

Financial Planning for Small Water Systems

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Environmentalfinance.org

Jeff Hughes – Director Environmental Finance Center The University of North Carolina at Chapel Hill (919) 843-4956 jhughes@sog.unc.edu

Stephen Lapp – Community Advisor Environmental Finance Center The University of North Carolina at Chapel Hill (919) 962-6203 slapp@sog.unc.edu





Housekeeping and Project Introduction

CEU Certificates

If you need a CEU certificate, you will need to confirm the following on the roster today before

you leave:

- Is your name spelled correctly?
- Did you provide an email address UNIQUE TO YOU? A unique email address is required to receive your certificate.
- Did you mark the checkbox that you need a certificate?

Within 30 days of the training, you will receive an email with instructions to print your certificate. Emails from EFCN may be blocked or go to your Junk mail. To avoid this issue, add <u>Smallsystem@syr.edu</u> to your email Contacts or check your Junk mail frequently.

EFCN will apply to the water operator state licensing agency for CEU preapproval when applicable. You may be awarded CEUs by your agency. It is your responsibility to confirm with the agency that training meets relevancy criteria established for your license type as some agencies may not apply CEUs to your license if the training topic is not relevant to your position.

EFCN follows the IACET Standard of CEU calculation.0.1 CEU = 1 Contact Hour or 1 Professional Development Hour

Questions? Please contact Smallsystem@syr.edu



Smart Management for Small Water Systems Program

















The Environmental Finance Center Network (EFCN) is a university-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and improvement.

Small Systems Program Team

- Environmental Finance Center at The University of North Carolina at Chapel Hill
- Southwest Environmental Finance Center at the University of New Mexico
- Syracuse University Environmental Finance Center
- Environmental Finance Center at Wichita State University
- EFC West
- Environmental Finance Center at the University of Maryland
- New England Environmental Finance Center at the University of Southern Maine
- Great Lakes Environmental Infrastructure Center
- Government Finance Officers Association (GFOA)
- National Association of Development Organizations (NADO)





















Areas of Expertise



Asset Management



Rate Setting and Fiscal Planning



Leadership Through Decisionmaking and Communication



Water Loss Reduction



Energy Management Planning



Accessing Infrastructure Financing Programs



Workforce Development



Water Conservation Finance and Management



Collaborating with Other Water Systems



Resiliency Planning



Managing Drought

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Workshop Objectives/Agenda

- 1. Assessing a utilities' financial position and performance and operating environment (key financial indicators). 9-10:45
- 2. Current trends in asset management 11 to 12
- 3. Eat lunch with someone new 12-1:15
- 4. Analyzing and modifying rate structures 1:15 2:30
- 5. Financial planning and funding sources (CIPs, VA WBOP) 245 to 4:00

Path Towards Financial Sustainability

- Get to know your assets and financial condition
- Establish your priorities and goals
- · Identify your "true", "full", or "fuller" costs
- Get to know your customers (usage, characteristics)
- Consider future scenarios and changes
- Establish rates (rate structure and prices)
- Repeat as often as necessary.....

Introductions

- 1. Name, organization, title?
- 2. What was your first car?
- 3. What adjectives would you use to describe your current financial position and performance?
- 4. What indicators or metrics support your assessment?

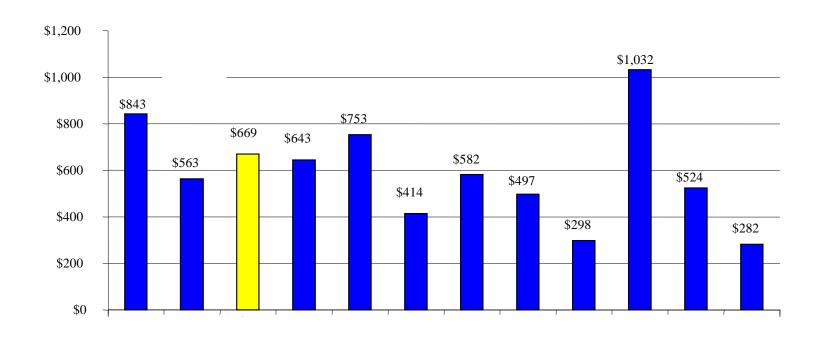
Assessing a Utility's Financial Position and Performance and Operating Environment

- Financial indicators
- Customer base demographics

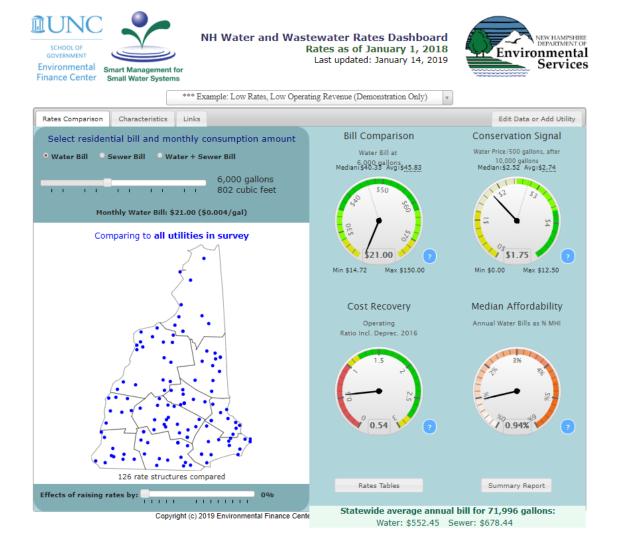
What keeps you up at night?

- Not being able to pay for operations
- Not being able to pay for needed capital investment
- Having rates that your customers can't or won't pay
- Being surprised and not resilient
- If you have revenue problems, how long can you maintain operations
- How much of your utility's expected life has already run out (and how much is left)

Financial Benchmarking: Friend or Foe? What is missing from this analysis?



