BEFORE THE

PUBLIC UTILITIES COMMISSION OF RHODE ISLAND

PAWTUCKET WATER) DOCKET NO. 3	
SUPPLY BOARD)	

DIRECT TESTIMONY

OF

THOMAS S. CATLIN

ON BEHALF OF THE DIVISION OF PUBLIC UTILITIES AND CARRIERS

JULY 2005

EXETER

ASSOCIATES, INC. 5565 Sterrett Place Suite 310 Columbia, Maryland 21044

BEFORE THE

PUBLIC UTILITIES COMMISSION

OF RHODE ISLAND

PAWTUCKET WATER)	DOCKET NO. 3674
SUPPLY BOARD)	

Direct Testimony of Thomas S. Catlin

1		<u>Introduction</u>
2	Q.	WOULD YOU PLEASE STATE YOUR NAME AND BUSINESS ADDRESS?
3	A.	My name is Thomas S. Catlin. I am a principal with Exeter Associates, Inc. Our offices
4		are located at 5565 Sterrett Place, Suite 310, Columbia, Maryland 21044. Exeter is a
5		firm of consulting economists specializing in issues pertaining to public utilities.
6	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.
7	A.	I hold a Master of Science Degree in Water Resources Engineering and Management
8		from Arizona State University (1976). Major areas of study for this degree included
9		pricing policy, economics, and management. I received my Bachelor of Science Degree
10		in Physics and Math from the State University of New York at Stony Brook in 1974. I
11		have also completed graduate courses in financial and management accounting.
12	Q.	WOULD YOU PLEASE DESCRIBE YOUR PROFESSIONAL
13		EXPERIENCE?
14	A.	From August 1976 until June 1977, I was employed by Arthur Beard Engineers in
15		Phoenix, Arizona, where, among other responsibilities, I conducted economic feasibility,
16		financial and implementation analyses in conjunction with utility construction projects. I
17		also served as project engineer for two utility valuation studies.
18		From June 1977 until September 1981, I was employed by Camp Dresser &
19		McKee, Inc. (CDM). Prior to transferring to the Management Consulting Division of

CDM in April 1978, I was involved in both project administration and design. My
project administration responsibilities included budget preparation as well as labor and
cost monitoring and forecasting. As a member of CDM's Management Consulting
Division, I performed cost of service, rate, and financial studies involving approximately
15 municipal and private water, wastewater and storm drainage utilities. These projects
included: determining total costs of service; developing capital asset and depreciation
bases; preparing cost allocation studies; evaluating alternative rate structures and
designing rates; preparing bill analyses; developing cost and revenue projections; and
preparing rate filings and expert testimony.

In September 1981, I accepted a position as a utility rates analyst with Exeter Associates, Inc. I became a principal and vice-president of the firm in 1984. Since joining Exeter, I have continued to be involved in the analysis of the operations of public utilities, with particular emphasis on utility rate regulation. I have been extensively involved in the review and analysis of utility rate fillings, as well as other types of proceedings before state and federal regulatory authorities. My work in utility rate fillings has focused on revenue requirements issues, but has also addressed service cost and rate design matters. I have also been involved in analyzing affiliate relations, alternative regulatory mechanisms, and regulatory restructuring issues. This experience has involved electric, natural gas transmission and distribution, and telephone utilities, as well as water and wastewater companies.

Q. HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY PROCEEDINGS ON UTILITY RATES?

A. Yes. I have previously presented testimony on more than 200 occasions before the Federal Energy Regulatory Commission and the public utility commissions of Arizona, California, Colorado, Delaware, the District of Columbia, Florida,

1		Idaho, Illinois, Indiana, Kentucky, Louisiana, Maine, Maryland, Montana,
2		Nevada, New Jersey, Ohio, Oklahoma, Pennsylvania, Utah, Virginia and West
3		Virginia, as well as before this Commission. I have also filed rate case evidence
4		by affidavit with the Connecticut Department of Public Utility Control.
5	Q.	HAVE YOU PREVIOUSLY TESTIFIED ON WATER UTILITY ISSUES
6		BEFORE THIS COMMISSION?
7	A.	Yes, I have been asked by the Division to address water utility issues on numerous
8		occasions. I testified on revenue requirement, cost of service and/or rate design issues in
9		Newport Water Division, Docket No. 2029, 2985, 3457 and 3578; Providence Water
10		Supply Board, Docket Nos. 2022, 2048, 2304, and 2961, 3163; and 3446; Kent County
11		Water Authority, Docket No. 2098; Woonsocket Water Department, Docket Nos. 2099
12		and 2904; and United Water Rhode Island, Inc., (formerly Wakefield Water Company),
13		in Docket Nos. 2006 and 2873. In addition, I testified on cost allocation and rate design
14		issues in the Pawtucket Water Supply Board's proceedings in Docket Nos. 3193, 3378
15		and 3497.
16	Q.	ARE YOU A MEMBER OF ANY PROFESSIONAL SOCIETIES?
17	A.	Yes. I am a member of the American Water Works Association (AWWA) and the
18		Chesapeake Section of the AWWA. I serve on the AWWA=s Rates and Charges
19		Committee and on the AWWA Water Utility Council=s Technical Advisory Group on
20		Economics.
21	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
22	A.	Exeter Associates was retained by the Division to assist it in the evaluation of the class
23		cost of service study and rate design proposals incorporated in the filing of the Pawtucket
24		Water Supply Board (PWSB). This testimony presents my findings and
25		recommendations with regard to cost allocation and the design of rates.

1	Q.	HAVE YOU PREPARED AN EXHIBIT TO ACCOMPANY YOUR
2		TESTIMONY?
3	A.	Yes. I have prepared Exhibit TSC-1. This exhibit presents the cost of service study
4		which I have prepared on behalf of the Division. I would note that this study is based on
5		PWSB's filed revenue requirement. At the surrebuttal stage of the case, I will provide a
6		study based on the Division's recommended overall revenue requirement.
7		
8		Summary of Findings and Recommendations
9	Q.	HAVE YOU REVIEWED THE COST OF SERVICE STUDY SUBMITTED BY
10		PWSB IN THIS PROCEEDING?
11	A.	Yes. I have reviewed the cost of service study which was presented by Mr. Christopher
12		Woodcock in his testimony on behalf of PWSB. In addition, I have also reviewed the
13		responses to the discovery request submitted by the Division and the Commission PWSB.
14	Q.	PLEASE SUMMARIZE YOUR FINDINGS WITH REGARD TO THE COST
15		ALLOCATION STUDY SUBMITTED BY PWSB.
16	A.	Cost allocation issues were addressed in detail in Docket Nos. 3193 and 3378 and the
17		cost study presented by Mr. Woodcock is generally consistent with the cost study
18		findings in those dockets. In my review of the study presented here, I have identified
19		several modifications which I believe should be made to that study. These include:
20		
21		Adjusting the level of unaccounted-for water to be more consistent with actual
22		experience and to recognize that not all unaccounted-for water is the
23		responsibility of retail customers.
24		

1		 Adjusting the plant allocator utilized to allocate engineering and debt
2		service related costs to include certain plant additions which were
3		inadvertently excluded.
4		• Revising the determination of private fire service costs to include service
5		line capital costs as well as service line maintenance costs.
6		Separately identifying all and allocating certain elements of miscellaneous
7		revenue.
8	Q.	PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS
9		WITH REGARD TO RATE DESIGN.
10	A.	PWSB's rate design proposals are also presented by Mr. Woodcock. Mr. Woodcock has
11		generally proposed to adjust existing rates to reflect costs. I agree with the overall
12		approach followed by Mr. Woodcock, subject to adjusting PWSB's proposed rates to
13		reflect the cost study changes which I have recommended and the changes to PWSB's
14		approved revenue requirements.
15		As part of the rate design proposal, PWSB is seeking to implement a surcharge
16		applicable to customers in the City of Cumberland. The purpose of this surcharge is to
17		recover the tax assessed on tangible property in the City of Cumberland which is not
18		assessed by any other taxing jurisdiction within PWSB's service territory. For the
19		reasons discussed subsequently, I agree with this proposal.
20	Q.	HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?
21	A.	The remainder of my testimony is organized into sections corresponding to the issue or
22		topic being addressed. These sections are set forth in the table of contents for this
23		testimony.

