



# City of Woodland

## REPORT TO MAYOR AND CITY COUNCIL

AGENDA ITEM

TO: THE HONORABLE MAYOR  
AND CITY COUNCIL

DATE: November 3, 2009

SUBJECT: Water Rate Study and Proposed Water Rate Increase

### **Report in Brief**

The City of Woodland is committed to improving water quality and service for all water utility customers. To accomplish this, a water rate increase has been proposed that will replace aging infrastructure, address water quality through the surface water project, improve water pressure throughout the City and conserve existing water supplies. In addition, the new rates will comply with State law that requires consumption based billing in order to facilitate water conservation throughout California.

The development of the water rates proposed herein was supported through the engagement of HDR Engineering, Inc. who conducted a water rate study. Finance and Public Works staff worked collaboratively with the consultants to evaluate operational and capital costs. This work consisted of comparing the revenues of the utility to the expenses (operations, maintenance, and capital needs) to determine the overall level of rate adjustment required. A rate structure was then designed to incorporate consumption-based rates and to equitably allocate the revenue requirements between various customer classes of service.

One of the challenges associated with the rate study was to address the impact of deferred maintenance of the water utility infrastructure and the implementation of the Davis-Woodland Water Supply Project (Surface Water Project). Deferred maintenance includes the need to replace aging ground water wells and pipes that are between 30-50 years old and have either exceeded or will exceed their useful life over the next ten years. The Surface Water Project will provide water from the Sacramento River in order to diversify Woodland's water supply and provide a safe, reliable, and readily available, source of water. In accordance with Proposition 218 enacted by the voters in 1998, notifications of the proposed rates have been sent to all parcel owners in Woodland and notice of the Public Hearing has been placed in the Daily Democrat on September 18, 2009 and October 2, 2009. Additionally, the notification was made available on the City's website in both English and Spanish. In keeping with the 45-day noticing requirement, the notifications were mailed on September 18, 2009 with the Public Hearing date of November 3, 2009.

Staff recommends that the City Council conduct a public hearing and tally the protest ballots after the close of the hearing. If protests total less than 50% of the property owners, it is also recommended that Council approve the following actions:

- a. Adopt the proposed ordinance amending the Municipal Code of the City of Woodland relating to utility billing and adopt water rates as prescribed by the attached rate study with the first increases to be effective January 1, 2010 to include consumption based rates and a 20% increase with scheduled increases of 20% on July 1, 2010; July 1, 2011; and July 1, 2012 to support the water utility capital projects and Surface Water Project described herein;
- b. Direct staff to develop a Utility Assistance Program utilizing Community Development Block Grant Funds or other appropriate funds in the amount of up to \$50,000 per year to help minimize the impacts of the rate increases for those who qualify for the program;
- c. Delay the actual implementation of consumption-based billing for residential users until November 2010. Homeowners that have meters at that time will be provided several months of water use data (“Sample Billings”) prior to implementing consumption based billing. This delay in actual consumption-based billing will provide them with information necessary to determine if they have water leaks that need to be repaired and to adjust their water use patterns.

### **Background**

The last major increase in the water rates were approved by Council in June of 2005 in accordance with a rate study conducted by Bartle Wells which included phased increases beginning July 1, 2005 with the last increase occurring on July 1, 2008. Subsequently, very minor increases consistent with the Construction Cost Index have been implemented as approved each year.

Since the last rate modifications were approved, a number of issues have arisen which have prompted the City to conduct another rate study. These issues include a State mandate to convert from flat rate to consumption-based billing for all post-1991 residential construction by January 1, 2010, as well as the identification of significant deferred maintenance within the water utility infrastructure.

The City of Woodland faces numerous water infrastructure challenges that must be addressed in order to maintain the existing level of service to water utility customers. These challenges include maintaining adequate water pressure in order to keep sufficient amounts of water flowing in the water system. Water pressure is also an important public safety factor that impacts water quality and fire protection. The City does not currently have sufficient pumping capability to meet high water demand conditions such as hot summer days when home and business use will cause pressure to drop to very low levels. As this occurs, water pressure is often inadequate to provide proper fire protection on a citywide basis. In addition, Woodland’s groundwater supply levels and quality are declining, forcing staff to review water treatment alternatives and other sources of water. Critical

components of the water system are nearing or have reached the end of their ability to operate and must be replaced.

Additionally, the City of Woodland is embarking on a joint effort with the City of Davis and the University of California, Davis to design and construct a surface water delivery system, the Davis-Woodland Water Supply Project. The Surface Water Project, administered by a recently formed Joint Powers Authority (JPA), will present significant funding challenges over the course of the next several years and this rate study will facilitate the short-term revenue required to begin that project.

Attachment No. 1 summarizes the major capital projects developed to address the aging water utility infrastructure and the Surface Water Project.

In April of 2008, the services of HDR Engineering, Inc. were secured to perform an analysis related to operational and capital water utility needs as well as the development of a consumption-based rate model. Staff worked very closely with HDR to provide input and analyze the calculations being generated during each step of the rate study process. The proposed changes to the water rate structure, as well as the proposed increase of 20% beginning January 1, 2010 to flat rates were reviewed by staff and presented to the City Council Infrastructure Subcommittee on September 1, 2009. The Infrastructure Subcommittee favorably reviewed the proposed rate structure changes and 20% increase. In accordance with Proposition 218, notifications of the proposed rate changes were mailed to property owners using information obtained from the Yolo County Assessors Office. Additionally, the notification was made available on the City's website in English and Spanish and was published in the Daily Democrat on September 18<sup>th</sup> and October 2<sup>nd</sup>. A copy of both the English and Spanish version of the notification is included as Attachment No. 2.

### **Discussion**

For decades Woodland has utilized groundwater as a reliable, safe and very low cost water supply. As the City grew from 1950-1980, the demand to meet the residential and business needs was met by drilling new groundwater wells. As a result, 17 of the City's 20 wells have been in operation 29 years or longer with two at 50 years of service and three at 40 years and over. The optimum service life of a groundwater well is 30 years; after that point, it will often cost more to maintain the well as operable. In fact, three of the City's older wells are currently inoperable.

The more recent growth that occurred in Woodland during the 1990's and after 2000 funded the construction of new wells through the assessment of development impact fees to meet the demand for water in the southeast area. However, the City has not addressed the need to replace wells as they neared the end of their useful life. The groundwater wells built between 1950-1980 have become inefficient and many are in areas where the groundwater levels and quality have declined. The City's water utility system is facing a number of challenges that have been deferred in the past and have become increasing more urgent and critical to address. These issues can be addressed in four main categories:

1. Replacement of Aging Infrastructure
2. Compliance with State Water Quality Standards through the Surface Water Project
3. Improved Fire Protection and Water Pressure
4. Water Conservation and Drought Preparedness

### **Replacement of Aging Infrastructure**

To continue to utilize Woodland's groundwater as an affordable water supply several issues need to be addressed. In order to address these issues, the City will need to:

- **Improve Preventive Maintenance:** Existing wells will need to be maintained and repaired on a more frequent basis. This will lead to increasingly higher operational costs until well failures occur to the point that repair is not possible or cost effective.
- **Implement Equipment Replacement:** Major equipment such as well pumps and well casings will need to be replaced as the components wear out. Based on video and other inspection and evaluation methods staff has established a capital replacement plan for these wells which is consistent the work outlined in the Rate Study. Usually replacement wells will be re-drilled near the existing well. In some cases it is more cost effective to provide replacement-pumping capacity with ground level storage tanks and associated booster pumps. This also fits into the long-term planning for the local improvements for the Surface Water Project.
- **Protect Water Supplies:** The City will need to insure that unused public and private wells are properly abandoned to prevent the shallow contaminated groundwater from moving down the well casing and well's gravel pack and contaminating the lower water bearing zones used for the water supply.
- **Provide a Reliable Water Distribution System:** Aging water system pipelines are failing at an accelerative rate. Smaller diameter pipelines that are made of galvanized metal are rusting and leaking. Older larger diameter pipelines are often connected with lead joints. These joints are brittle and where these pipes are too shallow heavy truck traffic causes pipe joints to flex and leak. Lead in a water system can affect water quality. The City will need to repair and replace aging pipelines, valves and other components required to distribute the water to homes and businesses.