Don't Race to the Bottom - Look Beyond Rates



Potential Sources of Information

- Financial reports (current and future)
- Actual past budgets/spending
- Asset management plans, capital budgets
- Billing software
- US Census
- Reports with peer data

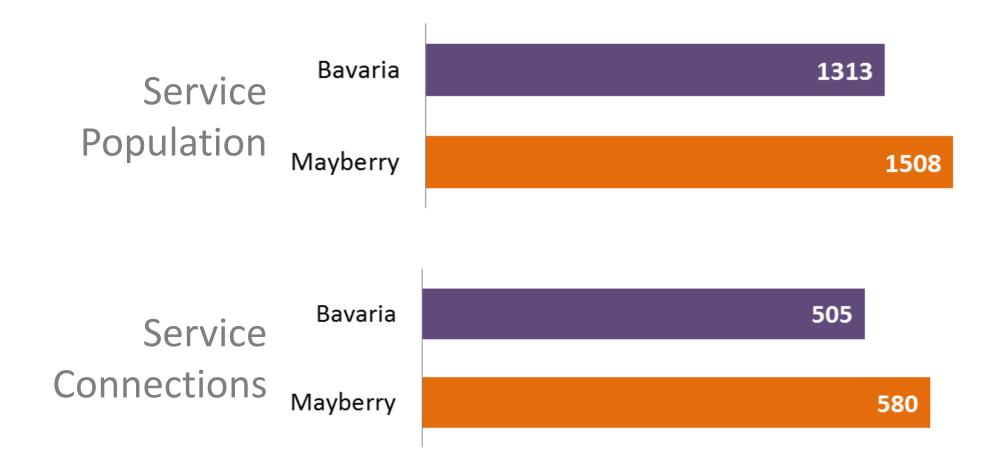
A Tale of Two Systems That Look Similar On Paper...

Bavaria and Mayberry

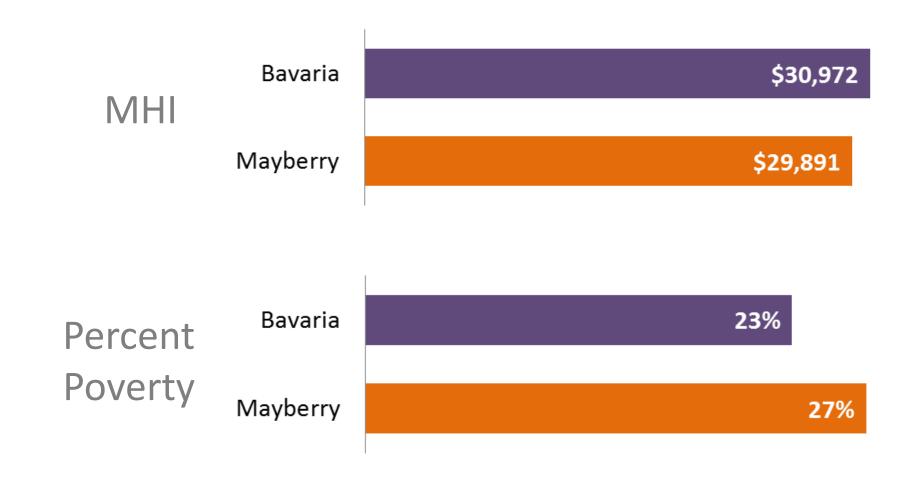
 Two average small town community water systems from the same state

Note: Actual numbers from actual towns

They Serve Similar Populations



They Have Similar Demographics



...Though Vastly Different in Financial Indicators (and In Actual Appearance)



Mayberry



Bavaria

Quick Overview of Financial Statements

STATEMENT OF NET ASSETS PROPRIETARY FUND 209,536 22,982 5,873,799 1,454,079 (2,883,225) — ② 15,695

Statement of Net Position

 The assets and liabilities of the water system on the day the financial statements were prepared

Statement of Revenues, Expenses & Changes in Net Position

 Annual operating and non-operating revenues and expenses for the water system

Also transfers to and from the general fund

Statement of Cash Flows

Money in and money out of the water system

Notes to Financial Statements

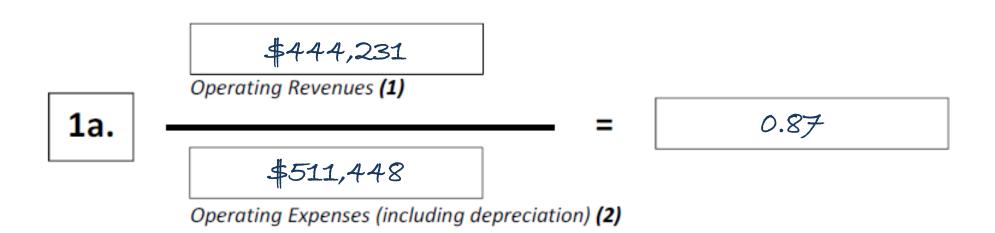
Explanations, where needed, to the financial statements

Operating Ratio

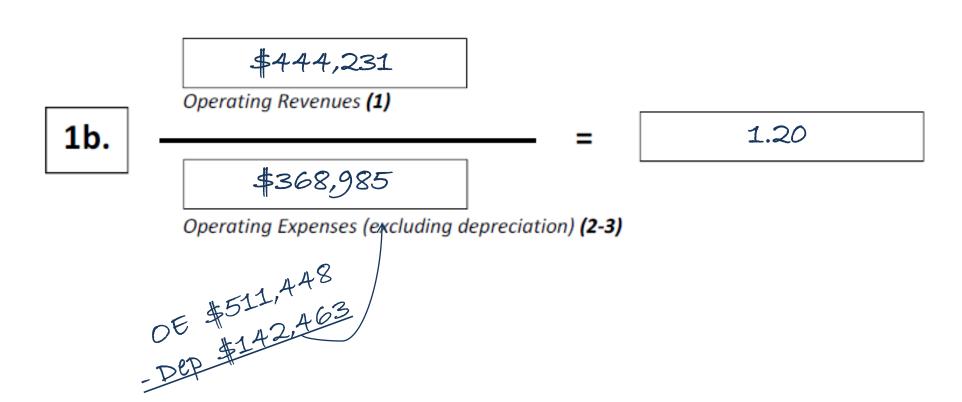
Operating Revenues
Operating Expenses

Please calculate two numbers—
one including depreciation, and one
excluding depreciation