24

1		Unaccounted for Water
2	Q.	HOW WAS UNACCOUNTED FOR WATER BEEN TREATED IN PWSB'S
3		CLASS COST OF SERVICE STUDY?
4	A.	To allocate costs between wholesale and retail water service, Mr. Woodcock has added
5		unaccounted-for water to base water use to obtain total production. The percentage of
6		base costs allocable to wholesale service, wholesale base water use has been divided by
7		total production (base water use plus unaccounted for water). As a result, all costs
8		associated with unaccounted-for water have been assigned to retail service.
9	Q.	WHAT CONCERNS DO YOU HAVE WITH THIS APPROACH?
10	A.	I have two concerns. First, unaccounted-for water has been estimated to be equal to 15
11		percent of base water use. This percentage is in excess of PWSB's experienced level of
12		unaccounted-for water. Second, while the majority to unaccounted-for water is
13		attributable to distribution losses and metering error, some portion of unaccounted-for
14		water is attributable to transmission losses and uses by the utility. Accordingly not all
15		unaccounted-for water should be treated as attributable to retail customers.
16	Q.	WHAT MODIFICATION ARE YOU MAKING TO THE TREATMENT OF
17		UNACCOUNTED-FOR WATER IN THE COST OF SERVICE STUDY.
18	A.	Over the four years from fiscal year (FY) 2001 through FY 2004, total unaccounted-for
19		water plus utility use on PWSB's system has averaged approximately 10 percent per year
20		Hence, I am proposing to adjust the overall level of unaccounted for from 15 percent to
21		ten percent. I have further adjusted the level of unaccounted-for water which is added to
22		base water use to determine total production for allocation purposes to seven percent.
23		This has the effect of treating 70 percent of total unaccounted-for plus utility use as
24		allocable solely to retail customers for distribution losses distribution main flushing and
25		metering error. By including only seven percentage points for unaccounted-for as an

1		increment to base water use, the remaining three percentage points, or 30 percent of total
2		unaccounted for is effectively being treated as the shared responsibility of retail and
3		wholesale customers for transmission losses, transmission main flushing, and other utility
4		uses.
5		
6		Plant Allocator
7	Q.	WHAT CHANGE ARE YOU PROPOSING TO MAKE TO THE PLANT
8		ALLOCATOR UTILIZED TO ALLOCATE ENGINEERING AND DEBT
9		SERVICE COSTS?
10	A.	In developing the plant allocator utilized to allocate engineering expenses and debt
11		service costs, Mr. Woodcock added the projected plant additions included in PWSB's
12		Capital Improvement Program to existing plant. However, because of the way in which
13		meters, service and hydrant replacements were included in the Engineers' Report which
14		Mr. Woodcock utilized as his data source, those capital additions were inadvertently
15		excluded from the allocator. I have revised the plant allocator to reflect the planned
16		capital additions for meter, service and hydrant replacements. I also included the cost of
17		repainting the Stump Hill storage tank which is listed in the Capital Improvement Project
18		Status Report provided as part of PWSB's filing requirements.
19		
20		Private Fire Service Costs
21	Q.	PLEASE EXPLAIN YOUR ADJUSTMENT TO PRIVATE FIRE SERVICE
22		COSTS.
23	A.	In PWSB's study, service line maintenance costs were included in the determination of
24		the costs associated with providing private fire services. However, none of the capital

costs attributable to service lines were allocated to private fire service.¹ I have adjusted the costs attributable to the provision of private fire service to include service line related capital costs. I have based this allocation on the number of equivalent fire services compared to the total number of equivalent services. This is the same allocator used for service line maintenance costs.

A.

Miscellaneous Revenue

Q. PLEASE EXPLAIN YOUR ADJUSTMENT TO THE TREATMENT OF MISCELLANEOUS REVENUE.

In his study, Mr. Woodcock allocated all miscellaneous revenue to cost functions based on the overall allocation of costs. I am proposing to separately identify and assign service installation revenue and state surcharge revenue. I have directly assigned service installation revenue to the metering function because the costs associated with service line installation are all assigned to this function. I have assigned state surcharge revenue to the base usage function because this surcharge is collected on each unit of water sold. The remainder of miscellaneous revenue consists primarily of penalty revenue and I have continued to allocate those revenues to functions in proportion to the overall costs assigned to each function.

¹ The capital costs allocated to service lines consist primarily of debt service and lease related costs which are allocated on total investment. All infrastructure replacement (IFR) costs are treated as recoverable through commodity rates consistent with Commission precedent. Hence, none are included as service line costs.

1		<u>Rate Design</u>
2	Q.	PLEASE SUMMARIZE YOUR RATE DESIGN RECOMMENDATIONS.
3	A.	Consistent with the recommendation made by Mr. Woodcock on behalf of PWSB, I am
4		proposing to adjust rates to reflect the results of the cost of service study.
5	Q.	HAVE YOU PREPARED SCHEDULES WHICH COMPARE THE CURRENT
6		AND PROPOSED RATES?
7	A.	Yes. Schedules 8 through 12 of Exhibit TSC-1 provide comparisons of current and
8		proposed rates based on PWSB's filed revenue requirement. Schedule 8 provides a
9		comparison of current and cost based rates without adjustment to separately recover
10		tangible property taxes through a separate surcharge. Schedule 9 provides the
11		corresponding comparison of typical bills. Schedule 11 provides a comparison of current
12		and cost based rates for those rates which would change if tangible property taxes are
13		recovered through the proposed separate surcharge. Schedule 12 shows the
14		corresponding bill comparison. Schedule 10 provides a proof of revenue.
15	Q.	PLEASE SUMMARIZE PWSB'S PROPOSAL TO IMPLEMENT A
16		SURCHARGE APPLICABLE TO CUSTOMERS IN THE TOWN OF
17		CUMBERLAND.
18	A.	PWSB is proposing to implement a separate surcharge applicable to customers within the
19		Town of Cumberland. The purpose of this surcharge would be to recover the property
20		taxes assessed on tangible property within the Town of Cumberland.
21	Q.	WHAT IS PWSB'S RATIONALE FOR IMPLEMENTING SUCH A
22		SURCHARGE?
23	A.	As discussed in detail by Mr. Woodcock in his direct testimony, the reasons that PWSB
24		is proposing to recover these property taxes through a surcharge relate to the fact that the
25		assessment of taxes on PWSB tangible property is unique to Cumberland. That is, while

1		all of PWSB's real property (land and above ground structures) is subject to taxation by
2		all of the applicable taxing authorities, the only PWSB tangible property that is subject to
3		taxation is that located in the Town of Cumberland.
4	Q.	WHAT IS INCLUDED IN THE TANGIBLE PROPERTY THAT IS SUBJECT
5		TO TAXATION?
6	A.	The tangible property upon which the Town of Cumberland assesses property taxes
7		consists almost exclusively of distribution pipes located in the Town. However, it also
8		includes a de minimus amount for computers and miscellaneous equipment used at
9		PWSB facilities located in Cumberland.
10	Q.	DO YOU AGREE WITH PWSB'S PROPOSAL?
11	A.	Yes. I agree that it is appropriate to recover the property taxes assessed by Cumberland
12		on tangible property in the Town of Cumberland from customers in the Town.
13	Q.	WHY DO YOU SUPPORT THIS PROPOSAL?
14	A.	I support the proposal to recover property taxes on tangible property in Cumberland
15		through a surcharge because of the particular circumstances. In the case of real property,
16		that property is normally utilized for the general benefit of all customers. Accordingly,
17		recovery of the property taxes on that property from all customers is appropriate. In
18		contrast, the tangible property subject to taxation in Cumberland is not property utilized
19		for the general benefit of all ratepayers. Rather, that property is in place to serve the
20		customers in Cumberland.
21		The issue is also one of fairness. Only the Town of Cumberland assesses property
22		taxes on tangible property located there. Neither the City of Central Falls nor the Town
23		of Pawtucket assess property taxes on the distribution pipes (or any other tangible
24		property) located in their jurisdiction. Hence, the taxpayers of Cumberland receive a
25		unique benefit from the taxation of tangible property. Moreover, if Central Falls and

1		Pawtucket did tax tangible property, rates would need to be higher for all customers.
2		Accordingly, I agree that it is appropriate to recover the taxes on tangible property in
3		Cumberland from ratepayers in Cumberland as proposed by PWSB.
4	Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
5	A.	Yes, it does.
6		
7		
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BEFORE THE

PUBLIC UTILITIES COMMISSION OF RHODE ISLAND

PAWTUCKET WATER)	DOCKET NO. 3674
SUPPLY BOARD)	

