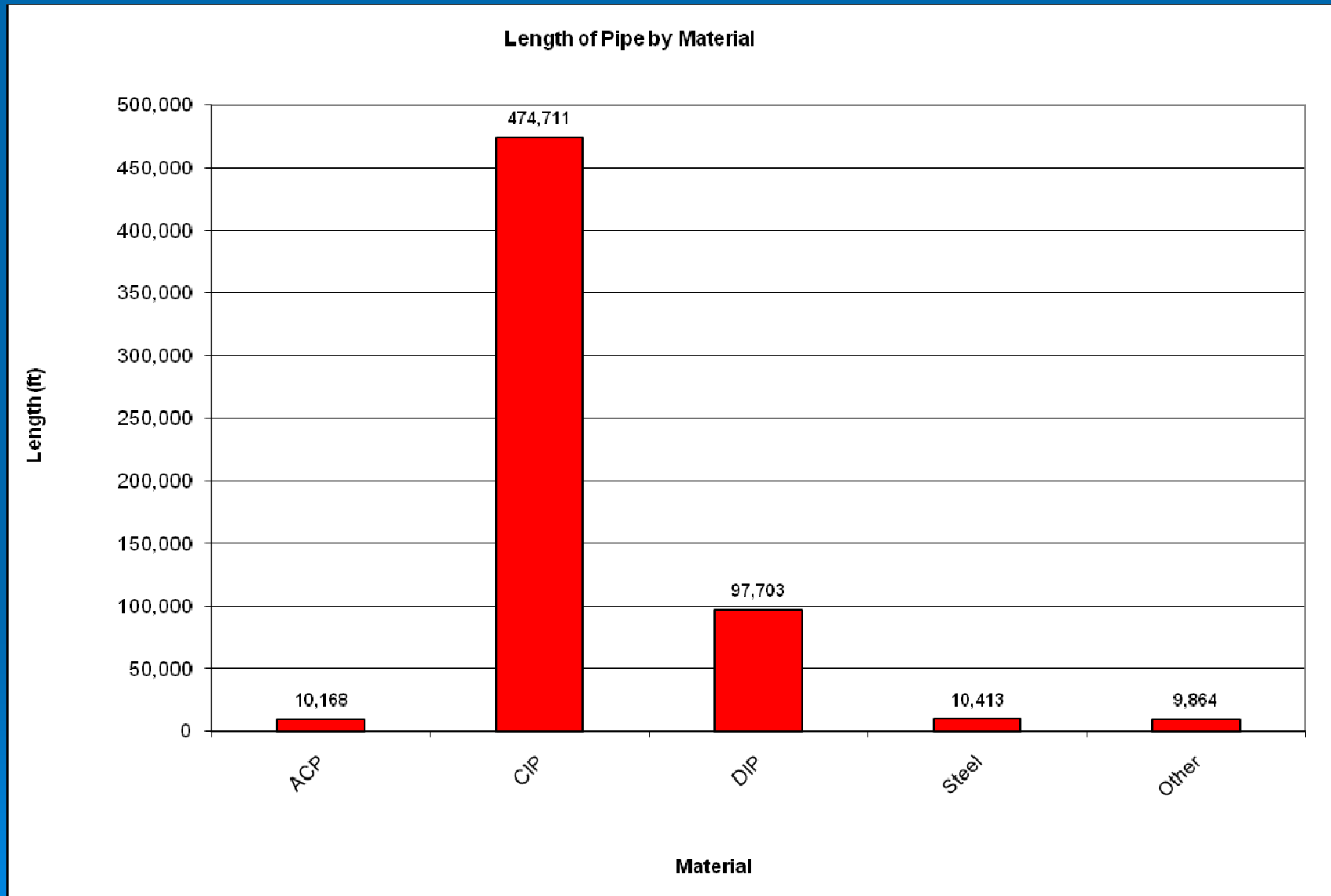
➤ Water

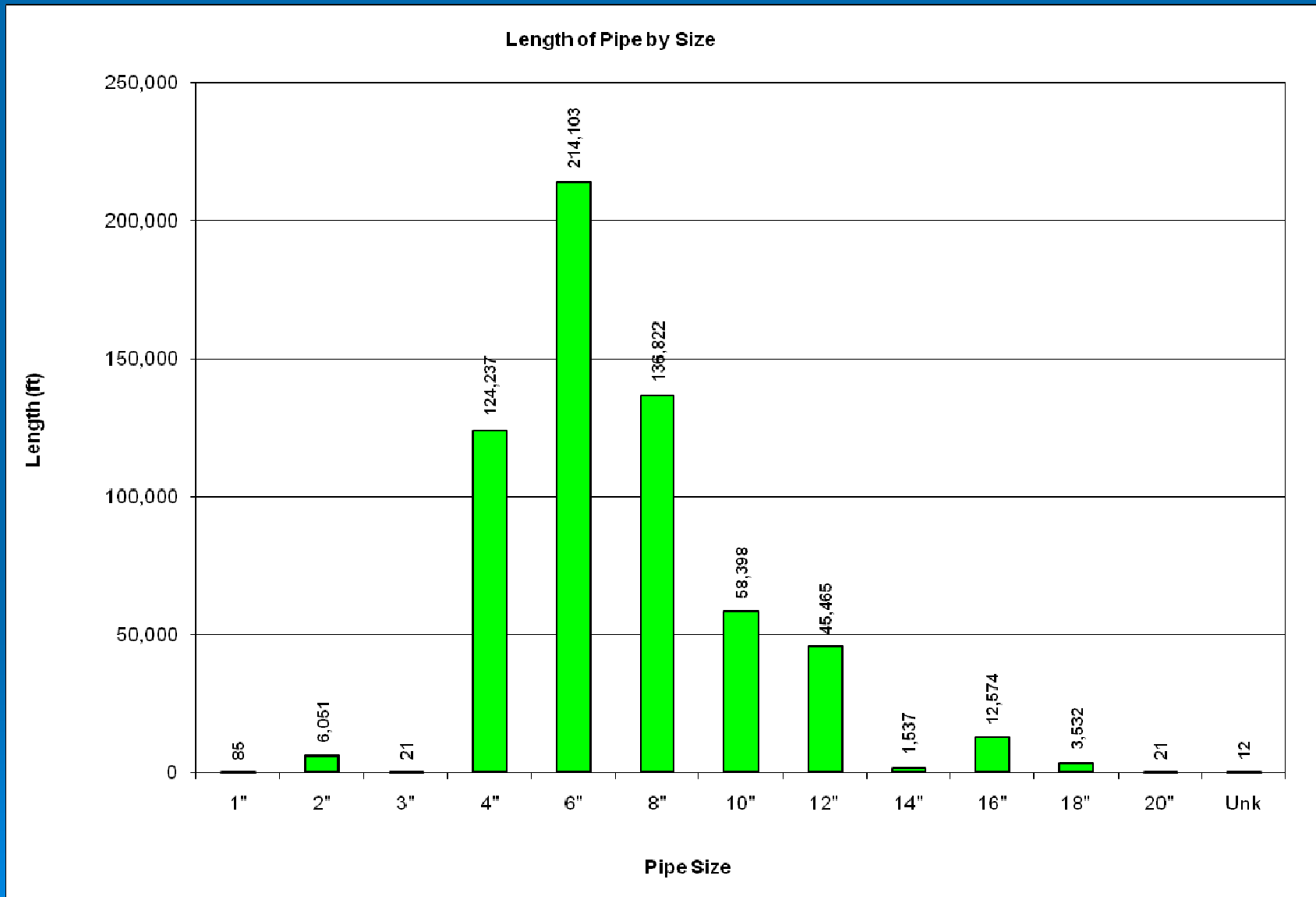
- Water infrastructure is old, cast iron pipe, undersized
- AKM recommends \$126,000,000 in next 20 years

➤ Transmission and Distribution System

- Constructed between 1920s and present
- The System includes nearly 220,000 feet of pipe older than 60 years
- Over 79% of the system is made up of unlined cast iron pipe
- 22% of the pipes are 4-inch and smaller









How do we know our infrastructure needs replacement and what are the costs?

