City of Napoleon, Ohio

WATER RATE AND COST OF SERVICE STUDY

SCOPE OF SERVICES*

- Data Acquisition/Verification
- Projected Revenue Requirements
- Cost of Service Analysis
- Rate Review/Design

^{*} Previously Presented on September 12 and October 10, 2011

DETERMINATION OF OVERALL REVENUE ADJUSTMENT

	Net Revenue	Revenues at	Revenue Adjustment			
	Requirements*	Current Rates	Amount	%		
2012	\$ 2,743,342	\$ 2,438,401	\$ 304,941	12.5%		
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2013	\$ 2,815,300	\$ 2,438,401	\$ 376,899	15.5%		
2014	\$ 3,905,610	\$ 2,438,401	\$1,467,209	60.2%		
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^{*} Includes Anticipated Debt Service for Proposed WTP Improvements Starting in 2014.

Conclusions & Recommendations

- Revenues at Current Rates are <u>NOT</u> Sufficient to Meet Projected Revenue Requirements.
- Revenues Need to be Increased by Approximately 16% in Order to Meet the Projected Near-Term (2013) Revenue Requirements.
- Considering the Anticipated Debt Service Associated with the Proposed Water Treatment Plant Improvements, We Recommend Increasing Revenues by Approximately 20% by the Start of 2013.

COST OF SERVICE RESULTS

2013 2014

3.29/ccf 4.71/ccf **Base Cost**

Extra Capacity Cost Maximum Day Maximum Hour

\$ 200.21/ccfpd \$ 418.30/ccfpd \$ 142.59/ccfpd \$ 146.85/ccfpd

Customer Costs Meters & Services Billing & Collection \$ 1.06/Bill

\$ 6.48/Month

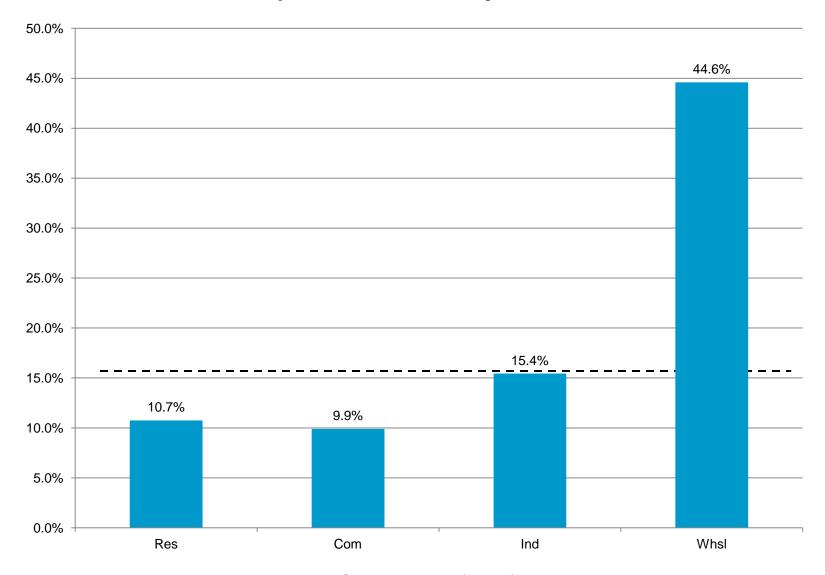
\$ 6.79/Month \$ 1.11/Bill

COS vs. CURRENT RATES

	Revenue at Current	COS	Under(Over)Recovery			
Customer Class	Rates	Results(1)		\$	%	
Residential	\$ 1,178,600	\$ 1,305,300	\$	126,700	10.7%	
Commercial	720,500	791,800		71,300	9.9%	
Industrial	211,200	243,800		32,600	15.4%	
Wholesale	328,100	474,400		146,300	44.6%	
Totals	\$ 2,438,400	\$ 2,815,300	\$	376,900	15.5%	

⁽¹⁾ Reflects 2013 Test Year.

