Water Rate Study

For the City of Page Arizona

April 23, 2015

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City of Page Water Utility Rate Study

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INTRODUCTION

Rate Study

The City of Page (City) engaged GDS & Associates, Inc. (GDS) to conduct a comprehensive water and wastewater rate study that could be utilized to evaluate and enhance the user charges for the City's water and wastewater service to ensure that there is a proportionate recovery of costs from the various user classes. This report documents the resultant findings, analyses, and proposed changes for the water portion of the study.

The City's water utility provides water services to approximately 3,100 residential and commercial customers. Currently, the City receives all of its water supply from the Glen Canyon Dam. The Water utility is responsible for operating and maintaining approximately 60 miles of pipelines, 7 pressure reducing/regulating stations, 1 pump stations and the City of Page Water Treatment Plant. The Wastewater utility provides sewer services to about 2,600 residential and commercial accounts. It is responsible for the operation and maintenance of the City of Page Wastewater Treatment Plant, 48 miles of collection lines, 4 lift stations, 1,000 manholes, and a reclaimed water system used to water the golf course.

The City operates the water and wastewater systems as self-supporting enterprises, with revenues and expenditures accounted for separately from its other enterprises and General Fund activities.

The major objectives of this particular study prioritized by the Page Utility Board include the following:

- Educate the customers of the process and ensure that their concerns and input were considered in the development of rates. If a rate increase is decided by the council then a stakeholders meeting led by GDS and Page Utility personnel will be conducted. During this meeting, we will explain the determined the top three objectives for the water/wastewater customers. This process is addressed in Appendix G.
- A comprehensive review of the classifications of Non-Residential customers currently being billed under the Residential customer rate class and their impact on rates. Recommend a rate policy that would apply rates equitably and fairly to this Commercial sub-class.
- Recovery of the $1.4 million in capital improvements required to purchase a needed water tank.

Benchmark Comparison

In addition to the rate study addressed above, GDS conducted a performance benchmark comparison using statistics provided by AWWA. The comparison is perfunctory in nature and the sole purpose is to determine whether a staffing level assessment should be conducted. The results of these comparisons can be found in Appendix H.

Overview of the Study

The scope of this study is to develop cost based water and wastewater user rates through a comprehensive cost of service (COS) and rate design study process. There are three major sequential steps involved in this study:

Step 1 - Financial Planning: User and usage data from the most recent fiscal year is compiled. The single family residential usage in the different rate tiers is analyzed to determine revenues that will be collected from this class. Operating and capital costs are compiled and revenue requirements are projected for a five-year period from Fiscal Year (FY) 2014-2015 through FY 2019-2020. Financial planning involves estimation of annual O&M and capital expenditures, annual debt service and reserve requirements, operating and capital revenue sources and the determination of required annual user revenues from rates and charges.

Step 2 - Cost of Service Analysis: Cost of Service Analysis involves identifying and apportioning annual revenue requirements to the different user classes proportionate to their demand on the water system and proportionate to their wastewater loadings.

Step 3 - Rate Design: Rate Design involves the development of a fixed and variable schedule of rates for each of the different user classes to proportionately recover the costs attributable to them. This is also where other policy objectives can be achieved.

Common Objectives all Rate Studies Share

Industry wide there are common objectives that rate studies share. A quick review of these objectives will help the reader understand the detailed discussions in the following pages regarding the "how and why" of the methods used in the study.

Financial Sufficiency -The rate structure should not only adequately recover the costs associated with providing service, but also ensure that enough revenues are generated to meet current or future bond coverage, reserve requirements and capital expenditures.

Cost of Service Based Allocations - The rate structure should ensure that each customer class is contributing equitably towards revenue requirements based upon the costs of providing service to each customer class.

Rate Stability - The rate structure should minimize dramatic rate increases or decreases over the planning period. Rate stability is measured through bill impacts.

Revenue Stability - The rate structure should provide for a steady and predictable stream of revenues to the utility such that the utility is capable of meeting its current financial requirements.

Simple to Understand and Update - The rate structure should be easy for City customers to understand, utilizing a moderate level of educational tools. In addition, the rate structure should allow for effective maintenance by City staff in future years.

Ease of Implementation - The rate structure should be compatible with the City's billing system addition. The rate structure should allow for the continuation of existing management and system reports.

Defensibility - The rate structure should be consistent with the rate setting methodologies provided by AWWA and applicable laws in order to ensure that the rates are defensible if challenged in court.

Minimization of Customer Impacts - The rate structure should be developed such that adverse rate impacts on each customer class are minimized.

Common Objectives Typically Applied on a Case-by-Case Basis

Depending on the characteristics of the utility, the following objectives may or may not carry a high degree of importance:

Equitable Contributions from New Customers - New customers should be responsible for the capital costs of providing service, which can be important to rapid-growth communities.

Economic Development - The rate structure could incorporate a preferential rate that may be used to attract economic development, which can be important to communities that are experiencing slow or negative economic growth.

Affordability to Disadvantaged Customers - The rate structure should incorporate practices or procedures that help ensure that economically disadvantaged customers can afford water and wastewater service, which can be important to communities with a large diverse customer base.

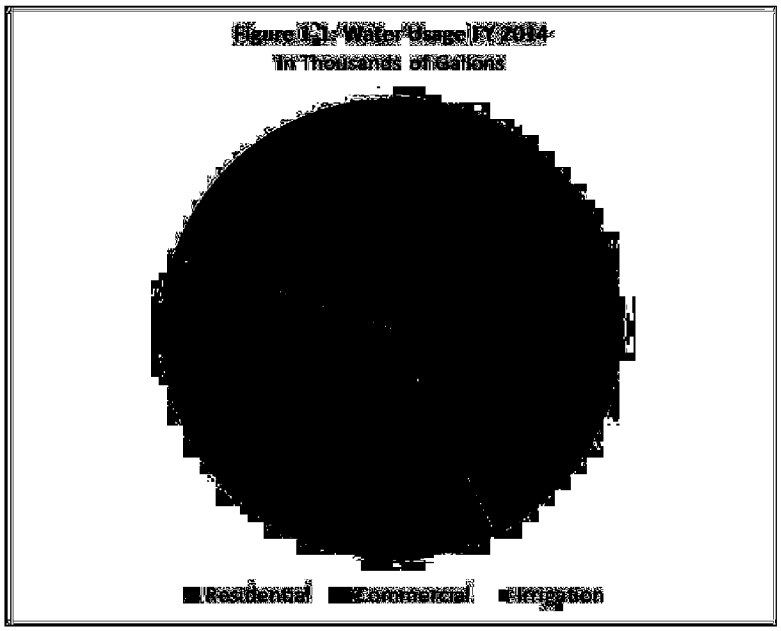
Conservation/Demand - The rate structure should encourage water conservation as well as assist in managing system demand, reduce peak consumption, reduce seasonal consumption, reduce total consumption, reward economically efficient water users, surcharge nonessential and non-efficient water use and communicate conservation consciousness. This rate structure can be important to communities with water supply issues or a high interest in or concern for water sustainability.

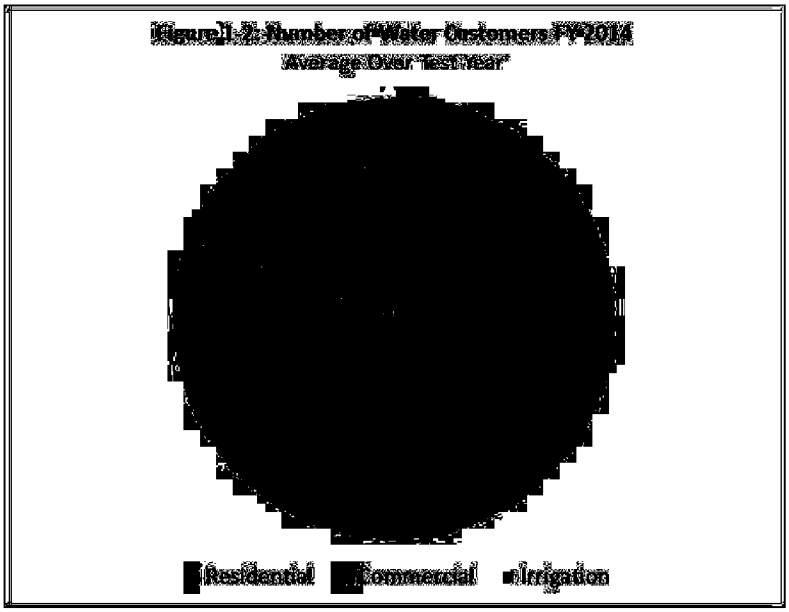
Keeping these objectives in mind while reviewing this study will help clarify the processes and procedures addressed in this study.

WATER RATE STUDY

Current Rates and Revenues

The current water rate structure consists of a fixed monthly service charge or "base rate" that does not vary by meter size and a uniform tiered commodity rate for residential, commercial and irrigation customers. Residential customers used 43% percent of the total water consumed in fiscal year (FY) 2014, as shown in Figure 1-1. Commercial use constituted 37% percent of the total water usage with the remaining 21% going to Irrigation.





Having too little of a utility's total revenue recovered in fixed charges can lead to financial instability when usage is reduced due to rainfall or other reasons. Also, too much revenue collected through variable rates can result in over collection during drought or a hot summer. Based on our experience, overall fixed revenue ratios in the 30% to 40% range provide a reasonable level of stability. The higher the fixed ratio, the more stable the revenue stream. Fixed revenues over 40%, although providing a very stable revenue source, disproportionally affect low usage customers and do not provide as much incentive to conserve water. The 30% to 40% range is the right balance.

Currently, 29% of total water revenues are recovered in fixed service charges regardless of usage, which is close to the level needed for stability. In our recommended rates, we propose recovering 34% of total revenues in fixed charges for the Residential and Commercial rate classes.

Tiered commodity charges, based on the number of gallons used by each customer, currently recover the other 71% of revenues. All City customers have three thousand gallons included in their fixed charges and are charged the same rates for each thousand gallons of usage afterwards:

Figure 1-3: Current Volumetric Rates

From 3 thousand gallons to 15 thousand gallons:	$2.35 per thousand gallons
From 15 thousand gallons to 25 thousand gallons:	$2.55 per thousand gallons
Over 25 thousand gallons:	$2.75 per thousand gallons

Projections of Revenue Requirements

In order to determine the appropriate water rates, GDS projected the revenue requirements, including operations and maintenance (O&M) and capital improvement costs for the study period from FY 2015 to 2020. O&M expenses include the cost of operating and maintaining water supply, treatment, storage, and distribution facilities, as well as the costs of providing technical services such as laboratory services and other administrative costs of the water system such as meter reading and billing. The O&M projections are based on the City's FY 2015 budget and an inflationary factor of 2% in projecting all O&M expenditures, except pension and medical benefits, which are projected to increase at 5% percent. Finally, the number of water accounts and usage were projected to grow at 1% percent annually from FY 2015 through 2020.

In addition to the operating expenses, the City is planning significant capital expenditures over the next five years. The total Capital Improvement Program (CIP) expenditures over the five year period is $4.3 million, all of which will be funded through the cash flow of operations. These amounts include the recovery of the

$1.4 million for the water tank over a three year period. Figure 1-4 below provides the summary of projected and expenses from 2015 through 2020.

Figure 1-4: FY 2015-2020 Water System Projected Expenses

	Budget Projection					
Category	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Water Treatment Plant: Cost of Sales & Service	$ 468,400	$ 468,400	$ 482,018	$ 496,034	$ 510,463	$ 525,315
Water Distribution: Cost of Sales & Service	60,400	63,400	64,668	65,960	67,279	68,622
Personnel Services	635,306	550,462	565,509	581,057	597,128	613,743
Administrative & General Expenses	75,100	75,100	76,602	78,132	79,693	81,288
Outside Services	17,500	33,500	33,850	34,207	34,571	34,942
Misc. Expenses	-	-	-	-	-	-
Capital Additions	707,000	617,000	626,307	629,500	632,757	633,435
Total Water Budget	**$ 1,963,706**	**$ 1,807,862**	**$ 1,848,954**	**$ 1,884,890**	**$ 1,921,891**	**$ 1,957,345**
Less: Other Revenues - Water	63,000	64,890	66,837	68,842	70,907	73,034
Revenue Requirement	**$ 1,900,706**	**$ 1,742,972**	**$ 1,782,117**	**$ 1,816,048**	**$ 1,850,984**	**$ 1,884,311**
Increase %		-8.30%	2.25%	1.90%	1.92%	1.80%

Appendix A provides all the projected revenue requirements used to develop rates.

Allocation of Water Revenue Requirements to Customer Class Cost of Service

To fairly allocate the cost of service (COS) among the different water user classes in proportion to their usage and peaking demands, costs first need to be assigned to the appropriate demand and usage characteristics. This section describes the allocation of the operating and capital costs to each customer class of the water system. The City water system consists of three customer classes; Residential, Commercial and Irrigation.

The first step in the customer class allocation process is to categorize system costs by function in order to equitably distribute costs to the various classes of customers. For this analysis, water utility costs of service are assigned to three basic functional cost components - base costs, extra capacity costs and customer service related costs.

Base costs are those operating and capital costs of the water system associated with serving customers at a constant average rate of use typically associated with the total volumes consumed or used by each class.

Extra capacity costs represent those costs incurred to meet customer peak demands for water in excess of average day usage. Total extra capacity costs are subdivided into costs associated with maximum day and maximum hour demands. A water utility is comprised of various facilities each designed and operated to fulfill a given function. In order to provide adequate service to its customers at all times, the utility must be capable of not only providing the total amount of water used, but also supplying water at peak or maximum rates of demand. The separation of costs into functional components provides a means for distributing such

costs to the various classes of customers on the basis of respective responsibilities for each particular type of service. For purposes of this study, we assumed typical demand factors common for systems the size of Page, or Max Day of 1.86 times average daily usage and Max Hour of 2.79 times average daily usage.

Customer service costs include customer related and meter related costs. Customer costs are uniform for all customers and include all the costs that can be identified such as postage, billing forms and salaries related to meter reading, billing, collection, accounting and customer service.

Once costs are identified and functionalized they are then allocated to each class based on various factors that reflect closest cost causation attributes. For instance, customer costs are allocated to each class based on number of customers, base costs are allocated on the total volumetric usage of each class and max or peak hour costs are allocated on total available demand for each class, and max or peak day costs are allocated on estimated peak day demand factor.

The allocation of costs of service into these principal components provides the means for determining the costs to the various customer classes on the basis of their respective base, extra capacity and customer requirements for service. The results of this study are used as a guide for designing rates. Figure 1-5 below summarizes the results for the Budgeted 2015 FY.

Figure 1-5: FY 2015 Cost of Service Results

Cost Category	Residential	Commercial	Irrigation	Total
Water Treatment Plant Cost of Sales & Service	$ 233,546	$ 158,912	$ 75,942	$ 468,400
Water Distribution Cost of Sales & Service	37,925	20,305	5,169	63,400
Personnel Services	306,124	175,983	68,355	550,462
Administrative & General Expenses	43,658	22,467	8,975	75,100
Outside Services	17,982	10,932	4,586	33,500
Capital Additions	331,196	201,338	84,466	617,000
Less: Other Water Revenues	54,150	10,740	-	64,890
Total Revenue Requirement	**$ 916,281**	**$ 579,197**	**$ 247,494**	**1,742,972**

The result reflects a very good approximation of what users should pay in proportion to the cost of providing service, however other considerations such as effects of rate increases and keeping utility service affordable for low-usage customers also affect the level of recovery from each class. The details of the study can be found in Appendix B.

Meter Charge Issues

The current rate structure treats the smaller metered customers unfairly and subsidizes the larger meter customers by not recognizing that the larger customer meter sizes place additional demand on the system. For instance, the charge for a 5/8-inch metered customer is the same as a 6-inch metered customer and do not recognize that the 6-inch customer has the ability to take 50 times more water from the system than the 5/8-inch customer. As discussed earlier, there are peak costs that need to be recovered equitably and consideration of the customer's contribution or potential contribution to those costs should be considered when establishing rates.

Charges based on demand are industry standard across all utilities. The City electric system recognized this concept when designing rates and applied different fixed costs according to the electric demand of a particular customer or meter. Our study and rate recommendations also follow this approach – the larger the meter, the larger the potential demand, and the larger the fixed charge.

Summary of GDS Rate Recommendations

- The fixed monthly charges should follow industry practice and be based on the demand capacity of each meter size. In other words, a 6-inch meter should pay more than 5/8-inch meter because it has the ability to take water at a much higher rate and volume.
- For Residential and Commercial customers, the fixed ratio should be set at or above 30%.
- All non-residential customers taking service under residential class rates should be moved to the commercial class.
- Move irrigation customers to a rate design with no customer charge and a fixed charge per thousand gallons.
- The City Council should consider slight across-the-board rate adjustments of 2% to 3% each year. The purpose of these adjustments would be to keep up with inflationary pressure while keeping rate increases insignificant, as well as covering needed system investment. This increase should be considered and adjusted annually as needed.

Fixed Monthly Charges Based on Meter Size

Industry rate making methodology typically considers the potential or actual demand according to the meter size along with other specific meter costs. For instance, the AWWA has established the following meter ratios that can be used or considered when establishing fixed rates:

Figure 1-6: AWWA Meter Ratios as Compared to Ratios Used in Rate Design

Meter Size	Maximum Flow Rate (gpm)	AWWA Meter Ratio	Meter Ratio Used - Recommended	Meter Ratio Used - Alt. Recommended
5/8" Meter	20	1.0	1.0	1.0
3/4" Meter	30	1.5	1.0	1.0
1" Meter	50	2.5	1.0	1.0
1 1/2" Meter	100	5.0	1.3	2.5
2" Meter	160	8.0	2.5	4.0
3" Meter	320	16.0	4.0	7.5
4" Meter	500	25.0	8.0	12.5
6" Meter	1,000	50.0	16.0	25.0

As the table indicates above the larger the meter size the larger the potential water demand as expressed in gallons per minute (GPM). When applying the ratios there may need to be moderation rather than strict adherence in order to reduce the rate impacts. GDS is recommending modified meter ratios to calculate meter charges in order to mitigate the bill impacts of low usage customers while recognizing industry standards that larger meters should pay more of their fair share of demand costs. This is a gradual approach and moving the ratios toward the AWWA standard should be considered in future rate increases.

As 1" Meters are the most prevalent and are installed in all newly constructed locations, we have set the customer charge for meters 1" or less at the same level.

Fixed Revenue Ratio

The current rates for water reflect a fixed revenue ratio of 28.5%. Fixed revenue consists of fixed rates charge each customer regardless of the amount of water they use. In Page's current rate structure, the fixed revenue consists of a $14.13 customer charge that every customer pays regardless of meter size. Variable revenue consists of the volumetric charges for each 1,000 gallons of usage above 3,000 gallons. The higher the fixed ratio the more stable the revenue stream and the more likely cash needs can be maintained through operational cash flow rather than sole dependence on credit markets. Fixed ratios in the 30% to 40% range are reasonable. The fixed rates recommended by GDS produces a 35% fixed revenue ratio for the Residential and Commercial rate classes.

Non-Residential Retail Customers Reclassified to Commercial Class

There are some non-residential water customers that have been misclassified as residential and should be reclassified to Commercial. This issue is discussed in more detail in the Wastewater Rate Study.