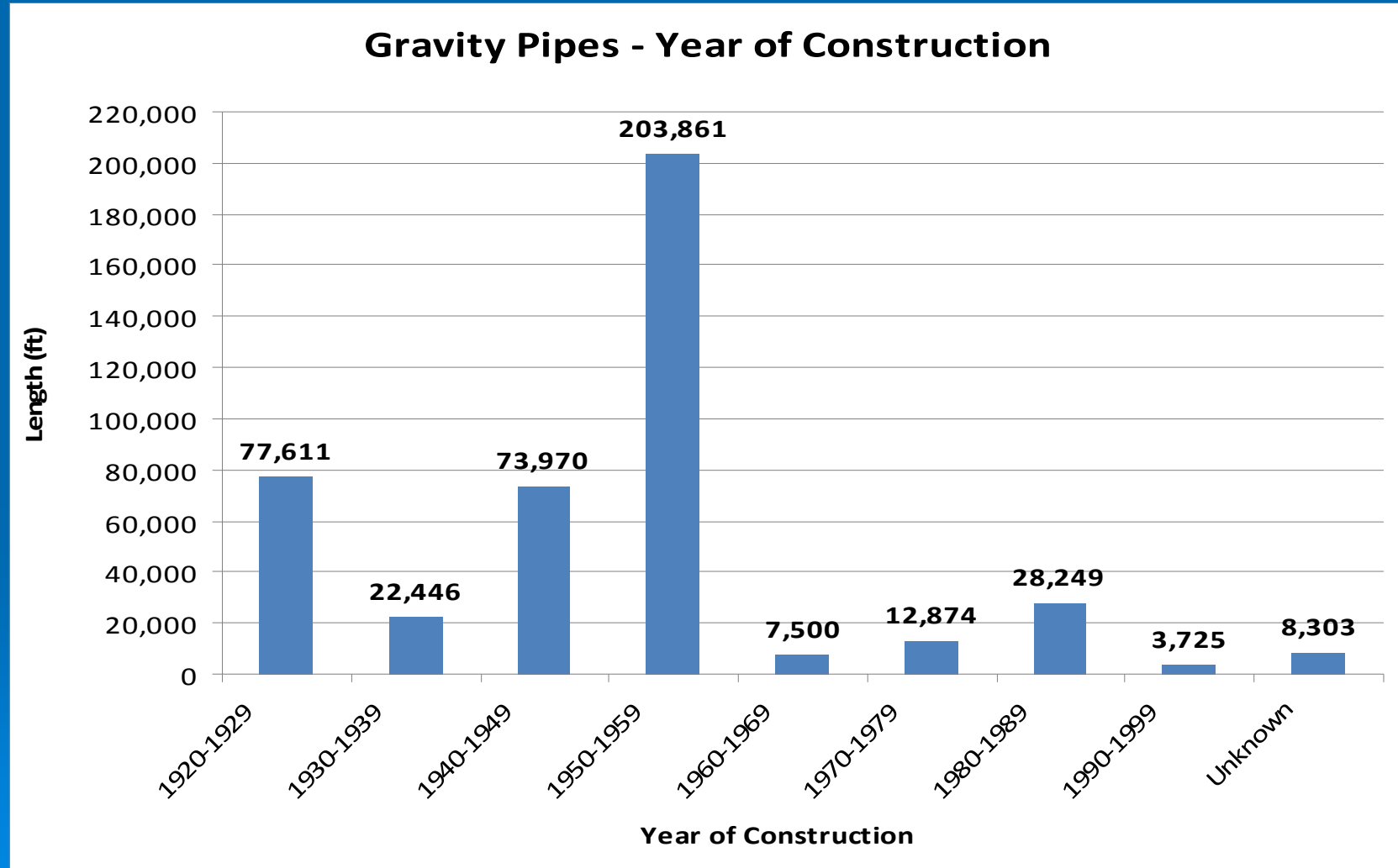
➤ Sewer

- Sewer infrastructure is old and contains broken pipe, offset joints, root problems, etc.
- AKM recommends \$39,000,000 expenditures in next 20 years

Wastewater

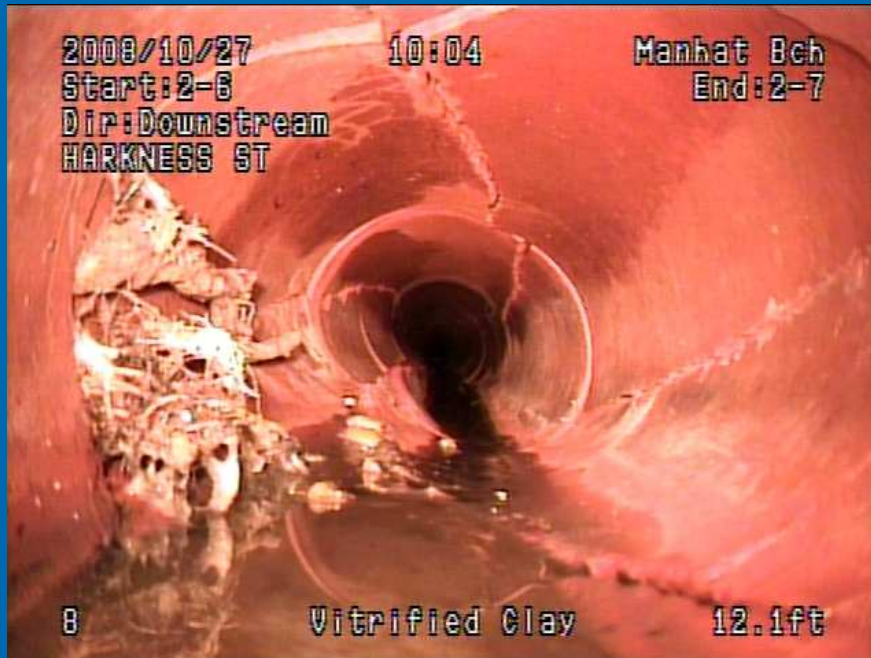
Age of Existing System

- Collection System



Wastewater

Condition Evaluation



Broken Pipe

Large Offset Joint



When faced with an increase in rates, what criteria did City Council give Staff about rates when developing various options?

- Include component of rate that funds water and sewer infrastructure
- Acknowledge the City's goal to conserve water
- Establish tiered structure that increases unit price of water for increasing use
- Allow user to control their rate increase by conserving water
- Delay meeting infrastructure and reserve goals until last year of multi-year rate adjustments

Given our needs for infrastructure, how much revenue is needed by each utility?