### **Compliance with State Water Quality Standards through the Surface Water Project**

It is essential that the City provide water that meets both the Safe Drinking Water Standards and the State's Wastewater Discharge Requirements contained in the National Pollution Discharge Elimination System (NPDES) Permit. While the water meets current drinking water standards, it does not meet the proposed standards for wastewater discharge. The Surface Water Project will address these water quality requirements in a cost effective manner through the following strategies:

- **Improve Water Quality:** All of the wells have substantial concentration of salt, boron and selenium which the State Regional Water Quality Control Board is or will be requiring the City to reduce. The City's groundwater is the primary source of these minerals in the wastewater discharge. To treat and to transport the waste byproducts from the water treatment would be more than double the cost of utilizing an improved water supply from the Sacramento River. This is one of many reasons it is important to utilize the Sacramento River as the community's future primary water source. Improved water quality from the Sacramento River has many other benefits to water utility customers, including reducing the cost to treat hard water, improved taste and favorable impact on landscaping.
- **Manage Water Resources and Operating Costs:** To minimize the cost of supplying water the City will continue to use groundwater wells to supplement Sacramento River water to meet high use demands, reduce the cost of purchasing water and to serve as a backup water supply.

### **Improved Fire Protection and Water Pressure**

The City's Fire Department has expressed concerns over the City's relatively low water pressure. It is critical to have sufficient water pressure at both the fire hydrants at the street and to the fire sprinkler systems that exist in many homes and businesses. To provide sufficient water pressure a larger and taller water storage tank that can store more water at its capacity level is needed. To accomplish this, the following work is in progress:

- **Replacement of the Beamer Water Tank:** A new water tank on Beamer Street which will replace the existing tank is under construction. The existing tank needed extensive reconstruction that was not cost-effective and structurally did not meet current seismic standards. The new tank will be 20 feet taller which will allow a more normal and higher operational water pressure. The tank will contain 400,000 gallons of water which is one third larger than the existing tank.
- **Efficient Well Operation:** To have better operational control and to keep the operational level of the water up closer to the capacity of the new tank a radio communication system will be installed to coordinate the pumping of City wells. This system will also improve efficiency and reduce electrical costs. Wells currently use crude pressure switches to turn themselves on and off. This outdated system is not accurate enough to keep the tank at a full level without overflowing the tank which is a dangerous and wasteful event.
- **Replacement Wells:** The replacement of four wells over the next 3.5 years is planned that would provide sufficient water to keep the tank at a proper operational level. Without sufficient wells and pumping capacity the tank will drain and not be able to sustain a proper water pressure.

### **Water Conservation and Drought Preparedness**

The drought over the last few years has brought to focus the need to reduce water use in order to comply with State mandated reductions (20% in 2020), reduce environmental damage, reduce carbon emissions, preserve groundwater supplies and reduce capital expenditures through conservation. Conservation will also minimize water utility operating costs which will collectively lead to lower long-term utility bills. Experts on drought preparedness recommend, to the extent possible, diversification of the City's water supply. The City will meet this objective through the following measures:

- **Water Meter Installation:** Studies on meter installation show that consumption based billing leads to a reduction of water use of 10%-25%. Such a reduction will greatly reduce pumping costs and reduce the number of wells that need to be replaced. This action in the short-term will reduce the deficit between high use water demands and pumping capacity which will help increase water pressure during those critical periods. The cost avoidance of drilling one or two wells and success in receiving almost \$15 million of federal economic stimulus funds collectively are supporting conservation and saving ratepayers in the long-term about \$51 dollars per year.
- **Water Conservation Education/Outreach:** The City has an ongoing water conservation program to help homeowners, businesses and other City operations improve water-use efficiencies. This includes providing homeowner rebates for water-efficient appliances, information on water-wise landscaping and outreach on conservation issues at public events. Environmental Services also distributes water conservation devices such as low-flow showerheads and hose nozzles. In addition, Environmental Services is working with the various City Departments to lower overall City water use.
- **Recharge of the Groundwater System:** As stated previously, the Surface Water Project is being implemented through a regional Joint Powers Authority to bring Sacramento River water to Woodland and Davis. Since the use of this new water source will reduce the amount of groundwater pumping it will also allow groundwater levels to recharge, have a much greater capacity and create increased stability in the groundwater aquifer during drought conditions. This will help provide access to adequate groundwater during extreme drought conditions.

The HDR rate study and proposed rate increases of 20% beginning January 1, 2010; July 1, 2010; July 1, 2011; and July 1, 2012 are necessary to both implement State mandated consumption metered water rates and to properly implement financial planning for having a sustainable water system. Staff believes the HDR rate study and the proposed series of four 20% rate increases responsibly provides sufficient revenue that meets the following conditions:

- Balances the essential needs of the water system with economic conditions.
- Includes only essential work items.
- Responsibly address likely current and future costs for utilities, materials, equipment replacement and operational staffing requirements.
- Provides for responsible debt service and responsible levels of long-term borrowing to minimize rate increases and provides for addressing current critical capital projects.
- Maintains reasonable and responsible reserve fund levels.
- Allows rates to stabilize in the future if the City remains committed to the Surface Water Project.

As an alternative to the 20% rate increases, the City Council could consider a 10% rate increase effective January 1, 2010 that would be followed by 20% increases on July 1, 2010; July 1, 2011; and July 1, 2012. This schedule would fund the water utility capital projects described herein and fund the implementation of the Surface Water Project. However, if the City remains committed to the Surface Water Project an additional fee increase of approximately 18% may be needed later in the 10-Year Financial Plan in order to fund the debt service and other costs related to Surface Water. Therefore, the 10% fee increase on January 1, 2010 could delay the long-term stabilization of rates.

Staff understands that in these difficult economic times it is important to recognize that some members of the community will be more impacted by these proposed increases than others. Therefore, the establishment of a Utility Rate Assistance Program with requirements similar to PG&E's Lifeline program is recommended to reduce the financial impact to lower income households. To transition into residential meter billing homeowners will be provided with several months of water use data ("Sample Billings") prior to the actual implementation of consumption based billing. The Sample Billing will provide homeowners with information so they can determine if they have water leaks, provide time to accomplish leak repairs, and time to more fully transition into active water conservation.

Beginning in April staff began charting the use of water by Woodland water utility customers in coordination with a program to promote conservation. Woodland water utility customers responded in an excellent manner to this initiative by reducing their use of water in April – September 2009 in comparison to the same period in 2008.

### **Fiscal Impact**

Adoption of the proposed rate structure change and rate increases will generate revenue sufficient for the current fiscal year and the next three years to address crucial operational and capital needs, including the fundamental and basic sustaining of the current water system and the initial costs

associated with the Surface Water Project. In addition to providing funding for the above referenced capital projects, water system enterprise reserves will be established to facilitate future financing associated with identified capital construction needs in accordance with the adopted 10-year Capital Budget.

### **Public Contact**

Over the last eighteen months the City has enclosed the “Woodland Water News” to water utility customers in their utility bills. This Newsletter was set up to help keep the public informed of the serious water system challenges, how it affects them and how the City plans to address these challenges. Information on the need for a new water supply source, low water pressure solutions, metering, the building of a new water tank, and related activities have been discussed. Similar information has been provided in press releases to the Daily Democrat. Staff has made several presentations to civic groups on these subjects. Individual letters have been sent to homeowners who have been affected by metering, well drilling, and tank construction.

Public notice has also been accomplished through posting of the City Council agenda and required Proposition 218 notifications.