Operating Ratio – Mayberry Including Depreciation



Operating Ratio – Mayberry Excluding Depreciation



Debt Service Coverage Ratio

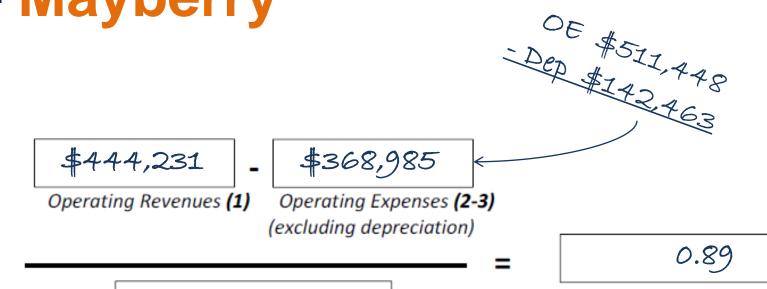
Operating Revenues – Operating Expenditures (excludes depreciation)

Principal + Interest Payments on Long Term Debt

Debt Service Coverage Ratio

Mayberry

P\$49,655 +1\$35,128



\$84,783

Principal & Interest on Long-Term Debt (4)

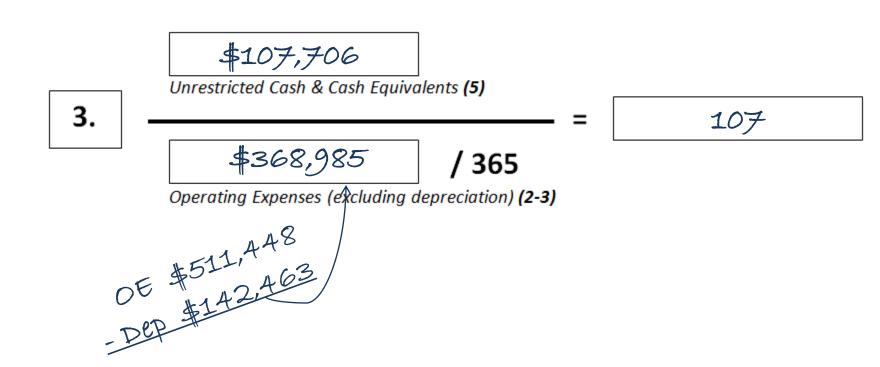
2.

Days of Cash on Hand

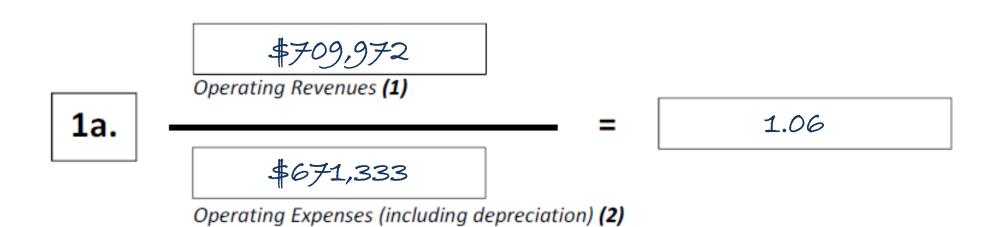
Unrestricted cash and cash equivalents

(Operating Expenses – Depreciation) / 365

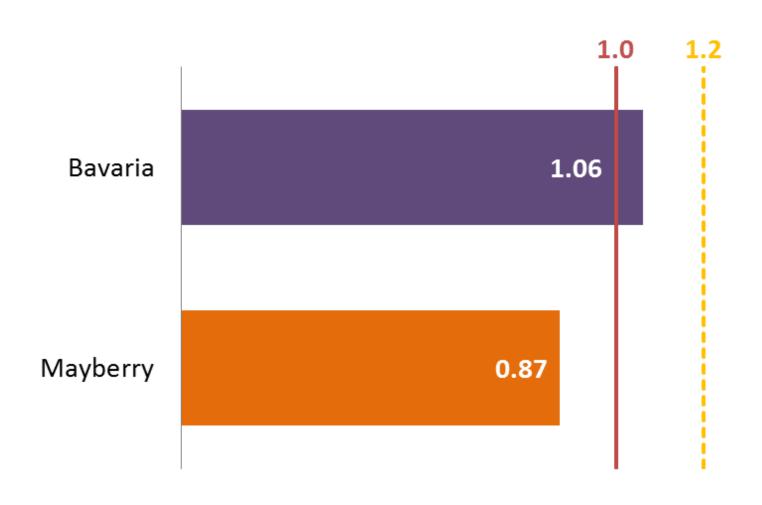
Days of Cash on Hand – Mayberry



Operating Ratio – Bavaria Including Depreciation



Operating Ratio Including Depreciation



Operating Ratio – Bavaria Excluding Depreciation

\$709,972
Operating Revenues (1)
= 1.55

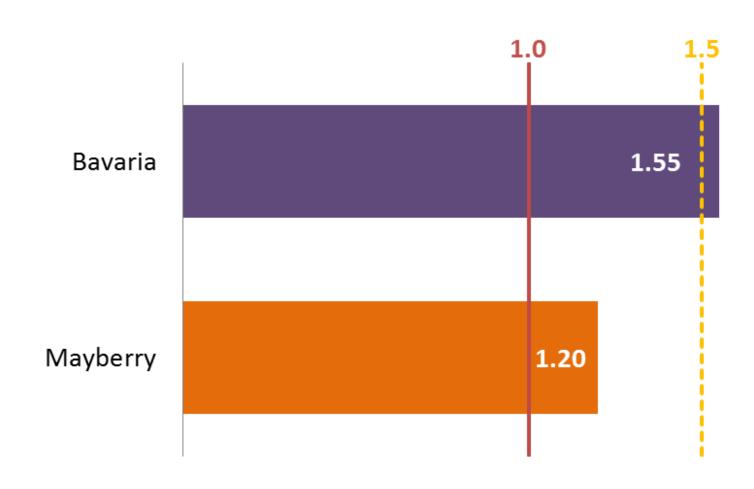
Operating Expenses (excluding depreciation) (2-3)