- Water Revenue Requirements
 - System reinvestment
 - MWD water purchase (85% of City supply)

Manhattan Beach Updated Rate Scenarios - September 1, 2009
Water Revenue Plan: January 1, 2010 Implementation
Scenario #4 (\$5m slow)

Summary of Water Revenue Requirements	FY 2009 2010	FY 2010 2011	FY 2011 2012	FY 2012 2013	FY 2013 2014
Assumptions:					
Rate Stabilization Reserve - (% of rate revenues)	10%	10%	10%	15%	20%
Rate Stabilization Reserve - Balance	\$ 870,000	\$ 1,116,765	\$ 1,388,673	\$ 2,533,381	\$ 3,836,209
System Reinvestment - % of Target	20%	40%	60%	80%	100%
System Reinvestment - R&R Capital Funding	\$ 1,000,000	\$ 2,000,000	\$ 3,000,000	\$ 4,000,000	\$ 5,000,000
Operating Reserve - Beginning Balance	\$ 4,750,327	\$ 2,592,259	\$ 1,448,273	\$ 1,183,420	\$ 1,527,576
Operating Reserve - Ending Balance	\$ 2,592,259	\$ 1,448,273	\$ 1,183,420	\$ 1,527,576	\$ 2,000,377
Operating Reserve - # of days of Operating Expenses	111	65	48	55	63
Revenues					
Water Rate Revenue (Current Rates)	\$ 7,470,000	\$ 7,470,000	\$ 7,470,000	\$ 7,470,000	\$ 7,470,000
Other Operating Revenue	\$ 147,800	\$ 147,800	\$ 147,800	\$ 147,800	\$ 147,800
Non-Operating Revenue	\$ 61,988	\$ 61,988	\$ 61,988	\$ 61,988	\$ 61,988
Interest Earnings Operating Reserve	\$ 56,788	\$ 51,845	\$ 28,965	\$ 23,668	\$ 30,552
Total	\$ 7,736,576	\$ 7,731,633	\$ 7,708,753	\$ 7,703,456	\$ 7,710,340
Revenues From Rate Increases	\$ 1,120,500	\$ 3,697,650	\$ 7,047,945	\$ 9,967,314	\$11,685,403
Total Projected Revenues w/ Rate Increase:	\$ 8,857,076	\$11,429,283	\$14,756,698	\$17,670,771	\$19,395,742
Expenses					
Operating Expenses	\$ 4,077,122	\$ 4,305,832	\$ 4,566,697	\$ 4,796,318	\$ 5,038,701
MWD Water Purchases	\$ 4,854,708	\$ 5,825,650	\$ 6,990,780	\$ 7,200,503	\$ 7,416,518
Debt Service	\$ 213,314	\$ 212,422	\$ 214,502	\$ 212,859	\$ 215,563
Rate-Funded System Reinvestment	\$ 1,000,000	\$ 2,000,000	\$ 3,000,000	\$ 4,000,000	\$ 5,000,000
Subtotal:	\$10,145,144	\$12,343,904	\$14,771,979	\$16,209,680	\$17,670,782
Additions(Subtractions) to(from) Operating Reserve	\$ (2,158,068)	\$ (1,143,986)	\$ (264,853)	\$ 344,156	\$ 472,800
Additions to Rate Stabilization Reserve	\$ 870,000	\$ 229,365	\$ 249,573	\$ 1,116,935	\$ -
Total:	\$ 8,857,076	\$11,429,283	\$14,756,698	\$17,670,771	\$18,143,582
Test Driving Rate Increase	Cash	Cash	Cash	Cash	Cash
Fiscal Year Revenue Increase (w/ Scheduled Rate Increases Every January 1)	15.0%	30.0%	30.0%	20.1%	9.9%
Caldendar Year Rate Increase (January 1)	30.0%	30.0%	30.0%	12.5%	7.5%

Given our needs for infrastructure, how much revenue is needed by each utility?

- Sewer Revenue Requirements
 - System reinvestment (none in first year)
 - Existing deficit