### **Alternative Courses of Action**

1. Conduct a public hearing and tally the protest ballots after the close of the hearing. If protests total less than 50% of the property owners, it is recommended that the Council approve the following actions:
  - a. Adopt the proposed ordinance amending the Municipal Code of the City of Woodland relating to utility billing and adopt water rates as prescribed by the attached rate study with the first increase to be effective January 1, 2010 to include consumption based rates and a 20% increase with scheduled increases of 20% on July 1, 2010; July 1, 2011; and July 1, 2012 to support the water utility capital projects and the Surface Water Project as described herein;
  - b. Direct staff to develop a Utility Assistance Program utilizing Community Development Block Grant Funds or other appropriate funds in the amount of up to \$50,000 per year to help minimize the impacts of the rate increases for those who qualify for the program;
  - c. Delay the actual implementation of consumption-based billing for residential users until November 2010. Homeowners that have meters at that time will be provided several months of water use data (“Sample Billings”) prior to implementing consumption based billing. This delay in actual consumption-based billing will provide them with information necessary to determine if they have water leaks that need to be repaired and to adjust their water use patterns.

2. Conduct a public hearing and tally the protest ballots after the close of the hearing. If protests total less than 50% of the property owners, it is recommended that the Council approve the following actions:
  - a. Adopt the proposed ordinance amending the Municipal Code of the City of Woodland relating to utility billing and adopt water rates as prescribed by the attached rate study with the first increase of to be effective January 1, 2010 to include consumption based rates and a 10% increase with scheduled increases of 20% on July 1, 2010; July 1, 2011; and July 1, 2012 to support the water utility capital projects and the Surface Water Project as described herein;
  - b. Direct staff to develop a Utility Assistance Program utilizing Community Development Block Grant Funds in the amount of up to \$50,000 per year to help minimize the impacts of the rate increases for those who qualify for the program;
  - c. Delay the actual implementation of consumption-based billing for residential users until November 2010. Homeowners that have meters at that time will be provided several months of water use data (“Sample Billing”) prior to implementing consumption based billing. This delay in actual consumption-based billing will provide them with information necessary to determine if they have water leaks that need to be repaired and to adjust their water use patterns.
3. Provide alternative direction to staff.

**Recommendation for Action**

Staff recommends that the City Council approve Alternative No. 1.

Prepared by: Amber D’Amato  
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Attachments

# ATTACHMENT 1

## LIST OF CAPITAL PROJECTS - WATER

**Meter Implementation Plan (CIP#07-51):** work was completed in FY 2008/2009. This project included the preparation of the water meter implementation plan which included details for metering the whole city. This project also included the development of the Phase 1 (approximately 1/3 of the city) water meter retrofit construction bid documents. Phase 1 is necessary in order for the City to meet state requirements for metering all connections to the City's system that had been connected after January 1, 1992. All connections in this category (all of which are included in Phase 1) are required to be metered by January 1, 2010.

**Meter Implementation (CIP#08-08):** work included the construction portion of Phase 1 of the City's water meter project. This project is wrapping up in the fall of 2009. Phase 1 is necessary in order for the City meet state requirements for metering all connections to the City's system that had been connected after January 1, 1992. All connections in this category (all of which are included in Phase 1) are required to be metered by January 1, 2010.

**Stimulus Meter Project (CIP#09-22):** implements Phase 2 (approximately 2/3 of the city) of the City's water meter implementation plan. Although this project was not urgent (previously scheduled for the 2013, 2014, or 2015 timeframe), the opportunity for federal stimulus funds presented itself in the Spring of 2009, and the City secured a grant/loan package for \$14.8 million (\$7.4 million in grants and \$7.4 million of a favorable loan). This project has included the development of Phase 2 water meter retrofit construction bid documents. Teichert Construction was awarded the construction contract in September 2009 and construction notice to proceed was issued on September 28, 2009. The project is expected to last until September 2011; although could continue through September 2012. Although the City will ultimately be reimbursed for the costs of this project, the City must have funds available in order to pay project expenses until the State (administering the stimulus funds) reimburses the City. Ultimately, the City's participation in this grant/loan program will reduce the amount of future water rate increases since the ratepayers would have been required to fund the Phase 2 meter project through additional increased rates if the City had not received this grant and loan.

**Meter Project – (local share, rate-funded) (CIP#09-22):** is the same project as the “Stimulus Meter Project” mentioned above. However, a separate project budget was set up for the “local share, rate-funded” portion. The completion of the metering will involve more costs than are available from federal funds.

**Replace Elevated Tank (CIP#07-49):** work is replacing the City's existing elevated tank which is over 55 years old and at the end of its useful life. The replacement of this tank is needed to provide the City with water storage to help meet peak and emergency demands including fire protection. The new tank will support system operations, provide needed water storage, increase system pressures, and improve system reliability for emergency situations such as fire protection.

**Well Replacement (CIP#08-32):** would replace City wells before or after they have failed. The City currently relies only on groundwater wells for supply to serve customer demands. Of the City's 20 wells, 14 are over 30 years old (two of which are out of service) and three are 29 years old. Typically, groundwater wells have a useful life between 30-50 years. As the older wells in the City begin to fail, the system ends up losing vital supply capacity to meet the water demands of a growing City. Without replacing the wells, the City's water system will see a drop in operating pressures as the existing wells try to compensate for the lost supply, the pumping capacity of the remaining wells and flow from the storage tank may not be sufficient to meet all demand conditions, the system loses operation flexibility due to all remaining wells being necessary to operate to maintain minimum system standards, and water quality may suffer as the City would be forced to operate wells with lower quality water more often. When surface water becomes available to the City it will still need to rely on groundwater to meet demands. Wells being recommended for replacement take into consideration the future surface water supply and the projected demands of the City.

**Replace Well 22 (CIP#07-47):** work is included in the FY 2008/2009 CIP budget and is currently being completed. The replacement of Well 22 is needed for all of the reasons discussed in the Well Replacement CIP#08-32 above. Well 22 was built in 1995 but developed sand and gravel issues which reduced its production capacity and also had water quality issues for high nitrate and arsenic levels. This well is close to the recent large commercial developments along County Road 102 and considered critical for the system demands and fire flow requirements in this area.

**Water Focus Study (CIP#07-50):** work is included in the FY 2008/2009 CIP budget. The Water Focus Study is a planning tool used to provide the City important information on the water systems existing and future operations. The study looks at the existing and future supplies and demands in the system and recommends needed infrastructure to allow the City to meet minimum system operating criteria; including pressure, fire flow demand, and supply.

**Supervisory Control And Data Acquisition (SCADA) System – Water (CIP#06-09):** work involves the installation of a SCADA system which will allow the City to operate the water system in a more efficient manner and also provide important information on the day to day operations. With SCADA, the City will be able to monitor the pressures in the system and make quick adjustments to operation settings to maintain standards, provide a more reliable system by controlling the water level in the elevated tank to maximize the water stored and minimize overflow of the tank, and record the operating information at the groundwater wells and tank to assist in future system planning.

**Water - Back-up Power for Wells (CIP#08-31):** included the purchase of additional back-up power generators to locate at crucial wells within the City's system. The City experienced the importance of back-up power for wells during a major storm in January. The back-up power for the wells allows the City to be prepared for emergency situations where there is a major interruption in the power supply. The back-up power ensures the City will be able to continue operating groundwater wells and minimize the loss of service to customers. The back-up power also provides assurance there will be water available if there is a fire.

**Construct Well Improvements (CIP #08-30):** this project is essential as the City's wells continue to age and deteriorate. To reduce the number of complete well replacements, thereby minimizing the impact on the CIP budget, the City needs to periodically construct well improvements. The City's recently completed Water Focus Study shows that a total of twelve wells, of the City's 18 wells, have a high risk of failure and should be replaced and/or improved (Wells 4, 5, 6, 9, 10, 11, 13, 15, 17, 20, 21 and 22). An additional three have a moderate risk of failure (Wells 14, 16, and 18). Both water quality and sand have caused problems with the operation and maintenance of City wells. Well improvements may include installing well-head treatment for nitrate or fixing sinkholes that occur due to localized subsidence or from faulty conductor installations.