EXHIBIT ACCOMPANYING THE

DIRECT TESTIMONY

OF

THOMAS S. CATLIN

ON BEHALF OF THE DIVISION OF PUBLIC UTILITIES AND CARRIERS

JULY 2005

EXETER

ASSOCIATES, INC. 5565 Sterrett Place Suite 310 Columbia, Maryland 21044

	PRO FORMA	ALLOC.						DIRECT
EXPENSE ITEM ADMINISTRATION	<u>EXPENSE</u>	SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	<u>FIRE</u>
Admin Salaries	\$599,450	L	\$171,043	\$71,592	\$51,993	\$176,887	\$39,773	\$88,162
Admin Overtime	\$7,952	Ĺ	\$2,269	\$950	\$690	\$2,346	\$528	\$1,169
Police Payroll	\$19,809	L	\$5,652	\$2,366	\$1,718	\$5,845	\$1,314	\$2,913
Out of Class Pay	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
Admin. Longevity	\$27,832	L	\$7,941	\$3,324	\$2,414	\$8,213	\$1,847	\$4,093
Admin. Vacation & Sick Pay	\$0	L	\$0	\$0	\$0	\$0	\$0	\$0
FICA Payroll Tax	\$37,595	L	\$10,727	\$4,490	\$3,261	\$11,094	\$2,494	\$5,529
Medicare Payroll Tax	\$9,211	L	\$2,628	\$1,100	\$799	\$2,718	\$611	\$1,355
Health/Dental Benefits	\$724,100	L	\$206,610	\$86,479	\$62,804	\$213,669	\$48,043	\$106,495
MERS Contribution	\$32,975	L	\$9,409	\$3,938	\$2,860	\$9,730	\$2,188	\$4,850
Education & Training	\$14,950	E	\$8,296	\$2,352	\$831	\$1,912	\$520	\$1,038
Outside Services	\$123,592	E	\$68,586	\$19,447	\$6,872	\$15,806	\$4,299	\$8,582
Pagers/Cell Phones	\$18,487	E	\$10,259	\$2,909	\$1,028	\$2,364	\$643	\$1,284
Maint. of Gen'l Plant	\$20,111	E	\$11,160	\$3,164	\$1,118	\$2,572	\$700	\$1,396
Repairs & Main/water plant	\$1,707	E	\$947	\$269	\$95	\$218	\$59	\$119
Telephone	\$13,803	E	\$7,660	\$2,172	\$767	\$1,765 \$2,054	\$480 \$770	\$958
Heating Fuel	\$22,313	E	\$12,383	\$3,511	\$1,241	\$2,854	\$776	\$1,549
Other Utilities Unemployment Insurance	\$2,667	E	\$1,480 \$1,208	\$420 \$547	\$148	\$341	\$93 \$204	\$185
Workers Compensation	\$4,584 \$98,323	L L	\$1,308 \$28,055	\$11,743	\$398 \$8,528	\$1,353 \$29.013	\$304 \$6,524	\$674 \$14,461
Property Insurance	\$179,466	P	\$97,585	\$43,777	\$24,319	\$11,573	\$141	\$2,070
Advertising/Classified	\$10,342	E	\$5,739	\$1,627	\$575	\$1,323	\$360	\$718
Printing	\$8,793	Ē	\$4,880	\$1,384	\$489	\$1,125	\$306	\$611
Dues & Subscriptions	\$31,722	Ē	\$17,604	\$4,991	\$1,764	\$4,057	\$1,104	\$2,203
Office Supplies/Other	\$19,016	Ē	\$10,553	\$2,992	\$1,057	\$2,432	\$662	\$1,320
Postage	\$13,320	E	\$7,392	\$2,096	\$741	\$1,703	\$463	\$925
Housekeeping Supplies	\$8,477	E	\$4,704	\$1,334	\$471	\$1,084	\$295	\$589
Municipal Charges	\$148,486	Е	\$82,401	\$23,364	\$8,256	\$18,990	\$5,165	\$10,310
Capitalized Materials	\$48,142	E	\$26,716	\$7,575	\$2,677	\$6,157	\$1,675	\$3,343
Materials & Supplies	\$1,877	E	\$1,042	\$295	\$104	\$240	\$65	\$130
Bad Debt Expense	\$0	Е	\$0	\$0	\$0	\$0	\$0	\$0
Damage Claims	\$8,172	E	\$4,535	\$1,286	\$454	\$1,045	\$284	\$567
Bond Trustee Fees	\$13,000	Р	\$7,069	\$3,171	\$1,762	\$838	\$10	\$150
Cent Falls Franch. Fee/Purchase	\$172,831	С	\$125,934	\$30,507	\$16,390	\$0	\$0	\$0
Regulatory Comm. Expense	\$206,667	E	\$114,688	\$32,518	\$11,491	\$26,430	\$7,189	\$14,350
Other Miscellaneous	\$10,511	E	\$5,833	\$1,654	\$584	\$1,344	<u>\$366</u>	<u>\$730</u>
Subtotal - Admin	\$2,660,282		\$1,083,087	\$379,343	\$218,700	\$567,041	\$129,282	\$282,829
CUSTOMER SERVICE								
Payroll	\$135,161	В	\$0	\$0	\$0	\$0	\$135,161	\$0
Overtime	\$2,514	В	\$0	\$0	\$0	\$0	\$2,514	\$0
Out of Class Pay	\$627	В	\$0	\$0	\$0	\$0	\$627	\$0
Longevity	\$6,888	В	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$6,888	\$0 \$0
Vacation & Sick Time	\$0	В	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0.003	\$0 \$0
FICA Medicare	\$9,002 \$2,105	B B	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$9,002 \$2,105	\$0 \$0
MERS Contribution	\$7,731	В	\$0 \$0	\$0	\$0	\$0 \$0	\$7,731	\$0 \$0
Education & Training	\$3,105	В	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$3,105	\$0 \$0
Outside Services	\$17,322	В	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$17,322	\$0 \$0
Vehicle Maint - Fuel & Misc.	\$2,101	В	\$0	\$0	\$0	\$0	\$2,101	\$0
Main. of Misc Equipment	\$1,293	В	\$0	\$0	\$0	\$0	\$1,293	\$0
Telephone	\$1,402	В	\$0	\$0	\$0	\$0	\$1,402	\$0
Other Utilities	\$0	В	\$0	\$0	\$0	\$0	\$0	\$0
Printing	\$17,549	В	\$0	\$0	\$0	\$0	\$17,549	\$0
Dues & Subscriptions	\$0	В	\$0	\$0	\$0	\$0	\$0	\$0
Postage	\$28,161	В	\$0	\$0	\$0	\$0	\$28,161	\$0
Miscellaneous Supplies	\$142	В	\$0	\$0	\$0	\$0	\$142	\$0
Other Misc.	<u>\$1,936</u>	В	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$1,936</u>	<u>\$0</u>
Subtotal - Customer Accts	\$237,040		\$0	\$0	\$0	\$0	\$237,040	\$0

EXPENSE ITEM	PRO FORMA <u>EXPENSE</u>	ALLOC. SYMBOL	<u>BASE</u>	MAX. DAY	PEAK HOUR	<u>METERING</u>	BILLING	DIRECT <u>FIRE</u>
SOURCE OF SUPPLY	¢4.45.604	۸	\$4.4E.CO.4	¢ο	ФО.	ድር	¢ο	ФО.
Salaries Overtime	\$145,624 \$0	A A	\$145,624 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Source of Supply Beeper	\$2,175	A	\$2,175	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Longevity	\$12,299	A	\$12,299	\$0	\$0	\$0	\$0	\$0
Vacation & Sick Time	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0
FICA	\$9,926	Α	\$9,926	\$0	\$0	\$0	\$0	\$0
Medicare Payroll Tax	\$2,321	Α	\$2,321	\$0	\$0	\$0	\$0	\$0
MERS Contribution	\$8,113	Α	\$8,113	\$0	\$0	\$0	\$0	\$0
Education Training	\$2,000	Α	\$2,000	\$0	\$0	\$0	\$0	\$0
Security Services	\$74,060	A	\$74,060	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Fuel & Misc.	\$2,000	A	\$2,000	\$0 \$0	\$0	\$0 ©0	\$0 ©0	\$0 \$0
Maint of Structures Maint - Collection Reservoirs	\$7,010 \$130,500	A A	\$7,010 \$130,500	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Maint - Wells	\$130,300	A	\$130,300	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Maint - Misc. Plant	\$1,000	A	\$1,000	\$0	\$0	\$0	\$0	\$0
Maint - Wells & Springs	\$0	A	\$0	\$0	\$0	\$0	\$0	\$0
Light & Power	\$28,290	Α	\$28,290	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	Α	\$0	\$0	\$0	\$0	\$0	\$0
Materials & Supplies	\$6,739	Α	\$6,739	\$0	\$0	\$0	\$0	\$0
Property Tax	\$702,828	Α	\$702,828	\$0	\$0	\$0	\$0	\$0
Miscellaneous	<u>\$7,152</u>	Α	<u>\$7,152</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
Subtotal - Supply	\$1,142,038		\$1,142,038	\$0	\$0	\$0	\$0	\$0
PUMPING								
Salaries	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Overtime	\$0	D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 ©0	\$0 ©0	\$0 \$0
Longevity Vacation & Sick Time	\$0 \$0	D D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
FICA	\$0 \$0	D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Medicare Payroll Tax	\$0	D	\$0 \$0	\$0	\$0	\$0	\$0	\$0
MERS Contribution	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Telephone	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Heating	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Purchased Power	\$564,045	Α	\$564,045	\$0	\$0	\$0	\$0	\$0
Depreciation	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Property Tax	\$25,641	D	\$16,258	\$9,383	\$0	\$0	\$0	\$0
Miscellaneous	\$0 \$500.605	D	\$ <u>0</u>	\$0 \$0	<u>\$0</u> \$0	<u>\$0</u>	<u>\$0</u> \$0	<u>\$0</u> \$0
Subtotal - Pumping	\$589,685		\$580,303	\$9,383	ΦΟ	\$0	ΦΟ	ΦΟ
PURIFICATION								
DBO O&M Contract	\$1,559,852	D	\$989,044	\$570,807	\$0	\$0	\$0	\$0
Overtime	\$0	D	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
Out of Class Pay	\$0 \$0	D D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Beeper Stipend Longevity	\$0 \$0	D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Vacation & Sick Time	\$0	D	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
FICA	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Medicare	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
MERS Contribution	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Education & Training	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Lab Testing	\$0	Α	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Tires	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Batteries	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Outside Parts	\$0	D	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
Vehicle Maint - Fuel & Misc Maint - Structures	\$0 \$0	D D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Maint - Structures Maint - Distrib. Reservoirs	\$0 \$0	D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Maint - Wells	\$0 \$0	D	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Maint - Equipment	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Maint - Facilities	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0