Irrigation Customers Moved to Fixed Volumetric Rate Design

The study shows that Irrigation rates are recovering their cost of service and do not necessarily require an increase. However, we recommend eliminating the fixed charge and charging a single volumetric rate. This

would encourage more customers to install irrigation meters and ultimately provide the utility with a good tool to control discretionary water usage during water supply issues.

Annual Rate Adjustment

Water utilities typically see increases in costs due to inflation, electric utility rate increases, personnel costs and other factors, often in the 2-3% range. In our experience, it is better to make small adjustments to the rates annually than to have large rate increases every five to ten years than having the utility be in a position where it is consistently under-recovering the cost of service. From a utility customer prospective, regular small increases are more acceptable than irregular large increases. Any rate increase mechanism put into effect should be subject to annual review and adjustment by the City Council after the budget has been prepared for the next fiscal year.

Current and Recommended Water Rate Comparison

Presented below is a side-by-side comparison of the current and recommended water rates by class:

Current Residential Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Recommended Residential Rates

Meter Size	Customer Charge
5/8"	$ 12.75
3/4"	$ 12.75
1"	$ 12.75
1 1/2"	$ 15.94
2"	$ 31.88
3"	$ 51.00
4"	$ 102.00
6"	$ 204.00

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.60 per 1,000 Gallons
Over 25,000 Gallons: $ 2.90 per 1,000 Gallons

Current Commercial Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Recommended Commercial Rates

Meter Size	Customer Charge
5/8"	$ 12.75
3/4"	$ 12.75
1"	$ 12.75
1 1/2"	$ 15.94
2"	$ 31.88
3"	$ 51.00
4"	$ 102.00
6"	$ 204.00

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.60 per 1,000 Gallons
Over 25,000 Gallons: $ 2.90 per 1,000 Gallons

Current Irrigation Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Recommended Irrigation Rates

Meter Size	Customer Charge
All Meters	No Charge

Volumetric Charges
All: $ 2.90 per 1,000 Gallons

Below are the bill impacts at various usage levels for each class and meter size:

Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 12.75	$ (1.38)	-10%
3/4"	587	$ 14.13	$ 12.75	$ (1.38)	-10%
1"	911	$ 14.13	$ 12.75	$ (1.38)	-10%
1.5"	6	$ 14.13	$ 15.50	$ 1.37	10%

Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 17.45	$ (1.38)	-7%
3/4"	587	$ 18.83	$ 17.45	$ (1.38)	-7%
1"	911	$ 18.83	$ 17.45	$ (1.38)	-7%
1.5"	6	$ 18.83	$ 20.20	$ 1.37	7%

Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 29.20	$ (1.38)	-5%
3/4"	587	$ 30.58	$ 29.20	$ (1.38)	-5%
1"	911	$ 30.58	$ 29.20	$ (1.38)	-5%
1.5"	6	$ 30.58	$ 31.95	$ 1.37	4%

Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 29.20	$ (1.38)	-5%
3/4"	63	$ 30.58	$ 29.20	$ (1.38)	-5%
1"	183	$ 30.58	$ 29.20	$ (1.38)	-5%
1.5"	51	$ 30.58	$ 32.39	$ 1.81	6%
2"	122	$ 30.58	$ 48.33	$ 17.75	58%
3"	5	$ 30.58	$ 67.45	$ 36.87	121%
4"	13	$ 30.58	$ 118.45	$ 87.87	287%
6"	3	$ 30.58	$ 220.45	$ 189.87	621%

Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 81.45	$ (0.13)	0%
3/4"	63	$ 81.58	$ 81.45	$ (0.13)	0%
1"	183	$ 81.58	$ 81.45	$ (0.13)	0%
1.5"	51	$ 81.58	$ 84.64	$ 3.06	4%
2"	122	$ 81.58	$ 100.58	$ 19.00	23%
3"	5	$ 81.58	$ 119.70	$ 38.12	47%
4"	13	$ 81.58	$ 170.70	$ 89.12	109%
6"	3	$ 81.58	$ 272.70	$ 191.12	234%

Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 20.30	$ (10.28)	-34%
3/4"	63	$ 30.58	$ 20.30	$ (10.28)	-34%
1"	183	$ 30.58	$ 20.30	$ (10.28)	-34%
1.5"	51	$ 30.58	$ 20.30	$ (10.28)	-34%
2"	122	$ 30.58	$ 20.30	$ (10.28)	-34%
3"	5	$ 30.58	$ 20.30	$ (10.28)	-34%
4"	13	$ 30.58	$ 20.30	$ (10.28)	-34%
6"	3	$ 30.58	$ 20.30	$ (10.28)	-34%

Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 78.30	$ (3.28)	-4%
3/4"	63	$ 81.58	$ 78.30	$ (3.28)	-4%
1"	183	$ 81.58	$ 78.30	$ (3.28)	-4%
1.5"	51	$ 81.58	$ 78.30	$ (3.28)	-4%
2"	122	$ 81.58	$ 78.30	$ (3.28)	-4%
3"	5	$ 81.58	$ 78.30	$ (3.28)	-4%
4"	13	$ 81.58	$ 78.30	$ (3.28)	-4%
6"	3	$ 81.58	$ 78.30	$ (3.28)	-4%

Presented below are proposed average residential bills compared to similar-sized Arizona municipalities' residential and commercial bills.

Arizona Residential Water Rates at Various Consumption Levels

Usage Level	Page, AZ Current	Page, AZ Recommended	Globe, AZ Inside City	Safford, AZ	Wickenburg, AZ Inside City	Winslow, AZ Inside City
3,000 Gallons	$ 14.13	$ 12.75	$ 17.65	$ 25.88	$ 11.04	$ 19.80
5,000 Gallons	$ 18.83	$ 17.45	$ 24.20	$ 28.76	$ 12.13	$ 24.50
10,000 Gallons	$ 30.58	$ 29.20	$ 38.85	$ 36.97	$ 17.58	$ 36.25

Arizona Commercial Water Rates at Various Consumption Levels 5/8"

Usage Level	Page, AZ Current	Page, AZ Recommended	Globe, AZ Inside City	Safford, AZ	Wickenburg, AZ Inside City	Winslow, AZ Inside City
10,000 Gallons	$ 30.58	$ 29.20	$ 41.25	$ 36.97	$ 25.16	$ 39.95
25,000 Gallons	$ 67.83	$ 66.95	$ 88.80	$ 67.57	$ 44.81	$ 80.75
50,000 Gallons	$ 136.58	$ 139.45	$ 210.05	$ 148.57	$ 111.31	$ 148.75

Recommended Alternative Rate Design

GDS also has developed a rate design that accounts for concerns that have been raised by Page Utility personnel over increasing both the customer and volumetric charges at the same time. In the recommended alternative rate design, we have maintained the current charges per 1,000 gallons of water, but have increased the customer charges to recover the needed revenue requirement. The customer charge per meter has been increased to reflect ½ of the AWWA recommended meter equivalency charge for all meters sizes over 1". Additionally, we have eliminated the customer charge for all irrigation meters 1" and below and capped the maximum volumetric charge for irrigation customers at $2.55 per 1,000 gallons in order to encourage customers to take service under this rate class. Below are the rate impacts for each rate class and meter size.

Current Residential Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Alternative Recommended Residential Rates

Meter Size	Customer Charge
5/8"	$ 12.25
3/4"	$ 12.25
1"	$ 12.25
1 1/2"	$ 30.63
2"	$ 49.00
3"	$ 91.88
4"	$ 153.13
6"	$ 306.25

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Current Commercial Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Alternative Recommended Commercial Rates

Meter Size	Customer Charge
5/8"	$ 12.25
3/4"	$ 12.25
1"	$ 12.25
1 1/2"	$ 30.63
2"	$ 49.00
3"	$ 91.88
4"	$ 153.13
6"	$ 306.25

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Current Irrigation Rates

Meter Size	Customer Charge
All Meters	$ 14.13

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
From 15,000 to 25,000 Gallons: $ 2.55 per 1,000 Gallons
Over 25,000 Gallons: $ 2.75 per 1,000 Gallons

Alternative Recommended Irrigation Rates

Meter Size	Customer Charge
5/8"	$ 00.00
3/4"	$ 00.00
1"	$ 00.00
1 1/2"	$ 30.63
2"	$ 49.00
3"	$ 91.88
4"	$ 153.13
6"	$ 306.25

Volumetric Charges
First 3,000 Gallons: Included in Customer Charge
From 3,000 to 15,000 Gallons: $ 2.35 per 1,000 Gallons
Over 15,000 Gallons: $ 2.55 per 1,000 Gallons

Alternative Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 12.25	$ (1.88)	-13%
3/4"	587	$ 14.13	$ 12.25	$ (1.88)	-13%
1"	911	$ 14.13	$ 12.25	$ (1.88)	-13%
1.5"	6	$ 14.13	$ 30.63	$ 16.50	117%

Alternative Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 16.95	$ (1.88)	-10%
3/4"	587	$ 18.83	$ 16.95	$ (1.88)	-10%
1"	911	$ 18.83	$ 16.95	$ (1.88)	-10%
1.5"	6	$ 18.83	$ 35.33	$ 16.50	88%

Alternative Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 28.70	$ (1.88)	-6%
3/4"	587	$ 30.58	$ 28.70	$ (1.88)	-6%
1"	911	$ 30.58	$ 28.70	$ (1.88)	-6%
1.5"	6	$ 30.58	$ 47.08	$ 16.50	54%

Alternative Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 28.70	$ (1.88)	-6%
3/4"	63	$ 30.58	$ 28.70	$ (1.88)	-6%
1"	183	$ 30.58	$ 28.70	$ (1.88)	-6%
1.5"	51	$ 30.58	$ 47.08	$ 16.50	54%
2"	122	$ 30.58	$ 65.45	$ 34.87	114%
3"	5	$ 30.58	$ 108.33	$ 77.75	254%
4"	13	$ 30.58	$ 169.58	$ 139.00	455%
6"	3	$ 30.58	$ 322.70	$ 292.12	955%

Alternative Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 79.70	$ (1.88)	-2%
3/4"	63	$ 81.58	$ 79.70	$ (1.88)	-2%
1"	183	$ 81.58	$ 79.70	$ (1.88)	-2%
1.5"	51	$ 81.58	$ 98.08	$ 16.50	20%
2"	122	$ 81.58	$ 116.45	$ 34.87	43%
3"	5	$ 81.58	$ 159.33	$ 77.75	95%
4"	13	$ 81.58	$ 220.58	$ 139.00	170%
6"	3	$ 81.58	$ 373.70	$ 292.12	358%

Alternative Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 16.45	$ (14.13)	-46%
3/4"	63	$ 30.58	$ 16.45	$ (14.13)	-46%
1"	183	$ 30.58	$ 16.45	$ (14.13)	-46%
1.5"	51	$ 30.58	$ 47.08	$ 16.50	54%
2"	122	$ 30.58	$ 65.45	$ 34.87	114%
3"	5	$ 30.58	$ 108.33	$ 77.75	254%
4"	13	$ 30.58	$ 169.58	$ 139.00	455%
6"	3	$ 30.58	$ 322.70	$ 292.12	955%

Alternative Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 63.45	$ (18.13)	-22%
3/4"	63	$ 81.58	$ 63.45	$ (18.13)	-22%
1"	183	$ 81.58	$ 63.45	$ (18.13)	-22%
1.5"	51	$ 81.58	$ 94.08	$ 12.50	15%
2"	122	$ 81.58	$ 112.45	$ 30.87	38%
3"	5	$ 81.58	$ 155.33	$ 73.75	90%
4"	13	$ 81.58	$ 216.58	$ 135.00	165%
6"	3	$ 81.58	$ 369.70	$ 288.12	353%

Other Alternative Rate Designs

There are two additional alternative rate designs, which can be found in Appendices E and F. The first, labeled Alternative 1 Water Rate Design, is a level increase to all rates currently being charged in order to capture the required revenue. Alternative Water Rate Design 1 retains Page Utility Enterprises' current practice of charging each customer class the same base and volumetric rates and would probably be the most simple to implement.

The second, Alternative 2 Water Rate Design, incorporates higher meter equivalencies to achieve higher fixed charges, a 40% of recovery in fixed charges, and caps the volumetric charges for irrigation customers at the second tier rate. In our opinion, this fixed recovery amount is reasonable, however; we would suggest a more gradual approach as reflected in our recommended modified meter ratios. The bill impacts of going straight to the AWWA equivalences would be significant for large meters although there would be reduction in cost for smaller and lower usage customers.

Appendix A: Water Revenue Requirement Projection

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study
Budget Projection - Water System

Category	Account	Description	2014-2015	Growth Factor	Budget Projection 2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	5,000	Inflation Rate	5,000	5,100	5,202	5,306	5,412
	51-452-2102	Uniforms	1,200	Inflation Rate	1,200	1,224	1,248	1,273	1,298
	51-452-2103	Safety Supplies	3,000	Inflation Rate	3,000	3,060	3,121	3,183	3,247
	51-452-2104	Clothing Allowance	1,200	Inflation Rate	1,200	1,224	1,248	1,273	1,298
	51-452-2115	Equipment Repair & Maintenance	25,000	Inflation Rate	25,000	25,500	26,010	26,530	27,061
	51-452-9210	Utilities	80,000	Growth/Inflation Rate	80,000	82,400	84,872	87,418	90,041
	51-452-2811	Water Sample Testing	6,000	Inflation Rate	6,000	6,120	6,242	6,367	6,494
	51-452-2860	Raw water	306,000	Growth/Inflation Rate	306,000	315,180	324,635	334,374	344,405
	51-452-2123	Polymer	32,000	Growth/Inflation Rate	32,000	32,960	33,949	34,967	36,016
	51-452-2124	Chlorine	7,000	Growth/Inflation Rate	7,000	7,210	7,426	7,649	7,878
	51-452-5813	WTP Vehicle Maintenance	2,000	Inflation Rate	2,000	2,040	2,081	2,123	2,165
		Total	**468,400**		**468,400**	**482,018**	**496,034**	**510,463**	**525,315**
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	20,000	Inflation Rate	20,000	20,400	20,808	21,224	21,648
	51-453-2102	Uniforms	1,200	Inflation Rate	1,200	1,224	1,248	1,273	1,298
	51-453-2103	Safety Supplies	2,000	Inflation Rate	2,000	2,040	2,081	2,123	2,165
	51-453-2104	Clothing Allowance	1,200	Inflation Rate	1,200	1,224	1,248	1,273	1,298
	51-453-2113	Pipe & Fittings	12,000	Inflation Rate	15,000	15,300	15,606	15,918	16,236
	51-453-2115	Equipment Repair & Maintenance	10,000	Inflation Rate	10,000	10,200	10,404	10,612	10,824
	51-453-5813	Water Distribn Vehicle Maintenance	6,000	Inflation Rate	6,000	6,120	6,242	6,367	6,494
	51-453-5814	Fuel	8,000	Inflation Rate	8,000	8,160	8,323	8,489	8,659
		Total	**60,400**		**63,400**	**64,668**	**65,960**	**67,279**	**68,622**
Personnel Services	51-452-8200	Water Treatment Plant Salaries	133,240	Inflation Rate	132,646	135,299	138,005	140,765	143,580
	51-453-8200	Water Distribution-Salaries	212,661	Inflation Rate	189,879	173,277	176,743	180,278	183,884
	51-453-8200	Water Distribution-Salaries (Cust.)	8,171	Inflation Rate	6,527	6,658	6,791	6,927	7,066
	51-500-8200	Admin/Engineering - Salaries	63,897	Inflation Rate	43,301	44,167	45,050	45,951	46,870
	51-500-8200	Admin/Engineering - Salaries (Cust.)	27,455	Inflation Rate	18,664	19,037	19,418	19,806	20,202
	51-500-8250	Pension Expense	46,205	Benefits Infl Rate	39,151	41,108	43,163	45,321	47,587
	51-500-8250	Pension Expense (Cust.)	4,018	Benefits Infl Rate	3,404.40	3,575	3,754	3,942	4,139
	51-500-8230	Workmen's Comp	12,126	Inflation Rate	13,800	14,076	14,358	14,645	14,938
	51-500-8230	Workmen's Comp (Cust.)	1,054	Inflation Rate	1,200	1,224	1,248	1,273	1,298
	51-500-8240	Health Insurance	84,601	Benefits Infl Rate	84,640	88,872	93,316	97,982	102,881
	51-500-8240	Health Insurance (Cust.)	7,357	Benefits Infl Rate	7,360	7,728	8,114	8,520	8,946
	51-500-8220	FICA Expense	30,630	Inflation Rate	26,119	26,641	27,174	27,717	28,271
	51-500-8220	FICA Expense (Cust.)	2,664	Inflation Rate	2,271.20	2,317	2,363	2,410	2,458
	51-500-8260	State Unemployment Insurance	1,313	Inflation Rate	1,380	1,408	1,436	1,465	1,494
	51-500-8260	State Unemployment Insurance (Cust.)	114	Inflation Rate	120	122	124	126	129
		Total	**635,306**		**550,462**	**565,509**	**581,057**	**597,128**	**613,743**
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Memberships	600	Inflation Rate	600	612	624	636	649
	51-453-9215	Publications, Subscriptions & Memberships	10,500	Inflation Rate	10,500	10,710	10,924	11,142	11,365
	51-500-9216	Postage	8,000	Inflation Rate	8,000	8,160	8,323	8,489	8,659
	51-500-9211	Cell Phone	1,000	Inflation Rate	1,000	1,020	1,040	1,061	1,082
	51-500-9400	Insurance	44,000	Inflation Rate	44,000	44,880	45,778	46,694	47,628
	51-452-9214	Travel, Meals Training	3,000	Inflation Rate	3,000	3,060	3,121	3,183	3,247
	51-453-9214	Travel, Meals Training	2,500	Inflation Rate	2,500	2,550	2,601	2,653	2,706
	51-500-9600	Provision for Bad Debts	1,000	Inflation Rate	1,000	1,020	1,040	1,061	1,082
		Loss on disposal of fixed assets	-	Inflation Rate	-	-	-	-	-
		Capital equipment	-	Inflation Rate	-	-	-	-	-
		Debt Service Payment	-	Inflation Rate	-	-	-	-	-
	51-500-9590	Sales Tax Expense	500	Inflation Rate	500	510	520	530	541
	51-452-9200	Printing & Binding	1,000	Inflation Rate	1,000	1,020	1,040	1,061	1,082
	51-453-9200	Printing & Binding	3,000	Inflation Rate	3,000	3,060	3,121	3,183	3,247
		Total	**75,100**		**75,100**	**76,602**	**78,132**	**79,693**	**81,288**
Outside Services	51-452-2940	Security Cameras	2,500	Inflation Rate	2,500	2,550	2,601	2,653	2,706
		Garbage Collection		As Calculated	6,000	6,000	6,000	6,000	6,000
		ADEQ Water Permits		As Calculated	10,000	10,000	10,000	10,000	10,000
		Water Line Replacement	-	Inflation Rate	-	-	-	-	-
		Water Meter Replacement	-	Inflation Rate	-	-	-	-	-
		Fire Hydrant Replacement	-	Inflation Rate	-	-	-	-	-
		Outside Services- Legal	7,500	Inflation Rate	7,500	7,650	7,803	7,959	8,118
		Outside Services-Audit	2,500	Inflation Rate	2,500	2,550	2,601	2,653	2,706
	51-453-9340	Contract Services	5,000	Inflation Rate	5,000	5,100	5,202	5,306	5,412
		Total	**17,500**		**33,500**	**33,850**	**34,207**	**34,571**	**34,942**
Misc. Expenses	51-453-9520	Interest Expense	-	Inflation Rate	-	-	-	-	-
		Total	**-**		**-**	**-**	**-**	**-**	**-**
Capital Replacements/ Additions	51-000-3620	Water Line Replacement	585,000	As Calculated	585,000	-	-	-	-
		Water Meter Replacement	12,000	Inflation Rate	12,000	12,240	12,485	12,735	12,990
		Fire Hydrants	5,000	Inflation Rate	-	-	-	-	-
		Building/Capital Improvements	100,000	Inflation Rate	20,000	20,400	20,808	21,224	21,648
		Capital Equipment	5,000	Inflation Rate	-	-	-	-	-
		Other	-	As Calculated	-	127,000	129,540	132,131	598,797
		Water Tank	-	As Calculated	-	466,667	466,667	466,667	-
		Total	**707,000**		**617,000**	**626,307**	**629,500**	**632,757**	**633,435**
Total Water Budget			**1,963,706**		**1,807,862**	**1,848,954**	**1,884,890**	**1,921,891**	**1,957,345**
Other Revenues - Water			63,000	Growth/Inflation Rate	64,890	66,837	68,842	70,907	73,034
Revenue Requirement			**1,900,706**		**1,742,972**	**1,782,117**	**1,816,048**	**1,850,984**	**1,884,311**