**2008 Road Rehab (Lincoln Avenue):** Water enterprise funds have previously been approved and funds spent on water utility repair and replacement in relationship to the reconstruction on Lincoln Avenue.

**Lemen / North / East Realignment:** Water enterprise funds have previously been approved and funds spent on enlarging and realigning the water pipeline to allow for the realignment of Lemen and North Street at East St.

**Modify Well Casings (CIP #08-28):** the project is a follow-up to the "Construct Well Improvements" project. It is anticipated that many of the City's wells will require well casing modifications by fiscal year 2011/2012.

**Radio Communications Upgrade - Phase 1 (CIP #POL-002):** is a minor, but essential component of the "Meter Implementation" project. The City has installed a fixed-base radio-read network so that all of the City's meters can be read remotely by the billing and maintenance departments. Over time, this radio-based system will significantly cut City employee time and expenses for manually reading meters. This particular project component was for the City's IT department to prepare the City's server and hardware to receive the meter reading information.

**Destroy Old Wells (CIP #WTR-008):** this project is an essential component of the City's groundwater management responsibility. The City's recently completed Water Focus Study recommends that the City proceed to properly destroy Well 9 following state and local regulations because it may be providing a conduit for the downward migration of poor quality water, and before further deterioration makes destruction more costly.

**Water System Maintenance Repairs (CIP#WTR-013):** this work includes ongoing maintenance projects within the water system. The infrastructure in the City's water system is aging with some pipelines over 80 years old. As the system continues to age, the risk of a catastrophic failure, such as pipeline rupture, increases. The water system maintenance repair program allows the City to minimize the chance of a major system failure. This program helps to improve pressures by replacing pipelines and other infrastructure in problem areas, conserve the City's limited water supplies by fixing leaks, and increase reliability within the system.

**Kentucky Avenue Widening and Reconstruction:** When Kentucky Ave. widening and reconstruction work is accomplished there will be a need to do some major water system pipeline repairs and complete a missing link in the water pipeline just west of East St.

**Well 25 Spring Lake Specific Plan:** The City tried and was unsuccessful in locating suitable water quality to drill Well 25 which was to serve Spring Lake area. The remaining funds for this well will be used to assist in constructing a ground level tank with a booster pump station that will provide more water than was planned from the new well. This approach will serve the water demands for Spring Lake and meet the City's overall water system needs.

**County Well Acquisition (CIP#01-01):** involves taking over the operation of the County Well (Well 27) located at the Monroe Detention Center. This well is currently available to the City to use as an emergency supply. The well is tied into the City's system and kept isolated with a closed valve. The acquisition of this well will improve system reliability and operation flexibility by providing the City with an additional supply source.

**Future Development Wells (CIP#WTR-004):** are needed to provide a supply source for future development projects. As the City continues to grow, demand for water will increase. The City's existing groundwater supply wells will not be adequate to accommodate additional demands. The construction of new groundwater wells to accommodate future development is needed to ensure an adequate supply is available, maintain system pressures at minimum standards for the entire City, improve reliability within the system, and increase the flexibility of operation. These well will not be funded out of rate increases, but will be paid for by the development that created the requirement.

**Water Master Plan Update (CIP#WTR-003):** work will provide a road map for the City's future water system needs. The Master Plan will adjust the City's existing and projected water demands based on data collected from the meter installation and SCADA programs. This will allow the City to more accurately account for how water is being used in the system. The existing and projected supply sources for the City will be updated to account for any changes that have occurred. The existing and future infrastructure needs to meet City and industry standards will be analyzed and described. Finally, an updated CIP program will be developed and approved by City Council to be used for future improvement needs.

**Water Source Security Systems:** will provide the City with the tools needed to protect the City's water supply source. Security systems placed at the City's supply sources will provide protection to the supply's water quality by preventing potential harmful contaminants being added to the City's system and monitoring activities near the supply sources which will discourage vandalism and other costly activities from occurring. This would be a system integrated into our Information System. The system would include basic improved motion detectors. These motion detectors would activate enhanced lighting and video recording of the site only when the unit identifies the need. In this way, the lighting and recording devices would not have to stay on all the time.

**Nitrate Profiling of Wells:** We have composite sampling of the water that comes out of each well but we have little information as to what degree there is nitrate contamination occurring at

the various water bearing zones (depths) of each well. We urgently need more information on the wells that have the highest levels of nitrate so we can determine if we can successfully make structural alterations to the well, or if we need to drill a replacement well, and when this work needs to happen. This work will allow us to take the specific zone (depth) test samples needed to perform the profiling.

**Groundwater Monitoring Wells:** We have a groundwater monitor well in the southwest part of the City that allows us to monitor seasonal variation in water quality throughout the year. This will help us with trend analysis of our declining water quality. We need two more wells of this type in different parts of the City to provide a better correlation for the entire City groundwater system.

**I-5 / SR 113 Utilities:** This project is needed to relocate existing city utilities (water and sewer) in anticipation of the proposed freeway connection project. The sewer under SR 113 predates SR 113, and the water and sewer in Pioneer Ave are in existing city right of way so all the costs will be reimbursed by Caltrans. Although the engineering is being performed now, no construction will begin until a reimbursement agreement is in place and the Caltrans project is funded and scheduled for construction. The project is reimbursable, but timing of the project is not flexible. Caltrans deadline is the spring of 2010 for construction and, therefore, the City must complete its construction prior to the Spring of 2010.

**Davis Woodland Water Supply Project, Local Facilities, Southwest Tank and Pump Station:** A partially buried 3.0 million gallon (MG) pre-cast, post-tensioned concrete reservoir and associated 7.2 million gallons per day (MGD) booster pump station are recommended to be constructed in Holding Pond Park in the southwest portion of the City. Because this work is critical to improve pressures, provide peak hour demands, and fire flow protection to southwest Woodland, the design of the reservoir and pump station is scheduled to begin in early FY 10/11. Construction is anticipated to occur during FY 10/11 and FY 11/12. In addition to the tank and pump station, approximately 5,000 LF of 24", 20", and 16" distribution piping is needed to dispense water between the distribution system and to the customers. Two tie-ins to the existing system are needed at W. Southwood Dr. and Ashley Ave. and at W. El Dorado Dr. and Ashley Ave.

**Davis Woodland Water Supply Project, Local Facilities, Northeast Tank and Pump Station:** A 2.0 MG ground level steel reservoir and associated 5.76 MGD booster pump station are recommended at the City-owned property on Beamer St., between Pioneer Ave. and Rd. 102, in northeast Woodland. These facilities are needed to meet the peak hour demands of the system and to provide emergency and fire flow storage capacity. The design is scheduled to occur in FY's 10/11 and 11/12. Construction will take place sometime between FY 12/13 and FY 14/15.

**Davis Woodland Water Supply Project, Local Facilities, Water Treatment Plant Reservoir Expansion:** To increase the storage capacity on the west side of Woodland, it is recommended that Woodland's finished water storage tank located at the surface water treatment plant be upsized to provide an additional 1.3 MG of storage. The incremental cost to increase the size of the reservoir is cost effective compared with building a separate reservoir. This additional capacity will be utilized to meet peak hour demands and provide emergency storage capacity.

**Davis Woodland Water Supply Project, Local Facilities, Distribution and Transmission Piping:** Approx. 60,000 LF of 42", 36", 30", 24", 20", 16", and 12" transmission and distribution piping are required to distribute surface water throughout the City. These new pipelines are connected to the City's distribution system at 12 tie-in locations. Design for the pipelines is scheduled for FY's 10/11 and 11/12. Construction of the pipelines must be completed by the time the surface water treatment plant is operational which is expected to take place in January 2015.

**Davis Woodland Water Supply Project, Local Facilities, Regional Facilities:** The City of Woodland is a primary project partner in the Davis Woodland Water Supply Project and agreed to form a joint powers authority (JPA) specifically for this project in September 2009. The project team is currently executing Phase 1A and anticipates beginning Phase 1B (with a focus on securing project funding, water rights, and supplemental water supplies) by November 2009. Phase 1B, and all subsequent phases, including facility design, permitting, securing project right-of-way, final design, construction, and operations will be contracted and implemented through the JPA, which will oversee and complete the project. However, the City of Woodland is obligated to contribute its share of the project costs to the JPA.