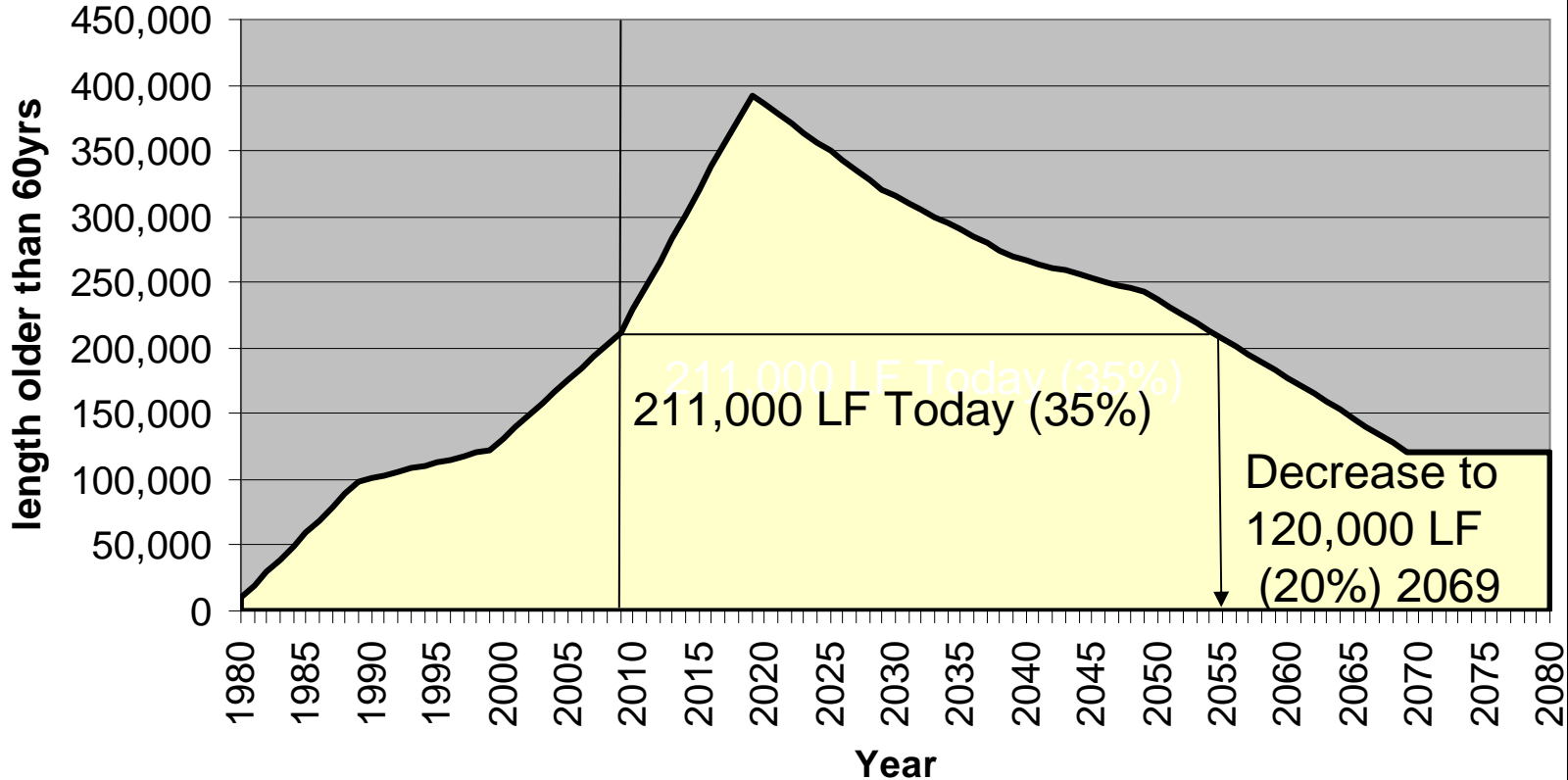
Manhattan Beach Updated Rate Scenarios - September 1, 2009
COUNCIL MEETING Sewer Revenue Plan: January 1, 2010 Implementation

Summary of Sewer Revenue Requirements	FY 2009 2010	FY 2010 2011	FY 2011 2012	FY 2012 2013	FY 2013 2014
Assumptions:					
Rate Stabilization Reserve - (% of rate revenues)	10%	15%	15%	20%	20%
Rate Stabilization Reserve - Balance	\$ 188,769	\$ 428,625	\$ 500,063	\$ 733,425	\$ 787,559
System Reinvestment - % of Target	0%	50%	75%	75%	100%
System Reinvestment - R&R Capital Funding	\$ -	\$ 1,250,000	\$ 1,875,000	\$ 1,875,000	\$ 2,500,000
Capital Reserve Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ 109,782
Operating Reserve - Beginning Balance	\$ (255,480)	\$ 177,927	\$ 223,175	\$ 242,242	\$ 382,828
Operating Reserve - Ending Balance	\$ 177,927	\$ 223,175	\$ 242,242	\$ 382,828	\$ 190,426
Operating Reserve - # of days of Operating Expenses	53	64	67	102	49
Revenues					
Sewer Rate Revenue	\$ 1,270,000	\$ 1,270,000	\$ 1,270,000	\$ 1,270,000	\$ 1,270,000
Other Operating Revenue	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000	\$ 38,000
Interest Earnings Operating Reserve	\$ 1,500	\$ 3,559	\$ 4,464	\$ 4,845	\$ 7,657
Total	\$ 1,309,500	\$ 1,311,559	\$ 1,312,464	\$ 1,312,845	\$ 1,315,657
Revenues From Rate Increases	\$ 635,000	\$ 1,587,500	\$ 2,063,750	\$ 2,397,125	\$ 2,667,794
Total Projected Revenues w/ Rate Increase:	\$ 1,944,500	\$ 2,899,059	\$ 3,376,214	\$ 3,709,970	\$ 3,983,450
Expenses					
Operating Expenses	\$ 1,216,006	\$ 1,263,221	\$ 1,313,750	\$ 1,366,300	\$ 1,420,952
Existing Debt Service	\$ 106,318	\$ 104,508	\$ 105,532	\$ 104,722	\$ 105,654
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -
Direct Capital Project Funding From User Fees	\$ -	\$ -	\$ -	\$ -	\$ -
System Reinvestment Expense	\$ -	\$ 1,250,000	\$ 1,875,000	\$ 1,875,000	\$ 2,500,000
Subtotal:	\$ 1,322,324	\$ 2,617,729	\$ 3,294,282	\$ 3,346,022	\$ 4,026,606
Additions(Subtractions) to(from) Operating Reserve	\$ 433,407	\$ 45,248	\$ 19,066	\$ 140,586	\$ (192,402)
Additions to Rate Stabilization Reserve	\$ 188,769	\$ 236,081	\$ 62,865	\$ 223,361	\$ 39,465
Additions to Capital Reserve	\$ -	\$ -	\$ -	\$ -	\$ 109,782
Total:	\$ 1,944,500	\$ 2,899,059	\$ 3,376,214	\$ 3,709,970	\$ 3,983,450
Test Driving Increase	Cash	Cash	Cash	Cash	Cash
Fiscal Year Revenue Increase (w/ Scheduled Rate Increases Every January 1)	50.0%	50.0%	16.7%	10.0%	7.4%
Calendar Year Rate Increase (January 1)	100.0%	25.0%	10.0%	10.0%	5.0%