	PRO FORMA	ALLOC.						DIRECT
EXPENSE ITEM	EXPENSE	SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	FIRE
Telephone	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Light & Power	\$210,263	Α	\$210,263	\$0	\$0	\$0	\$0	\$0
Heating	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Other Utilities	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Advertising/Classified	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Dues & Subscriptions	\$0	D	\$0	\$0	\$0	\$0	\$0	\$0
Property Tax	\$52,438	D D	\$33,249	\$19,189	\$0 \$0	\$0 \$0	\$0 ©0	\$0 \$0
Other Miscellaneous Subtotal - Purification	<u>\$0</u> \$1,822,553	D	<u>\$0</u> \$1,232,557	<u>\$0</u> \$589,996	<u>\$0</u> \$0	<u>\$0</u> \$0	<u>\$0</u> \$0	<u>\$0</u> \$0
Subtotal - Furnication	\$1,622,555		\$1,232,337	φ309,990	ΦΟ	φυ	φυ	ΦΟ
TRANSMISSION & DISTRIBUTION	٧							
Payroll	\$903,347	0	\$202,892	\$135,412	\$113,370	\$180,669	\$0	\$271,004
Overtime	\$98,362	0	\$22,092	\$14,744	\$12,344	\$19,672	\$0	\$29,509
Out of Class Pay	\$2,091	0	\$470	\$313	\$262	\$418	\$0	\$627
Beeper Stipend	\$7,611	0	\$1,709	\$1,141	\$955	\$1,522	\$0	\$2,283
Longevity	\$55,191	0	\$12,396	\$8,273	\$6,926	\$11,038	\$0	\$16,557
Vacation & Sick Time	\$54,298	O	\$12,195	\$8,139	\$6,814	\$10,860	\$0	\$16,289
FICA	\$65,009	O	\$14,601	\$9,745	\$8,159	\$13,002	\$0	\$19,503
Medicare	\$16,253	0	\$3,650	\$2,436	\$2,040	\$3,251	\$0	\$4,876
MERS Contribution	\$50,537	O	\$11,351	\$7,575	\$6,342	\$10,107	\$0	\$15,161
Education & Training	\$7,288	0	\$1,637	\$1,092	\$915	\$1,458	\$0	\$2,186
Vehicle Maint-Registration	\$105	0	\$23	\$16	\$13	\$21	\$0	\$31
Vehicle Maint - Inspection	\$669	0	\$150	\$100	\$84	\$134	\$0	\$201
Vehicle Maint - Tires	\$958	0	\$215	\$144	\$120	\$192	\$0	\$287
Vehicle Maint - Batteries	\$0	0	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Outside Parts	\$34,482	0	\$7,745	\$5,169	\$4,328	\$6,896	\$0 ©0	\$10,345
Vehicle Maint - Fuel & Misc	\$18,707	0	\$4,202	\$2,804	\$2,348	\$3,741	\$0	\$5,612
Maint - Misc Plant	\$3,040	0	\$683	\$456	\$381	\$608	\$0 ©0	\$912
Maint - T&D Mains	\$21,296	T	\$9,870	\$5,696	\$5,730	\$0 \$40.000	\$0 ©0	\$0 \$0
Maint - Services	\$12,233	M	\$0 \$0	\$0 \$0	\$0	\$12,233	\$0 ©0	\$0 \$4.636
Maint - Hydrants	\$4,636 \$2,104	F O	\$0 \$472	\$0 \$315	\$0 \$264	\$0 \$421	\$0 \$0	\$4,636 \$631
Telephone Advertising & Classified	\$2,104 \$1,606	0	\$361	\$241	\$204	\$421 \$321	\$0 \$0	\$482
Dues & Subscriptions	\$33	0	\$301	\$5	\$4	\$321 \$7	\$0 \$0	\$10
Postage	-\$539	0	-\$121	-\$81	-\$68	۰\$108	\$0 \$0	-\$162
Capitalized Materials	\$0 \$0	0	\$0	\$0	\$0	\$0	\$0 \$0	\$0
Misc. Tools & Supplies/Inventory	\$46,634	Ö	\$10,474	\$6,990	\$5,853	\$9,327	\$0 \$0	\$13,990
Inventory Water Material	\$5,890	Ö	\$1,323	\$883	\$739	\$1,178	\$0	\$1,767
Road Surface Restoration	\$0	Ö	\$0	\$0	\$0	\$0	\$0	\$0
Other Misc Supplies	\$950	Ö	\$213	\$142	\$119	\$190	\$0	\$285
Central Falls System Operations	\$399,097	Ť	\$184,965	\$106,749	\$107,384	\$0	\$0	\$0
Property Tax	\$137,514	0	\$30,886	\$20,613	\$17,258	\$27,503	\$0	\$41,254
Other Miscellaneous	\$31,732	Ö	\$7,127	\$4,757	\$3,982	\$6,346	\$0	\$9,520
Subtotal - T&D	\$1,981,132		\$541,588	\$343,871	\$306,869	\$321,007	\$0	\$467,797
ENGINEERING								
ENGINEERING Payroll	¢202.424	Р	¢242.224	¢05 650	¢E2 420	¢25 207	\$309	¢4 500
Payroll Overtime	\$392,131 \$5,687	P	\$213,221 \$3,092	\$95,653 \$1,387	\$53,138 \$771	\$25,287 \$367	\$309 \$4	\$4,522 \$66
Out of Class Pay	\$1,965	P	\$1,069	\$479	\$266	\$127	\$ 4 \$2	\$00 \$23
Beeper Stipend	\$1,903	P	\$1,009 \$0	\$0	\$200	\$127	\$0	\$0
Longevity	\$23,309	P	\$12.674	\$5,686	\$3,159	\$1,503	\$18	\$269
Vacation & Sick Time	\$6,395	P	\$3,477	\$1,560	\$867	\$412	\$5	\$74
FICA	\$26,628	P	\$14,479	\$6,495	\$3,608	\$1,717	\$21	\$307
Medicare	\$6,228	P	\$3,386	\$1,519	\$844	\$402	\$5	\$72
MERS Contribution	\$22,654	P	\$12,318	\$5,526	\$3,070	\$1,461	\$18	\$261
Education & Training	\$3,726	P	\$2,026	\$909	\$505	\$240	\$3	\$43
Vehicle Maint-Registration	\$61	P	\$33	\$15	\$8	\$4	\$0	\$1
Vehicle Maint - Inspec	\$83	P	\$45	\$20	\$11	\$5	\$ 0	\$1
Vehicle Maint - Tires	\$492	P	\$268	\$120	\$67	\$32	\$ 0	\$6
Vehicle Maint - Batteries	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
	40	÷	40	40	40	40	45	45

	PRO FORMA	ALLOC.						DIRECT
EXPENSE ITEM	<u>EXPENSE</u>	SYMBOL	BASE		PEAK HOUR	<u>METERING</u>	<u>BILLING</u>	<u>FIRE</u>
Vehicle Maint - Outside Parts	\$2,224	Р	\$1,209	\$542	\$301	\$143	\$2	\$26
Vehicle Maint - Fuel & Misc	\$5,758	Р	\$3,131	\$1,405	\$780	\$371	\$5	\$66
Maint - Misc Equipment	\$161	Р	\$87	\$39	\$22	\$10	\$0	\$2
Telephone	\$3,506	Р	\$1,906	\$855	\$475	\$226	\$3	\$40
Advertising and Classifieds	\$613	Р	\$334	\$150	\$83	\$40	\$0	\$7
Printing	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
Dues & Subscriptions	\$38	Р	\$21	\$9	\$5	\$2	\$0	\$0
Office Supplies & Other	\$21,149	Р	\$11,500	\$5,159	\$2,866	\$1,364	\$17	\$244
Postage	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Materials	\$101	Р	\$55	\$25	\$14	\$6	\$0	\$1
Other Misc. Expense	\$3,462	Р	\$1,882	\$845	\$469	\$223	\$3	\$40
Miscellaneous Expense	<u>\$9,848</u>	Р	<u>\$5,355</u>	<u>\$2,402</u>	<u>\$1,335</u>	<u>\$635</u>	<u>\$8</u>	<u>\$114</u>
Subtotal - Engineering	\$536,219		\$291,570	\$130,801	\$72,663	\$34,579	\$423	\$6,184
METER DEPARTMENT								
Payroll	\$386,422	M	\$0	\$0	\$0	\$386,422	\$0	\$0
Overtime	\$1,283	M	\$0	\$0	\$0	\$1,283	\$0	\$0
Out of Class Pay	\$314	M	\$0	\$0	\$0	\$314	\$0	\$0
Beeper Stipend	\$1,359	M	\$0	\$0	\$0	\$1,359	\$0	\$0
Longevity	\$20,110	M	\$0	\$0	\$0	\$20,110	\$0	\$0
Vacation & Sick Time	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
FICA	\$25,388	M	\$0	\$0	\$0	\$25,388	\$0	\$0
Medicare	\$5,938	M	\$0	\$0	\$0	\$5,938	\$0	\$0
MERS Contribution	\$21,447	M	\$0	\$0	\$0	\$21,447	\$0	\$0
Education & Training	\$688	M	\$0	\$0	\$0	\$688	\$0	\$0
Vehicle Maint - Inspec	\$9	M	\$0	\$0	\$0	\$9	\$0	\$0
Vehicle Maint - Batteries	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
Vehicle Maint - Tires	\$111	M	\$0	\$0	\$0	\$111	\$0	\$0
Vehicle Maint - Outside Parts	\$1,807	M	\$0	\$0	\$0	\$1,807	\$0	\$0
Vehicle Maint - Fuel & Misc	\$7,387	M	\$0	\$0	\$0	\$7,387	\$0	\$0
Maint - Misc Equipment	\$3,288	M	\$0	\$0	\$0	\$3,288	\$0	\$0
Maint - Meters	\$921	M	\$0	\$0	\$0	\$921	\$0	\$0
Telephone	\$1,636	M	\$0	\$0	\$0	\$1,636	\$0	\$0
Advertising & Classified	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
Travel	\$1,694	M	\$0	\$0	\$0	\$1,694	\$0	\$0
Supplies	\$2,989	M	\$0	\$0	\$0	\$2,989	\$0	\$0
Postage	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Materials	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
Merchandising & Jobbing	\$28,403	M	\$0	\$0	\$0	\$28,403	\$0	\$0
Meter Maint. Expense	\$0	M	\$0	\$0	\$0	\$0	\$0	\$0
Meter Reading Expense	\$5,304	M	\$0	\$0	\$0	\$5,304	\$0	\$0
Meter Inventory	\$739	M	\$0	\$0	\$0	\$739	\$0	\$0
Other Misc, Expense	<u>\$148</u>	M	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$148</u>	<u>\$0</u>	<u>\$0</u>
Subtotal - Meter Department	<u>\$517,384</u>		<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$517,384</u>	<u>\$0</u>	<u>\$0</u>
TOTAL O&M	\$9,486,334	1	\$4,871,142	\$1,453,394	\$598,233	\$1,440,010	\$366,745	\$756,811