Phase 2, anticipated to begin in July 2011, will advance the project through final design and construction to start-up and operation, currently envisioned in 2016. Phase 2 will begin with the review of the proposals issued at the end of Phase 1, and selection of the contracting entity or entities that will construct the project facilities. The remainder of Phase 2 will then be devoted to finalizing all permits, rights-of-way acquisition, constructing the project facilities, and start-up.

Why is this surface water project necessary and why now? The need to meet current and future waste discharge requirements (WDRs) and the City's water supply quality challenges have caused the City to pursue a supplemental surface water supply from the Sacramento River. In addition to helping meet current and new regulatory water quality standards, the City should pursue a surface water supply for the following reasons:

- Surface water will lessen the City's dependency on groundwater as its sole source of drinking water.
- The City's wastewater discharge permit issued by the Central Valley Regional Water Quality Control Board requires the City to actively move towards an improved source water quality.
- Water quality is an essential component of water supply reliability. The surface water project will greatly improve the quality of drinking water as well as the overall reliability of both quantity and quality.
- The City must actively pursue Sacramento River water to prevent losing access to its 1994 water right applications.

Capital Improvement Program As Listed In The HDR Water Rate Study	Summary Of Why They Are Included								
	To Overcome Low Pressure	To Secure Adequate Supply of Water	To Comply With Water Quality Requirements	To Comply With Other Regulations/Mandates	To Obtain Operational Reliability	For Water Conservation and To Stretch Our Available Water Supply	Needed To Utilize State Of Federal Funding	To Improve Operations and/or Reduce O&M	Work Is Currently Underway
Meter Implementation Plan				X		X			X
Meter Implementation		X		X		X	X		X
Stimulus Meter Project		X		X		X	X		X
Meter Project - local share rate funded		X		X		X			X
Replace Elevated Tank	X				X			X	X
Well Replacement	X	X	X		X			X	X
Replace Well 22	X	X	X		X			X	
Water Focus Study	X	X			X	X			X
SCADA System - Water	X		X		X		X	X	
Water - Back-up Power for Wells	X	X			X			X	X
Construct Well Improvements	X	X	X		X	X		X	X
2008 Road Rehab (Lincoln Avenue)									X
Nitrate Source Reduction Program		X	X	X	X			X	
Lemen/North/East Realignment					X				X
Modify Well Casings	X	X	X	X	X			X	
Radio Communications Upgrade - Phase 1	X				X			X	
Destroy Old Wells			X	X				X	
Water Distributions system maintenance Repairs	X	X	X		X	X	X	X	
Kentucky Avenue Widening and Reconstruction					X		X		
Well 25 SLSP	X	X	X		X			X	X
County Well Acquisition	X	X			X			X	
Future Development Wells	X	X			X			X	
Water Focus Study	X	X			X	X			X
Water Master Plan Update	X	X		X	X	X			
Water Source Security Systems			X	X	X			X	
Nitrate Profiling of Wells		X	X	X				X	
Groundwater Monitoring Wells			X	X	X				
I5-SR-113 Utilities							X	X	
Davis-Woodland Water Supply Project	X	X	X	X	X	X		X	



## ATTACHMENT 2(A)

### CITY OF WOODLAND NOTICE OF PUBLIC HEARING

#### In Connection with Proposed INCREASES TO RATES FOR WATER SERVICE FEES

**NOTICE IS HEREBY GIVEN** that the City of Woodland (“City”) will hold a **Public Hearing on November, 3, 2009, at 6:00 p.m. in the City Council Chambers, located at 300 First Street, Woodland, CA 95695**, to consider the adoption of increases to the rates for its water service fees to the parcel for which you are shown as the record owner or customer of record. The amount of the rate increases proposed to be imposed on your parcel and the basis upon which they were calculated is described in more detail below under the caption **“Proposed Rate Increases.”**

The purpose of the hearing is to consider all written protests against the rate increases to the City’s water service fees proposed to be imposed on parcels within the City. As the record owner or customer of record of a parcel identified to be subject to the imposition of the proposed rate increases, you may submit a written protest against the proposed rate increases. Provided, however, if the identified parcel has more than one record owner and/or customer of record, only one written protest will be counted. Each protest must (1) be in writing; (2) state that the specific rate increase (water service fees) for which the protest is being submitted in opposition; (3) provide the location of the identified parcel (by assessor’s parcel number or street address); and (4) include the original signature of the record owner or customer of record submitting the protest. Protests submitted by e-mail, facsimile, or other electronic means will not be accepted. Written protests may be submitted by mail to the **City Clerk, City of Woodland, at 300 First Street, Woodland, CA 95695**, or in person at the public hearing, so long as they are received prior to the conclusion of the public hearing. Please identify on the front of the envelope for any protest, whether mailed or submitted in person to the City Clerk, that the enclosed letter is for the Public Hearing on the Proposed Increase to Water Rates.

At the conclusion of the public hearing, the City Council will consider adopting the proposed rate increases to the water service fees. Oral comments at the public hearing will not qualify as formal protests unless accompanied by a written protest. If, at the close of the public hearing, written protests against either or both of the proposed rate increases as outlined above are not presented by a majority of the record owners or customers of record of the identified parcels upon which they are proposed to be imposed, the City Council will be authorized to impose the rate increases. If adopted, the rate increases for the water service fees are proposed to be effective for bills dated on or after January, 1, 2010, and on each monthly utility bill thereafter through and including June 30, 2012. This City will provide test billing for a period of time after January 1, 2010 up to 12 months for metered customers before charging consumption based rates. During this test period, residents will pay the flat rate as presented below.

#### PROPOSED RATE INCREASES

City staff has reviewed the current water rate structures and determined that an increase in the rates is necessary in order to recover sufficient revenues to operate and maintain the City’s water system. The proposed rate structure for water service fees will provide revenues that (1) recover costs reasonably borne in providing the services; (2) are equitable to all customer classes; and (3) are proportionate to the cost of the service attributable to the parcels within each customer class.

*The water rate increases are needed in order to comply with regulatory requirements associated with the conversion to consumption based (metered) billing for all post-1992 residential properties and to fund capital projects including but not limited to the surface water supply project, meter installation, and replacement of wells.* The rate structure for water service fees has two components: (1) a fixed monthly charge; and (2) a variable (water consumption-based) charge. The first component is a fixed amount calculated to recover the City’s fixed costs of operating and maintaining the water system and is established on the basis of the customer class of the property owner or customer receiving water from the City. The variable

component of the rate structure will generally impose charges as the level of water consumption increases. The variable component is structured in such a way as to internalize the costs of providing water and to deter waste and encourage efficiency. Together, the components are calculated to recover the proportionate cost of providing water service attributable to parcels within each customer class.