Calculation of Growth Factor	
Demand Growth	1.00%
Inflation Rate	2.00%
Growth/Inflation Rate	3.00%
Benefits Infl Rate	5.00%

Appendix B: Water Functionalization and Allocation

Page Utility Enterprises - 2015 Water/ Sewer COS & Rate Design Study
FY 2015 Water Budget Projection

					Functionalization					Rate Class Allocations											
										Residential				Commercial				Irrigation			
Category	Account	Description	Budget	Functionalization	Max Hour	Max Day	Base	Cust	Class Allocation	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,000	Max Day	$ -	$ 2,368	$ 2,632	$ -	Max Day	$ -	$ 1,666	$ 1,851	$ -	$ -	$ 569	$ 633	$ -	$ -	$ 133	$ 148	$ -
	51-452-2102	Uniforms	1,200	Max Day	-	568	632	-	Max Day	-	400	444	-	-	137	152	-	-	32	35	-
	51-452-2103	Safety Supplies	3,000	Max Day	-	1,421	1,579	-	Max Day	-	1,000	1,111	-	-	342	380	-	-	80	89	-
	51-452-2104	Clothing Allowance	1,200	Max Day	-	568	632	-	Max Day	-	400	444	-	-	137	152	-	-	32	35	-
	51-452-2115	Equipment Repair & Maintenance	25,000	Max Day	-	11,842	13,158	-	Max Day	-	8,331	9,257	-	-	2,846	3,163	-	-	664	738	-
	51-452-9210	Utilities	80,000	Max Day	-	37,895	42,105	-	Max Day	-	26,660	29,623	-	-	9,108	10,120	-	-	2,126	2,362	-
	51-452-2811	Water Sample Testing	6,000	Max Day	-	2,842	3,158	-	Max Day	-	2,000	2,222	-	-	683	759	-	-	159	177	-
	51-452-2860	Raw water	306,000	Base	-	-	306,000	-	Base	-	-	130,142	-	-	-	114,641	-	-	-	61,217	-
	51-452-2123	Polymer	32,000	Base	-	-	32,000	-	Base	-	-	13,610	-	-	-	11,989	-	-	-	6,402	-
	51-452-2124	Chlorine	7,000	Base	-	-	7,000	-	Base	-	-	2,977	-	-	-	2,623	-	-	-	1,400	-
	51-452-5813	WTP Vehicle Maintenance	2,000	Max Day	-	947	1,053	-	Max Day	-	667	741	-	-	228	253	-	-	53	59	-
		Total	$ 468,400		$ -	$ 58,453	$ 409,947	$ -		$ -	$ 41,124	$ 192,422	$ -	$ -	$ 14,049	$ 144,853	$ -	$ -	$ 3,280	$ 72,663	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 20,000	Max Hour	$ 6,429	$ 6,429	$ 7,143	$ -	Max Hour	$ 3,846	$ 3,846	$ 4,273	$ -	$ 2,059	$ 2,059	$ 2,288	$ -	$ 524	$ 524	$ 582	$ -
	51-453-2102	Uniforms	1,200	Max Hour	386	386	429	-	Max Hour	231	231	256	-	124	124	137	-	31	31	35	-
	51-453-2103	Safety Supplies	2,000	Max Hour	643	643	714	-	Max Hour	385	385	427	-	206	206	229	-	52	52	58	-
	51-453-2104	Clothing Allowance	1,200	Max Hour	386	386	429	-	Max Hour	231	231	256	-	124	124	137	-	31	31	35	-
	51-453-2113	Pipe & Fittings	12,000	Max Hour	3,857	3,857	4,286	-	Max Hour	2,307	2,307	2,564	-	1,235	1,235	1,373	-	314	314	349	-
	51-453-2115	Equipment Repair & Maintenance	10,000	Max Hour	3,214	3,214	3,571	-	Max Hour	1,923	1,923	2,136	-	1,029	1,029	1,144	-	262	262	291	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,000	Max Hour	1,929	1,929	2,143	-	Max Hour	1,154	1,154	1,282	-	618	618	686	-	157	157	175	-
	51-453-5814	Fuel	8,000	Max Hour	2,571	2,571	2,857	-	Max Hour	1,538	1,538	1,709	-	824	824	915	-	210	210	233	-
		Total	$ 60,400		$ 19,414	$ 19,414	$ 21,571	$ -		$ 11,613	$ 11,613	$ 12,904	$ -	$ 6,218	$ 6,218	$ 6,909	$ -	$ 1,583	$ 1,583	$ 1,759	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 133,240	Treatment	$ -	$ 16,627	$ 116,613	$ -	Treatment	$ -	$ 8,290	$ 58,143	$ -	$ -	$ 5,641	$ 39,563	$ -	$ -	$ 2,696	$ 18,907	$ -
	51-453-8200	Water Distribution-Salaries	212,661	Distribution	68,355	68,355	75,950	-	Distribution	40,889	40,889	45,433	-	21,893	21,893	24,325	-	5,573	5,573	6,193	-
	51-453-8200	Water Distribution-Salaries (Cust.)	8,171	Customer	-	-	-	8,171	Customer	-	-	-	6,609	-	-	-	1,311	-	-	-	251
	51-500-8200	Admin/Engineering - Salaries	63,697	Treat/Distr	2,441	9,442	51,814	-	Treat/Distr	1,246	4,820	26,450	-	823	3,182	17,461	-	372	1,440	7,903	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	27,455	Customer	-	-	-	27,455	Customer	-	-	-	22,208	-	-	-	4,405	-	-	-	842
	51-500-8250	Pension Expense	46,205	Treat/Distr	1,771	6,849	37,585	-	Treat/Distr	904	3,496	19,186	-	597	2,308	12,666	-	270	1,045	5,733	-
	51-500-8250	Pension Expense (Cust.)	4,018	Customer	-	-	-	4,018	Customer	-	-	-	3,250	-	-	-	645	-	-	-	123
	51-500-8230	Workmen's Comp	12,126	Treat/Distr	465	1,797	9,864	-	Treat/Distr	237	918	5,035	-	157	606	3,324	-	71	274	1,504	-
	51-500-8230	Workmen's Comp (Cust.)	1,054	Customer	-	-	-	1,054	Customer	-	-	-	853	-	-	-	169	-	-	-	32
	51-500-8240	Health Insurance	84,601	Treat/Distr	3,242	12,541	68,819	-	Treat/Distr	1,655	6,402	35,130	-	1,093	4,226	23,192	-	494	1,913	10,496	-
	51-500-8240	Health Insurance (Cust.)	7,357	Customer	-	-	-	7,357	Customer	-	-	-	5,951	-	-	-	1,180	-	-	-	226
	51-500-8220	FICA Expense	30,630	Treat/Distr	1,174	4,540	24,916	-	Treat/Distr	599	2,318	12,719	-	396	1,530	8,397	-	179	693	3,800	-
	51-500-8220	FICA Expense (Cust.)	2,664	Customer	-	-	-	2,664	Customer	-	-	-	2,154	-	-	-	427	-	-	-	82
	51-500-8260	State Unemployment Insurance	1,313	Treat/Distr	50	195	1,068	-	Treat/Distr	26	99	545	-	17	66	360	-	8	30	163	-
	51-500-8260	State Unemployment Insurance (Cust.)	114	Customer	-	-	-	114	Customer	-	-	-	92	-	-	-	18	-	-	-	4
		Total	$ 635,306		$ 77,487	$ 120,347	$ 388,629	$ 50,832		$ 45,556	$ 67,233	$ 202,642	$ 41,118	$ 24,973	$ 39,452	$ 129,288	$ 8,155	$ 6,968	$ 13,663	$ 54,699	$ 1,659
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 600	Treat/Distr/Per	$ 46	$ 100	$ 432	$ 22	Treat/Distr/Per	$ 25	$ 54	$ 230	$ 12	$ 15	$ 33	$ 142	$ 7	$ 6	$ 14	$ 60	$ 3
	51-453-9215	Publications, Subscriptions & Members	10,500	Treat/Distr/Per	805	1,755	7,557	384	Treat/Distr/Per	430	937	4,033	205	264	576	2,480	126	111	242	1,044	53
	51-500-9216	Postage	8,000	Customer	-	-	-	8,000	Customer	-	-	-	6,471	-	-	-	1,283	-	-	-	245
	51-500-9211	Cell Phone	1,000	Treat/Distr/Per	77	167	720	37	Treat/Distr/Per	41	89	384	20	25	55	236	12	11	23	99	5
	51-500-9400	Insurance	44,000	Treat/Distr/Per	3,373	7,354	31,665	1,608	Treat/Distr/Per	1,800	3,925	16,900	858	1,107	2,414	10,393	528	466	1,016	4,373	222
	51-452-9214	Travel, Meals Training	3,000	Treat/Distr/Per	230	501	2,159	110	Treat/Distr/Per	123	268	1,152	59	75	165	709	36	32	69	298	15
	51-453-9214	Travel, Meals Training	2,500	Treat/Distr/Per	192	418	1,799	91	Treat/Distr/Per	102	223	960	49	63	137	590	30	26	58	248	13
	51-500-9600	Provision for Bad Debts	1,000	Customer	-	-	-	1,000	Customer	-	-	-	809	-	-	-	160	-	-	-	31
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9590	Sales Tax Expense	500	Treat/Distr/Per	38	84	360	18	Treat/Distr/Per	20	45	192	10	13	27	118	6	5	12	50	3
	51-452-9200	Printing & Binding	1,000	Customer	-	-	-	1,000	Customer	-	-	-	809	-	-	-	160	-	-	-	31
	51-453-9200	Printing & Binding	3,000	Customer	-	-	-	3,000	Customer	-	-	-	2,427	-	-	-	481	-	-	-	92
		Total	$ 75,100		$ 4,761	$ 10,379	$ 44,691	$ 15,269		$ 2,541	$ 5,539	$ 23,851	$ 11,727	$ 1,562	$ 3,406	$ 14,668	$ 2,830	$ 657	$ 1,433	$ 6,172	$ 712
Outside Services	51-452-2840	Security Cameras	$ 2,500	Treat/Distr/Per/AG	$ 190	$ 413	$ 1,779	$ 118	Treat/Distr/Per/AG	$ 102	$ 222	$ 955	$ 64	$ 62	$ 135	$ 581	$ 39	$ 26	$ 57	$ 244	$ 16
		Garbage Collection	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		ADEQ Water Permits	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services Legal	7,500	Treat/Distr/Per/AG	569	1,239	5,337	355	Treat/Distr/Per/AG	305	665	2,865	191	186	404	1,742	116	78	170	731	49
		Outside Services Audit	2,500	Treat/Distr/Per/AG	190	413	1,779	118	Treat/Distr/Per/AG	102	222	955	64	62	135	581	39	26	57	244	16
	51-453-9340	Contract Services	5,000	Treat/Distr/Per/AG	379	826	3,558	237	Treat/Distr/Per/AG	203	444	1,910	127	124	270	1,161	77	52	113	487	32
		Total	$ 17,500		$ 1,327	$ 2,892	$ 12,453	$ 829		$ 712	$ 1,552	$ 6,684	$ 446	$ 433	$ 944	$ 4,064	$ 270	$ 182	$ 396	$ 1,705	$ 113
Misc. Expenses	51-453-9520	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ 585,000	Treat/Distr/Per/AG	$ 44,343	$ 96,673	$ 416,276	$ 27,707	Treat/Distr/Per/AG	$ 23,803	$ 51,893	$ 223,450	$ 14,873	$ 14,470	$ 31,546	$ 135,838	$ 9,041	$ 6,071	$ 13,234	$ 56,988	$ 3,793
		Water Meter Replacement	12,000	Treat/Distr/Per/AG	910	1,983	8,539	568	Treat/Distr/Per/AG	488	1,064	4,584	305	297	647	2,786	185	125	271	1,169	78
		Fire Hydrants	5,000	Treat/Distr/Per/AG	379	826	3,558	237	Treat/Distr/Per/AG	203	444	1,910	127	124	270	1,161	77	52	113	487	32
		Building/Capital Improvements	100,000	Treat/Distr/Per/AG	7,580	16,525	71,158	4,736	Treat/Distr/Per/AG	4,069	8,871	38,197	2,542	2,474	5,393	23,220	1,546	1,038	2,262	9,741	648
		Capital Equipment	5,000	Treat/Distr/Per/AG	379	826	3,558	237	Treat/Distr/Per/AG	203	444	1,910	127	124	270	1,161	77	52	113	487	32
		Other	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Water Tank	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Total	$ 707,000		$ 53,591	$ 116,834	$ 503,090	$ 33,485		$ 28,767	$ 62,715	$ 270,050	$ 17,974	$ 17,488	$ 38,125	$ 164,167	$ 10,927	$ 7,337	$ 15,994	$ 68,872	$ 4,584
Total Water Budget			$ 1,963,706		$ 156,580	$ 328,319	$ 1,378,081	$ 100,416		$ 89,189	$ 189,776	$ 708,554	$ 71,263	$ 50,674	$ 102,194	$ 463,958	$ 22,183	$ 16,726	$ 36,349	$ 205,869	$ 6,969
Less: Water Revenue			63,000	Treat/Distr/Per/AG	4,765	10,411	44,830	2,994	Other Revenues	3,989	8,688	37,410	2,690	700	1,723	7,420	494				
Revenue Requirement			$ 1,900,706		$ 151,815	$ 317,908	$ 1,333,251	$ 97,432		$ 85,204	$ 181,088	$ 671,144	$ 68,573	$ 49,984	$ 100,471	$ 456,538	$ 21,689	$ 16,726	$ 36,349	$ 205,869	$ 6,969

Page Utility Enterprises - 2015 Water/ Sewer COS & Rate Design Study
FY 2016 Water Budget Projection