Required Revenue Adjustment



--- Overall Increase (15.5%)

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Conclusions & Recommendations

- Residential and Small Commercial/Industrial Customers are Subsidizing the Large Commercial /Industrial and Wholesale Customers.
- Future Rate Adjustments Should Move Towards Cost of Service Results.
- Continue to Monitor Revenues and Expenses and Adjust Rates as Needed.

RATE REVIEW/DESIGN

Review Current Rates

Identify Problem Areas

 Develop Rate Adjustments to Meet Future Revenue Requirements

Previously Presented on September 12 and October 10, 2011.

INSIDE RATES*

- Effective 1/1/11
- Usage Charge:
 - First 25,000 cu ft. @ \$ 3.91 / ccf
 - Over 25,000 cu ft. @
- - 2.24 / ccf

- Capacity Charge:
 - 1.00 Inch and Less
 - 1.25 Inch
 - 1.50 Inch
 - 2.00 Inch
 - 3.00 Inch and Up

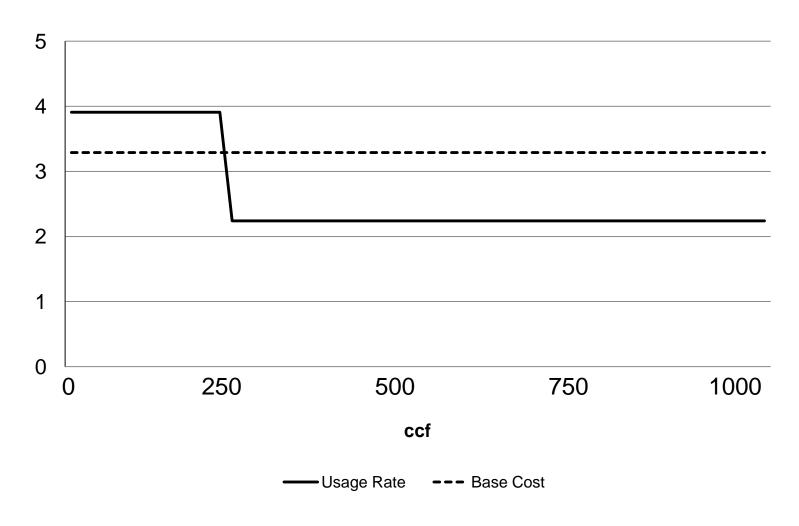
- \$ 11.07/Month
 - 39.72/Month
 - 62.93/Month
 - 128.01/Month
 - 353.14/Month

^{*} Outside Rates are Approximately 50% Greater than the Inside Rates

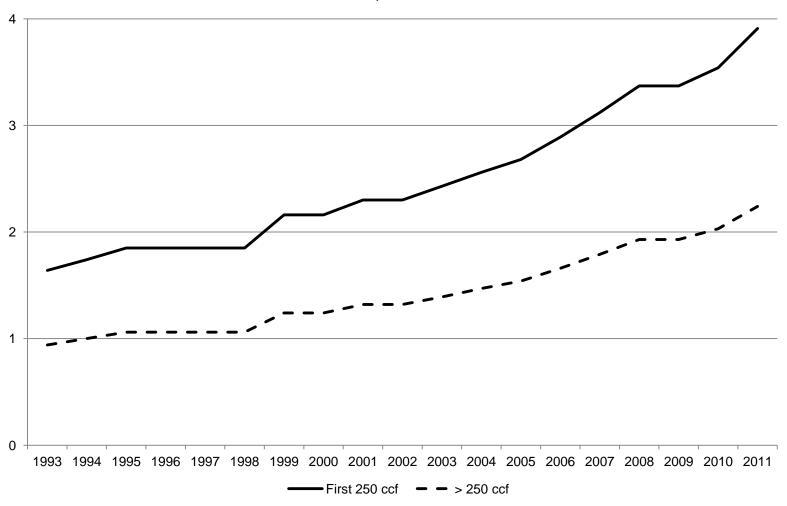
WHOLESALE RATES*

 Rates Applicable to Wholesale Customers (Such as Florida, Liberty Center, Malinta and HCWSD) are equal to the City's Inside Rates plus 25%, per Contracts.