The proposed water rates, if adopted, and the effective dates for their implementation are as follows:

<b>Proposed Water Rates</b>					
Customer Class	Current Rates	Fixed Monthly Rates (\$/month/account)			
		January 1, 2010	July 1, 2010	July 1, 2011	July 1, 2012
Residential Lot < 5,000 SF	\$20.05	\$23.85	\$28.60	\$34.30	\$41.15
Residential Lot 5,000 – 10,000 SF	\$24.72	\$29.40	\$35.30	\$42.35	\$50.80
Residential Lot > 10,000 SF	\$29.18	\$34.75	\$41.70	\$50.05	\$60.05
Commercial	\$20.05	\$24.05	\$28.85	\$34.60	\$41.50
Landscape	\$15.60	\$18.60	\$22.30	\$26.75	\$32.10
<b><i>Residential Consumptive Rates - Fixed and Consumption (\$/ccf*)</i></b>					
¾" – 2" Meter Fixed	N/A	\$14.00	\$15.75	\$20.00	\$24.00
Per CCF (0-12)	N/A	\$0.97	\$1.19	\$1.25	\$1.50
Per CCF (13-20)	N/A	\$0.97	\$1.37	\$1.50	\$1.95
Per CCF (20 and over)	N/A	\$0.97	\$1.37	\$1.90	\$2.55
<b><i>Commercial Consumptive Rates - Fixed and Consumption (\$/ccf*)</i></b>					
¾" – 2" Meter Fixed	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter Fixed	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Meter Fixed	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Meter Fixed	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Per CCF	\$1.52	\$1.72	\$2.00	\$2.15	\$2.35
<b><i>Large Uniform User Consumptive Rates - Fixed and Consumption (\$/ccf*)</i></b>					
¾" – 2" Meter Fixed	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter Fixed	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Meter Fixed	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Meter Fixed	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Per CCF	\$1.52	\$1.70	\$1.91	\$2.10	\$2.30
<b><i>Landscape Consumptive Rates - Fixed and Consumption (\$/ccf*)</i></b>					
¾" – 2" Meter Fixed	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter Fixed	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Meter Fixed	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Meter Fixed	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Per CCF	\$1.52	\$1.75	\$2.05	\$2.35	\$2.80

\*ccf = hundred cubic feet of consumption

For further details regarding the bases and reasons for the proposed rate increases for the City's water service fees, please contact the City of Woodland Public Works Department at (530) 661-5962. If you have questions regarding the proposed rate to be imposed on your parcel of property, please contact the City of Woodland Finance Department, at (530) 661-5830, or visit the City's website at [www.cityofwoodland.org](http://www.cityofwoodland.org).

**Una versión en Español de esta notificación es disponible vía la  
pagina de Internet de la Ciudad de Woodland.**

## ATTACHMENT 2(B)

### CIUDAD DE WOODLAND AVISO DE AUDIENCIA PÚBLICA

#### En Relación a la Propuesta AUMENTOS DE TARIFAS AL SERVICIO DE AGUA

**ANUNCIO DE AVISO** la Ciudad de Woodland ("Ciudad") sostendrá una **Audiencia Pública noviembre, 3, 2009, a las 6:00 pm en el salón del Concejo Municipal, localizado en 300 First Street, Woodland, CA 95695**, para considerar la aprobación de los aumentos de las tarifas para el servicio de agua a la parcela que muestran a usted como el titular de la propiedad. La cantidad del aumento de tarifas propuestas será implementado a su parcela en la base sobre la calculación ilustrada con más detalle a continuación bajo el título "**Propuesta de aumento de tarifa.**"

El propósito de la audiencia pública es analizar todas las protestas en contra del aumento de las tarifas para el servicio de agua que la Ciudad propone. Como propietario registrado de la parcela identificada, puede presentar una protesta por escrito en contra de los aumentos del precio que se proponen. Siempre, sin embargo, si la parcela tiene identificado más de un dueño registrado, sólo una protesta por escrito será contada. Cada protesta debe (1) ser por escrito; (2) especificar el aumento de las tarifas (para el servicio de agua) que la protesta se presenta en oposición; (3) proveer la ubicación de la parcela identificada (por número de parcela del asesor o dirección de calle), y (4) incluir la firma original del titular registrado o cliente registrado que presenta la protesta. Las protestas presentadas por correo electrónico, fax u otros medios electrónicos no serán aceptadas. Protestas por escrito, podrán presentarse por correo a la Secretaria Municipal de la Ciudad de Woodland (**City Clerk**), **City of Woodland en 300 First Street, Woodland, CA 95695**, o en persona en la audiencia pública, siempre y cuando se haya recibido antes de la audiencia pública. Por favor, identifique en la parte frontal del sobre postal la protesta, ya sea por correo o personalmente a la Secretaria Municipal, que la carta adjunta es para la audiencia pública referente al propuesto incremento de tarifas del agua.

En conclusión de la audiencia pública, el Consejo estudiará la adopción de aumentar las tarifas del servicio de agua. Comentarios orales en la audiencia pública no serán calificados como protestas formales si no va acompañado por una protesta por escrito. Si, al final de la audiencia pública, las protestas por escrito en contra de una o dos propuestas del incremento de réditos no son representados por la mayoría de dueños o cliente registrados de la parcela, el Consejo será autorizado a adoptar el incremento de tarifas. Si adoptado, el rédito incrementado para las tarifas del agua propuestas se proponen para ser en efecto a partir de enero, 1, 2010, y en cada factura mensual a hasta e incluyendo el 30 de junio 2012. La Ciudad proveerá una facturación de prueba por un periodo de tiempo después del 1 de enero 2010 hasta 12 meses para los clientes de medidor antes de cobrar las tarifas basadas en el consumo de agua. Durante este período de prueba, los residentes tendrán que pagar la tarifa fija tal como se presentan a continuación.

#### PROPUESTA DE AUMENTO DE TARIFA

*El Personal de la Ciudad ha revisado las estructuras de las tarifas actuales de agua y se determina que un incremento en las tarifas es necesario para recuperar los ingresos suficientes para operar y mantener el sistema de agua de la ciudad.* La estructura de tarifas propuestas para los cargos por servicio de agua proporcione ingresos que (1) recuperen los costos razonablemente para tener el servicio, (2) sean equitativas para todas las clases de clientes, y (3) sean proporcionales a los costos del servicio y atribule a las parcelas dentro de cada clase de cliente.

El aumento en los réditos del agua son necesarios para cumplir con los requisitos reglamentarios relacionados con la conversión de facturación basadas en consumo (medidores) de las propiedades residenciales y para financiar proyectos de capital, incluyendo pero no limitado a la superficie del proyecto de abastecimiento de agua, instalación de medidores, y la sustitución de los pozos antes de 1992. La estructura de tarifas del servicio de agua tiene dos componentes: (1) un cargo fijo mensual de tarifa (2) una variable (basada en consumo) tarifa de agua. El primer componente es una cantidad fija calculada para recuperar los costos fijos de operación y mantenimiento del sistema de agua y se establece sobre la base de la clase de propietario o cliente que recibe el

agua de la ciudad. El componente variable de la estructura de la tarifa general, impone costos dependiendo el nivel de aumento en consumo de agua. El componente variable, está estructurado de manera tal de internalizar los costos de suministro de agua y para disuadir a los residuos y fomentar la eficiencia. Juntos, los componentes son calculados para recuperar el costo proporcional de la prestación del servicio de agua atribuible a las parcelas dentro de cada clase de cliente.

Las tarifas de agua propuesta, de aprobarse, y las fechas de vigencia para su aplicación son los siguientes:

<b>Precios de Agua Propuestos</b>					
Clase de Cliente	Réditos Actuales	Réditos Mensuales Fijos (\$/mes/cuenta)			
		1 de enero de 2010	1 de julio de 2010	1 de julio de 2011	1 de julio de 2012
Residencial Lot < 5,000 Pies Cuadrados	\$20.05	\$23.85	\$28.60	\$34.30	\$41.15
Residencial Lot 5,000 – 10,000 Pies Cuadrados	\$24.72	\$29.40	\$35.30	\$42.35	\$50.80
Residencia Lot > 10,000 Pies Cuadrados	\$29.18	\$34.75	\$41.70	\$50.05	\$60.05
Comercial	\$20.05	\$24.05	\$28.85	\$34.60	\$41.50
Irrigación	\$15.60	\$18.60	\$22.30	\$26.75	\$32.10
<i>Réditos Competitivos para Residencial – Fijo y Consumo (\$/ccf*)</i>					
¾" – 2" Medidor Fijo	N/A	\$14.00	\$15.75	\$20.00	\$24.00
Por CCF (0-12)	N/A	\$0.97	\$1.19	\$1.25	\$1.50
Por CCF (13-20)	N/A	\$0.97	\$1.37	\$1.50	\$1.95
Por CCF (20 y arriba)	N/A	\$0.97	\$1.37	\$1.90	\$2.55
<i>Réditos Competitivos para Comercial – Fijo y consumo (\$/ccf*)</i>					
¾" – 2" Medidor Fijo	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Medidor Fijo	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Medidor Fijo	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Medidor Fijo	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Por CCF	\$1.52	\$1.72	\$2.00	\$2.15	\$2.35
<i>Réditos Competitivos para Gran Usuario Uniforme s - Fijo y Consumo (\$/ccf*)</i>					
¾" – 2" Medidor Fijo	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Medidor Fijo	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Medidor Fijo	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Medidor Fijo	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Por CCF	\$1.52	\$1.70	\$1.91	\$2.10	\$2.30
<i>Réditos Competitivo para Irrigación – Fijo y Consumo (\$/ccf*)</i>					
¾" – 2" Medidor Fijo	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Medidor Fijo	\$22.84	\$26.30	\$29.60	\$37.60	\$45.10
4" Medidor Fijo	\$38.08	\$43.80	\$49.30	\$62.60	\$75.10
6" Medidor Fijo	\$76.15	\$87.50	\$98.45	\$125.00	\$150.00
Por CCF	\$1.52	\$1.75	\$2.05	\$2.35	\$2.80