Category	Account	Description	Budget	Functionalization	Functionalization: Max Hour	Functionalization: Max Day	Functionalization: Base	Functionalization: Cust	Class Allocation	Rate Class Allocations – Residential: Max Hour	Residential: Max Day	Residential: Base	Residential: Cust	Commercial: Max Hour	Commercial: Max Day	Commercial: Base	Commercial: Cust	Irrigation: Max Hour	Irrigation: Max Day	Irrigation: Base	Irrigation: Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,000	Max Day	$ -	$ 2,368	$ 2,632	$ -	Max Day	$ -	$ 1,666	$ 1,851	$ -	$ -	$ 569	$ 633	$ -	$ -	$ 133	$ 148	$ -
	51-452-2102	Uniforms	1,200	Max Day	-	568	632	-	Max Day	-	400	444	-	-	137	152	-	-	32	35	-
	51-452-2103	Safety Supplies	3,000	Max Day	-	1,421	1,579	-	Max Day	-	1,000	1,111	-	-	342	380	-	-	80	89	-
	51-452-2104	Clothing Allowance	1,200	Max Day	-	568	632	-	Max Day	-	400	444	-	-	137	152	-	-	32	35	-
	51-452-2115	Equipment Repair & Maintenance	25,000	Max Day	-	11,842	13,158	-	Max Day	-	8,331	9,257	-	-	2,846	3,163	-	-	664	738	-
	51-452-9210	Utilities	80,000	Max Day	-	37,895	42,105	-	Max Day	-	26,660	29,623	-	-	9,108	10,120	-	-	2,126	2,362	-
	51-452-2811	Water Sample Testing	6,000	Max Day	-	2,842	3,158	-	Max Day	-	2,000	2,222	-	-	683	759	-	-	159	177	-
	51-452-2860	Raw water	306,000	Base	-	-	306,000	-	Base	-	-	130,142	-	-	-	114,641	-	-	-	61,217	-
	51-452-2123	Polymer	32,000	Base	-	-	32,000	-	Base	-	-	13,610	-	-	-	11,989	-	-	-	6,402	-
	51-452-2124	Chlorine	7,000	Base	-	-	7,000	-	Base	-	-	2,977	-	-	-	2,623	-	-	-	1,400	-
	51-452-5813	WTP Vehicle Maintenance	2,000	Max Day	-	947	1,053	-	Max Day	-	667	741	-	-	228	253	-	-	53	59	-
		Total	$ 468,400		$ -	$ 58,450	$ 409,947	$ -		$ -	$ 41,124	$ 192,422	$ -	$ -	$ 14,049	$ 144,950	$ -	$ -	$ 3,290	$ 72,663	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 20,000	Max Hour	$ 6,429	$ 6,429	$ 7,143	$ -	Max Hour	$ 3,846	$ 3,846	$ 4,273	$ -	$ 2,059	$ 2,059	$ 2,288	$ -	$ 524	$ 524	$ 582	$ -
	51-453-2102	Uniforms	1,200	Max Hour	386	386	429	-	Max Hour	231	231	256	-	124	124	137	-	31	31	35	-
	51-453-2103	Safety Supplies	2,000	Max Hour	643	643	714	-	Max Hour	385	385	427	-	206	206	229	-	52	52	58	-
	51-453-2104	Clothing Allowance	1,200	Max Hour	386	386	429	-	Max Hour	231	231	256	-	124	124	137	-	31	31	35	-
	51-453-2113	Pipe & Fittings	15,000	Max Hour	4,821	4,821	5,357	-	Max Hour	2,884	2,884	3,205	-	1,544	1,544	1,716	-	393	393	437	-
	51-453-2115	Equipment Repair & Maintenance	10,000	Max Hour	3,214	3,214	3,571	-	Max Hour	1,923	1,923	2,136	-	1,029	1,029	1,144	-	262	262	291	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,000	Max Hour	1,929	1,929	2,143	-	Max Hour	1,154	1,154	1,282	-	618	618	686	-	157	157	175	-
	51-453-5814	Fuel	8,000	Max Hour	2,571	2,571	2,857	-	Max Hour	1,538	1,538	1,709	-	824	824	915	-	210	210	233	-
		Total	$ 63,400		$ 20,379	$ 20,379	$ 22,643	$ -		$ 12,190	$ 12,190	$ 13,545	$ -	$ 6,527	$ 6,527	$ 7,252	$ -	$ 1,662	$ 1,662	$ 1,846	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 132,646	Treatment	$ -	$ 16,553	$ 116,093	$ -	Treatment	$ -	$ 8,253	$ 57,884	$ -	$ -	$ 5,616	$ 39,386	$ -	$ -	$ 2,684	$ 18,822	$ -
	51-453-8200	Water Distribution-Salaries	169,879	Distribution	54,604	54,604	60,671	-	Distribution	32,664	32,664	36,293	-	17,488	17,488	19,431	-	4,452	4,452	4,947	-
	51-453-8200	Water Distribution-Salaries (Cust.)	6,527	Customer	-	-	-	6,527	Customer	-	-	-	5,280	-	-	-	1,047	-	-	-	200
	51-500-8200	Admin/Engineering - Salaries	43,301	Treat/Distr	1,659	6,419	35,223	-	Treat/Distr	847	3,277	17,981	-	559	2,163	11,870	-	253	979	5,372	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	18,664	Customer	-	-	-	18,664	Customer	-	-	-	15,097	-	-	-	2,994	-	-	-	573
	51-500-8250	Pension Expense	39,151	Treat/Distr	1,500	5,803	31,847	-	Treat/Distr	766	2,963	16,257	-	506	1,956	10,732	-	229	885	4,857	-
	51-500-8250	Pension Expense (Cust.)	3,404	Customer	-	-	-	3,404	Customer	-	-	-	2,754	-	-	-	546	-	-	-	104
	51-500-8230	Workmen's Comp	13,800	Treat/Distr	529	2,046	11,226	-	Treat/Distr	270	1,044	5,730	-	178	689	3,783	-	81	312	1,712	-
	51-500-8230	Workmen's Comp (Cust.)	1,200	Customer	-	-	-	1,200	Customer	-	-	-	971	-	-	-	193	-	-	-	37
	51-500-8240	Health Insurance	84,640	Treat/Distr	3,243	12,547	68,850	-	Treat/Distr	1,656	6,405	35,146	-	1,093	4,228	23,203	-	495	1,914	10,501	-
	51-500-8240	Health Insurance (Cust.)	7,360	Customer	-	-	-	7,360	Customer	-	-	-	5,953	-	-	-	1,181	-	-	-	226
	51-500-8220	FICA Expense	26,119	Treat/Distr	1,001	3,872	21,246	-	Treat/Distr	511	1,976	10,846	-	337	1,305	7,160	-	153	591	3,241	-
	51-500-8220	FICA Expense (Cust.)	2,271	Customer	-	-	-	2,271	Customer	-	-	-	1,837	-	-	-	364	-	-	-	70
	51-500-8260	State Unemployment Insurance	1,380	Treat/Distr	53	205	1,123	-	Treat/Distr	27	104	573	-	18	69	378	-	8	31	171	-
	51-500-8260	State Unemployment Insurance (Cust.)	120	Customer	-	-	-	120	Customer	-	-	-	97	-	-	-	19	-	-	-	4
		Total	$ 550,462		$ 62,589	$ 102,048	$ 346,278	$ 39,546		$ 36,740	$ 56,686	$ 180,710	$ 31,989	$ 20,179	$ 33,514	$ 115,944	$ 6,345	$ 5,670	$ 11,847	$ 49,624	$ 1,213
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 600	Treat/Distr/Per	$ 46	$ 100	$ 432	$ 22	Treat/Distr/Per	$ 25	$ 54	$ 230	$ 12	$ 15	$ 33	$ 142	$ 7	$ 6	$ 14	$ 60	$ 3
	51-453-9215	Publications, Subscriptions & Members	10,500	Treat/Distr/Per	805	1,755	7,557	384	Treat/Distr/Per	430	937	4,033	205	264	576	2,480	126	111	242	1,044	53
	51-500-9216	Postage	8,000	Customer	-	-	-	8,000	Customer	-	-	-	6,471	-	-	-	1,283	-	-	-	245
	51-500-9211	Cell Phone	1,000	Treat/Distr/Per	77	167	720	37	Treat/Distr/Per	41	89	384	20	25	55	236	12	11	23	99	5
	51-500-9400	Insurance	44,000	Treat/Distr/Per	3,373	7,354	31,665	1,608	Treat/Distr/Per	1,800	3,925	16,900	858	1,107	2,414	10,393	528	466	1,016	4,373	222
	51-452-9214	Travel, Meals Training	3,000	Treat/Distr/Per	230	501	2,159	110	Treat/Distr/Per	123	268	1,152	59	75	165	709	36	32	69	298	15
	51-453-9214	Travel, Meals Training	2,500	Treat/Distr/Per	192	418	1,799	91	Treat/Distr/Per	102	223	960	49	63	137	590	30	26	58	248	13
	51-500-9600	Provision for Bad Debts	1,000	Customer	-	-	-	1,000	Customer	-	-	-	809	-	-	-	160	-	-	-	31
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9690	Sales Tax Expense	500	Treat/Distr/Per	38	84	360	18	Treat/Distr/Per	20	45	192	10	13	27	118	6	5	12	50	3
	51-452-9200	Printing & Binding	1,000	Customer	-	-	-	1,000	Customer	-	-	-	809	-	-	-	160	-	-	-	31
	51-453-9200	Printing & Binding	3,000	Customer	-	-	-	3,000	Customer	-	-	-	2,427	-	-	-	481	-	-	-	92
		Total	$ 75,100		$ 4,761	$ 10,379	$ 44,691	$ 15,269		$ 2,541	$ 5,539	$ 23,851	$ 11,727	$ 1,562	$ 3,406	$ 14,668	$ 2,830	$ 657	$ 1,433	$ 6,172	$ 712
Outside Services	51-452-2840	Security Cameras	$ 2,500	Treat/Distr/Per/AG	$ 190	$ 413	$ 1,779	$ 118	Treat/Distr/Per/AG	$ 102	$ 222	$ 955	$ 64	$ 62	$ 135	$ 581	$ 39	$ 26	$ 57	$ 244	$ 16
		Garbage Collection	$ 6,000	Treat/Distr/Per/AG	$ 455	$ 992	$ 4,270	$ 284	Treat/Distr/Per/AG	$ 244	$ 532	$ 2,292	$ 153	$ 148	$ 324	$ 1,393	$ 93	$ 62	$ 136	$ 584	$ 39
		ADEQ Water Permits	$ 10,000	Treat/Distr/Per/AG	$ 758	$ 1,653	$ 7,116	$ 474	Treat/Distr/Per/AG	$ 407	$ 887	$ 3,820	$ 254	$ 247	$ 539	$ 2,322	$ 155	$ 104	$ 226	$ 974	$ 65
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services- Legal	7,500	Treat/Distr/Per/AG	569	1,239	5,337	355	Treat/Distr/Per/AG	305	665	2,865	191	186	404	1,742	116	78	170	731	49
		Outside Services-Audit	2,500	Treat/Distr/Per/AG	190	413	1,779	118	Treat/Distr/Per/AG	102	222	955	64	62	135	581	39	26	57	244	16
	51-453-9340	Contract Services	5,000	Treat/Distr/Per/AG	379	826	3,558	237	Treat/Distr/Per/AG	203	444	1,910	127	124	270	1,161	77	52	113	487	32
		Total	$ 33,500		$ 2,539	$ 5,536	$ 23,838	$ 1,587		$ 1,363	$ 2,972	$ 12,796	$ 852	$ 829	$ 1,808	$ 7,779	$ 518	$ 348	$ 758	$ 3,263	$ 217
Misc. Expenses	51-453-9620	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ 585,000	Treat/Distr/Per/AG	$ 44,343	$ 96,673	$ 416,276	$ 27,707	Treat/Distr/Per/AG	$ 23,803	$ 51,893	$ 223,450	$ 14,873	$ 14,470	$ 31,546	$ 135,838	$ 9,041	$ 6,071	$ 13,234	$ 56,988	$ 3,793
		Water Meter Replacement	12,000	Treat/Distr/Per/AG	910	1,983	8,539	568	Treat/Distr/Per/AG	488	1,064	4,584	305	297	647	2,786	185	125	271	1,169	78
		Fire Hydrants	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Building/Capital Improvements	20,000	Treat/Distr/Per/AG	1,516	3,305	14,232	947	Treat/Distr/Per/AG	814	1,774	7,639	508	495	1,079	4,644	309	208	452	1,948	130
		Capital Equipment	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Other	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Water Tank	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Total	$ 617,000		$ 46,769	$ 101,961	$ 439,047	$ 29,223		$ 25,105	$ 54,731	$ 235,673	$ 15,686	$ 15,262	$ 33,272	$ 143,269	$ 9,536	$ 6,403	$ 13,958	$ 60,105	$ 4,001
Total Water Budget			$ 1,807,862		$ 137,037	$ 298,756	$ 1,286,445	$ 85,625		$ 77,509	$ 173,242	$ 658,997	$ 60,253	$ 44,259	$ 92,575	$ 433,775	$ 19,229	$ 14,739	$ 32,508	$ 150,673	$ 6,143
Less: Water Revenue			64,890	Treat/Distr/Per/AG	4,919	10,723	46,175	3,073	Other Revenues	4,105	9,948	38,532	2,565	814	1,775	7,643	509				
Revenue Requirement			$ 1,742,972		$ 132,118	$ 288,032	$ 1,240,270	$ 82,552		$ 73,404	$ 164,250	$ 620,465	$ 57,688	$ 43,545	$ 90,800	$ 426,132	$ 18,720	$ 14,739	$ 32,508	$ 150,673	$ 6,143

Page Utility Enterprises - 2015 Water/ Sewer COS & Rate Design Study
FY 2017 Water Budget Projection

Category	Account	Description	Budget	Functionalization	Functionalization: Max Hour	Functionalization: Max Day	Functionalization: Base	Functionalization: Cust	Class Allocation	Rate Class Allocations – Residential: Max Hour	Residential: Max Day	Residential: Base	Residential: Cust	Commercial: Max Hour	Commercial: Max Day	Commercial: Base	Commercial: Cust	Irrigation: Max Hour	Irrigation: Max Day	Irrigation: Base	Irrigation: Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,100	Max Day	$ -	$ 2,416	$ 2,684	$ -	Max Day	$ -	$ 1,700	$ 1,888	$ -	$ -	$ 581	$ 645	$ -	$ -	$ 136	$ 151	$ -
	51-452-2102	Uniforms	1,224	Max Day	-	580	644	-	Max Day	-	408	453	-	-	139	155	-	-	33	36	-
	51-452-2103	Safety Supplies	3,060	Max Day	-	1,449	1,611	-	Max Day	-	1,020	1,133	-	-	348	387	-	-	81	90	-
	51-452-2104	Clothing Allowance	1,224	Max Day	-	580	644	-	Max Day	-	408	453	-	-	139	155	-	-	33	36	-
	51-452-2115	Equipment Repair & Maintenance	25,500	Max Day	-	12,079	13,421	-	Max Day	-	8,498	9,442	-	-	2,903	3,226	-	-	678	753	-
	51-452-9210	Utilities	82,400	Max Day	-	39,032	43,368	-	Max Day	-	27,460	30,511	-	-	9,381	10,424	-	-	2,190	2,433	-
	51-452-2811	Water Sample Testing	6,120	Max Day	-	2,899	3,221	-	Max Day	-	2,040	2,266	-	-	697	774	-	-	163	181	-
	51-452-2860	Raw water	315,180	Base	-	-	315,180	-	Base	-	-	134,047	-	-	-	118,080	-	-	-	63,053	-
	51-452-2123	Polymer	32,960	Base	-	-	32,960	-	Base	-	-	14,018	-	-	-	12,348	-	-	-	6,594	-
	51-452-2124	Chlorine	7,210	Base	-	-	7,210	-	Base	-	-	3,066	-	-	-	2,701	-	-	-	1,442	-
	51-452-5813	WTP Vehicle Maintenance	2,040	Max Day	-	966	1,074	-	Max Day	-	680	755	-	-	232	258	-	-	54	60	-
		Total	$ 482,018		$ -	$ 60,001	$ 422,017	$ -		$ -	$ 42,213	$ 186,034	$ -	$ -	$ 14,422	$ 149,154	$ -	$ -	$ 3,366	$ 74,830	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 20,400	Max Hour	$ 6,557	$ 6,557	$ 7,286	$ -	Max Hour	$ 3,922	$ 3,922	$ 4,358	$ -	$ 2,100	$ 2,100	$ 2,333	$ -	$ 535	$ 535	$ 594	$ -
	51-453-2102	Uniforms	1,224	Max Hour	393	393	437	-	Max Hour	235	235	261	-	126	126	140	-	32	32	36	-
	51-453-2103	Safety Supplies	2,040	Max Hour	656	656	729	-	Max Hour	392	392	436	-	210	210	233	-	53	53	59	-
	51-453-2104	Clothing Allowance	1,224	Max Hour	393	393	437	-	Max Hour	235	235	261	-	126	126	140	-	32	32	36	-
	51-453-2113	Pipe & Fittings	15,300	Max Hour	4,918	4,918	5,464	-	Max Hour	2,942	2,942	3,269	-	1,575	1,575	1,750	-	401	401	446	-
	51-453-2115	Equipment Repair & Maintenance	10,200	Max Hour	3,279	3,279	3,643	-	Max Hour	1,961	1,961	2,179	-	1,050	1,050	1,167	-	267	267	297	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,120	Max Hour	1,967	1,967	2,186	-	Max Hour	1,177	1,177	1,307	-	630	630	700	-	160	160	178	-
	51-453-5814	Fuel	8,160	Max Hour	2,623	2,623	2,914	-	Max Hour	1,569	1,569	1,743	-	840	840	933	-	214	214	238	-
		Total	$ 64,668		$ 20,786	$ 20,786	$ 23,096	$ -		$ 12,434	$ 12,434	$ 13,816	$ -	$ 6,657	$ 6,657	$ 7,397	$ -	$ 1,695	$ 1,695	$ 1,883	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 135,299	Treatment	$ -	$ 16,884	$ 118,415	$ -	Treatment	$ -	$ 8,419	$ 59,042	$ -	$ -	$ 5,728	$ 40,174	$ -	$ -	$ 2,737	$ 19,199	$ -
	51-453-8200	Water Distribution-Salaries	173,277	Distribution	55,696	55,696	61,885	-	Distribution	33,317	33,317	37,019	-	17,838	17,838	19,820	-	4,541	4,541	5,046	-
	51-453-8200	Water Distribution-Salaries (Cust.)	6,658	Customer	-	-	-	6,658	Customer	-	-	-	5,386	-	-	-	1,068	-	-	-	204
	51-500-8200	Admin/Engineering - Salaries	44,167	Treat/Distr	1,692	6,547	35,927	-	Treat/Distr	864	3,342	18,340	-	570	2,206	12,108	-	258	999	5,480	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	19,037	Customer	-	-	-	19,037	Customer	-	-	-	15,399	-	-	-	3,054	-	-	-	584
	51-500-8250	Pension Expense	41,108	Treat/Distr	1,575	6,094	33,439	-	Treat/Distr	804	3,111	17,070	-	531	2,054	11,269	-	240	929	5,100	-
	51-500-8250	Pension Expense (Cust.)	3,575	Customer	-	-	-	3,575	Customer	-	-	-	2,892	-	-	-	574	-	-	-	110
	51-500-8230	Workmen's Comp	14,076	Treat/Distr	539	2,087	11,450	-	Treat/Distr	275	1,065	5,845	-	182	703	3,859	-	82	318	1,746	-
	51-500-8230	Workmen's Comp (Cust.)	1,224	Customer	-	-	-	1,224	Customer	-	-	-	990	-	-	-	196	-	-	-	38
	51-500-8240	Health Insurance	88,872	Treat/Distr	3,406	13,174	72,293	-	Treat/Distr	1,738	6,725	36,904	-	1,148	4,440	24,363	-	519	2,009	11,026	-
	51-500-8240	Health Insurance (Cust.)	7,728	Customer	-	-	-	7,728	Customer	-	-	-	6,251	-	-	-	1,240	-	-	-	237
	51-500-8220	FICA Expense	26,641	Treat/Distr	1,021	3,949	21,671	-	Treat/Distr	521	2,016	11,063	-	344	1,331	7,303	-	156	602	3,305	-
	51-500-8220	FICA Expense (Cust.)	2,317	Customer	-	-	-	2,317	Customer	-	-	-	1,874	-	-	-	372	-	-	-	71
	51-500-8260	State Unemployment Insurance	1,408	Treat/Distr	54	209	1,145	-	Treat/Distr	28	107	585	-	18	70	386	-	8	32	175	-
	51-500-8260	State Unemployment Insurance (Cust.)	122	Customer	-	-	-	122	Customer	-	-	-	99	-	-	-	20	-	-	-	4
		Total	$ 565,509		$ 63,984	$ 104,639	$ 356,225	$ 40,661		$ 37,547	$ 58,101	$ 185,866	$ 32,890	$ 20,631	$ 34,370	$ 119,281	$ 6,624	$ 5,806	$ 12,168	$ 51,077	$ 1,247
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 612	Treat/Distr/Per	$ 47	$ 102	$ 440	$ 22	Treat/Distr/Per	$ 25	$ 55	$ 235	$ 12	$ 15	$ 34	$ 145	$ 7	$ 6	$ 14	$ 61	$ 3
	51-453-9215	Publications, Subscriptions & Members	10,710	Treat/Distr/Per	821	1,790	7,708	391	Treat/Distr/Per	438	955	4,114	209	269	587	2,530	128	113	247	1,064	54
	51-500-9216	Postage	8,160	Customer	-	-	-	8,160	Customer	-	-	-	6,601	-	-	-	1,309	-	-	-	250
	51-500-9211	Cell Phone	1,020	Treat/Distr/Per	78	170	734	37	Treat/Distr/Per	42	91	392	20	26	56	241	12	11	24	101	5
	51-500-9400	Insurance	44,880	Treat/Distr/Per	3,441	7,501	32,299	1,640	Treat/Distr/Per	1,836	4,003	17,238	875	1,129	2,462	10,600	538	475	1,036	4,461	226
	51-452-9214	Travel, Meals Training	3,060	Treat/Distr/Per	235	511	2,202	112	Treat/Distr/Per	125	273	1,175	60	77	168	723	37	32	71	304	15
	51-453-9214	Travel, Meals Training	2,550	Treat/Distr/Per	195	426	1,835	93	Treat/Distr/Per	104	227	979	50	64	140	602	31	27	59	253	13
	51-500-9600	Provision for Bad Debts	1,020	Customer	-	-	-	1,020	Customer	-	-	-	825	-	-	-	164	-	-	-	31
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9590	Sales Tax Expense	510	Treat/Distr/Per	39	85	367	19	Treat/Distr/Per	21	45	196	10	13	28	120	6	5	12	51	3
	51-452-9200	Printing & Binding	1,020	Customer	-	-	-	1,020	Customer	-	-	-	825	-	-	-	164	-	-	-	31
	51-453-9200	Printing & Binding	3,060	Customer	-	-	-	3,060	Customer	-	-	-	2,475	-	-	-	491	-	-	-	94
		Total	$ 76,602		$ 4,856	$ 10,586	$ 45,585	$ 15,575		$ 2,592	$ 5,650	$ 24,328	$ 11,961	$ 1,594	$ 3,474	$ 14,961	$ 2,887	$ 671	$ 1,462	$ 6,296	$ 726
Outside Services	51-452-2840	Security Cameras	$ 2,550	Treat/Distr/Per/AG	$ 193	$ 421	$ 1,815	$ 121	Treat/Distr/Per/AG	$ 104	$ 226	$ 974	$ 65	$ 63	$ 138	$ 592	$ 39	$ 26	$ 58	$ 248	$ 17
		Garbage Collection	$ 6,000	Treat/Distr/Per/AG	$ 455	$ 992	$ 4,270	$ 284	Treat/Distr/Per/AG	$ 244	$ 532	$ 2,292	$ 153	$ 148	$ 324	$ 1,393	$ 93	$ 62	$ 136	$ 584	$ 39
		ADEQ Water Permits	$ 10,000	Treat/Distr/Per/AG	$ 758	$ 1,653	$ 7,116	$ 474	Treat/Distr/Per/AG	$ 407	$ 887	$ 3,820	$ 254	$ 247	$ 539	$ 2,322	$ 155	$ 104	$ 226	$ 974	$ 65
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services- Legal	7,650	Treat/Distr/Per/AG	580	1,264	5,444	362	Treat/Distr/Per/AG	311	679	2,922	194	189	413	1,776	118	79	173	745	50
		Outside Services-Audit	2,550	Treat/Distr/Per/AG	193	421	1,815	121	Treat/Distr/Per/AG	104	226	974	65	63	138	592	39	26	58	248	17
	51-453-9340	Contract Services	5,100	Treat/Distr/Per/AG	387	843	3,629	242	Treat/Distr/Per/AG	208	452	1,948	130	126	275	1,184	79	53	115	497	33
		Total	$ 33,850		$ 2,566	$ 5,594	$ 24,087	$ 1,603		$ 1,377	$ 3,003	$ 12,930	$ 861	$ 837	$ 1,825	$ 7,860	$ 523	$ 351	$ 766	$ 3,297	$ 219
Misc. Expenses	51-453-9520	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Water Meter Replacement	12,240	Treat/Distr/Per/AG	928	2,023	8,710	580	Treat/Distr/Per/AG	498	1,086	4,675	311	303	660	2,842	189	127	277	1,192	79
		Fire Hydrants	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Building/Capital Improvements	20,400	Treat/Distr/Per/AG	1,546	3,371	14,516	966	Treat/Distr/Per/AG	830	1,810	7,792	519	505	1,100	4,737	315	212	462	1,987	132
		Capital Equipment	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Other	127,000	Treat/Distr/Per/AG	9,627	20,987	90,371	6,015	Treat/Distr/Per/AG	5,167	11,266	48,510	3,229	3,141	6,848	29,490	1,963	1,318	2,873	12,372	823
		Water Tank	466,667	Treat/Distr/Per/AG	35,374	77,118	332,073	22,103	Treat/Distr/Per/AG	18,988	41,396	178,251	11,864	11,543	25,165	108,361	7,212	4,843	10,557	45,460	3,026
		Total	$ 626,307		$ 47,474	$ 103,499	$ 445,670	$ 29,664		$ 25,484	$ 55,557	$ 239,228	$ 15,923	$ 15,492	$ 33,774	$ 145,430	$ 9,680	$ 6,499	$ 14,169	$ 61,012	$ 4,061
Total Water Budget			$ 1,848,954		$ 139,686	$ 305,106	$ 1,316,680	$ 87,502		$ 78,434	$ 176,957	$ 674,202	$ 61,636	$ 45,211	$ 94,823	$ 444,083	$ 19,613	$ 15,021	$ 33,626	$ 198,394	$ 6,254
Less: Water Revenue			66,837	Treat/Distr/Per/AG	5,066	11,065	47,960	3,166	Other Revenues	4,228	9,217	39,688	2,642	839	1,828	7,872	624				
Revenue Requirement			$ 1,782,117		$ 134,620	$ 294,061	$ 1,268,720	$ 84,337		$ 75,206	$ 167,740	$ 634,514	$ 58,993	$ 44,372	$ 92,994	$ 436,212	$ 19,090	$ 15,021	$ 33,626	$ 198,394	$ 6,254