\$459,082

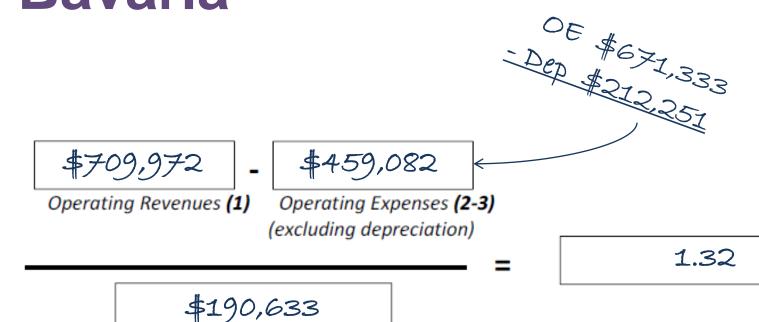
OE \$671,333 - DEP \$212,251

1b.

Operating Ratio Excluding Depreciation



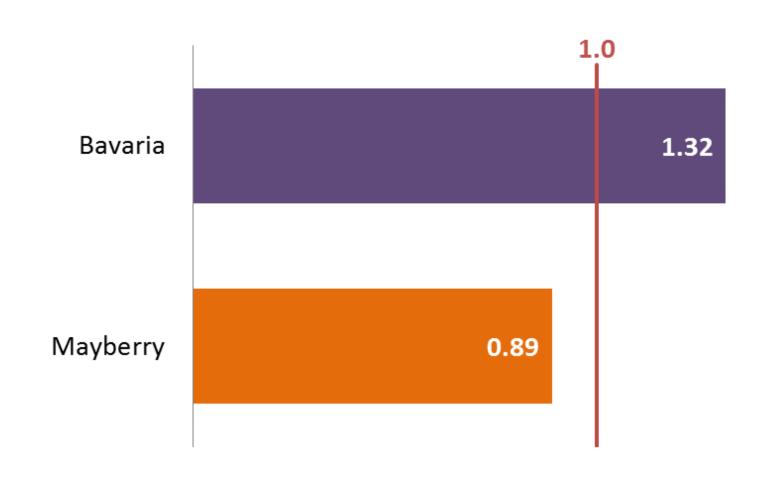
Debt Service Coverage Ratio – Bavaria



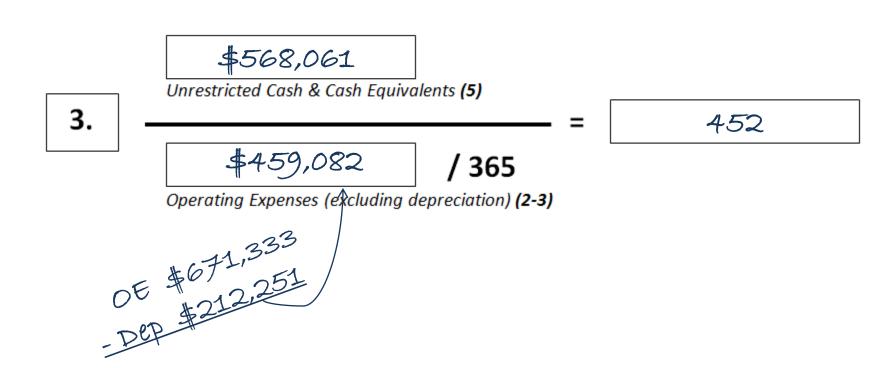
2.

Principal & Interest on Long-Term Debt (4)

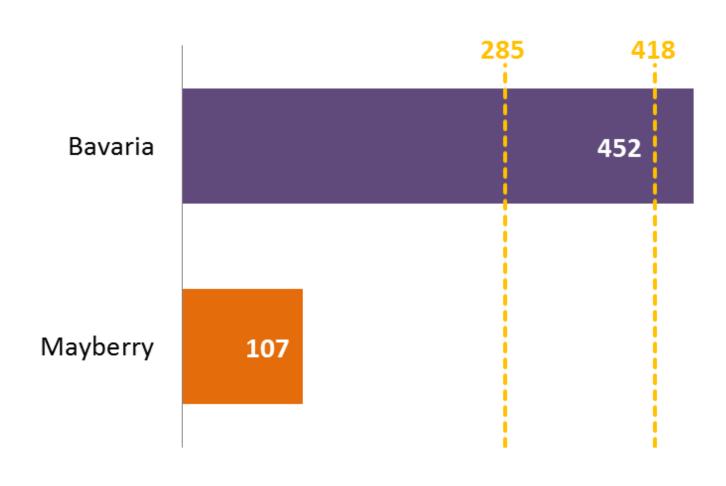
Debt Service Coverage Ratio



Days of Cash on Hand – **Bavaria**



Days of Cash on Hand



One More to Mention: Asset Depreciation*

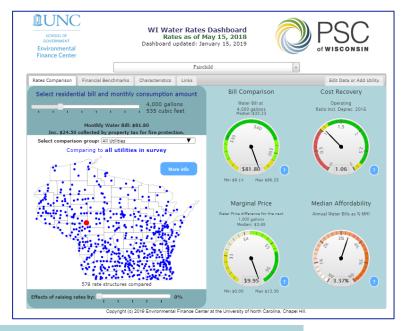
= Accumulated Depreciation Gross Plant and Equipment

Benchmark? Don't get close to 1.0

*Caveat – This indicator is only as good as your depreciation schedule and even then historic pricing is likely to distort the results.