\*ccf = cada cien pies cúbicos de consumo

Para más detalles sobre las bases y las razones por las que hay propuestas en el aumento de tarifas del servicio de agua de la ciudad, por favor, póngase en contacto con la Ciudad de Woodland Departamento de Obras Públicas a (530) 661-5962. Si usted tiene preguntas acerca del tipo de propuesta que se impondrán en su propiedad, por favor, póngase en contacto con la Ciudad de Woodland Departamento de Finanzas, al (530) 661-5830, o visite el sitio web de la Ciudad a [www.cityofwoodland.org](http://www.cityofwoodland.org).

**ORDINANCE NO.**

**AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF WOODLAND, CALIFORNIA ESTABLISHING RATES FOR WATER SERVICE AND AMENDING CHAPTER 23C OF THE WOODLAND MUNICIPAL CODE TO REQUIRE WATER METERS**

**WHEREAS**, the Woodland City Council has previously established water rates; and

**WHEREAS**, California law allows the City to recover the full cost of providing water service to customers, including the cost of sources of water, treatment facilities, pipelines, and other infrastructure, through the establishment of water rates; and

**WHEREAS**, City staff have determined that the existing water rates do not adequately recover the City's costs of providing water service to customers; and

**WHEREAS**, the City Council intends to establish water rates that do not exceed the cost to the City of providing the service for which the fees and charges are imposed; and

**WHEREAS**, the City has mailed notice to all affected customers of a public hearing on the adoption of the new rate structure, and the City Council has held this hearing and taken testimony from all interested persons and accepted written protests from all persons wishing to protest the adoption of the new water rates, as required by Article 13D, Section 6 of the California Constitution; and

**WHEREAS**, as of the close of the public hearing, written protests against the proposed fee or charge were not presented by a majority of owners of the affected parcels; and

**WHEREAS**, the City Council also wishes to amend Section 23C-10-2 of the Woodland Municipal Code to clarify that water meters are required for all customers in compliance with state law; and

**WHEREAS**, the City Council further wishes to authorize City staff to establish and administer a program to provide financial assistance in paying water bills to qualifying customers;

**NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF WOODLAND DOES ORDAIN AS FOLLOWS:**

**Section 1.** The City Council hereby adopts the recitals and findings set forth above and in the staff report prepared in connection with this ordinance.

**Section 2.** The City Council hereby adopts, by not less than a two-thirds vote pursuant to Government Code section 5471, the water rate schedule set forth in Exhibit "A", attached hereto and incorporated herein by reference. For purposes of the rate schedule, a "Large Uniform User" shall be defined as a commercial customer with a nearly continuous and constant demand for at least \_\_\_\_\_ gallons per minute of water.

**Section 3.** The City Council recognizes that the installation of water meters is expected to take approximately two years, and that the consumption-based rates in the water rate schedule cannot be imposed on customers who do not yet have meters installed. As a result, the fixed rates in Exhibit “A” shall remain in effect for customers until such time as those customers have meters installed. At any time following installation of a water meter for a customer, City staff may convert that customer’s rates from fixed rates to the consumption-based rates set forth in Exhibit “A”, provided that once the rates charged to a particular customer have been converted to consumption-based rates, those rates shall not be returned to fixed rates. The City Council finds and determines that both the fixed rates and consumption-based rates in Exhibit “A” do not exceed the cost of providing water service.

**Section 4.** Section 23C-10-2 of the Woodland Municipal Code is hereby amended to read as follows:

**“23C-10-2 Standards and regulations.**

(a) All domestic water services shall be metered, unless state law allows a water service connection to be unmetered and the public works director determines that permitting an unmetered connection is in the best interest of the city.

(b) Sizes and types of meters shall be determined by ranges of flow rates, plus allowable pressure losses, and possible safety requirements (such as fire service regulations).

(c) Water meters shall be selected, installed, tested and maintained by the city at the user's expense.”

**Section 5.** Section 23C-7-4 of the Woodland Municipal Code is hereby amended to read as follows:

**“23C-7-4. Rate schedule for use of water service.**

The city council shall fix by ordinance or resolution the rates for use of the city water system and the ordinance or resolution, among other things, shall take into account the quantity of water used and the cost of maintaining city water facilities to deliver the water. In addition, rates may differ between users inside of the city limits and users outside of the city limits so long as such rates are reasonable. The City Manager, or his or her designee, may establish and administer a program to provide financial assistance in paying water bills to customers. The customer eligibility criteria, program funding and structure, and other aspects of the program shall be determined by the City Manager or his or her designee.

**Section 6.** This Ordinance supersedes and voids all prior ordinances, resolutions, and other Council actions, which are inconsistent with its terms, including all prior ordinances and resolutions establishing or amending water rates.

**Section 7.** Adoption of this Ordinance is exempt from the California Environmental Quality Act pursuant to Section 15061(b)(3) of the CEQA Guidelines (14 CCR 15061(b)(3)). CEQA applies

only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. It is therefore found and declared that the adoption of the water rate schedule in this Ordinance will not have a significant effect on the environment, as the consumption-based water rates herein adopted will encourage water conservation by

**Section 8. Severability.** If any provision of this Ordinance or the application thereof to any person or circumstances is held invalid, such invalidity shall not affect other provisions or applications of the Ordinance which can be given effect without the invalid provision or application, and to this end the provisions of this Ordinance are severable. This City Council hereby declares that it would have adopted this Ordinance irrespective of the invalidity of any particular portion thereof and intends that the invalid portions should be severed and the balance of the Ordinance be enforced.

**Section 9. Effective Date and Publication.** The City Clerk shall certify to the adoption of this Ordinance, and the City Clerk shall cause this Ordinance to be posted or published as prescribed by law. This Ordinance shall take effect thirty (30) days following its adoption.