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					Functionalization					Rate Class Allocations											
										Residential				Commercial				Irrigation			
Category	Account	Description	Budget	Functionalization	Max Hour	Max Day	Base	Cust	Class Allocation	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,202	Max Day	$ -	$ 2,464	$ 2,738	$ -	Max Day	$ -	$ 1,734	$ 1,926	$ -	$ -	$ 592	$ 658	$ -	$ -	$ 138	$ 154	$ -
	51-452-2102	Uniforms	1,248	Max Day	-	591	657	-	Max Day	-	416	462	-	-	142	158	-	-	33	37	-
	51-452-2103	Safety Supplies	3,121	Max Day	-	1,478	1,643	-	Max Day	-	1,040	1,156	-	-	355	395	-	-	83	92	-
	51-452-2104	Clothing Allowance	1,248	Max Day	-	591	657	-	Max Day	-	416	462	-	-	142	158	-	-	33	37	-
	51-452-2115	Equipment Repair & Maintenance	26,010	Max Day	-	12,321	13,689	-	Max Day	-	8,668	9,631	-	-	2,961	3,290	-	-	691	768	-
	51-452-9210	Utilities	84,872	Max Day	-	40,203	44,669	-	Max Day	-	28,284	31,427	-	-	9,663	10,737	-	-	2,256	2,506	-
	51-452-2811	Water Sample Testing	6,242	Max Day	-	2,957	3,285	-	Max Day	-	2,080	2,311	-	-	711	790	-	-	166	184	-
	51-452-2860	Raw water	324,635	Base	-	-	324,635	-	Base	-	-	138,068	-	-	-	121,623	-	-	-	64,945	-
	51-452-2123	Polymer	33,949	Base	-	-	33,949	-	Base	-	-	14,439	-	-	-	12,719	-	-	-	6,792	-
	51-452-2124	Chlorine	7,426	Base	-	-	7,426	-	Base	-	-	3,158	-	-	-	2,782	-	-	-	1,486	-
	51-452-5813	WTP Vehicle Maintenance	2,081	Max Day	-	986	1,095	-	Max Day	-	694	771	-	-	237	263	-	-	55	61	-
		Total	$ 496,004		$ -	$ 61,550	$ 434,444	$ -		$ -	$ 43,331	$ 200,810	$ -	$ -	$ 14,904	$ 153,572	$ -	$ -	$ 3,456	$ 77,061	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 20,808	Max Hour	$ 6,688	$ 6,688	$ 7,431	$ -	Max Hour	$ 4,001	$ 4,001	$ 4,445	$ -	$ 2,142	$ 2,142	$ 2,380	$ -	$ 545	$ 545	$ 606	$ -
	51-453-2102	Uniforms	1,248	Max Hour	401	401	446	-	Max Hour	240	240	267	-	128	128	143	-	33	33	36	-
	51-453-2103	Safety Supplies	2,081	Max Hour	669	669	743	-	Max Hour	400	400	445	-	214	214	238	-	55	55	61	-
	51-453-2104	Clothing Allowance	1,248	Max Hour	401	401	446	-	Max Hour	240	240	267	-	128	128	143	-	33	33	36	-
	51-453-2113	Pipe & Fittings	15,606	Max Hour	5,016	5,016	5,574	-	Max Hour	3,001	3,001	3,334	-	1,607	1,607	1,785	-	409	409	454	-
	51-453-2115	Equipment Repair & Maintenance	10,404	Max Hour	3,344	3,344	3,716	-	Max Hour	2,000	2,000	2,223	-	1,071	1,071	1,190	-	273	273	303	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,242	Max Hour	2,006	2,006	2,229	-	Max Hour	1,200	1,200	1,334	-	643	643	714	-	164	164	182	-
	51-453-5814	Fuel	8,323	Max Hour	2,675	2,675	2,973	-	Max Hour	1,600	1,600	1,778	-	857	857	952	-	218	218	242	-
		Total	$ 65,960		$ 21,201	$ 21,201	$ 23,557	$ -		$ 12,682	$ 12,682	$ 14,092	$ -	$ 6,790	$ 6,790	$ 7,545	$ -	$ 1,729	$ 1,729	$ 1,921	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 138,005	Treatment	$ -	$ 17,222	$ 120,783	$ -	Treatment	$ -	$ 8,587	$ 60,223	$ -	$ -	$ 5,843	$ 40,978	$ -	$ -	$ 2,792	$ 19,583	$ -
	51-453-8200	Water Distribution-Salaries	176,743	Distribution	56,810	56,810	63,123	-	Distribution	33,983	33,983	37,759	-	18,195	18,195	20,217	-	4,632	4,632	5,147	-
	51-453-8200	Water Distribution-Salaries (Cust.)	6,791	Customer	-	-	-	6,791	Customer	-	-	-	5,493	-	-	-	1,090	-	-	-	208
	51-500-8200	Admin/Engineering - Salaries	45,050	Treat/Distr	1,726	6,678	36,646	-	Treat/Distr	881	3,409	18,707	-	582	2,250	12,350	-	263	1,019	5,589	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	19,418	Customer	-	-	-	19,418	Customer	-	-	-	15,707	-	-	-	3,115	-	-	-	596
	51-500-8250	Pension Expense	43,163	Treat/Distr	1,654	6,398	35,111	-	Treat/Distr	844	3,266	17,923	-	557	2,156	11,832	-	252	976	5,355	-
	51-500-8250	Pension Expense (Cust.)	3,754	Customer	-	-	-	3,754	Customer	-	-	-	3,037	-	-	-	602	-	-	-	115
	51-500-8230	Workmen's Comp	14,358	Treat/Distr	550	2,128	11,679	-	Treat/Distr	281	1,086	5,962	-	185	717	3,936	-	84	325	1,781	-
	51-500-8230	Workmen's Comp (Cust.)	1,248	Customer	-	-	-	1,248	Customer	-	-	-	1,009	-	-	-	200	-	-	-	38
	51-500-8240	Health Insurance	93,316	Treat/Distr	3,576	13,833	75,907	-	Treat/Distr	1,825	7,061	38,749	-	1,205	4,662	25,581	-	545	2,110	11,578	-
	51-500-8240	Health Insurance (Cust.)	8,114	Customer	-	-	-	8,114	Customer	-	-	-	6,563	-	-	-	1,302	-	-	-	249
	51-500-8220	FICA Expense	27,174	Treat/Distr	1,041	4,028	22,105	-	Treat/Distr	532	2,056	11,284	-	351	1,357	7,449	-	159	614	3,371	-
	51-500-8220	FICA Expense (Cust.)	2,363	Customer	-	-	-	2,363	Customer	-	-	-	1,911	-	-	-	379	-	-	-	72
	51-500-8260	State Unemployment Insurance	1,436	Treat/Distr	55	213	1,168	-	Treat/Distr	28	109	596	-	19	72	394	-	8	32	178	-
	51-500-8260	State Unemployment Insurance (Cust.)	124	Customer	-	-	-	124	Customer	-	-	-	100	-	-	-	20	-	-	-	4
		Total	$ 561,087		$ 65,413	$ 107,310	$ 368,522	$ 41,812		$ 38,375	$ 59,558	$ 191,203	$ 33,821	$ 21,094	$ 35,253	$ 122,736	$ 6,708	$ 5,944	$ 12,500	$ 52,882	$ 1,283
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 624	Treat/Distr/Per	$ 48	$ 104	$ 449	$ 23	Treat/Distr/Per	$ 26	$ 56	$ 240	$ 12	$ 16	$ 34	$ 147	$ 7	$ 7	$ 14	$ 62	$ 3
	51-453-9215	Publications, Subscriptions & Members	10,924	Treat/Distr/Per	837	1,826	7,862	399	Treat/Distr/Per	447	974	4,196	213	275	599	2,580	131	116	252	1,086	55
	51-500-9216	Postage	8,323	Customer	-	-	-	8,323	Customer	-	-	-	6,732	-	-	-	1,335	-	-	-	255
	51-500-9211	Cell Phone	1,040	Treat/Distr/Per	80	174	748	38	Treat/Distr/Per	43	93	399	20	26	57	246	12	11	24	103	5
	51-500-9400	Insurance	45,778	Treat/Distr/Per	3,509	7,651	32,945	1,673	Treat/Distr/Per	1,873	4,083	17,582	893	1,152	2,511	10,813	549	495	1,067	4,550	231
	51-452-9214	Travel, Meals Training	3,121	Treat/Distr/Per	239	522	2,246	114	Treat/Distr/Per	128	278	1,199	61	79	171	737	37	33	72	310	16
	51-453-9214	Travel, Meals Training	2,601	Treat/Distr/Per	199	435	1,872	95	Treat/Distr/Per	106	232	999	51	65	143	614	31	28	60	259	13
	51-500-9600	Provision for Bad Debts	1,040	Customer	-	-	-	1,040	Customer	-	-	-	841	-	-	-	167	-	-	-	32
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9590	Sales Tax Expense	520	Treat/Distr/Per	40	87	374	19	Treat/Distr/Per	21	46	200	10	13	29	123	6	6	12	52	3
	51-452-9200	Printing & Binding	1,040	Customer	-	-	-	1,040	Customer	-	-	-	841	-	-	-	167	-	-	-	32
	51-453-9200	Printing & Binding	3,121	Customer	-	-	-	3,121	Customer	-	-	-	2,525	-	-	-	501	-	-	-	96
		Total	$ 78,132		$ 4,953	$ 10,798	$ 46,496	$ 15,885		$ 2,643	$ 5,763	$ 24,815	$ 12,159	$ 1,626	$ 3,544	$ 15,260	$ 2,945	$ 684	$ 1,491	$ 6,421	$ 741
Outside Services	51-452-2840	Security Cameras	$ 2,601	Treat/Distr/Per/AG	$ 197	$ 430	$ 1,851	$ 123	Treat/Distr/Per/AG	$ 106	$ 231	$ 993	$ 66	$ 64	$ 140	$ 604	$ 40	$ 27	$ 59	$ 253	$ 17
		Garbage Collection	$ 6,000	Treat/Distr/Per/AG	$ 455	$ 992	$ 4,270	$ 284	Treat/Distr/Per/AG	$ 244	$ 532	$ 2,292	$ 153	$ 148	$ 324	$ 1,393	$ 93	$ 62	$ 136	$ 584	$ 39
		ADEQ Water Permits	$ 10,000	Treat/Distr/Per/AG	$ 758	$ 1,653	$ 7,116	$ 474	Treat/Distr/Per/AG	$ 407	$ 887	$ 3,820	$ 254	$ 247	$ 539	$ 2,322	$ 155	$ 104	$ 226	$ 974	$ 65
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services- Legal	7,803	Treat/Distr/Per/AG	591	1,289	5,552	370	Treat/Distr/Per/AG	317	692	2,980	198	193	421	1,812	121	81	177	760	51
		Outside Services- Audit	2,601	Treat/Distr/Per/AG	197	430	1,851	123	Treat/Distr/Per/AG	106	231	993	66	64	140	604	40	27	59	253	17
	51-453-9340	Contract Services	5,202	Treat/Distr/Per/AG	394	860	3,702	246	Treat/Distr/Per/AG	212	461	1,987	132	129	281	1,208	80	54	118	507	34
		Total	$ 34,207		$ 2,593	$ 5,653	$ 24,341	$ 1,620		$ 1,392	$ 3,034	$ 13,066	$ 870	$ 846	$ 1,845	$ 7,943	$ 529	$ 355	$ 774	$ 3,332	$ 222
Misc. Expenses	51-453-9520	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Water Meter Replacement	12,485	Treat/Distr/Per/AG	946	2,063	8,864	591	Treat/Distr/Per/AG	508	1,107	4,769	317	309	673	2,899	193	130	282	1,216	81
		Fire Hydrants	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Building/Capital Improvements	20,808	Treat/Distr/Per/AG	1,577	3,439	14,807	986	Treat/Distr/Per/AG	847	1,846	7,948	529	515	1,122	4,832	322	216	471	2,027	135
		Capital Equipment	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Other	129,540	Treat/Distr/Per/AG	9,819	21,407	92,179	6,135	Treat/Distr/Per/AG	5,271	11,491	49,480	3,293	3,204	6,985	30,079	2,002	1,344	2,931	12,619	840
		Water Tank	466,667	Treat/Distr/Per/AG	35,374	77,118	332,073	22,103	Treat/Distr/Per/AG	18,988	41,396	178,251	11,864	11,543	25,165	108,361	7,212	4,843	10,557	45,460	3,026
		Total	$ 629,500		$ 47,716	$ 104,027	$ 447,942	$ 29,815		$ 25,613	$ 55,840	$ 240,448	$ 16,004	$ 15,571	$ 33,946	$ 146,171	$ 9,729	$ 6,532	$ 14,241	$ 61,323	$ 4,082
Total Water Budget			$ 1,884,890		$ 141,877	$ 310,880	$ 1,343,302	$ 89,132		$ 80,706	$ 180,209	$ 687,434	$ 62,894	$ 45,927	$ 96,181	$ 453,227	$ 19,911	$ 15,244	$ 34,190	$ 202,641	$ 6,327
Less: Water Revenue			68,842	Treat/Distr/Per/AG	5,218	11,376	48,987	3,261	Other Revenues	4,356	9,489	40,879	2,721	864	1,883	8,108	540				
Revenue Requirement			$ 1,816,048		$ 136,658	$ 299,504	$ 1,294,315	$ 85,871		$ 76,351	$ 170,719	$ 646,555	$ 60,173	$ 45,063	$ 94,298	$ 445,119	$ 19,371	$ 15,244	$ 34,190	$ 202,641	$ 6,327

Page Utility Enterprises - 2015 Water/ Sewer COS & Rate Design Study
FY 2019 Water Budget Projection