	PRO FORMA EXPENSE	ALLOC. SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	DIRECT <u>FIRE</u>
CAPITAL EXPENSE								
PBA Misc. Exp.	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
CWFA Fees	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
Restrict. Bond Principal & Interest	\$5,736,014	Р	\$3,118,960	\$1,399,195	\$777,290	\$369,895	\$4,521	\$66,154
Lease Principal	\$135,729	Р	\$73,803	\$33,109	\$18,393	\$8,753	\$107	\$1,565
Lease Interest	\$15,233	Р	\$8,283	\$3,716	\$2,064	\$982	\$12	\$176
Capitalized Labor	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
Capitalized Material & Supply	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
IFR	\$3,100,000	Α	\$3,100,000	\$0	\$0	\$0	\$0	\$0
WRB - Settlement	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
Cent Falls Franch. Fee Settlement	\$0	С	\$0	\$0	\$0	\$0	\$0	\$0
Lead Pipe Replacement	\$0	Т	\$0	\$0	\$0	\$0	\$0	\$0
T&D Replacement	\$0	Т	\$0	\$0	\$0	\$0	\$0	\$0
Rate Stabiliz/Capital Program	\$0	Α	\$0	\$0	\$0	\$0	\$0	\$0
O&M Reserve Deposit	\$158,721	E	\$88,081	\$24,974	\$8,825	\$20,298	\$5,522	\$11,021
R & R Reserve Deposit	\$0	Р	\$0	\$0	\$0	\$0	\$0	\$0
WTP Reserve	\$389,000	D	\$246,651	\$142,349	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
TOTAL CAPITAL COSTS	\$9,534,698		\$6,635,777	\$1,603,343	\$806,572	\$399,928	\$10,161	\$78,916
TOTAL EXPENSES	\$19,021,032		\$11,506,918	\$3,056,738	\$1,404,804	\$1,839,939	\$376,906	\$835,727
Plus: Operating Income	\$951,052	1	\$488,356	\$145,710	\$59,976	\$144,368	\$36,768	\$75,874
Less: Service Installation Revenue	-\$106,352	M	\$0	\$0	\$0	-\$106,352	\$0	\$0
Less: State Surcharge Revenue	-\$64,364	Α	-\$64,364	\$0	\$0	\$0	\$0	\$0
Less Other Misc. Revenue	<u>-\$132,509</u>	1	<u>-\$68,042</u>	<u>-\$20,302</u>	<u>-\$8,356</u>	<u>-\$20,115</u>	<u>-\$5,123</u>	<u>-\$10,571</u>
REQUIRED FROM RATES	\$19,668,858		\$11,862,868	\$3,182,146	\$1,456,424	\$1,857,840	\$408,551	\$901,029

ALLOCATION OF PROJECTED PLANT IN SERVICE TO COST COMPONENTS

EXPENSE ITEM	PROJECTED <u>PLANT*</u>	ALLOC. SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	DIRECT <u>FIRE</u>
SOURCE OF SUPPLY Land & Land Rights Structures & Improvements Wells & Springs	\$4,050,849 \$16,499,969 \$726,712	A A A	\$4,050,849 \$16,499,969 \$726,712	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
PUMPING Land & Land Rights Structures & Improvements Electric Pumping Equipment	\$30,133 \$937,301 \$1,566,482	D D D	\$19,106 \$594,308 \$993,248	\$11,027 \$342,993 \$573,233	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
PURIFICATION Land & Land Rights Structures & Improvements Purification Equipment CWIP - Purif Plant	\$26,046 \$51,603,859 \$635,768 \$71,584	D D D	\$16,515 \$32,720,100 \$403,117 \$45,389	\$9,531 \$18,883,759 \$232,651 \$26,195	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0
TRANSM & DISTRIBUTION Land & Land Rights Distribution Reservoirs Transmission Mains Distribution mains Fire Mains Services	\$1,590 \$1,893,080 \$17,465,935 \$73,124,828 \$0 \$7,912,417	H H D H F	\$672 \$800,221 \$11,074,504 \$30,910,500 \$0	\$388 \$461,832 \$6,391,431 \$17,839,385 \$0 \$0	\$530 \$631,027 \$0 \$24,374,943 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$7,912,417	\$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0
Meters Hydrants GENERAL	\$3,559,586 \$1,855,210	M F	\$0 \$0	\$0 \$0	\$0 \$0	\$3,559,586 \$0	\$0 \$0	\$0 \$1,855,210
Miscellaneous Equipment Structures & improvements Office Furniture & Improvements Transportation Equipment Stores Equipment Tools & Shop Equipment Laboratory Equipment Power Operated Equipment Communication Equipment	\$141,833 \$2,152,888 \$512,614 \$1,209,691 \$7,525 \$41,651 \$85,723 \$50,343 \$103,470	E E E E E E E	\$78,709 \$1,194,725 \$284,470 \$671,307 \$4,176 \$23,114 \$85,723 \$27,937 \$57,420	\$22,317 \$338,748 \$80,658 \$190,340 \$1,184 \$6,554 \$0 \$7,921 \$16,281	\$7,886 \$119,702 \$28,502 \$67,260 \$418 \$2,316 \$0 \$2,799 \$5,753	\$18,139 \$275,328 \$65,557 \$154,705 \$962 \$5,327 \$0 \$6,438 \$13,233	\$4,934 \$74,894 \$17,833 \$42,082 \$262 \$1,449 \$0 \$1,751 \$3,599	\$9,848 \$149,490 \$35,594 \$83,997 \$523 \$2,892 \$0 \$3,496 <u>\$7,185</u>
TOTAL PLANT	\$186,267,087	_	\$101,282,792		\$25,241,135		\$146,805	\$2,148,236
PERCENT		Р	54.38%	24.39%	13.55%	6.45%	0.08%	1.15%

Note: Projected Plant = Test Year Net Plant plus proposed Treatment Plant and Distribution Improvements

ALLOCATION OF NON-ADMINISTRATIVE LABOR COSTS TO COST COMPONENTS

EXPENSE ITEM	PRO FORMA EXPENSE	ALLOC. SYMBOL	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	DIRECT FIRE
CUSTOMER SERVICE Payroll Overtime Out of Class Pay	\$135,161 \$2,514 \$627	В В В	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$135,161 \$2,514 \$627	\$0 \$0 \$0
Longevity	\$6,888	В	\$0	\$0 \$0	\$0	\$0 \$0	\$6,888	\$0 \$0
SOURCE OF SUPPLY								
Salaries	\$145.624	Α	\$145.624	\$0	\$0	\$0	\$0	\$0
Overtime	\$0	Α	\$0	\$0	\$0	\$0	\$0	\$0
Longevity	\$12,299	Α	\$12,299	\$0	\$0	\$0	\$0	\$0
TRANSMISSION & DISTRIBUTION	NO							
Payroll	\$903,347	0	\$202,892	\$135,412	\$113,370	\$180,669	\$0	\$271,004
Overtime	\$98,362	Ö	\$22,092	\$14,744	\$12,344	\$19,672	\$0	\$29,509
Out of Class Pay	\$2,091	Ö	\$470	\$313	\$262	\$418	\$0	\$627
Longevity	\$55,191	Ō	\$12,396	\$8,273	\$6,926	\$11,038	\$0	\$16,557
ENGINEERING								
Payroll	\$392.131	Р	\$213,221	\$95,653	\$53,138	\$25,287	\$309	\$4,522
Overtime	\$5.687	P	\$3.092	\$1,387	\$771	\$367	\$4	\$66
Out of Class Pay	\$1,965	Р	\$1,069	\$479	\$266	\$127	\$2	\$23
Longevity	\$23,309	Р	\$12,674	\$5,686	\$3,159	\$1,503	\$18	\$269
METER DEPARTMENT								
Payroll	\$386,422	M	\$0	\$0	\$0	\$386,422	\$0	\$0
Overtime	\$1,283	M	\$0	\$0	\$0	\$1,283	\$0	\$0
Out of Class Pay	\$314	M	\$0	\$0	\$0	\$314	\$0	\$0
Longevity	\$20,110	M	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$20,110	<u>\$0</u>	<u>\$0</u>
TOTALS	\$2,193,326		\$625,829	\$261,948	\$190,237	\$647,210	\$145,524	\$322,577
PERCENT		L	28.5%	11.9%	8.7%	29.5%	6.6%	14.7%