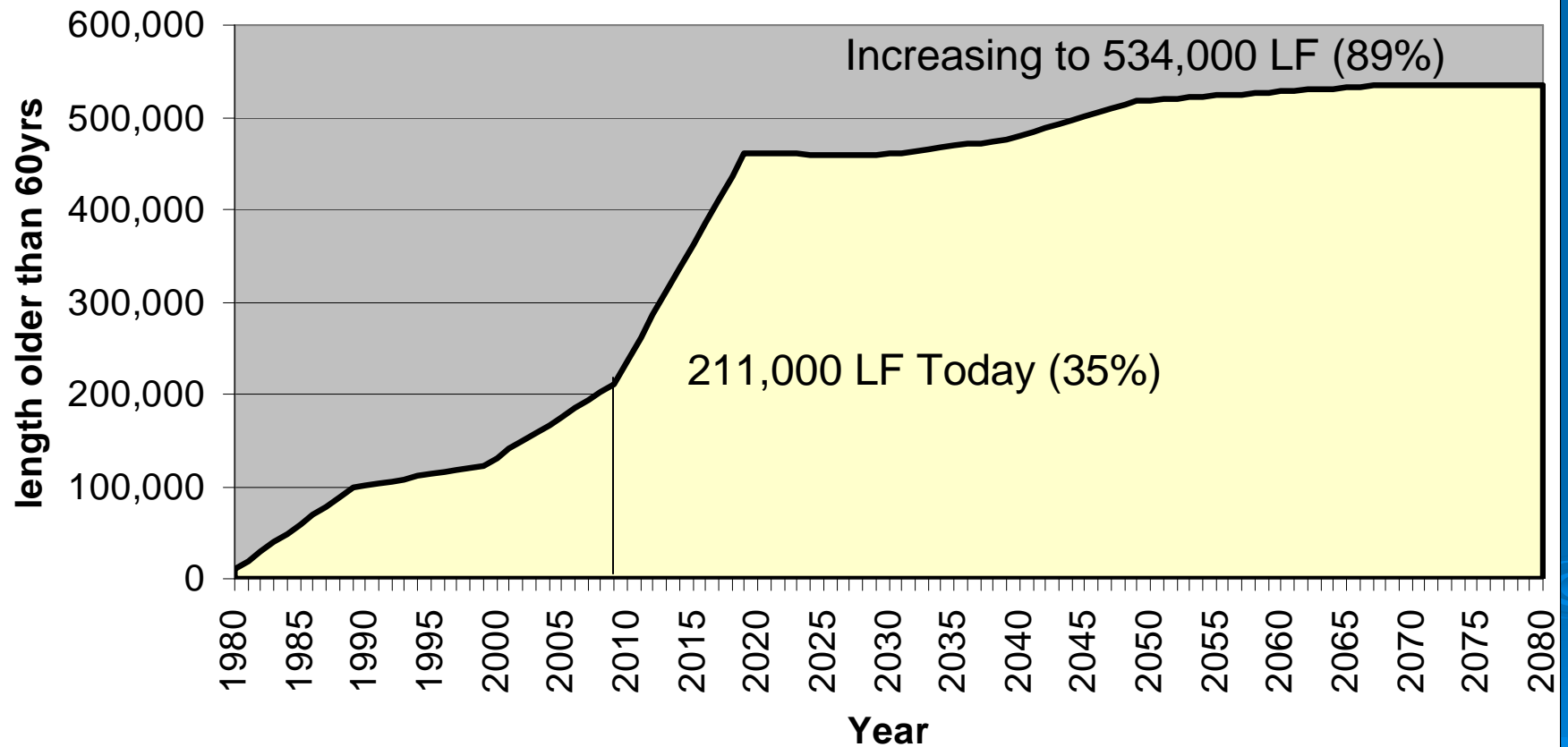
With this information in hand, why did the City Council choose the rate structure now proposed?