					Functionalization					Rate Class Allocations											
										Residential				Commercial				Irrigation			
Category	Account	Description	Budget	Functionalization	Max Hour	Max Day	Base	Cust	Class Allocation	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,306	Max Day	$ -	$ 2,513	$ 2,793	$ -	Max Day	$ -	$ 1,768	$ 1,965	$ -	$ -	$ 604	$ 671	$ -	$ -	$ 141	$ 157	$ -
	51-452-2102	Uniforms	1,273	Max Day	-	603	670	-	Max Day	-	424	471	-	-	145	161	-	-	34	38	-
	51-452-2103	Safety Supplies	3,183	Max Day	-	1,508	1,675	-	Max Day	-	1,061	1,179	-	-	362	403	-	-	85	94	-
	51-452-2104	Clothing Allowance	1,273	Max Day	-	603	670	-	Max Day	-	424	471	-	-	145	161	-	-	34	38	-
	51-452-2115	Equipment Repair & Maintenance	26,530	Max Day	-	12,567	13,963	-	Max Day	-	8,841	9,824	-	-	3,021	3,356	-	-	705	783	-
	51-452-9210	Utilities	87,418	Max Day	-	41,409	46,009	-	Max Day	-	29,132	32,369	-	-	9,953	11,059	-	-	2,323	2,581	-
	51-452-2811	Water Sample Testing	6,367	Max Day	-	3,016	3,351	-	Max Day	-	2,122	2,358	-	-	725	805	-	-	169	188	-
	51-452-2860	Raw water	334,374	Base	-	-	334,374	-	Base	-	-	142,210	-	-	-	125,271	-	-	-	66,893	-
	51-452-2123	Polymer	34,967	Base	-	-	34,967	-	Base	-	-	14,872	-	-	-	13,100	-	-	-	6,995	-
	51-452-2124	Chlorine	7,649	Base	-	-	7,649	-	Base	-	-	3,253	-	-	-	2,866	-	-	-	1,530	-
	51-452-5813	WTP Vehicle Maintenance	2,123	Max Day	-	1,006	1,117	-	Max Day	-	707	786	-	-	242	269	-	-	56	63	-
		Total	$ 510,463		$ -	$ 63,224	$ 447,239	$ -		$ -	$ 44,481	$ 209,757	$ -	$ -	$ 15,196	$ 168,122	$ -	$ -	$ 3,547	$ 79,360	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 21,224	Max Hour	$ 6,822	$ 6,822	$ 7,580	$ -	Max Hour	$ 4,081	$ 4,081	$ 4,534	$ -	$ 2,185	$ 2,185	$ 2,428	$ -	$ 556	$ 556	$ 618	$ -
	51-453-2102	Uniforms	1,273	Max Hour	409	409	455	-	Max Hour	245	245	272	-	131	131	146	-	33	33	37	-
	51-453-2103	Safety Supplies	2,123	Max Hour	682	682	758	-	Max Hour	408	408	454	-	219	219	243	-	56	56	62	-
	51-453-2104	Clothing Allowance	1,273	Max Hour	409	409	455	-	Max Hour	245	245	272	-	131	131	146	-	33	33	37	-
	51-453-2113	Pipe & Fittings	15,918	Max Hour	5,117	5,117	5,685	-	Max Hour	3,061	3,061	3,401	-	1,639	1,639	1,821	-	417	417	464	-
	51-453-2115	Equipment Repair & Maintenance	10,612	Max Hour	3,411	3,411	3,790	-	Max Hour	2,040	2,040	2,267	-	1,092	1,092	1,214	-	278	278	309	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,367	Max Hour	2,047	2,047	2,274	-	Max Hour	1,224	1,224	1,360	-	655	655	728	-	167	167	185	-
	51-453-5814	Fuel	9,489	Max Hour	2,729	2,729	3,032	-	Max Hour	1,632	1,632	1,814	-	874	874	971	-	222	222	247	-
		Total	$ 67,279		$ 21,625	$ 21,625	$ 24,028	$ -		$ 12,936	$ 12,936	$ 14,373	$ -	$ 6,926	$ 6,926	$ 7,696	$ -	$ 1,763	$ 1,763	$ 1,959	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 140,765	Treatment	$ -	$ 17,566	$ 123,199	$ -	Treatment	$ -	$ 8,759	$ 61,427	$ -	$ -	$ 5,960	$ 41,797	$ -	$ -	$ 2,848	$ 19,974	$ -
	51-453-8200	Water Distribution-Salaries	180,278	Distribution	57,947	57,947	64,385	-	Distribution	34,663	34,663	38,514	-	18,559	18,559	20,621	-	4,725	4,725	5,250	-
	51-453-8200	Water Distribution-Salaries (Cust.)	6,927	Customer	-	-	-	6,927	Customer	-	-	-	5,603	-	-	-	1,111	-	-	-	212
	51-500-8200	Admin/Engineering - Salaries	45,951	Treat/Distr	1,761	6,812	37,379	-	Treat/Distr	899	3,477	19,081	-	593	2,296	12,597	-	269	1,039	5,701	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	19,806	Customer	-	-	-	19,806	Customer	-	-	-	16,021	-	-	-	3,178	-	-	-	608
	51-500-8250	Pension Expense	45,321	Treat/Distr	1,737	6,718	36,866	-	Treat/Distr	887	3,429	18,819	-	585	2,264	12,424	-	265	1,025	5,623	-
	51-500-8250	Pension Expense (Cust.)	3,942	Customer	-	-	-	3,942	Customer	-	-	-	3,189	-	-	-	632	-	-	-	121
	51-500-8230	Workmen's Comp	14,645	Treat/Distr	561	2,171	11,913	-	Treat/Distr	286	1,108	6,081	-	189	732	4,015	-	86	331	1,817	-
	51-500-8230	Workmen's Comp (Cust.)	1,273	Customer	-	-	-	1,273	Customer	-	-	-	1,030	-	-	-	204	-	-	-	39
	51-500-8240	Health Insurance	97,982	Treat/Distr	3,755	14,524	79,703	-	Treat/Distr	1,917	7,414	40,686	-	1,265	4,895	26,860	-	573	2,215	12,156	-
	51-500-8240	Health Insurance (Cust.)	8,520	Customer	-	-	-	8,520	Customer	-	-	-	6,892	-	-	-	1,367	-	-	-	261
	51-500-8220	FICA Expense	27,717	Treat/Distr	1,062	4,109	22,546	-	Treat/Distr	542	2,097	11,509	-	358	1,385	7,598	-	162	627	3,439	-
	51-500-8220	FICA Expense (Cust.)	2,410	Customer	-	-	-	2,410	Customer	-	-	-	1,949	-	-	-	387	-	-	-	74
	51-500-8260	State Unemployment Insurance	1,465	Treat/Distr	56	217	1,192	-	Treat/Distr	29	111	608	-	19	73	402	-	9	33	182	-
	51-500-8260	State Unemployment Insurance (Cust.)	126	Customer	-	-	-	126	Customer	-	-	-	102	-	-	-	20	-	-	-	4
		Total	$ 597,128		$ 66,878	$ 110,064	$ 377,182	$ 43,004		$ 39,222	$ 61,059	$ 196,727	$ 34,785	$ 21,569	$ 36,162	$ 126,313	$ 6,899	$ 6,087	$ 12,842	$ 54,142	$ 1,319
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 636	Treat/Distr/Per	$ 49	$ 106	$ 458	$ 23	Treat/Distr/Per	$ 26	$ 57	$ 244	$ 12	$ 16	$ 35	$ 150	$ 8	$ 7	$ 15	$ 63	$ 3
	51-453-9215	Publications, Subscriptions & Members	11,142	Treat/Distr/Per	854	1,862	8,019	407	Treat/Distr/Per	456	994	4,279	217	280	611	2,632	134	118	257	1,107	56
	51-500-9216	Postage	8,489	Customer	-	-	-	8,489	Customer	-	-	-	6,867	-	-	-	1,362	-	-	-	260
	51-500-9211	Cell Phone	1,061	Treat/Distr/Per	81	177	764	39	Treat/Distr/Per	43	95	408	21	27	58	251	13	11	24	105	5
	51-500-9400	Insurance	46,694	Treat/Distr/Per	3,580	7,804	33,604	1,706	Treat/Distr/Per	1,910	4,165	17,934	911	1,175	2,561	11,029	560	494	1,078	4,641	236
	51-452-9214	Travel, Meals Training	3,183	Treat/Distr/Per	244	532	2,291	116	Treat/Distr/Per	130	284	1,223	62	80	175	752	38	34	73	316	16
	51-453-9214	Travel, Meals Training	2,653	Treat/Distr/Per	203	443	1,909	97	Treat/Distr/Per	109	237	1,019	52	67	146	627	32	28	61	264	13
	51-500-9600	Provision for Bad Debts	1,061	Customer	-	-	-	1,061	Customer	-	-	-	858	-	-	-	170	-	-	-	33
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9590	Sales Tax Expense	530	Treat/Distr/Per	41	89	381	19	Treat/Distr/Per	22	47	204	10	13	29	125	6	6	12	53	3
	51-452-9200	Printing & Binding	1,061	Customer	-	-	-	1,061	Customer	-	-	-	858	-	-	-	170	-	-	-	33
	51-453-9200	Printing & Binding	3,183	Customer	-	-	-	3,183	Customer	-	-	-	2,575	-	-	-	511	-	-	-	98
		Total	$ 79,693		$ 5,052	$ 11,014	$ 47,425	$ 16,202		$ 2,696	$ 5,878	$ 25,311	$ 12,443	$ 1,658	$ 3,615	$ 15,565	$ 3,003	$ 698	$ 1,521	$ 6,550	$ 756
Outside Services	51-452-2840	Security Cameras	$ 2,653	Treat/Distr/Per/AG	$ 201	$ 438	$ 1,888	$ 126	Treat/Distr/Per/AG	$ 108	$ 235	$ 1,013	$ 67	$ 66	$ 143	$ 616	$ 41	$ 28	$ 60	$ 258	$ 17
		Garbage Collection	$ 6,000	Treat/Distr/Per/AG	$ 455	$ 992	$ 4,270	$ 284	Treat/Distr/Per/AG	$ 244	$ 532	$ 2,292	$ 153	$ 148	$ 324	$ 1,393	$ 93	$ 62	$ 136	$ 584	$ 39
		ADEQ Water Permits	$ 10,000	Treat/Distr/Per/AG	$ 758	$ 1,653	$ 7,116	$ 474	Treat/Distr/Per/AG	$ 407	$ 887	$ 3,820	$ 254	$ 247	$ 539	$ 2,322	$ 155	$ 104	$ 226	$ 974	$ 65
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services Legal	7,959	Treat/Distr/Per/AG	603	1,315	5,663	377	Treat/Distr/Per/AG	324	706	3,040	202	197	429	1,848	123	83	180	775	52
		Outside Services Audit	2,653	Treat/Distr/Per/AG	201	438	1,888	126	Treat/Distr/Per/AG	108	235	1,013	67	66	143	616	41	28	60	258	17
	51-453-9340	Contract Services	5,306	Treat/Distr/Per/AG	402	877	3,776	251	Treat/Distr/Per/AG	216	471	2,027	135	131	286	1,232	82	55	120	517	34
		Total	$ 34,571		$ 2,621	$ 5,713	$ 24,600	$ 1,637		$ 1,407	$ 3,067	$ 13,205	$ 879	$ 855	$ 1,864	$ 8,027	$ 534	$ 359	$ 782	$ 3,368	$ 224
Misc. Expenses	51-453-9520	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Water Meter Replacement	12,735	Treat/Distr/Per/AG	965	2,105	9,062	603	Treat/Distr/Per/AG	518	1,130	4,864	324	315	687	2,957	197	132	288	1,241	83
		Fire Hydrants	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Building/Capital Improvements	21,224	Treat/Distr/Per/AG	1,609	3,507	15,103	1,005	Treat/Distr/Per/AG	864	1,883	8,107	540	525	1,145	4,928	328	220	480	2,068	138
		Capital Equipment	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Other	132,131	Treat/Distr/Per/AG	10,016	21,835	94,022	6,258	Treat/Distr/Per/AG	5,376	11,721	50,470	3,359	3,268	7,125	30,681	2,042	1,371	2,989	12,872	857
		Water Tank	466,667	Treat/Distr/Per/AG	35,374	77,118	332,073	22,103	Treat/Distr/Per/AG	18,988	41,396	178,251	11,864	11,543	25,165	108,361	7,212	4,843	10,557	45,460	3,026
		Total	$ 632,757		$ 47,963	$ 104,565	$ 450,259	$ 29,969		$ 25,746	$ 56,129	$ 241,692	$ 16,087	$ 15,651	$ 34,121	$ 146,928	$ 9,779	$ 6,566	$ 14,315	$ 61,640	$ 4,103
Total Water Budget			$ 1,921,891		$ 144,139	$ 316,205	$ 1,370,724	$ 90,812		$ 82,007	$ 183,549	$ 701,065	$ 64,194	$ 46,659	$ 97,885	$ 462,651	$ 20,217	$ 15,473	$ 34,771	$ 207,018	$ 6,402
Less: Water Revenue			70,007	Treat/Distr/Per/AG	6,575	11,718	50,456	1,358	Other Revenues	4,489	9,778	42,105	2,802	890	1,939	8,351	555				
Revenue Requirement			$ 1,850,884		$ 138,765	$ 304,487	$ 1,320,278	$ 87,454		$ 77,522	$ 173,771	$ 658,960	$ 61,392	$ 45,770	$ 95,946	$ 454,300	$ 19,661	$ 15,473	$ 34,771	$ 207,018	$ 6,402

Page Utility Enterprises - 2015 Water/ Sewer COS & Rate Design Study
FY 2020 Water Budget Projection

					Functionalization					Rate Class Allocations											
										Residential				Commercial				Irrigation			
Category	Account	Description	Budget	Functionalization	Max Hour	Max Day	Base	Cust	Class Allocation	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust	Max Hour	Max Day	Base	Cust
Water Treatment Plant: Cost of Sales & Service	51-452-2101	Operating Supplies	$ 5,412	Max Day	$ -	$ 2,564	$ 2,848	$ -	Max Day	$ -	$ 1,804	$ 2,004	$ -	$ -	$ 616	$ 685	$ -	$ -	$ 144	$ 160	$ -
	51-452-2102	Uniforms	1,298	Max Day	-	615	683	-	Max Day	-	433	481	-	-	148	164	-	-	34	38	-
	51-452-2103	Safety Supplies	3,247	Max Day	-	1,538	1,709	-	Max Day	-	1,082	1,202	-	-	370	411	-	-	86	96	-
	51-452-2104	Clothing Allowance	1,298	Max Day	-	615	683	-	Max Day	-	433	481	-	-	148	164	-	-	34	38	-
	51-452-2115	Equipment Repair & Maintenance	27,061	Max Day	-	12,818	14,243	-	Max Day	-	9,018	10,020	-	-	3,081	3,423	-	-	719	799	-
	51-452-9210	Utilities	90,041	Max Day	-	42,651	47,390	-	Max Day	-	30,007	33,341	-	-	10,251	11,390	-	-	2,393	2,659	-
	51-452-2811	Water Sample Testing	6,494	Max Day	-	3,076	3,418	-	Max Day	-	2,164	2,405	-	-	739	822	-	-	173	192	-
	51-452-2860	Raw water	344,405	Base	-	-	344,405	-	Base	-	-	146,476	-	-	-	129,029	-	-	-	68,900	-
	51-452-2123	Polymer	36,016	Base	-	-	36,016	-	Base	-	-	15,318	-	-	-	13,493	-	-	-	7,205	-
	51-452-2124	Chlorine	7,678	Base	-	-	7,678	-	Base	-	-	3,351	-	-	-	2,951	-	-	-	1,576	-
	51-452-5813	WTP Vehicle Maintenance	2,165	Max Day	-	1,026	1,139	-	Max Day	-	721	802	-	-	246	274	-	-	58	64	-
		Total	$ 525,215		$ -	$ 64,902	$ 460,413	$ -		$ -	$ 45,661	$ 215,879	$ -	$ -	$ 15,600	$ 162,807	$ -	$ -	$ 3,641	$ 81,727	$ -
Water Distribution: Cost of Sales & Service	51-453-2101	Operating Supplies	$ 21,648	Max Hour	$ 6,958	$ 6,958	$ 7,731	$ -	Max Hour	$ 4,162	$ 4,162	$ 4,625	$ -	$ 2,229	$ 2,229	$ 2,476	$ -	$ 567	$ 567	$ 630	$ -
	51-453-2102	Uniforms	1,298	Max Hour	417	417	464	-	Max Hour	250	250	277	-	134	134	148	-	34	34	38	-
	51-453-2103	Safety Supplies	2,165	Max Hour	696	696	773	-	Max Hour	416	416	463	-	223	223	248	-	57	57	63	-
	51-453-2104	Clothing Allowance	1,298	Max Hour	417	417	464	-	Max Hour	250	250	277	-	134	134	148	-	34	34	38	-
	51-453-2113	Pipe & Fittings	16,236	Max Hour	5,219	5,219	5,799	-	Max Hour	3,122	3,122	3,469	-	1,671	1,671	1,857	-	426	426	473	-
	51-453-2115	Equipment Repair & Maintenance	10,824	Max Hour	3,479	3,479	3,866	-	Max Hour	2,081	2,081	2,312	-	1,114	1,114	1,238	-	284	284	315	-
	51-453-5813	Water Distribn Vehicle Maintenance	6,494	Max Hour	2,087	2,087	2,319	-	Max Hour	1,249	1,249	1,387	-	669	669	743	-	170	170	189	-
	51-453-5814	Fuel	8,659	Max Hour	2,783	2,783	3,093	-	Max Hour	1,665	1,665	1,850	-	891	891	990	-	227	227	252	-
		Total	$ 68,622		$ 22,057	$ 22,057	$ 24,508	$ -		$ 13,194	$ 13,194	$ 14,660	$ -	$ 7,064	$ 7,064	$ 7,849	$ -	$ 1,798	$ 1,798	$ 1,998	$ -
Personnel Services	51-452-8200	Water Treatment Plant Salaries	$ 143,580	Treatment	$ -	$ 17,918	$ 125,662	$ -	Treatment	$ -	$ 8,934	$ 62,656	$ -	$ -	$ 6,079	$ 42,633	$ -	$ -	$ 2,905	$ 20,374	$ -
	51-453-8200	Water Distribution-Salaries	183,884	Distribution	59,106	59,106	65,673	-	Distribution	35,356	35,356	39,285	-	18,930	18,930	21,033	-	4,819	4,819	5,355	-
	51-453-8200	Water Distribution-Salaries (Cust.)	7,066	Customer	-	-	-	7,066	Customer	-	-	-	5,716	-	-	-	1,134	-	-	-	217
	51-500-8200	Admin/Engineering - Salaries	46,870	Treat/Distr	1,796	6,948	38,126	-	Treat/Distr	917	3,547	19,462	-	605	2,341	12,849	-	274	1,060	5,815	-
	51-500-8200	Admin/Engineering - Salaries (Cust.)	20,202	Customer	-	-	-	20,202	Customer	-	-	-	16,341	-	-	-	3,241	-	-	-	620
	51-500-8250	Pension Expense	47,587	Treat/Distr	1,824	7,054	38,709	-	Treat/Distr	931	3,601	19,760	-	615	2,377	13,045	-	278	1,076	5,904	-
	51-500-8250	Pension Expense (Cust.)	4,139	Customer	-	-	-	4,139	Customer	-	-	-	3,348	-	-	-	664	-	-	-	127
	51-500-8230	Workmen's Comp	14,938	Treat/Distr	572	2,214	12,151	-	Treat/Distr	292	1,130	6,203	-	193	746	4,095	-	87	338	1,853	-
	51-500-8230	Workmen's Comp (Cust.)	1,298	Customer	-	-	-	1,298	Customer	-	-	-	1,050	-	-	-	208	-	-	-	40
	51-500-8240	Health Insurance	102,881	Treat/Distr	3,942	15,251	83,688	-	Treat/Distr	2,012	7,785	42,721	-	1,329	5,139	28,203	-	601	2,326	12,764	-
	51-500-8240	Health Insurance (Cust.)	8,946	Customer	-	-	-	8,946	Customer	-	-	-	7,236	-	-	-	1,435	-	-	-	274
	51-500-8220	FICA Expense	28,271	Treat/Distr	1,083	4,191	22,997	-	Treat/Distr	553	2,139	11,739	-	365	1,412	7,750	-	165	639	3,508	-
	51-500-8220	FICA Expense (Cust.)	2,458	Customer	-	-	-	2,458	Customer	-	-	-	1,988	-	-	-	394	-	-	-	75
	51-500-8260	State Unemployment Insurance	1,494	Treat/Distr	57	221	1,215	-	Treat/Distr	29	113	620	-	19	75	410	-	9	34	185	-
	51-500-8260	State Unemployment Insurance (Cust.)	129	Customer	-	-	-	129	Customer	-	-	-	104	-	-	-	21	-	-	-	4
		Total	$ 613,743		$ 68,381	$ 112,902	$ 388,222	$ 44,238		$ 40,091	$ 62,605	$ 202,446	$ 35,783	$ 22,056	$ 37,100	$ 130,018	$ 7,097	$ 6,234	$ 13,197	$ 56,758	$ 1,357
Administrative & General Expenses	51-452-9215	Publications, Subscriptions & Members	$ 649	Treat/Distr/Per	$ 50	$ 108	$ 467	$ 24	Treat/Distr/Per	$ 27	$ 58	$ 249	$ 13	$ 16	$ 36	$ 153	$ 8	$ 7	$ 15	$ 65	$ 3
	51-453-9215	Publications, Subscriptions & Members	11,365	Treat/Distr/Per	871	1,899	8,179	415	Treat/Distr/Per	465	1,014	4,365	222	286	623	2,684	136	120	262	1,130	57
	51-500-9216	Postage	8,659	Customer	-	-	-	8,659	Customer	-	-	-	7,004	-	-	-	1,389	-	-	-	266
	51-500-9211	Cell Phone	1,082	Treat/Distr/Per	83	181	779	40	Treat/Distr/Per	44	97	416	21	27	59	256	13	11	25	108	5
	51-500-9400	Insurance	47,628	Treat/Distr/Per	3,651	7,960	34,276	1,740	Treat/Distr/Per	1,949	4,248	18,293	929	1,198	2,613	11,250	571	504	1,099	4,734	240
	51-452-9214	Travel, Meals Training	3,247	Treat/Distr/Per	249	543	2,337	119	Treat/Distr/Per	133	290	1,247	63	82	178	767	39	34	75	323	16
	51-453-9214	Travel, Meals Training	2,706	Treat/Distr/Per	207	452	1,947	99	Treat/Distr/Per	111	241	1,039	53	68	148	639	32	29	62	269	14
	51-500-9600	Provision for Bad Debts	1,082	Customer	-	-	-	1,082	Customer	-	-	-	875	-	-	-	174	-	-	-	33
		Loss on disposal of fixed assets	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Capital equipment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
		Debt Service Payment	-	Treat/Distr/Per	-	-	-	-	Treat/Distr/Per	-	-	-	-	-	-	-	-	-	-	-	-
	51-500-9590	Sales Tax Expense	541	Treat/Distr/Per	41	90	389	20	Treat/Distr/Per	22	48	208	11	14	30	128	6	6	12	54	3
	51-452-9200	Printing & Binding	1,082	Customer	-	-	-	1,082	Customer	-	-	-	875	-	-	-	174	-	-	-	33
	51-453-9200	Printing & Binding	3,247	Customer	-	-	-	3,247	Customer	-	-	-	2,626	-	-	-	521	-	-	-	100
		Total	$ 81,288		$ 5,153	$ 11,234	$ 48,375	$ 16,526		$ 2,750	$ 5,996	$ 25,817	$ 12,692	$ 1,691	$ 3,687	$ 15,877	$ 3,063	$ 712	$ 1,551	$ 6,681	$ 771
Outside Services	51-452-2840	Security Cameras	$ 2,706	Treat/Distr/Per/AG	$ 205	$ 447	$ 1,926	$ 128	Treat/Distr/Per/AG	$ 110	$ 240	$ 1,034	$ 69	$ 67	$ 146	$ 628	$ 42	$ 28	$ 61	$ 264	$ 18
		Garbage Collection	$ 6,000	Treat/Distr/Per/AG	$ 455	$ 992	$ 4,270	$ 284	Treat/Distr/Per/AG	$ 244	$ 532	$ 2,292	$ 153	$ 148	$ 324	$ 1,393	$ 93	$ 62	$ 136	$ 584	$ 39
		ADEQ Water Permits	$ 10,000	Treat/Distr/Per/AG	$ 758	$ 1,653	$ 7,116	$ 474	Treat/Distr/Per/AG	$ 407	$ 887	$ 3,820	$ 254	$ 247	$ 539	$ 2,322	$ 155	$ 104	$ 226	$ 974	$ 65
		Water Line Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Water Meter Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Fire Hydrant Replacement	-	Distribution	-	-	-	-	Distribution	-	-	-	-	-	-	-	-	-	-	-	-
		Outside Services Legal	8,118	Treat/Distr/Per/AG	615	1,342	5,777	384	Treat/Distr/Per/AG	330	720	3,101	206	201	438	1,885	125	84	184	791	53
		Outside Services Audit	2,706	Treat/Distr/Per/AG	205	447	1,926	128	Treat/Distr/Per/AG	110	240	1,034	69	67	146	628	42	28	61	264	18
	51-453-9340	Contract Services	5,412	Treat/Distr/Per/AG	410	894	3,851	256	Treat/Distr/Per/AG	220	480	2,067	138	134	292	1,257	84	56	122	527	35
		Total	$ 34,942		$ 2,649	$ 5,774	$ 24,864	$ 1,655		$ 1,422	$ 3,100	$ 13,347	$ 888	$ 864	$ 1,884	$ 8,114	$ 540	$ 363	$ 790	$ 3,404	$ 227
Misc. Expenses	51-453-9520	Interest Expense	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Total	$ -		$ -	$ -	$ -	$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Replacements/ Additions		Water Line Replacement	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	Treat/Distr/Per/AG	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
		Water Meter Replacement	12,990	Treat/Distr/Per/AG	985	2,147	9,243	615	Treat/Distr/Per/AG	529	1,152	4,962	330	321	700	3,016	201	135	294	1,265	84
		Fire Hydrants	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Building/Capital Improvements	21,648	Treat/Distr/Per/AG	1,641	3,577	15,404	1,025	Treat/Distr/Per/AG	881	1,920	8,269	550	535	1,167	5,027	335	225	490	2,109	140
		Capital Equipment	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Other	598,797	Treat/Distr/Per/AG	45,389	98,953	426,094	28,361	Treat/Distr/Per/AG	24,364	53,116	228,720	15,223	14,811	32,290	139,042	9,255	6,214	13,547	58,332	3,883
		Water Tank	-	Treat/Distr/Per/AG	-	-	-	-	Treat/Distr/Per/AG	-	-	-	-	-	-	-	-	-	-	-	-
		Total	$ 633,435		$ 48,015	$ 104,677	$ 450,742	$ 30,001		$ 25,774	$ 56,189	$ 241,951	$ 16,104	$ 15,668	$ 34,158	$ 147,085	$ 9,790	$ 6,573	$ 14,330	$ 61,706	$ 4,107
Total Water Budget			$ 1,957,345		$ 146,254	$ 321,547	$ 1,397,124	$ 92,420		$ 83,231	$ 186,745	$ 714,101	$ 65,468	$ 47,344	$ 99,494	$ 471,749	$ 20,491	$ 15,680	$ 35,308	$ 211,274	$ 6,462
Less: Water Revenue			73,034	Treat/Distr/Per/AG	5,536	12,069	51,970	3,459	Other Revenues	4,620	10,071	43,368	2,887	916	1,998	8,602	573				
Revenue Requirement			$ 1,884,311		$ 140,718	$ 309,478	$ 1,345,154	$ 88,961		$ 78,611	$ 175,674	$ 670,733	$ 62,581	$ 46,427	$ 97,496	$ 463,148	$ 19,918	$ 15,680	$ 35,308	$ 211,274	$ 6,462