Assessing your customer's financial health

- Poverty rates
- Income distribution
- Unemployment
- Senior citizens on fixed income



	Fairchild village	Median for all utilities in survey
Number of Systems	1	578
Est. Number of Connections	217	652
Est. Service Population	564	1,496
Operating Revenue	\$129,102	\$356,652
Operating Expense	\$121,625	\$293,361
Current Assests	\$2,738	\$497,049
Average Household Size	2.26	2.37
Median Household Income	\$29,097	\$48,534
Poverty Rate	21.65%	11.66%

Why Care About This?

• Funders and ratings agencies care about this

 As you think about the future needs of your system, you have to know where you are starting from

Whiteboard Video: Financial Benchmarking

http://www.waterrf.org/Pages/Projects.aspx?PID=4366



WBOP and Other Assessment Tools

 Have you heard of the Waterworks Business Operation Plan (WBOP)?

Are you using the WBOP or other planning tools?

 What aspects do you find most helpful about the tools you use?

Waterworks Business Operations Plan

- Virginia Department of Health Office of Drinking Water assess a system's...
 - Technical Capacity physical assets, as well as knowledge and skills to operate the system
 - Managerial Capacity planning and organizational expertise
 - Financial Capacity the ability to generate enough revenue, leverage funding, and manage funds to meet operational, maintenance, and expansion costs



WATERWORKS BUSINESS OPERATIONS PLAN

Please download one of the following files depending on your waterworks type:

Community Business Operations Plan.zip	Serving residential populations
NTNC Business Operations Plan.zip	Serving the same non-residential population
NTNC EZ Plan.zip	Serving Pre-school/Daycare Facilities
TNC Form (Word Document)	Serving differing non-residential populations

Documents Downloaded

Community Excel Workbook (Excel)

Community Form (Word)

Planning tools

• Community Instructions Appendices A-E (PDF)

Community Staff Review Guide (Word)

Informative

WBOP – Community Form

- Part 1 Waterworks Information
- Part 2 Staffing
- Part 3 Management, Operations & Procedures
- Part 4 Planning
- Part 5 Financial Information
- Part 6 Sustainability Improvements
- Part 7 Worksheets and Supporting Documents
- Part 8 Statements for Owner Signature

WBOP – Excel Spreadsheet

- Data needed to populate the spreadsheet:
 - Financial reports
 - Up-to-date budget
 - Rate sheet
 - Capital improvement plan, if you have one
 - Census data

WBOP – Excel Spreadsheet

Worksheet 1 – Six-Year Technical, Managerial & Financial Commitment Summary

- Inventories revenues, expenses, CIP, and reserves
- Financial evaluation with analyses

						_	
Line	FISCAL YEAR ENDING	2018	2019	2020	2021	2022	2023
FINANCIA	L EVALUATION						
23	TOTAL REVENUE REQ.(Add 9+13+19B+20B+21B+22B)	\$ 1,286,751.00	\$ 2,982,799.00	\$ 1,254,535.00	\$ 1,290,247.00	\$ 1,343,909.00	\$ 1,343,909.00
24	NET INCOME-BUDGET SURPLUS / DEFICIT (Line 4-23)	\$ 63,049.00	\$ (1,690,289.00)	\$ 76,951.00	\$ (59,976.00)	\$ (61,386.00)	\$ (61,386.00)
				·	·		
ANALYSE	s						
27	Revenues ≥ expenses	Sustainable	Not Sustainable	Sustainable	Not Sustainable	Not Sustainable	Not Sustainable
28	Operating Cash Reserve ≥ Minimum Balance	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable
29	Emergency Reserve ≥ Minimum Balance	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable
30	Debt Service Coverage Ratio	1.41	0.11	1.55	0.56	0.56	0.56
31	Debt Service Coverage Ratio > 1.15XDebt Service	Sustainable	Not Sustainable	Sustainable	Not Sustainable	Not Sustainable	Not Sustainable
32	Household Affordability Ratio (from Revenue Projection Wksht)	0.93%	0.93%	0.93%	0.93%	0.93%	0.93%

Explanation of Analyses

<u>Line 27: Revenues > Expenditures:</u> A "Not Sustainable" result on this analysis could mean the waterworks does not have adequate financial capacity. The waterworks should review the submittal for errors and/or consider the following:

- 1. Identify any expenses that can be eliminated or reduced
- Review the revenues to determine if the rate structure can be modified to increase revenues, increase water rates, evaluate assessment of "special charges" when applicable, etc.
- 3. Consider whether or not consolidation or transfer of the waterworks is a better option.

If after reviewing the data this remains "Not Sustainable," document Sustainability Improvements which the waterworks will take in order to address the shortfall.

WBOP – Excel Spreadsheet Supplemental Worksheet – Budget Documentation

 Provides a template to breakdown budget or import numbers from an existing budget

1	REVENUES	
2	Water Sales	\$ 315,000.00
3	Fees and Service	\$ 7,000.00
4	Other Revenue	\$ 10,000.00
5	TOTAL REVENUES (Add 2-4)	\$ 332,000.00
6	EXPENSES	
7	Operation & Maintenance Expenses	
8	Salaries & Other Benefits (Operator)	
9	Power & Other Utilities	\$ 16,850.00
10	Chemical & Treatment	
11	Monitoring	
12	Materials, Supplies and Parts	
13	Transportation Expenses	\$ -
14	Miscellaneous Expenses	\$ 27,100.00
15	Total Operation & Maintenance Expenses(Add 8-14)	\$ 43,950.00
16	General and Administrative Expenses	
17	Salaries & Benefits	\$ 305,681.00
18	Office Supplies & Postage	\$ 25,725.00
19	Insurance-Vehicle, Liability, and Workers Comp.	\$ -
20	Legal & Accounting	\$ 2,000.00
21	Engineering & Professional Services	\$ 6,000.00
22	Fees - and Taxes (VDH Waterworks, etc)	\$ -
23	Miscellaneous Expenses	\$ 700.00
24	Total General Administrative Expenses (Add I7-23)	\$ 340,106.00
25	Depreciation Expense (See Instructions)	\$ -
26	TOTAL O, M & ADMIN EXPENSES (Add 15+24)	\$ 384,056.00