- Committed to begin rebuilding infrastructure by \$7,500,000/year by end of five year rate adjustments
- Committed to conserving water
- Deliberated annual goal for infrastructure reinvestment funding and phasing options to meet that goal
- Level of expenditure will keep the system in approximately same condition by the year 2055

**Length of Water Mains greater than 60 Years Old
At Proposed Investment Level
(Total Inventory = 114 Mi. or 602,000 LF)**



**Length of Water Mains greater than 60 Years Old
At Current Investment Level
(Total Inventory = 114 Mi. or 602,000 LF)**



What are the impacts to my rates?

- Depends on your water consumption
- Median vs. Average
- Water meter size

Manhattan Beach Updated Rate Scenarios
 September 1, 2009
 Water Bill Impacts – Scenario 4 (\$5m slow)

Water Bill Impacts - Scenario 4 (\$5m slow) (Tier 0-7 ccf)								
	Usage (ccf)	Monthly Bills Under Current Rates	Monthly Bills Under Proposed Rates	Monthly Bill Increase (Decrease)	Annual Increase (%)	Number of Customers	% of Total	
5/8"	25%	4	\$ 18.05	\$ 19.29	\$ 1.24	6.9%	2945	22.4%
		7	\$ 23.54	\$ 25.30	\$ 1.76	7.5%		
	Median	8	\$ 25.37	\$ 28.07	\$ 2.70	10.6%		
	Average	11	\$ 30.86	\$ 36.37	\$ 5.51	17.8%		
		31	\$ 67.46	\$ 93.41	\$ 25.95	38.5%		
		40	\$ 83.93	\$ 133.73	\$ 49.80	59.3%		
3/4"	25%	4	\$ 18.05	\$ 19.29	\$ 1.24	6.9%	6091	46.3%
		7	\$ 23.54	\$ 25.30	\$ 1.76	7.5%		
		8	\$ 25.37	\$ 28.07	\$ 2.70	10.6%		
	Median	12	\$ 32.69	\$ 39.13	\$ 6.44	19.7%		
		31	\$ 67.46	\$ 93.41	\$ 25.95	38.5%		
		40	\$ 83.93	\$ 133.73	\$ 49.80	59.3%		
1"	25%	4	\$ 28.78	\$ 29.47	\$ 0.69	2.4%	3502	26.6%
		7	\$ 34.27	\$ 35.47	\$ 1.20	3.5%		
		8	\$ 36.10	\$ 38.24	\$ 2.14	5.9%		
	Median	13	\$ 45.25	\$ 52.07	\$ 6.82	15.1%		
	90%	31	\$ 78.19	\$ 103.58	\$ 25.39	32.5%		
		40	\$ 94.66	\$ 143.90	\$ 49.24	52.0%		

Manhattan Beach Updated Rate Scenarios
 September 1, 2009

		Sewer Bill Impacts						
		Usage (ccf)	Monthly Bills Under Current Rates	Monthly Bills Under Proposed 2010 Rates	Monthly Bill Increase (Decrease)	Bill Increase (%)	Number of Customers	% of Total
5/8"	25%	4	\$ 3.26	\$ 6.70	\$ 3.44	105.5%	2934	22.5%
	Median	8	\$ 4.86	\$ 9.90	\$ 5.04	103.6%		
	Average	11	\$ 5.86	\$ 11.89	\$ 6.03	103.0%		
	90%	21	\$ 10.06	\$ 20.28	\$ 10.22	101.6%		
3/4"	25%	7	\$ 4.46	\$ 9.10	\$ 4.64	104.0%	6073	46.5%
	Median	12	\$ 6.46	\$ 13.09	\$ 6.63	102.7%		
	Average	14	\$ 7.26	\$ 14.69	\$ 7.43	102.3%		
	90%	26	\$ 11.86	\$ 23.88	\$ 12.02	101.3%		
1"	25%	7	\$ 5.92	\$ 10.10	\$ 4.18	70.5%	3485	26.7%
	Median	13	\$ 8.32	\$ 14.89	\$ 6.57	79.0%		
	Average	16	\$ 9.52	\$ 17.29	\$ 7.77	81.6%		
	90%	30	\$ 15.12	\$ 28.47	\$ 13.35	88.3%		

Combined Water & Sewer Bill Impact 30% Increase

Scenario 1 (Original) Utility Bill Impacts*	2009	2010	2011	2012	2013	2014
Median Monthly Water Bill: (3/4" meter)	\$32.69	\$39.13	\$51.49	\$61.33	\$70.08	\$73.32
Median Monthly Sewer Bill: (3/4" meter)	\$6.46	\$13.09	\$16.36	\$18.00	\$19.80	\$20.79
Total Monthly Utility Bill:	\$39.15	\$52.22	\$67.86	\$79.33	\$89.88	\$94.11
Annual Increase (%)		33.4%	29.9%	16.9%	13.3%	4.7%

Monthly Utility Bill with 10% Reduction	\$39.15	\$45.07	\$62.17	\$72.56	\$82.22	\$86.11
Annual Increase (%)		15.1%	37.9%	16.7%	13.3%	4.7%

* FY 2009/10 Reflects Jan. 1, 2010 Implementation

** 2010 and Beyond Reflect Achievement of 10% Curtailment Goal

Why not bonding for infrastructure? What are the pros/cons?