Appendix C: Recommended Water Rate Design

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study

Recommended Water Rate Design - Modified AWWA Meter Equivalancy Factors, 35% Fixed for Residential & Commercial

Residential Rates

Total Active Meters		2,317									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge	See Below	Total Test Year Bills	27,804	Customer Charge Revenue	$ 360,328
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.40	Total Tier 1 kGal	105,541	Tier 1 Charge Revenue	$ 253,298
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.65	Total Tier 2 kGal	28,487	Tier 2 Charge Revenue	75,491
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$ 2.90	Total Tier 3 kGal	27,829	Tier 3 Charge Revenue	80,704
						Total Tier 1-3 kGal	**161,857**	Total Volumetric Revenue	$ 409,493
						kGal Included in Base	70,043	**Total Revenue**	**$ 769,821**
						Total kGal	**231,900**		

Meter Size	Customer Charge
5/8"	$ 12.94
3/4"	$ 12.94
1"	$ 12.94
1 1/2"	$ 16.18

Revenue Requirement (FY 2016)	$ 916,281
Total Revenue	$ 769,821
Avg. Monthly kGal Usage	8.34
Avg Monthly Cost (1" Meter)	$ 32.96
% Fixed Revenue	46.81%
% Variable Revenue	53.19%

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study

Recommended Water Rate Design - Modified AWWA Meter Equivalancy Factors, 35% Fixed for Residential & Commercial

Commercial Rates

Total Active Meters		460									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge	See Below	Total Test Year Bills	5,520	Customer Charge Revenue	$	125,275
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.40	Total Tier 1 kGal	30,061	Tier 1 Charge Revenue	$	72,146
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.65	Total Tier 2 kGal	15,703	Tier 2 Charge Revenue		41,613
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$ 2.90	Total Tier 3 kGal	146,208	Tier 3 Charge Revenue		424,002
						Total Tier 1-3 kGal	**191,971**	Total Volumetric Revenue	$	537,761
						kGal Included in Base	12,307	**Total Revenue**	**$**	**663,036**
						Total kGal	**204,279**			

Meter Size	Customer Charge
5/8"	$ 12.94
3/4"	$ 12.94
1"	$ 12.94
1 1/2"	$ 16.18
2"	$ 32.35
3"	$ 51.76
4"	$ 103.52
6"	$ 207.04

Revenue Requirement (FY 2016)	$ 579,197
Total Revenue	$ 663,036
Avg. Monthly kGal Usage	37.01
Avg Monthly Cost (1" Meter)	$ 110.26
% Fixed Revenue	18.89%
% Variable Revenue	81.11%

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study

Recommended Water Rate Design - Modified AWWA Meter Equivalancy Factors, 35% Fixed for Residential & Commercial

Irrigation Rates

Total Active Meters		88									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge		See Below	Total Test Year Bills	1,056	Customer Charge Revenue	$	-
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$	2.90	Total Tier 1 kGal	6,666	Tier 1 Charge Revenue	$	19,332
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$	2.90	Total Tier 2 kGal	4,361	Tier 2 Charge Revenue		12,647
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$	2.90	Total Tier 3 kGal	95,895	Tier 3 Charge Revenue		278,094
							Total Tier 1-3 kGal	**106,922**	Total Volumetric Revenue	$	310,073
							kGal Included in Base	2,160	**Total Revenue**	**$**	**310,073**
							Total kGal	**109,081**			

Meter Size	Customer Charge
5/8"	$ -
3/4"	$ -
1"	$ -
1 1/2"	$ -
2"	$ -
3"	$ -
4"	$ -
6"	$ -

Revenue Requirement (FY 2016)	$	247,494
Total Revenue	$	310,073
Avg. Monthly kGal Usage		103.30
Avg Monthly Cost (1" Meter)	$	299.56
% Fixed Revenue		0.00%
% Variable Revenue		100.00%

Recommended Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 12.94	$ (1.19)	-8%
3/4"	587	$ 14.13	$ 12.94	$ (1.19)	-8%
1"	911	$ 14.13	$ 12.94	$ (1.19)	-8%
1.5"	6	$ 14.13	$ 16.18	$ 2.05	15%

Recommended Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 17.74	$ (1.09)	-6%
3/4"	587	$ 18.83	$ 17.74	$ (1.09)	-6%
1"	911	$ 18.83	$ 17.74	$ (1.09)	-6%
1.5"	6	$ 18.83	$ 20.98	$ 2.15	11%

Recommended Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 29.74	$ (0.84)	-3%
3/4"	587	$ 30.58	$ 29.74	$ (0.84)	-3%
1"	911	$ 30.58	$ 29.74	$ (0.84)	-3%
1.5"	6	$ 30.58	$ 32.98	$ 2.40	8%

Recommended Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 29.74	$ (0.84)	-3%
3/4"	63	$ 30.58	$ 29.74	$ (0.84)	-3%
1"	183	$ 30.58	$ 29.74	$ (0.84)	-3%
1.5"	51	$ 30.58	$ 32.98	$ 2.40	8%
2"	122	$ 30.58	$ 49.15	$ 18.57	61%
3"	5	$ 30.58	$ 68.56	$ 37.98	124%
4"	13	$ 30.58	$ 120.32	$ 89.74	293%
6"	3	$ 30.58	$ 223.84	$ 193.26	632%

Recommended Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 82.74	$ 1.16	1%
3/4"	63	$ 81.58	$ 82.74	$ 1.16	1%
1"	183	$ 81.58	$ 82.74	$ 1.16	1%
1.5"	51	$ 81.58	$ 85.98	$ 4.40	5%
2"	122	$ 81.58	$ 102.15	$ 20.57	25%
3"	5	$ 81.58	$ 121.56	$ 39.98	49%
4"	13	$ 81.58	$ 173.32	$ 91.74	112%
6"	3	$ 81.58	$ 276.84	$ 195.26	239%

Recommended Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 20.30	$ (10.28)	-34%
3/4"	63	$ 30.58	$ 20.30	$ (10.28)	-34%
1"	183	$ 30.58	$ 20.30	$ (10.28)	-34%
1.5"	51	$ 30.58	$ 20.30	$ (10.28)	-34%
2"	122	$ 30.58	$ 20.30	$ (10.28)	-34%
3"	5	$ 30.58	$ 20.30	$ (10.28)	-34%
4"	13	$ 30.58	$ 20.30	$ (10.28)	-34%
6"	3	$ 30.58	$ 20.30	$ (10.28)	-34%

Recommended Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 78.30	$ (3.28)	-4%
3/4"	63	$ 81.58	$ 78.30	$ (3.28)	-4%
1"	183	$ 81.58	$ 78.30	$ (3.28)	-4%
1.5"	51	$ 81.58	$ 78.30	$ (3.28)	-4%
2"	122	$ 81.58	$ 78.30	$ (3.28)	-4%
3"	5	$ 81.58	$ 78.30	$ (3.28)	-4%
4"	13	$ 81.58	$ 78.30	$ (3.28)	-4%
6"	3	$ 81.58	$ 78.30	$ (3.28)	-4%

APPENDIX D: ALTERNATIVE RECOMMENDED WATER RATE DESIGN

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study

Alternative Recommended Water Rate Design - 1/2 AWWA Meter Equivalancy Factors, Current Volumetric

Residential Rates

Total Active Meters		2,317									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge		See Below	Total Test Year Bills	27,804	Customer Charge Revenue	$ 352,832
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$	2.35	Total Tier 1 kGal	105,541	Tier 1 Charge Revenue	$ 248,021
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$	2.55	Total Tier 2 kGal	28,487	Tier 2 Charge Revenue	72,642
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$	2.75	Total Tier 3 kGal	27,829	Tier 3 Charge Revenue	76,530
								Total Tier 1-3 kGal	**161,857**	Total Volumetric Revenue	$ 397,193
								kGal Included in Base	70,043	**Total Revenue**	**$ 750,025**
								Total kGal	**231,900**		

Meter Size	Customer Charge
5/8"	$ 12.63
3/4"	$ 12.63
1"	$ 12.63
1 1/2"	$ 31.58

Revenue Requirement (FY 2016)	$ 916,281
Total Revenue	$ 750,025
Avg. Monthly kGal Usage	8.34
Avg Monthly Cost (1" Meter)	$ 32.23
% Fixed Revenue	47.04%
% Variable Revenue	52.96%

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Alternative Recommended Water Rate Design - 1/2 AWWA Meter Equivalancy Factors, Current Volumetric

Commercial Rates

Total Active Meters		460									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge	See Below	Total Test Year Bills	5,520	Customer Charge Revenue	$	175,279
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.35	Total Tier 1 kGal	30,061	Tier 1 Charge Revenue	$	70,643
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.55	Total Tier 2 kGal	15,703	Tier 2 Charge Revenue		40,042
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$ 2.75	Total Tier 3 kGal	146,208	Tier 3 Charge Revenue		402,071
						Total Tier 1-3 kGal	**191,971**	Total Volumetric Revenue	$	512,756
						kGal Included in Base	12,307	**Total Revenue**	**$**	**688,036**
						Total kGal	**204,279**			

Meter Size	Customer Charge
5/8"	$ 12.63
3/4"	$ 12.63
1"	$ 12.63
1 1/2"	$ 31.58
2"	$ 50.52
3"	$ 94.73
4"	$ 157.88
6"	$ 315.75

Revenue Requirement (FY 2016)	$ 579,197
Total Revenue	$ 688,036
Avg. Monthly kGal Usage	37.01
Avg Monthly Cost (1" Meter)	$ 106.40
% Fixed Revenue	25.48%
% Variable Revenue	74.52%

Page Utilitiy Enterprises - 2015 Water/ Sewer COS & Rate Design Study

Alternative Recommended Water Rate Design - 1/2 AWWA Meter Equivalancy Factors, Current Volumetric

Irrigation Rates

Total Active Meters		88									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge		See Below	Total Test Year Bills	1,056	Customer Charge Revenue	$ 33,571
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$	2.35	Total Tier 1 kGal	6,666	Tier 1 Charge Revenue	$ 15,665
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$	2.55	Total Tier 2 kGal	4,361	Tier 2 Charge Revenue	11,121
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$	2.55	Total Tier 3 kGal	95,895	Tier 3 Charge Revenue	244,531
								Total Tier 1-3 kGal	**106,922**	Total Volumetric Revenue	$ 271,317
								kGal Included in Base	2,160	**Total Revenue**	**$ 304,888**
								Total kGal	**109,081**		

Meter Size	Customer Charge
5/8"	$ -
3/4"	$ -
1"	$ -
1 1/2"	$ 31.58
2"	$ 50.52
3"	$ 94.73
4"	$ 157.88
6"	$ 315.75

Revenue Requirement (FY 2016)	$ 247,494
Total Revenue	$ 304,888
Avg. Monthly kGal Usage	103.30
Avg Monthly Cost (1" Meter)	$ 260.41
% Fixed Revenue	11.01%
% Variable Revenue	88.99%

Alternative Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 14.59	$ 0.46	3%
3/4"	587	$ 14.13	$ 14.59	$ 0.46	3%
1"	911	$ 14.13	$ 14.59	$ 0.46	3%
1.5"	6	$ 14.13	$ 14.59	$ 0.46	3%

Alternative Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 19.45	$ 0.62	3%
3/4"	587	$ 18.83	$ 19.45	$ 0.62	3%
1"	911	$ 18.83	$ 19.45	$ 0.62	3%
1.5"	6	$ 18.83	$ 19.45	$ 0.62	3%

Alternative Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	587	$ 30.58	$ 31.60	$ 1.02	3%
1"	911	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	6	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	63	$ 30.58	$ 31.60	$ 1.02	3%
1"	183	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	51	$ 30.58	$ 31.60	$ 1.02	3%
2"	122	$ 30.58	$ 31.60	$ 1.02	3%
3"	5	$ 30.58	$ 31.60	$ 1.02	3%
4"	13	$ 30.58	$ 31.60	$ 1.02	3%
6"	3	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 84.25	$ 2.67	3%
3/4"	63	$ 81.58	$ 84.25	$ 2.67	3%
1"	183	$ 81.58	$ 84.25	$ 2.67	3%
1.5"	51	$ 81.58	$ 84.25	$ 2.67	3%
2"	122	$ 81.58	$ 84.25	$ 2.67	3%
3"	5	$ 81.58	$ 84.25	$ 2.67	3%
4"	13	$ 81.58	$ 84.25	$ 2.67	3%
6"	3	$ 81.58	$ 84.25	$ 2.67	3%