TOTAL REVENUE REQ.(Add 26+28+40+44+48+52+ 56)	\$ 384,056.00
BUDGET SURPLUS (DEFICIT) (Subtract 5-58)	\$ (52,056.00)

WBOP – Excel Spreadsheet

Supplemental Worksheet – Revenue Projection

- Input:
 - Connections
 - Minimum charges
 - Commodity/volumetric rate
 - Minimum use
 - Breakdown of residential and commercial customers
 - Total gallons produced
 - Total gallons sold for residential and commercial

WBOP – Excel Spreadsheet Supplemental Worksheet – Revenue Projection

• Output:

	CALCULAT	ED	RESULTS P	AG	E			
FOR PROJECTED FISCAL YEAR	2018		2019		2020	2021	2022	2023
SECTION IV - WATER USE EVALUATION								
18. Gallons of Water Produced	3,500,000		3,552,500		3,605,788	3,659,874	3,714,772	3,770,494
19. Gallons associated with Res min use bills	0		0		0	0	0	C
20. Gallons associated with Non-Res min use bills	0		0		0	0	0	C
21. Residential Customers with > min use bill	585		590		598	606	612	620
22. Gallons Associated with minimum use portion of all								
non-minimum use Residential Customers	0		0		0	0	0	(
23. Non-Residential Customers with > minimum bill	0		0		0	0	0	(
24. Gallons Associated with minimum use portion of all								
non-minimum non-residential customers	0		0		0	0	0	(
25. Gallons applied to Residential commodity charge	2,991,695		3,036,570		3,082,119	3,128,351	3,175,276	3,222,905
26. Gallons Applied to the Non-Residential commodity	0		0		0	0	0	(
SECTION V - REVENUE SUMMARY								
27. Annual Revenue from Res Min Bills	\$ 8,820.00	\$	10,495.80	\$	11,668.86	\$ 12,592.64	\$ 18,942.00	\$ 21,801.00
28. Annual Revenues from Non-Res Min Bills	\$ -	\$	-	\$	-	\$ -	\$ -	\$ -
29. Revenues From Res Non-min customers	\$ 189,940.17	\$	208,316.96	\$	220,205.53	\$ 233,182.30	\$ 309,930.60	\$ 341,818.52
30. Revenues from Non-Res Non Min customers	\$ -	\$	-	\$	-	\$ -	\$ -	\$ -
31. Revenues from Sale of Water	\$ 198,760.17	\$	218,812.76	\$	231,874.39	\$ 245,774.94	\$ 328,872.60	\$ 363,619.52
32. Total Annual Projected Revenues For the PWS	\$ 215,260.17	\$	235,312.76	\$	248,374.39	\$ 262,274.94	\$ 345,372.60	\$ 380,119.52
SECTION VII - AFFORDABILITY EVALUATION								
33. Annual Average User Charge, AUC (Bill Per Residence)	\$ 344.40	\$	361.62	\$	379.70	\$ 398.69	\$ 418.62	\$ 439.55
34. Monthly Average User Charge (Bill Per Residence)	\$ 28.70	\$	30.14	\$	31.64	\$ 33.22	\$ 34.89	\$ 36.63
35. Median Household Income, MHI (From US Census)	\$ 36,836.00	\$	36,836.00	\$	36,836.00	\$ 36,836.00	\$ 36,836.00	\$ 36,836.00
36. Household Affordability Ratio (AUC/MHI)	0.93%		0.98%		1.03%	1.08%	1.14%	1.19%
37 Is the actual HAR <=2%?	YES		YES		YES	YES	YES	YES

WBOP – Excel Spreadsheet

Supplemental Worksheet – Household Affordability

COMMUNITY Waterworks												
Supplemental Worksheet: Household Affordability												
Calculated cells are highlighte	Calculated cells are highlighted in Green ~ All financial figures automatically rounded to the nearest whole number ~											
OWNER:			PW	SID NUMBER/	S:							
FIGURE WEAR ENDING		2040	_	2040		2020		2024		2022		2022
FISCAL YEAR ENDING		2018	<u> </u>	2019		2020		2021		2022		2023
HOUSEHOLD AFFORDABILITY RATIO												
Annual Average User Charge, AUC (Bill Per Residence)	\$	279.00	\$	306.00	\$	318.00	\$	339.00	\$	357.00	\$	372.00
Monthly Average User Charge (Bill Per Residence)	\$	23.25	\$	25.50	\$	26.50	\$	28.25	\$	29.75	\$	31.00
Median Household Income, MHI (From US Census)	\$	41,163.00	\$	41,163.00	\$	41,163.00	\$	41,163.00	\$	41,163.00	\$	41,163.00
4. Household Affordability Ratio (AUC/MHI)		0.68%		0.74%		0.77%		0.82%		0.87%		0.90%
AFFORDABILTY INDICATOR												
5. Is the actual HAR <=2%?		YES		YES		YES		YES		YES		YES

WBOP – Excel Spreadsheet

Supplemental Worksheet – Debt & Bond Reserve

			ITY Waterwork sheet: Debt & Bond			
Calculated cells an			ial figures automatically		earest whole number	~
WNER:		PWSID NUME				
CURRENT COMPLETED PROJECTS - DEBTS - BONDS	TOTAL	COST	ANNUAL PAYMENT	FINAL PAYMENT YEAR	RESERVE TO BE OBLIGATED PER DEBT	RESERVE YEARLY INSTALLMENT
			\$ -			
			\$ -			
			\$ -			
			\$ -			
			\$ -			
			\$ - \$ -			
			\$ - \$ -			
			\$ -			
TOTALS	\$	-	\$ -		\$ -	\$
CURRENT YEAR MINIMUM BALANCE REQUIRED					\$ -	
FUTURE DEBT PAYN	IENT AND RESERV	/E REQUIREM	ENTS FOR PROJECTS	S UNDER CONS	TRUCTION OR PLA	NNED
PROJECTS - DEBTS - BONDS	TOTAL COST	PAYMENT BEGINS	ANNUAL PAYMENT	FINAL PAYMENT YEAR	RESERVE TO BE OBLIGATED PER YEAR PER DEBT	RESERVE YEARLY INSTALLMENT

Affordability Assessment Tool

What do you need?