- **Bond by revenue bond...debt payment is paid by rates**
- **Assumes expenditure of \$7,500,000/year for water/sewer infrastructure**
- **Pros**
 - Immediate source of funds for infrastructure
 - Use for large, immediate infrastructure needs
 - Spreads cost forward to users (20, 30 years)
- **Cons**
 - Over length of bond, available dollars for infrastructure is less
 - Uses up “emergency” capital needs debt
 - Large impact of construction throughout City

Size of Loan	Interest Rate	Term	Annual Debt Service	Annual Cash Funding	Annual Capital Expense	Total Capital Investment
\$100,000,000	6.00%	30	\$ 7,264,891	\$ 235,109	\$ 7,500,000	\$107,053,266
\$ 50,000,000	6.00%	30	\$ 3,632,446	\$ 3,867,554	\$ 7,500,000	\$166,026,633
\$ 20,000,000	6.00%	30	\$ 1,452,978	\$ 6,047,022	\$ 7,500,000	\$201,410,653
\$ ---	6.00%	30	\$ ---	\$ 7,500,000	\$ 7,500,000	\$225,000,000

Size of Loan	Interest Rate	Term	Annual Debt Service	Annual Cash Funding	Annual Capital Expense	Total Capital Investment
\$100,000,000	6.00%	20	\$ 8,718,456	\$ (1,218,456)	\$ 7,500,000	\$ 75,630,886
\$ 50,000,000	6.00%	20	\$ 4,359,228	\$ 3,140,772	\$ 7,500,000	\$112,815,443
\$ 20,000,000	6.00%	20	\$ 1,743,691	\$ 5,756,309	\$ 7,500,000	\$135,126,177
\$ ---	6.00%	20	\$ ---	\$ 7,500,000	\$ 7,500,000	\$150,000,000

Size of Loan	Interest Rate	Term	Annual Debt Service	Annual Cash Funding	Annual Capital Expense	Total Capital Investment
\$100,000,000	4.00%	30	\$ 5,783,010	\$ 1,716,990	\$ 7,500,000	\$151,509,703
\$ 50,000,000	4.00%	30	\$ 2,891,505	\$ 4,608,495	\$ 7,500,000	\$188,254,851
\$ 20,000,000	4.00%	30	\$ 1,156,602	\$ 6,343,398	\$ 7,500,000	\$210,301,941
\$ ---	4.00%	30	\$ ---	\$ 7,500,000	\$ 7,500,000	\$225,000,000

Size of Loan	Interest Rate	Term	Annual Debt Service	Annual Cash Funding	Annual Capital Expense	Total Capital Investment
\$100,000,000	4.00%	20	\$ 7,358,175	\$ 141,825	\$ 7,500,000	\$102,836,499
\$ 50,000,000	4.00%	20	\$ 3,679,088	\$ 3,820,912	\$ 7,500,000	\$126,418,250
\$ 20,000,000	4.00%	20	\$ 1,471,635	\$ 6,028,365	\$ 7,500,000	\$140,567,300
\$ ---	4.00%	20	\$ ---	\$ 7,500,000	\$ 7,500,000	\$150,000,000

What are the impacts on revenues/rates if we conserve water?

- City goal is to conserve water
 - Environmental Task Force
 - Conservation Ordinance
- Our conservation efforts to date
- What our rates included assuming conservation
- Large conservation revenue loss will be buffered by utility reserves

Conservation Impacts on Revenue

<u>Water</u>			
Conservation Level	Projected Water Revenue Loss	Projected Water Purchase Savings	Projected Revenue Gain (Loss) Due to Conservation
0%	\$ ---	\$ ---	
10%	\$ 894,271	\$ 843,662	(\$50,609)
15%	\$1,290,307	\$1,119,639	(\$170,668)
20%	\$1,686,343	\$1,395,616	(\$290,727)
25%	\$2,082,379	\$1,671,593	(\$410,786)
30%	\$2,478,415	\$1,947,570	(\$530,845)

<u>Sewer</u>		
Conservation Level	Projected Sewer-Eligible Usage	Projected Sewer Revenue Loss
0%	2,680,687 ccf	\$235,704
10%	2,385,718 ccf	\$0
15%	2,270,979 ccf	(\$91,685)
20%	2,156,240 ccf	(\$183,370)
25%	2,041,502 ccf	(\$275,056)
30%	1,926,763 ccf	(\$366,741)

What are the next steps in the process?

- Information Meeting October 7 & 13
- Public Hearing October 20
- Scheduled Council Action October 20
- Rates effective with bills sent out after .. January 1, 2010

What questions/issues has the City received from residents?

- Billing format lacks information
- Rates increase too rapidly
- Not enough information about rate justification has been available
- Entire process has not allowed enough time to inform public
- Conservation will prevent adequate revenues from being raised, necessitating more rate increases
- Public notice was poor
- Prop 218: Process was not followed
- Purchase water from other sources
- Should use bonds to fund infrastructure

Questions?