Alternative Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	63	$ 30.58	$ 31.60	$ 1.02	3%
1"	183	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	51	$ 30.58	$ 31.60	$ 1.02	3%
2"	122	$ 30.58	$ 31.60	$ 1.02	3%
3"	5	$ 30.58	$ 31.60	$ 1.02	3%
4"	13	$ 30.58	$ 31.60	$ 1.02	3%
6"	3	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 84.25	$ 2.67	3%
3/4"	63	$ 81.58	$ 84.25	$ 2.67	3%
1"	183	$ 81.58	$ 84.25	$ 2.67	3%
1.5"	51	$ 81.58	$ 84.25	$ 2.67	3%
2"	122	$ 81.58	$ 84.25	$ 2.67	3%
3"	5	$ 81.58	$ 84.25	$ 2.67	3%
4"	13	$ 81.58	$ 84.25	$ 2.67	3%
6"	3	$ 81.58	$ 84.25	$ 2.67	3%

Appendix E: Alternative 1 Water Rate Design

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Alternative Water Rate Design 1 - Blanket % Increase

Residential Rates

Total Active Meters		2,317									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge	See Below	Total Test Year Bills	27,803	Customer Charge Revenue	$	406,011
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.43	Total Tier 1 kGal	105,541	Tier 1 Charge Revenue	$	256,465
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.63	Total Tier 2 kGal	28,487	Tier 2 Charge Revenue		74,921
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$ 2.84	Total Tier 3 kGal	27,829	Tier 3 Charge Revenue		79,034
							Total Tier 1-3 kGal	**161,857**	Total Volumetric Revenue	$	410,420
							kGal Included in Base	70,043	**Total Revenue**	**$**	**816,430**
							Total kGal	**231,900**			

Meter Size	Customer Charge
5/8"	$ 14.59
3/4"	$ 14.59
1"	$ 14.59
1 1/2"	$ 14.59

Revenue Requirement (FY 2016)	$	916,281
Total Revenue	$	816,430
Avg. Monthly kGal Usage		8.34
Avg Monthly Cost (1" Meter)	$	34.86
% Fixed Revenue		49.73%
% Variable Revenue		50.27%

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Alternative Water Rate Design 1 - Blanket % Increase

Commercial Rates

Total Active Meters		460									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge	See Below	Total Test Year Bills	5,515	Customer Charge Revenue	$	80,537
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.43	Total Tier 1 kGal	30,061	Tier 1 Charge Revenue	$	73,048
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.63	Total Tier 2 kGal	15,703	Tier 2 Charge Revenue		41,299
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$ 2.84	Total Tier 3 kGal	146,208	Tier 3 Charge Revenue		415,230
							Total Tier 1-3 kGal	**191,971**	Total Volumetric Revenue	$	529,576
							kGal Included in Base	12,307	**Total Revenue**	**$**	**610,113**
							Total kGal	**204,279**			

Meter Size	Customer Charge
5/8"	$ 14.59
3/4"	$ 14.59
1"	$ 14.59
1 1/2"	$ 14.59
2"	$ 14.59
3"	$ 14.59
4"	$ 14.59
6"	$ 14.59

Revenue Requirement (FY 2016)	$	579,197
Total Revenue	$	610,113
Avg. Monthly kGal Usage		37.04
Avg Monthly Cost (1" Meter)	$	111.54
% Fixed Revenue		13.20%
% Variable Revenue		86.80%

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Alternative Water Rate Design 1 - Blanket % Increase

Irrigation Rates

Total Active Meters		88									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge	See Below	Total Test Year Bills	1,054	Customer Charge Revenue	$	15,582
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.43	Total Tier 1 kGal	6,666	Tier 1 Charge Revenue	$	16,199
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.63	Total Tier 2 kGal	4,361	Tier 2 Charge Revenue		11,470
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$ 2.84	Total Tier 3 kGal	95,895	Tier 3 Charge Revenue		272,341
							Total Tier 1-3 kGal	**106,922**	Total Volumetric Revenue	$	300,009
							kGal Included in Base	2,160	**Total Revenue**	**$**	**315,591**
							Total kGal	**109,081**			

Meter Size	Customer Charge
5/8"	$ 14.59
3/4"	$ 14.59
1"	$ 14.59
1 1/2"	$ 14.59
2"	$ 14.59
3"	$ 14.59
4"	$ 14.59
6"	$ 14.59

Revenue Requirement (FY 2016)	$ 247,494
Total Revenue	$ 315,591
Avg. Monthly kGal Usage	103.45
Avg Monthly Cost (1" Meter)	$ 300.14
% Fixed Revenue	4.94%
% Variable Revenue	95.06%

Alternative Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 14.59	$ 0.46	3%
3/4"	587	$ 14.13	$ 14.59	$ 0.46	3%
1"	911	$ 14.13	$ 14.59	$ 0.46	3%
1.5"	6	$ 14.13	$ 14.59	$ 0.46	3%

Alternative Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 19.45	$ 0.62	3%
3/4"	587	$ 18.83	$ 19.45	$ 0.62	3%
1"	911	$ 18.83	$ 19.45	$ 0.62	3%
1.5"	6	$ 18.83	$ 19.45	$ 0.62	3%

Alternative Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	587	$ 30.58	$ 31.60	$ 1.02	3%
1"	911	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	6	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	63	$ 30.58	$ 31.60	$ 1.02	3%
1"	183	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	51	$ 30.58	$ 31.60	$ 1.02	3%
2"	122	$ 30.58	$ 31.60	$ 1.02	3%
3"	5	$ 30.58	$ 31.60	$ 1.02	3%
4"	13	$ 30.58	$ 31.60	$ 1.02	3%
6"	3	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 84.25	$ 2.67	3%
3/4"	63	$ 81.58	$ 84.25	$ 2.67	3%
1"	183	$ 81.58	$ 84.25	$ 2.67	3%
1.5"	51	$ 81.58	$ 84.25	$ 2.67	3%
2"	122	$ 81.58	$ 84.25	$ 2.67	3%
3"	5	$ 81.58	$ 84.25	$ 2.67	3%
4"	13	$ 81.58	$ 84.25	$ 2.67	3%
6"	3	$ 81.58	$ 84.25	$ 2.67	3%

Alternative Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 31.60	$ 1.02	3%
3/4"	63	$ 30.58	$ 31.60	$ 1.02	3%
1"	183	$ 30.58	$ 31.60	$ 1.02	3%
1.5"	51	$ 30.58	$ 31.60	$ 1.02	3%
2"	122	$ 30.58	$ 31.60	$ 1.02	3%
3"	5	$ 30.58	$ 31.60	$ 1.02	3%
4"	13	$ 30.58	$ 31.60	$ 1.02	3%
6"	3	$ 30.58	$ 31.60	$ 1.02	3%

Alternative Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 84.25	$ 2.67	3%
3/4"	63	$ 81.58	$ 84.25	$ 2.67	3%
1"	183	$ 81.58	$ 84.25	$ 2.67	3%
1.5"	51	$ 81.58	$ 84.25	$ 2.67	3%
2"	122	$ 81.58	$ 84.25	$ 2.67	3%
3"	5	$ 81.58	$ 84.25	$ 2.67	3%
4"	13	$ 81.58	$ 84.25	$ 2.67	3%
6"	3	$ 81.58	$ 84.25	$ 2.67	3%

Appendix F: Alternative 2 Water Rate Design

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Alternate Water Rate Design 2 - AWWA Meter Equivalancy Factors, 40% Fixed for Residential & Commercial

Residential Rates

Total Active Meters		2,317									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge	See Below	Total Test Year Bills	27,804	Customer Charge Revenue	$ 330,363
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.00	Total Tier 1 kGal	105,541	Tier 1 Charge Revenue	$ 211,082
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.25	Total Tier 2 kGal	28,487	Tier 2 Charge Revenue	64,096
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$ 2.55	Total Tier 3 kGal	27,829	Tier 3 Charge Revenue	70,964
						Total Tier 1-3 kGal	**161,857**	Total Volumetric Revenue	$ 346,142
						kGal Included in Base	70,043	**Total Revenue**	**$ 676,505**
						Total kGal	**231,900**		

Meter Size	Customer Charge
5/8"	$ 11.75
3/4"	$ 11.75
1"	$ 11.75
1 1/2"	$ 58.75

Revenue Requirement (FY 2016)	$ 916,281
Total Revenue	$ 676,505
Avg. Monthly kGal Usage	8.34
Avg Monthly Cost (1" Meter)	$ 28.43
% Fixed Revenue	48.83%
% Variable Revenue	51.17%

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Alternate Water Rate Design 2 - AWWA Meter Equivalancy Factors, 40% Fixed for Residential & Commercial

Commercial Rates

Total Active Meters		460									
Base Customer Charge Includes	3	k Gallons		Base Customer Charge	See Below	Total Test Year Bills	5,520	Customer Charge Revenue	$ 288,627
Water Tier 1 - From	3	k Gallons to	15 k Gallons	Tier 1 Charge (per 1k Gallons)	$ 2.00	Total Tier 1 kGal	30,061	Tier 1 Charge Revenue	$ 60,122
Water Tier 2 - From	15	k Gallons to	25 k Gallons	Tier 2 Charge (per 1k Gallons)	$ 2.25	Total Tier 2 kGal	15,703	Tier 2 Charge Revenue	35,332
Water Tier 3 - Over	25			Tier 3 Charge (per 1k Gallons)	$ 2.55	Total Tier 3 kGal	146,208	Tier 3 Charge Revenue	372,830
						Total Tier 1-3 kGal	**191,971**	Total Volumetric Revenue	$ 468,283
						kGal Included in Base	12,307	**Total Revenue**	**$ 756,910**
						Total kGal	**204,279**		

Meter Size	Customer Charge
5/8"	$ 11.75
3/4"	$ 11.75
1"	$ 11.75
1 1/2"	$ 58.75
2"	$ 94.00
3"	$ 176.25
4"	$ 293.75
6"	$ 587.50

Revenue Requirement (FY 2016)	$ 579,197
Total Revenue	$ 756,910
Avg. Monthly kGal Usage	37.01
Avg Monthly Cost (1" Meter)	$ 94.87
% Fixed Revenue	38.13%
% Variable Revenue	61.87%

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Alternate Water Rate Design 2 - AWWA Meter Equivalancy Factors, 40% Fixed for Residential & Commercial

Irrigation Rates

Total Active Meters		88									
Base Customer Charge Includes	3	k Gallons			Base Customer Charge		See Below	Total Test Year Bills	1,056	Customer Charge Revenue	$ 69,936
Water Tier 1 - From	3	k Gallons to	15	k Gallons	Tier 1 Charge (per 1k Gallons)	$	2.00	Total Tier 1 kGal	6,666	Tier 1 Charge Revenue	$ 13,332
Water Tier 2 - From	15	k Gallons to	25	k Gallons	Tier 2 Charge (per 1k Gallons)	$	2.25	Total Tier 2 kGal	4,361	Tier 2 Charge Revenue	9,812
Water Tier 3 - Over	25				Tier 3 Charge (per 1k Gallons)	$	2.25	Total Tier 3 kGal	95,895	Tier 3 Charge Revenue	215,763
								Total Tier 1-3 kGal	**106,922**	Total Volumetric Revenue	$ 238,907
								kGal Included in Base	2,160	**Total Revenue**	**$ 308,843**
								Total kGal	**109,081**		

Meter Size	Customer Charge
5/8"	$ 11.75
3/4"	$ 11.75
1"	$ 11.75
1 1/2"	$ 58.75
2"	$ 94.00
3"	$ 176.25
4"	$ 293.75
6"	$ 587.50

Revenue Requirement (FY 2016)	$ 247,494
Total Revenue	$ 308,843
Avg. Monthly kGal Usage	103.30
Avg Monthly Cost (1" Meter)	$ 240.42
% Fixed Revenue	22.64%
% Variable Revenue	77.36%

Page Utilitiy Enterprises - 2015 Water/ Sewer COS& Rate Design Study
Alternative Water Rate Design 2 - Rate Impacts

Alternative Residential Bill Impacts @ 3,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 14.13	$ 11.75	$ (2.38)	-17%
3/4"	587	$ 14.13	$ 11.75	$ (2.38)	-17%
1"	911	$ 14.13	$ 11.75	$ (2.38)	-17%
1.5"	6	$ 14.13	$ 58.75	$ 44.62	316%

Alternative Residential Bill Impacts @ 5,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 18.83	$ 15.75	$ (3.08)	-16%
3/4"	587	$ 18.83	$ 15.75	$ (3.08)	-16%
1"	911	$ 18.83	$ 15.75	$ (3.08)	-16%
1.5"	6	$ 18.83	$ 62.75	$ 43.92	233%

Alternative Residential Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	792	$ 30.58	$ 25.75	$ (4.83)	-16%
3/4"	587	$ 30.58	$ 25.75	$ (4.83)	-16%
1"	911	$ 30.58	$ 25.75	$ (4.83)	-16%
1.5"	6	$ 30.58	$ 72.75	$ 42.17	138%

Alternative Commercial Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 25.75	$ (4.83)	-16%
3/4"	63	$ 30.58	$ 25.75	$ (4.83)	-16%
1"	183	$ 30.58	$ 25.75	$ (4.83)	-16%
1.5"	51	$ 30.58	$ 72.75	$ 42.17	138%
2"	122	$ 30.58	$ 108.00	$ 77.42	253%
3"	5	$ 30.58	$ 190.25	$ 159.67	522%
4"	13	$ 30.58	$ 307.75	$ 277.17	906%
6"	3	$ 30.58	$ 601.50	$ 570.92	1867%

Alternative Commercial Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 71.00	$ (10.58)	-13%
3/4"	63	$ 81.58	$ 71.00	$ (10.58)	-13%
1"	183	$ 81.58	$ 71.00	$ (10.58)	-13%
1.5"	51	$ 81.58	$ 118.00	$ 36.42	45%
2"	122	$ 81.58	$ 153.25	$ 71.67	88%
3"	5	$ 81.58	$ 235.50	$ 153.92	189%
4"	13	$ 81.58	$ 353.00	$ 271.42	333%
6"	3	$ 81.58	$ 646.75	$ 565.17	693%

Alternative Irrigation Bill Impacts @ 10,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 30.58	$ 25.75	$ (4.83)	-16%
3/4"	63	$ 30.58	$ 25.75	$ (4.83)	-16%
1"	183	$ 30.58	$ 25.75	$ (4.83)	-16%
1.5"	51	$ 30.58	$ 72.75	$ 42.17	138%
2"	122	$ 30.58	$ 108.00	$ 77.42	253%
3"	5	$ 30.58	$ 190.25	$ 159.67	522%
4"	13	$ 30.58	$ 307.75	$ 277.17	906%
6"	3	$ 30.58	$ 601.50	$ 570.92	1867%

Alternative Irrigation Bill Impacts @ 30,000 Gallons Usage

Meter Size	FY 2015 Customers	Current Bill	Recommended Bill	Increase ($)	Increase (%)
5/8"	21	$ 81.58	$ 71.00	$ (10.58)	-13%
3/4"	63	$ 81.58	$ 71.00	$ (10.58)	-13%
1"	183	$ 81.58	$ 71.00	$ (10.58)	-13%
1.5"	51	$ 81.58	$ 118.00	$ 36.42	45%
2"	122	$ 81.58	$ 153.25	$ 71.67	88%
3"	5	$ 81.58	$ 235.50	$ 153.92	189%
4"	13	$ 81.58	$ 353.00	$ 271.42	333%
6"	3	$ 81.58	$ 646.75	$ 565.17	693%

APPENDIX G: STAKEHOLDER MEETING AND RESULTS

As discussed earlier, in order to ensure that customer concerns and input are considered in the development of the rates, a stakeholder meeting should be convened with various representing residential and commercial customers. Additionally we recommend council members, board members, and senior staff members participate in the meetings and provided input. Over the course of the meetings GDS will:

- Educate stakeholders on the rate study process;
- Review the challenges within the water and wastewater industry in general;
- Assist stakeholders in filling out and submitting a pricing objectives survey;
- Identify key objectives in the operation of Page Utilities Enterprises water and wastewater system;
- Review customer classes and their usage requirements;
- Review key assumptions used in the study, revenues and expenses, and the *overall* needed revenue increase;
- Identify and discuss two major issues: Non-residential customers being billed as Residential and the use of meter size to allocate costs to customers based on volumetric potential; and
- Gave general descriptions of possible rate options and pros/cons of each.

The Stakeholder Survey consists of asking the Stakeholders to rank in importance the 12 objectives listed below. The objectives and their explanations will be reviewed within the group and are further discussed within the Overview section of this report.

Rate Study Objectives

- Financial Sufficiency
- Cost of Service-Based Allocations
- Rate Stability
- Revenue Stability
- Simple to Understand and Update
- Ease of Implementation
- Defensibility
- Minimization of Customer Impacts
- Equitable Contributions from New Customers
- Economic Development
- Affordability to Disadvantaged Customers
- Conservation of Natural Resources

Each stakeholder will be asked to rank a maximum of (1) objective as "Most Important", (2) objectives as "Very Important" and the remaining objectives as "Important" or "Least Important" depending on the stakeholder's views.

Each objective will be given a weight – 4 points for those ranked Most Important, 3 points for those ranked Very Important, 2 points for those ranked Important, and 1 point for those ranked least important. After review, GDS will summarize the results of the meeting and Stakeholder Survey for the council.

Appendix H: Comparison to Utility Performance Benchmarks

Benchmark Study

Since 1995, The American Water Works Association (AWWA) has published a benchmarking data study that compares performance metrics for water, wastewater and combined utility systems. The data provided by the study is a useful tool that can be used to compare Page Utility's performance metrics to nationwide averages but it must be stressed that the companies and municipalities surveyed will differ from page in size, location, water sources and regulatory environment. The results below are a good starting point to identify where inefficiencies may lie and what areas may bear further investigation.

We have included Page's measure at both currently staffed and fully staffed levels. At the time of this report, there were two vacancies.

Metric performance levels are provided by AWWA as quartiles, specifically the 25th, 50th, and 75th percentile levels. Generally, a higher quartile represents a more desirable placement.

Customer Accounts per Employee

This measure shows employee efficiency as expressed by total combined water and wastewater accounts per employee of the utility (as FTEs) per year.

Top Quartile	Median	Bottom Quartile	Page Current	Page Fully Staffed
836	616	433	393	344

On an allocated employee basis, Page Utilities has the following number of FTE employees per water account:

Top Quartile	Median	Bottom Quartile	Page Current	Page Fully Staffed
618	438	325	430	388

On an allocated employee basis, Page Utilities has the following number of FTE employees per sewer account:

Top Quartile	Median	Bottom Quartile	Page Current	Page Fully Staffed
1,127	616	433	360	306

MGD Water Produced per Employee

This indicator shows employee efficiency as expressed by total production of water per employee of the utility (as FTEs) per year.

Top Quartile	Median	Bottom Quartile	Page Current	Page Fully Staffed
.35	.24	.16	.24	.21

MGD Wastewater Produced per Employee

This indicator shows employee efficiency as expressed by total wastewater processed per employee of the utility (as FTEs) per year.

Top Quartile	Median	Bottom Quartile	Page Current	Page Fully Staffed
.35	.23	.13	.13	.11

As indicated in the Introduction of this report, the Benchmarking comparison is perfunctory in nature and not an indication of whether staffing levels should or should not be modified. However, in our view, the results do warrant further assessment of staffing levels by an expert knowledgeable with water and wastewater facilities and their required staffing levels. We recommend the city contact:

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