ALLOCATION TO FIRE, WHOLESALE & RETAIL SERVICE

UNITS OF SERVICE	<u>TOTAL</u>	BASE	MAX. DAY	PEAK HOUR	METERING	BILLING	<u>FIRE</u>
Number Units		5,087,083 ccf/yr	21,444 ccf/day	,	26,254 equiv meters	91,869 bills	1,912 hydrants
Revenue Requirements	\$19,668,858	\$11,862,868	\$3,182,146	\$1,456,424	\$1,857,840	\$408,551	\$901,029
Allocation to Fire Protection	\$1,439,429	\$59,314	\$428,511	\$50,574	included in	calculation	\$901,029
Allocation to Wholesale *	\$1,403,438	\$1,194,665	\$183,689	\$25,084			
Net To Retail Metered Rates	\$16,825,991	\$10,608,889	\$2,569,946	\$1,380,765	\$1,857,840	\$408,551	\$0
* Allocation to wholesale based on: BASE Total Sales (ccf) Plus Unacctd For (7%) Total Production Wholesale Sales Percent Wholesale Allocation MAX DAY Total Max Day Allocation Less: Distribution Costs 80.7% of T&D 80.7% of Engineering Admin Share Capital Items Total Net of Distribution Wholesale Max Day % Wholesale Allocation PEAK HOUR Total Peak Hour Allocation Less: Distribution Costs	5,087,083 356,096 5,443,179 548,162 10.07% \$1,194,665 \$3,182,146 -\$277,573 -\$105,582 -\$100,005 <u>-\$950,403</u> \$1,748,583 10.51% \$183,689	26.1% 59.28% See Sch. 2.1	(Less Distributio	n Mains & Gen	'l Items allocate	ed to Max Day)	
80.7% of T&D 80.7% of Engineering Admin Share Capital Items Total Net of Distribution Wholesale Peak Hr % Wholesale Allocation	-\$247,705 -\$58,654 -\$111,998 <u>-\$806,572</u> \$231,496 10.84% \$25,084	36.6% 100.00% See Sch. 2.1					

UNITS OF SERVICE

METERS

Meter Size	Quarterly	Monthly	Total	Equiv Factor	# of Equivs
5/8	21,243	8	21,251	1.00	21,251
3/4	239	4	243	1.39	337
1	474	11	485	2.00	970
1 1/2	230	6	236	4.07	961
2	374	28	402	5.29	2,125
3	24	16	40	6.00	240
4	10	6	16	14.00	224
6	4	3	7	21.00	147
8	0	0	0	30.00	0
Totals	22,598	82	22,680		26,254

PUBLIC FIRE HYDRANTS

	Test Year	<u>Adjustments</u>	Rate Year
Pawtucket	1,514	0	1,514
Central Falls	201	0	201
Valley Falls	<u>197</u>	<u>0</u>	<u>197</u>
Totals	1,912	0	1,912

PRIVATE FIRE SERVICE

Size	Test Year	<u>Adjustments</u>	Rate Year	Equiv Factor	# of Equivs
2	18	0	18	5.3	95
4	29	0	29	14.0	406
6	354	0	354	21.0	7,434
8	88	0	88	30.0	2,640
10	4	0	4	30.0	120
12	<u>0</u>	<u>0</u>	<u>0</u>	30.0	<u>0</u>
Total	493	0	493		10.695

METERED WATER USE (ccf/year)

Retail	Test Year	Adjustments	Rate Year
Small (5/8 - 1")	3,095,831	0	3,095,831
Medium (1.5 - 2" & By pass)	763,379	0	763,379
Large (3" and up)	367,351	0	367,351
Very Large (6" and up)	312,360	<u>0</u>	312,360
Total	4,538,921	0	4,538,921
Wholesale			
Cumberland	548,162	0	548,162
Seekonk	<u>0</u>	<u>0</u>	<u>0</u>
Total	548,162	0	548,162
Total	5,087,083		5,087,083

UNITS OF SERVICE - DEMAND FACTORS

	BAS Annual Use A ccf/year		Demand Factor	MAXIMUM DAY Maximum Day E	xtra Capacity	Demand Factor	PEAK HOUR Maximum Hour E		Equivalent Meters & Services	Bills
Inside - Retail		· <u></u>								
Small (5/8 - 1")	3,095,831	8,482	2.50	21,204	12,723	3.50	29,686	8,482	22,558	88,100
Medium (1.5 - 2" & By pas	s: 763,379	2,091	2.00	4,183	2,091	3.00	6,274	2,091	3,086	2,824
Large (3" and up)	679,711	1,862	1.80	3,352	1,490	2.50	4,656	1,304	611	452
Fire Protection	6,000 gal/min	for 6 hours pe	r Docket 319	2,888	2,888		481	481		493
Wholesale										
Cumberland	548,162	1,502	2.50	3,755	2,253	3.50	5,256	1,502		
Seekonk	0	0	2.50	0	0	3.50	0	0		
Totals	5,087,083	13,937		35,381	21,444		46,354	13,860	26,254	91,869

UNITS OF SERVICE-MILES OF MAINS

Size	Miles	Inch-Miles	Percent	
2	1.29	2.6		
4	1.50	6.0		
6	113.08	678.5		
8	77.97	623.8		
10	1.78	17.8		
12	45.76	549.1	80.7%	Distribution
16	4.24	67.8		
20	9.13	182.6		
24	6.06	145.4		
30	0.10	3.0		
36	0.35	12.6		
48	0.04	1.9		
54	0.65	<u>35.1</u>	19.3%	Transmission
Totals		2,326		

ALLOCATION FACTORS

	ALLOCATION SYMBOL	<u>BASE</u>	MAX. DAY	PEAK <u>HOUR</u>	METERING	BILLING	DIRECT FIRE	
100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	A B C D E F H I L M O P	100.00% 0.00% 72.87% 63.41% 55.49% 0.00% 42.27% 51.35% 28.53% 0.00% 22.46% 54.38%	0.00% 0.00% 17.65% 36.59% 15.73% 0.00% 24.40% 15.32% 11.94% 0.00% 14.99% 24.39%	0.00% 0.00% 9.48% 0.00% 5.56% 0.00% 33.33% 6.31% 8.67% 0.00% 12.55% 13.55%	0.00% 0.00% 0.00% 0.00% 12.79% 0.00% 15.18% 29.51% 100.00% 20.00% 6.45%	0.00% 100.00% 0.00% 0.00% 3.48% 0.00% 0.00% 6.63% 0.00% 0.00% 0.00%	0.00% 7.98% 14.71% 0.00% 30.00% 1.15%	Supply & Treatment Billing Central Falls Franchise Fee Max Day Demand O&M less A&G Fire Service Max Hour Demand Total O&M Labor Meters Mains, Hydrants & Services Plant
100.00% Symbol D	T <u>MGD</u>	46.35% Percent	26.75%	26.91%	0.00%	0.00%	0.00%	T&D Mains
Avg Day Max Day Incr Total Max Day	12.746 7.356 20.101	63.41% 36.59% 100.00%						
Symbol E Amount Percent	Total \$6,826,052 E	BASE \$3,788,055 55.5%	MAX. DAY \$1,074,051 15.7%	PEAK HOUR \$379,533 5.6%	METERING \$872,970 12.8%	BILLING \$237,463 3.5%	DIRECT FIRE \$473,981 6.9%	
Symbol H	MGD	Percent						
Avg Day Max Day Incr Peak Hour Incr Total Peak Hour	12.746 7.356 <u>10.051</u> 30.152	42.27% 24.40% <u>33.33%</u> 100.00%						
Avg Day (mgd) Max Day (mgd)	<u>FY 00</u> 13.122 21.357	FY 01 13.389 21.085	FY 02 13.035 21.395	FY 03 11.954 17.583	FY 04 12.229 19.087	<u>Average</u> 12.75 20.10		
Symbol O Per	Settlement in D			DEAKLIOUD	METERINO	BILLING	DIDECT FIDE	
Mains Hydrants Services Total	% of Time 50.00% 30.00% 20.00% 100.0%	BASE 22.46% 0.00% 0.00% 22.5%	MAX. DAY 14.99% 0.00% 0.00% 15.0%	PEAK HOUR 12.55% 0.00% 0.00% 12.6%	0.00% 0.00% 0.00% 20.00% 20.0%	0.00% 0.00% 0.00% 0.00%	0.00% 30.00% 0.00% 30.00% 30.0%	
Symbol T Transmission Distribution Total	Plant Amt. \$17,465,935 \$73,124,828 \$90,590,764	BASE \$11,074,504 \$30,910,500 \$41,985,005 46.35%	\$6,391,431 \$17,839,385	PEAK HOUR \$0 \$24,374,943 \$24,374,943 26.91%	METERING \$0 \$0 \$0 0.00%	BILLING \$0 \$0 \$0 0.00%	DIRECT FIRE \$0 \$0 \$0 \$0 0.00%	

PAWTUCKET WATER SUPPLY BOARD FIRE SERVICE CHARGES

PUBLIC FIRE SERVICE

Annual Charge/Hydrant \$688.36

PRIVATE FIRE SERVICE

SERVICE SIZE	ANNUAL
<u>(inches)</u>	<u>CHARGE</u>
2	\$187.96
4	\$533.28
6	\$902.69
8	\$1,440.17
10	\$1,809.54
12	\$2,321.47

ALLOCATION OF FIRE SERVICE EXPENSES TO PUBLIC AND PRIVATE FIRE SERVICE

	NUMBER	DEMAND FACTOR (1)	NO. OF EQUIVS.	PERCENT OF DEMAND	NON-HYDR. REQUIRED	DIRECT HYDRANT	<u>TOTAL</u>
PUBLIC FIRE SI	ERVICE						
Hydrants	1,912	111.31	212,826.5	77.10%	\$415,115	\$901,029	\$1,316,144
PRIVATE FIRE	SERVICE						
SIZE (IN)							
2	18	6.19	111.4				
4	29	38.32	1,111.3				
6	354	111.31	39,404.1				
8	88	237.21	20,874.2				
10	4	426.58	1,706.3				
12	<u>0</u>	<u>689.04</u>	0.0				
Subtotal	493		63,207.2	22.90%	\$123,285	\$0	\$123,285
TOTAL	2,405		276,033.7	100.00%	\$538,399	\$901,029	\$1,439,429
Total Fire Alloca Less Direct Fire Net Non-Hydran		\$1,439,429 \$901,029 \$538,399					

Note:

(1) Based on size to the 2.63 power.