1) Utility Information

Name of the utility:

Select the state, District of Columbia, or Puerto Rico from the dropdown menu:

Assess affordability of water, wastewater or combined water & wastewater rates?

2) Monthly Charges at [Near] the Average Residential Water Use

What is the approximate average residential monthly consumption?

Example Town North Carolina Water

4,000 gallons/month or

cubic feet/month

In this analysis, assess the rates charged at the rounded consumption of 4000 gallons/month (530 cubic feet/month)

Enter in the current monthly water residential charge at 4000 gallons/month:

Water

\$28.70

If you wish to assess affordability under different rates, enter alternative monthly water residential charge at 4000 gallons/month, otherwise copy the current rates from above:

Water

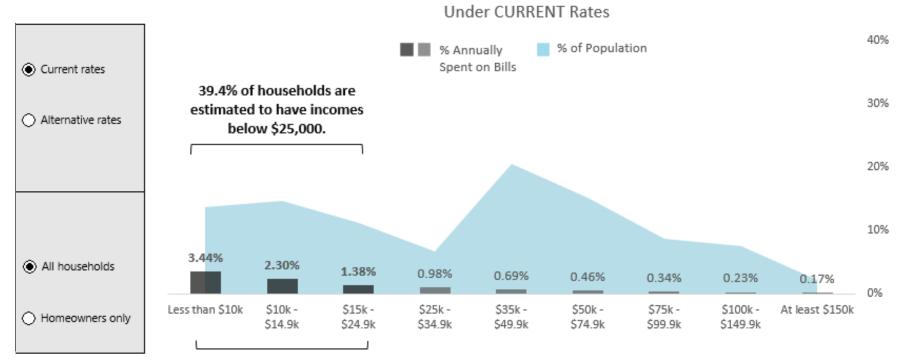
\$28.70

US Census Data

		Margin of		Percent
	Estimate	Error	Percent	Margin of Error
EMPLOYMENT STATUS				
In labor force	not needed	not needed	not needed	not needed
Unemployed	not needed	not needed	3.8%	not needed
Not in labor force	not needed	not needed	43.4%	not needed
2017 INFLATION-ADJUSTED DOLLARS)				
Less than \$10,000	not needed	not needed	13.6%	not needed
\$10,000 to \$14,999	not needed	not needed	14.6%	not needed
\$15,000 to \$24,999	not needed	not needed	11.2%	not needed
\$25,000 to \$34,999	not needed	not needed	6.7%	not needed
\$35,000 to \$49,999	not needed	not needed	20.5%	not needed
\$50,000 to \$74,999	not needed	not needed	15.1%	not needed
\$75,000 to \$99,999	not needed	not needed	8.6%	not needed
\$100,000 to \$149,999	not needed	not needed	7.5%	not neede
\$150,000 to \$199,999	not needed	not needed	1.7%	not needed
\$200,000 or more	not needed	not needed	0.5%	not neede
riedian nousenoidincome (dollars)	\$36,836	not needed	not needed	not neede
With Social Security	not needed	not needed	35.1%	not needed
With Supplemental Security Income	not needed	not needed	11.5%	not needed
With cash public assistance income	not needed	not needed	3.0%	not needed
With Food Stamp/SNAP benefits in the past 12 months	not needed	not needed	31.4%	not needed
PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL				
All people	not needed	not needed	29.6%	not needed

	Estimate	Margin of Error
Total:		
Owner occupied:	not needed	not needed
'		not needed
Less than \$5,000	3	not needed
\$5,000 to \$9,999	27	not needed
\$10,000 to \$14,999	59	not needed
\$15,000 to \$19,999	26	not needed
\$20,000 to \$24,999	2	not needed
\$25,000 to \$34,999	22	not needed
\$35,000 to \$49,999	111	not needed
\$50,000 to \$74,999	58	not needed
\$75,000 to \$99,999	68	not needed
\$100,000 to \$149,999	68	not needed
\$150,000 or more	21	not needed
Renter occupied:	not needed	not needed
Less than \$5,000	not needed	not needed
\$5,000 to \$9,999	not needed	not needed
\$10,000 to \$14,999	not needed	not needed
\$15,000 to \$19,999	not needed	not needed
\$20,000 to \$24,999	not needed	not needed
\$25,000 to \$34,999	not needed	not needed
\$35,000 to \$49,999	not needed	not needed
\$50,000 to \$74,999	not needed	not needed
\$75,000 to \$99,999	not needed	not needed
\$100,000 to \$149,999	not needed	not needed
\$150,000 or more	not needed	not needed

Affordability of Water Rates Assessed at 4000 Gallons/Month and the 2017 Income Levels