Napoleon Water Rate Study USAGE RATES VS. BASE COST



Napoleon Water Rate Study HISTORICAL USAGE RATES \$/CCF



CONCLUSIONS

- Current Rates are not Reflective of the Cost of Providing Service.
- Tail-Block Rate (\$2.24 per ccf) is Substantially Lower Than the Base Cost (\$3.29 per ccf).

SUGGESTED RATE MODIFICATIONS

- 1. Set the Tail-Block Rate Equal to the Base Cost.
- 2. Add an Initial-Block of 0-10 ccf.
- 3. Add Capacity Charges for Meters Greater than 3 inch.

EXISTING VS. PROPOSED RATES*

				Proposed Rates			
		Existing	_	2012		2013	
Usage Charge: (Per ccf)							
First 1,000 cu ft.	\$	3.91	\$	4.44	\$	4.75	
Next 24,000 cu ft.		3.91		4.28		4.50	
Over 25,000 cu ft.		2.24		2.90		3.30	
Capacity Charge: (Per Month							
1.00 Inch	\$	11.07	\$	11.07	\$	11.07	
1.25 Inch		39.72		39.72		39.72	
1.50 Inch		62.93		62.93		62.93	
2.00 Inch		128.01		128.01		128.01	
3.00 Inch		353.14		353.14		353.14	
4.00 Inch		353.14		500.00		600.00	
6.00 Inch		353.14		800.00		1,000.00	
8.00 Inch		353.14		1,200.00		1,500.00	
10.00 Inch		353.14		1,500.00		2,000.00	

^{*} Reflects inside Rates. Outside Rates are Approximately 50% Greater than the Inside Rates. November 7, 2011 Courtney & Associates 16

TYPICAL WATER BILL COMPARISON EXISTING VS. PROPOSED

Line	e		Proposed Existing 2013		_	Increase (Decrease)		
No	Usage		Rates		Rates	_	Amount	%
	Residential							
1	500 cu ft.	\$	30.62	\$	34.82	\$	4.20	13.72%
2	1,000 cu ft.	\$	50.17	\$	58.57	\$	8.40	16.74%
	Commercial (1.5")							
3	2,500 cu ft.	\$	160.68	\$	177.93	\$	17.25	10.74%
4	5,000 cu ft.	\$	258.43	\$	290.43	\$	32.00	12.38%
5	25,000 cu ft.	\$	1,040.43	\$	1,190.43	\$	150.00	14.42%
	Industrial (2")							
6	25,000 cu ft.	\$	1,105.51	\$	1,255.51	\$	150.00	13.57%
7	50,000 cu ft.	\$	1,665.51	\$	2,080.51	\$	415.00	24.92%
8	100,000 cu ft.	\$	2,785.51	\$	3,730.51	\$	945.00	33.93%
	Wholesale (4")							
9	100,000 cu ft.	\$	3,763.30	\$	5,253.13	\$	1,489.83	39.59%
10	250,000 cu ft.	\$	7,963.30	\$	11,440.63	\$	3,477.33	43.67%
11	500,000 cu ft.	\$	14,963.30	\$	21,753.13	\$	6,789.83	45.38%

SUMMARY

- Revenues at Current Rates are <u>NOT</u> Sufficient to Meet Projected Revenue Requirements.
- Revenues Need to be Increased by Approximately 16% in Order to Meet the Projected Near-Term (2013) Revenue Requirements.
- Residential and Small Commercial/Industrial Customers are Subsidizing the Large Commercial/Industrial and the Wholesale Customers.
- Current Rates are <u>NOT</u> Reflective of the Cost of Providing Service.

RECOMMENDATIONS

- Adopt the Projected Rates, Which Will Result In a 12.5% Overall Increase In Revenues in 2012 and an Additional 7.5% Overall Increase in 2013.
- Following Development of the Financing Plan for the Proposed Water Treatment Plant Improvements, Update the Rate Analysis and Adjust Rates, as Needed.