DETERMINATION OF FIRE SERVICE CHARGES

PUBLIC FIRE	PROTECTION	!		CALCULATED CHARGE						
	ALLOCATION	· =	\$1,316,144 = 1,912	\$688.36	3 per year					
PRIVATE FIRE PROTECTION PRIVATE FIRE ALLOCATION (1,2) \$123,285										
= NO. OF EQUIV. UNITS			= 63,207.25	\$1.95	5 /EQUIV.					
SIZE (IN)	DEMAND <u>FACTOR</u>	DEMAND CHARGE	SERVICE LINE CHRG	BILLING CHARGE	CALCULATED CHARGE					
2 4 6 8 10 12	6.19 38.32 111.31 237.21 426.58 689.04	\$12.07 \$74.74 \$217.11 \$462.67 \$832.04 \$1,343.97	\$454.09 \$681.14 \$973.05	\$4.45 \$4.45 \$4.45 \$4.45 \$4.45 \$4.45	\$533.28 \$902.69 \$1,440.17 \$1,809.54					

Notes:

(1) Allocation from Schedule 4.1

(2) Private Fire includes allocated service maintenance costs as detailed below:

Service Line Maintenance C	\$922,627	(Total Metering O&M less Meter Dept)
Service Line Capital Cost	275,837	(Based on Service Line Investment)
Total Allocation to Fire Se	\$346,898	(28.95%)

DETERMINATION OF SERVICE CHARGES

BILLING CHARGE

CUST. BILLING ALLOC.	_	\$408,551 	\$4.45 PER BILL
NUMBER OF BILLINGS		91,869	ψτ.το ΓΕΙΝ BILL
METER CHARGE			
CUST. METER ALLOC. (1)		\$1,510,942	

26,254

----- = \$57.55 PER EQ. METER/YR

TOTAL SERVICE CHARGES

NO. EQUIV. METERS

	QUAR	TERLY ACCO	MON	THLY ACCOU	INTS	
METER	METER	BILLING	TOTAL	METER	BILLING	TOTAL
SIZE (IN)	<u>CHARGE</u>	<u>CHARGE</u>	<u>CHARGE</u>	<u>CHARGE</u>	<u>CHARGE</u>	<u>CHARGE</u>
- 10	A 4400	.	A 40.00	A 4 00	.	# 0.04
5/8	\$14.39	\$4.45	\$18.83	\$4.80	\$4.45	\$9.24
3/4	\$19.94	\$4.45	\$24.38	\$6.65	\$4.45	\$11.09
1	\$28.77	\$4.45	\$33.22	\$9.59	\$4.45	\$14.04
1 1/2	\$58.58	\$4.45	\$63.02	\$19.53	\$4.45	\$23.97
2	\$76.05	\$4.45	\$80.50	\$25.35	\$4.45	\$29.80
3	\$86.32	\$4.45	\$90.77	\$28.77	\$4.45	\$33.22
4	\$201.42	\$4.45	\$205.87	\$67.14	\$4.45	\$71.59
6	\$302.14	\$4.45	\$306.58	\$100.71	\$4.45	\$105.16
8	\$431.62	\$4.45	\$436.07	\$143.87	\$4.45	\$148.32

Note:

(1) Less allocation of Service Maintenance Costs to Private Fire Service - see Schedule 4.2.

ALLOCATION OF GENERAL WATER EXPENSES TO CUSTOMER CLASSES

Class Demands

CUSTOMER	AVERAGE I			MAX DAY EXTRA CAPACITY					
CLASS	(CCF/DAY)	<u>PERCENT</u>	<u>FACTOR</u>	(CCF/DAY)	XTRA CCF/DAY	PERCENT			
Retail									
Small (5/8 - 1")	8.482	60.86%	2.50	21,204	12,723	68.56%			
Medium (1.5 - 2" & By pass)	2,091	15.01%	2.00	4,183	,	11.27%			
Large (3" and up)	1,862	13.36%	1.80	3,352	1,490	8.03%			
<u>Wholesale</u>	•			•					
Cumberland	1,502	10.78%	2.50	3,755	2,253	12.14%			
Seekonk	<u>0</u>	0.00%	2.50	<u>C</u>	<u>0</u>	0.00%			
Total	13,937	100.00%		32,494	18,557	100.00%			
CUSTOMER	AVERAGE I				TRA CAPACITY				
<u>CLASS</u>	(CCF/DAY)	<u>PERCENT</u>	<u>FACTOR</u>	(CCF/DAY)	XTRA CCF/DAY	PERCENT			
Retail									
Small (5/8 - 1")	8.482	60.86%	3.50	29,686	8,482	63.40%			
Medium (1.5 - 2" & By pass)	2,091	15.01%	3.00	6.274	,	15.63%			
Large (3" and up)	1.862	13.36%	2.50	4.656	,	9.74%			
Wholesale	,			,	,				
Cumberland	1,502	10.78%	3.50	5,256	1,502	11.23%			
Seekonk	<u>0</u>	0.00%	3.50	<u>C</u>	0	0.00%			
	_			_	_				
Total	13,937	100.00%		45,872	13,379	100.00%			

Allocation of Retail Metered Sales Costs to Classes (Amounts per Schedule 1.3)

CUSTOMER	BASE (TRA CAPACITY	PEAK HR. EXT		TOTAL
<u>CLASS</u>	<u>PERCENT</u>	<u>AMOUNT</u>	PERCENT	<u>AMOUNT</u>	PERCENT	<u>AMOUNT</u>	<u>AMOUNT</u>
<u>Retail</u>							
Small (5/8 - 1")	68.21%	\$7,235,933	78.03%	\$2,005,443	71.41%	\$986,069	\$10,227,445
Medium (1.5 - 2" & By pass)	16.82%	\$1,784,257	12.83%	\$329,672	17.61%	\$243,148	\$2,357,077
Large (3" and up)	14.98%	<u>\$1,588,699</u>	9.14%	<u>\$234,831</u>	10.98%	<u>\$151,549</u>	<u>\$1,975,079</u>
Total	100.00%	\$10,608,889 72.9%	100.00%	\$2,569,946 17.7%	100.00%	\$1,380,765 9.5%	\$14,559,601

CALCULATION OF METERED WATER RATES

<u>Small (5/8 - 1")</u> Total Expense (2)	\$10,227,445	_	\$2.204 per cef
Metered Sales (HCF) (1)	3,095,831	=	\$3.304 per ccf
<u>Medium (1.5 - 2" & By pass)</u> Total Expense (2) = Metered Sales (HCF) (1)	\$2,357,077 763,379	=	\$3.088 per ccf
<u>Large (3" and up)</u> Total Expense (2) = Metered Sales (HCF) (1)	\$1,975,079 679,711	=	\$2.906 per ccf
Wholesale Total Expense (3) = Metered Sales (HCF) (1)	\$1,403,438 548,162	=	\$2.560 per ccf

Notes:

- (1) Per Schedule 2
- (2) Per Schedule 6.0.
- (3) Per Schedule 1.3

Metered Rates		Current (4/1/05)	Cost of Service	% Change
<u>Retail</u> Small (5/8 - 1")		\$2.571	\$3.304	28.5%
Medium (1.5 - 2" & By	nass)	\$2.395	\$3.088	28.9%
Large (3" and up)	, pass)	\$2.265	\$2.906	28.3%
Extra Large		\$2.120	\$2.906	37.1%
LANG Large		Ψ2.120	Ψ2.300	37.170
<u>Wholesale</u>		\$2.132	\$2.560	20.1%
	Size			
Service Charges	(Inches)			
Quarterly	5/8	\$21.16	\$18.83	-11.0%
·	3/4	\$26.49	\$24.38	-8.0%
	1	\$36.73	\$33.22	-9.6%
	1 1/2	\$73.71	\$63.02	-14.5%
	2	\$117.78	\$80.50	-31.7%
	3	\$235.67	\$90.77	-61.5%
	4	\$368.37	\$205.87	-44.1%
	6	\$736.63	\$306.58	-58.4%
	8	\$1,694.23	\$436.07	-74.3%
Monthly	5/8	\$11.99	\$9.24	-22.9%
•	3/4	\$13.76	\$11.09	-19.4%
	1	\$16.57	\$14.04	-15.3%
	1 1/2	\$26.09	\$23.97	-8.1%
	2	\$39.26	\$29.80	-24.1%
	3	\$78.56	\$33.22	-57.7%
	4	\$122.79	\$71.59	-41.7%
	6	\$245.54	\$105.16	-57.2%
	8	\$564.74	\$148.32	-73.7%
Fire Service (annual)				
Private	2	\$189.95	\$187.96	-1.0%
	4	\$449.20	\$533.28	18.7%
	6	\$734.00	\$902.69	23.0%
	8	\$1,641.76	\$1,440.17	-12.3%
	10	\$2,712.50	\$1,809.54	-33.3%
	12	\$4,354.30	\$2,321.47	-46.7%
Public	per Hydrabt	\$527.50	\$688.36	30.5%