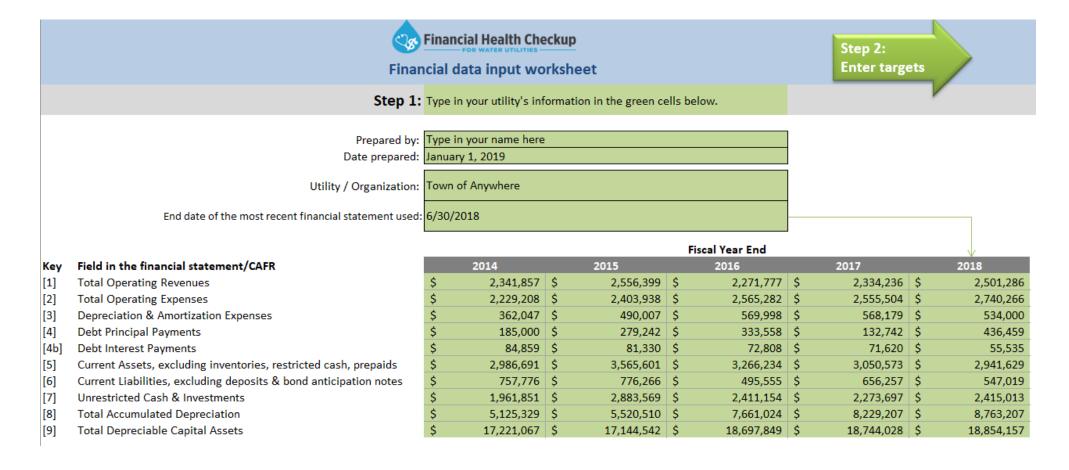
39.4% of residential customers are estimated to have had less than \$25,000 in annual income. These households will have spent more than 1.38% of their income under the current rates for water bills at 4000 gallons/month. 13.6% of households will have spent more than 3.44% of their income. However, a substantial number of low-income households may be living in rental homes and apartments and do not pay water bills, which may be included in their rent.

Key Socioeconomic Indicators

	Selected Census			
	geography	North Carolina in 2017	United States in 2017	Key:
Median Household Income	\$36,836	\$50,320	\$57,652	If any value for the selected
% Unemployment	3.8%	4.4%	4.1%	Census geography is shown in red,
% Not in the labor force	43.4%	37.4%	36.6%	its value is 'more stressed' than the
% of all people with income below poverty	29.6%	16.1%	14.6%	state and national averages.
% with Social Security income	35.1%	31.7%	30.6%	
% with Supplemental Security income	11.5%	5.0%	5.4%	
% with cash public assistance income	3.0%	1.8%	2.6%	
% with Food Stamp/SNAP benefits	31.4%	13.7%	12.6%	

Financial Health Checkup Tool

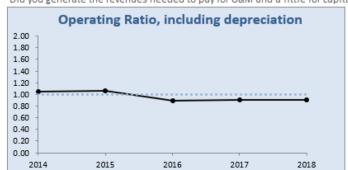
What do you need?



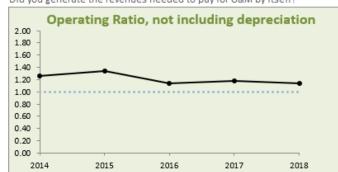


Assessment for Town of Anywhere

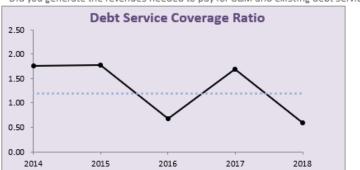
Did you generate the revenues needed to pay for O&M and a little for capital?







Did you generate the revenues needed to pay for O&M and existing debt service?



Did you have enough liquidity to pay your current liabilities at the end of the year? How many days could you continue to operate the utility with the cash levels availa How much have your utility's assets depreciated (nearing the end of their lives)?



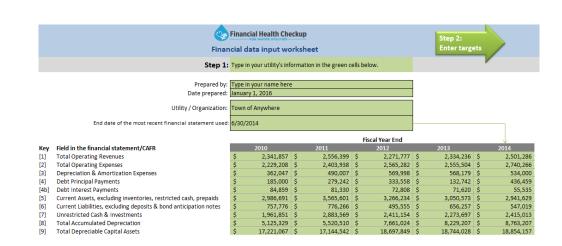




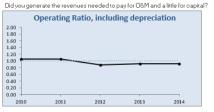
More Resources

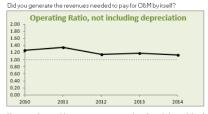


	ACTUAL PREVIOUS PROJECTED for Fiscal Year Ending June 30,											
	Line	FISCAL YEAR ENDING	2018	2019	2020	2021	2022	2023				
F	NANCIAL	_ EVALUATION										
	23	TOTAL REVENUE REQ.(Add 9+13+19B+20B+21B+22B)	\$ 2,499,067.00	\$ 2,764,510.00	\$ 662,648.00	\$ 2,759,866.00	\$ 3,232,260.00	\$ -				
	24	NET INCOME-BUDGET SURPLUS / DEFICIT (Line 4-23)	\$ (157,210.00)	\$ (208,111.00)	\$ 1,609,129.00	\$ (425,630.00)	\$ (730,974.00)	\$ -				
Α	VALYSES	S										
	27	Revenues≥expenses	Not Sustainable	Not Sustainable	Sustainable	Not Sustainable	Not Sustainable	Sustainable				
	28	Operating Cash Reserve ≥ Minimum Balance	Not Sustainable	Sustainable								
	29	Emergency Reserve ≥ Minimum Balance	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable	Sustainable				
	30	Debt Service Coverage Ratio	0.42	0.42	4.96	(1.08)	(0.49)	#DIV/0!				
	31	Debt Service Coverage Ratio > 1.15XDebt Service	Not Sustainable	Not Sustainable	Sustainable	Not Sustainable	Not Sustainable	#DIV/0!				
		Household Affordability Ratio (from Revenue Projection Wksht)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!				



Assessment for Town of Anywhere

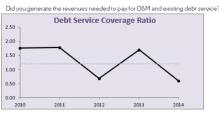




300

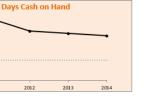
200

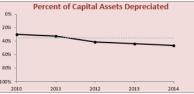
100



Did you have enough liquidity to pay your current liabilities at the end of the year?

Quick Ratio 6.00 5.00 4.00 3.00 2.00 1.00 2013 How many days could you continue to operate the utility with the cash levels availabl How much have your utility's assets depreciated (nearing the end of their lives)?





Small Group Assessment Time

- Calculate or find your metrics?
- Discuss what you think are current metrics that are used – what would you like to add?
- What are hidden problems or challenges you would like to shine light on?