IMPACT OF COST OF SERVICE RATES

(quarterly bills unless otherwise noted)

METER	QUARTERLY	CURRENT	< CO	ST OF SERVI	CE>	
<u>SIZE</u>	USE - CU FT	<u>RATES</u>	NEW BILL	\$ INCREASE	% INCREASE	
Metered Service (Qua	rterly Bills)					
Small		^-	40.404		40.000/	
5/8	2,000	\$72.58	\$84.91	\$12.33	16.99%	
5/8	2,500	\$85.44	\$101.43	\$16.00	18.72%	
5/8	4,000	\$124.00	\$150.99	\$26.99	21.77%	
5/8	5,000	\$149.71	\$184.03	\$34.32	22.92%	
5/8	7,500	\$213.99	\$266.63	\$52.65	24.60%	
5/8	10,000	\$278.26	\$349.23	\$70.97	25.50%	
5/8	15,000	\$406.81	\$514.43	\$107.62	26.45%	
5/8	20,000	\$535.36	\$679.63	\$144.27	26.95%	
5/8	25,000	\$663.91	\$844.83	\$180.92	27.25%	
1	30,000	\$808.03	\$1,024.42	\$216.39	26.78%	
1	40,000	\$1,065.13	\$1,354.82	\$289.69	27.20%	
1	75,000	\$1,964.98	\$2,511.22	\$546.24	27.80%	
Medium						
1 1/2	100,000	\$2,468.71	\$3,151.02	\$682.31	27.64%	
1 1/2	200,000	\$4,863.71	\$6,239.02	\$1,375.31	28.28%	
2	300,000	\$7,302.78	\$9,344.50	\$2,041.72	27.96%	
2	400,000	\$9,697.78	\$12,432.50	\$2,734.72	28.20%	
Large						
3	250,000	\$5,898.17	\$7,355.77	\$1,457.60	24.71%	
3	500,000	\$11,560.67	\$14,620.77	\$3,060.10	26.47%	
4	750,000	\$17,355.87	\$22,000.87	\$4,645.00	26.76%	
6	1,000,000	\$21,936.63	\$29,366.58	\$7,429.95	33.87%	
6	3,000,000	\$64,336.63	\$87,486.58	\$23,149.95	35.98%	
Fire Service (Annual Bill)						
Municipal Fire Service	200 hydrants	\$105,500.00	\$137,672.00	\$32,172.00	30.49%	
•	1400 hydrants	\$738,500.00	\$963,704.00	\$225,204.00	30.49%	
Private Fire Service	4 Inch Service	\$449.20	\$533.28	\$84.08	18.72%	
	6 Inch Service	\$734.00	\$902.69	\$168.69	22.98%	
	8 Inch Service	\$1,641.76	\$1,440.17	-\$201.59	-12.28%	
	5 1.1011 5 01 1 100	Ψ1,011.70	ψ1,110.17	Ψ201.00	12.2070	

REVENUE RECONCILIATION

Service Charge:		Curr	ent	Cost of Service	
	Number	Rate	Revenue	Rate	Revenue
<u>Quarterly</u>					
5/8	21,243	\$21.16	\$1,798,008	\$18.83	\$1,600,023
3/4	239	\$26.49	\$25,324	\$24.38	\$23,307
1	474	\$36.73	\$69,640	\$33.22	\$62,985
1 1/2	230	\$73.71	\$67,813	\$63.02	\$57,978
2	374	\$117.78	\$176,199	\$80.50	\$120,428
3	24	\$235.67	\$22,624	\$90.77	\$8,714
4	10	\$368.37	\$14,735	\$205.87	\$8,235
6	4	\$736.63	\$11,786	\$306.58	\$4,905
8	0	\$1,694.23	\$0	\$436.07	\$0
<u>Monthly</u>					
5/8	8	\$11.99	\$1,151	\$9.24	\$887
3/4	4	\$13.76	\$660	\$11.09	\$532
1	11	\$16.57	\$2,187	\$14.04	\$1,853
1 1/2	6	\$26.09	\$1,878	\$23.97	\$1,726
2	28	\$39.26	\$13,191	\$29.80	\$10,013
3	16	\$78.56	\$15,084	\$33.22	\$6,378
4	6	\$122.79	\$8,841	\$71.59	\$5,154
6	3	\$245.54	\$8,839	\$105.16	\$3,786
8	0	\$564.74	\$0	\$148.32	\$0
Consumption Charge:					
Small (5/8 - 1")	3,095,831	\$2.571	\$7,959,382	\$3.304	\$10,228,626
Medium (1.5 - 2" & By	763,379	\$2.395	\$1,828,293	\$3.088	\$2,357,314
Large (3" and up)	367,351	\$2.265	\$832,050	\$2.906	\$1,067,522
Extra Large	312,360	\$2.120	\$662,203	\$2.906	\$907,718
Wholesale	548,162	\$2.132	\$1,168,681	\$2.560	\$1,403,295

REVENUE RECONCILIATION

		Current		Cost of S	Service
	<u>Number</u>	<u>Rate</u>	Revenue	Rate	Revenue
Fire Protection:					
Public Hydrants	1,912	\$527.50	\$1,008,580	\$688.36	\$1,316,144
Private Fire Protection					
2	18	\$189.95	\$3,419	\$187.96	\$3,383
4	29	\$449.20	\$13,027	\$533.28	\$15,465
6	354	\$734.00	\$259,836	\$902.69	\$319,552
8	88	\$1,641.76	\$144,475	\$1,440.17	\$126,735
10	4	\$2,712.50	\$10,850	\$1,809.54	\$7,238
12	0	\$4,354.30	\$0	\$2,321.47_	\$0
Total			\$16,128,757		\$19,669,898
Plus: Misc Revenues			\$303,226	_	\$303,226
Pro Forma Revenue			\$16,431,983		\$19,973,124
Required Revenue			\$19,972,083	_	\$19,972,083
Difference			-\$3,540,101		\$1,040
Increase in Revenues					\$3,541,141
Percent Increase in Total Re			21.6%		
Percent Increase in Rate Rev	venues (non-	misc)			22.0%

CUMBERLAND TAX SURCHARGE/PROPOSED METERED RATES

	Calc	culation	า of S	Surci	harge
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FY 2004 Tangible Tax \$487,068 Estimated RY Tax \$530,812

Sales to Cumberland (hcf)

 Retail
 367,982

 Wholesale
 548,162

 Total
 916,144

Surcharge (\$/ccf) \$0.579

Annual Revenue \$530,447

Non-Cumberland Sales (hcf) 4,170,939

Rate Reduction to Others -\$0.127

Comparison of Current & Proposed Rates with Surcharge

Metered Rates (no change to others)	Current	Proposed w/o Surcharge	Proposed w/ Surcharge
Non-Cumberland			
Small (5/8 - 1")	\$2.571	\$3.304	\$3.177
Medium (1.5 - 2" & By pass)	\$2.395	\$3.088	\$2.961
Large (3 - 4')	\$2.265	\$2.906	\$2.779
Very Large (6" and up)	\$2.120	\$2.906	\$2.779
Wholesale	\$2.132	\$2.560	\$2.433
<u>Cumberland</u>			
Small (5/8 - 1")	\$2.571	\$3.304	\$3.883
Medium (1.5 - 2" & By pass)	\$2.395	\$3.088	\$3.667
Large (3 - 4')	\$2.265	\$2.906	\$3.485
Very Large (6" and up)	\$2.120	\$2.906	\$3.485
Wholesale	\$2.132	\$2.560	\$3.139

COMPARISON OF BILLS UNDER CURRENT RATES WITH PROPOSED RATES WITH AND WITHOUT CUMBERLAND SURCHARGE

Impact of Proposed Surcharges on Quarterly Bills

METER		QUARTERLY	CURRENT	PROPO	OSED
SIZE		USE - CU FT	RATES W/	O SURCHARGE	W/ SURCHARGE
<u>Meterea</u>	l Service (Quarterly Bil	<u>(Is)</u>			
Small					
	5/8 Non-Cumberland	2,000	\$72.58	\$84.91	\$82.37
	5/8 Cumberland		\$72.58	\$84.91	\$96.49
	5/8 Non-Cumberland	2,500	\$85.44	\$101.43	\$98.26
	5/8 Cumberland		\$85.44	\$101.43	\$115.91
	5/8 Non-Cumberland	4,000	\$124.00	\$150.99	\$145.91
	5/8 Cumberland		\$124.00	\$150.99	\$174.15
	5/8 Non-Cumberland	5,000	\$149.71	\$184.03	\$177.68
	5/8 Cumberland		\$149.71	\$184.03	\$212.98
	5/8 Non-Cumberland	7,500	\$213.99	\$266.63	\$257.11
	5/8 Cumberland		\$213.99	\$266.63	\$310.06
	5/8 Non-Cumberland	10,000	\$278.26	\$349.23	\$336.53
	5/8 Cumberland		\$278.26	\$349.23	\$407.13
	5/8 Non-Cumberland	15,000	\$406.81	\$514.43	\$495.38
	5/8 Cumberland		\$406.81	\$514.43	\$601.28