**PASSED AND ADOPTED** this \_\_\_\_\_ day of \_\_\_\_\_, 2009 by the following vote:

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAIN:**

---

Marlin H. Davies  
Mayor

**ATTEST:**

---

Sue Vannucci  
City Clerk

**APPROVED AS TO FORM:**

---

Andrew J. Morris  
City Attorney

**EXHIBIT “A”**

**Water Rate Schedule**

*(attached on following pages)*

## Summary of the Proposed Water Rates

	Present Rates	Proposed Jan. 1, 2010 Rates	Proposed FY 10/11 Rates	Proposed FY 11/12 Rates	Proposed FY 12/13 Rates
<b><u>MONTHLY METER CHARGE – APPLIES TO ALL METERED CUSTOMERS</u></b>					
< 2" Meter	\$11.43	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.84	26.30	29.60	37.60	45.10
4" Meter	38.08	43.80	49.30	62.60	75.10
6" Meter	76.15	87.50	98.45	125.00	150.00
<b><u>RESIDENTIAL - FLAT RATE AND METERED CONSUMPTION RATES</u></b>					
<b>Flat Rate Per Month –</b>					
<5K sq ft lots, apts, condos, mobile homes	\$20.05	\$23.85	\$28.60	\$34.30	\$41.15
<10K sq ft lots, attached >5K sq ft	24.72	29.40	35.30	42.35	50.80
>10K sq ft lots, attached >10K sq ft	29.18	34.75	41.70	50.05	60.05
<b>Consumption Charge Per CCF –</b>					
Block 1 – 0 to 12 ccf per month	N/A	\$0.95	\$1.20	\$1.35	\$1.75
Block 2 – 13 to 20 ccf per month	N/A	--	1.38	1.62	2.10
Block 3 – Over 20 ccf per month	N/A	--	--	2.03	2.63
<b><u>COMMERCIAL FLAT RATE AND METERED CONSUMPTION RATES</u></b>					
Flat Rate Per Month –	\$15.60	\$24.05	\$28.85	\$34.60	\$41.50
Consumption Charge Per CCF –	\$1.52	\$1.76	\$2.00	\$2.15	\$2.35
<b><u>LARGE UNIFORM USER - METERED CONSUMPTION RATES</u></b>					
Consumption Charge Per CCF –	\$1.52	\$1.70	\$1.91	\$2.10	\$2.30
<b><u>LANDSCAPE/IRRIGATION - FLAT RATE AND METERED CONSUMPTION RATES</u></b>					
Flat Rate Per Month –	\$15.60	\$18.60	\$22.30	\$26.75	\$32.10
Consumption Charge Per CCF –	\$1.52	\$1.75	\$2.05	\$2.35	\$2.80

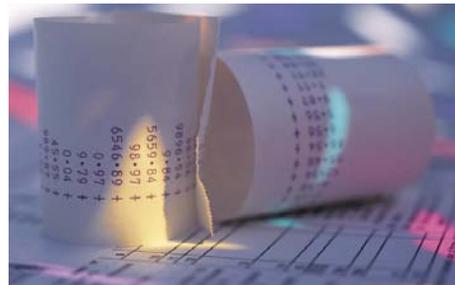
Note: 1 Cubic foot of water = 7.48 gallons

2 – Commercial class includes multi-family, institutional, City, and all other non-residential customers

# City of Woodland

## Draft Final Report Comprehensive Water Rate Study

October 2009



**HDR** Prepared by  
HDR Engineering, Inc.

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October 26, 2009

Ms. Amber D'Amato  
Finance Director  
City of Woodland  
300 First Street  
Woodland, CA 95695

Dear Ms. D'Amato:

HDR Engineering Inc. (HDR) is pleased to provide the draft final report on the comprehensive water rate study completed for the City of Woodland (City). This report contains a discussion of the process used to develop the water rate study. In addition, contained in the Technical Appendix of this report is a complete set of the exhibits used to develop the study.

This study has been developed based upon data and information supplied by the City to HDR. In addition, this report was prepared using generally accepted utility rate setting techniques and methodologies. The accounting, budgeting, billing records, and capital improvement plans (both existing and surface water) for the City were the primary sources for the data contained within the report.

We appreciate your assistance, along with that of the City's management team and staff in the development of this report. We look forward to the opportunity to provide other technical assistance in the future.

Sincerely yours,  
HDR Engineering, Inc.

Shawn Koorn  
Senior Financial Analyst

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**Technical Appendix**

# Executive Summary

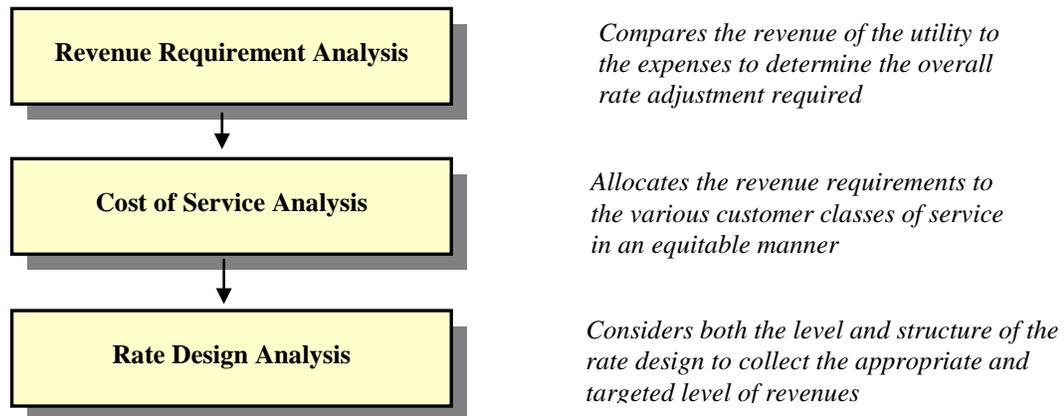
## Introduction

HDR Engineering (HDR) was retained by the City of Woodland (City) to perform a comprehensive water rate study. The purpose of this rate study was two fold. The first step in the analysis was to determine the adequacy of the existing water rates and provide the basis for adjustments to meet the City's future operating and capital needs. Secondly, the City is required by California State law to implement metered water rates on January 1<sup>st</sup> 2010. As a result, the analysis herein developed a water rate transition plan to implement metered water rates in the short term, and a provide adequate funding over the four year period reviewed.

## Overview of the Comprehensive Rate Study Process

A comprehensive rate study consists of three interrelated analyses. Table ES-1 provides an overview of these analyses.

Table ES - 1  
Overview of the Comprehensive Rate Analyses



## Water Comprehensive Rate Study

In conducting the comprehensive water comprehensive rate study, each of the above mentioned analyses was completed. Provided below is a summary of each analysis.

**Water Revenue Requirement Analysis** – The development of the water revenue requirements was the first analysis undertaken in the water rate study. This analysis was used to determine the overall adequacy of the water utility rates. For this particular study, the revenue requirements were developed for a ten-year projected time period (Fiscal Year 2008/2009 – Fiscal Year 2018/2019). However, the study focused on the next four fiscal years (FY 2009/2010 – FY

2012/2013). In projecting the revenues and operating expenses for the utility, the primary inputs to the analysis were the City’s accounting and billing records, capital plan and debt service obligations.

A “cash basis” revenue requirement was developed that considered the prudent funding of both operating and capital infrastructure requirements of the City. The Fiscal Year (FY) 2008/2009 budget was used as a starting point. Escalation factors were developed for various types of expenses the City incurs. The escalation factors used ranged from 0.4% to 10% per year. The discussion in this report will focus on the year 2009/2010 as the rate setting period.

An important aspect of the water revenue requirements was the funding of current capital improvement plan and the Surface Water Project. The City anticipates approximately \$47.2 million in capital expenditures for the water utility over the 5-year period of FY 2008/2009 through FY 2012/2013 and \$86.8 million in capital expenditures for

***“An important aspect of the water revenue requirements was the proper and adequate funding of capital improvements.”***

the Surface Water Project over the time period from FY 2009/2010 through FY 2012/2013. Funding for these projects will be from a combination of connection fees, stimulus funds (both grants and loans), revenue bonds, reserves, and rates.

A summary of the water revenue requirement analysis is provided below in Table ES-2. The results shown in Table ES-2 indicate a deficiency of funds over the three-year time period. This is due mostly in part to the increased level of funding for capital improvement projects and the annual debt service payments for the Surface Water Project assumed in this study. The technical appendix at the end of the report will provide the detailed technical analysis of the revenue requirement.

**Table ES – 2**  
**Summary of the Water Revenue Requirement Analysis (\$000s)**

	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13
<b>Revenue -</b>					
Rate Revenue	\$6,257	\$6,282	\$6,308	\$6,368	\$6,465
Miscellaneous	262	291	452	534	527
	-----	-----	-----	-----	-----
<b>Total Revenue</b>	<b>\$6,519</b>	<b>\$6,573</b>	<b>\$6,759</b>	<b>\$6,902</b>	<b>\$6,992</b>
<b>Expenses -</b>					
O&M	\$5,057	\$5,271	\$6,182	\$6,342	\$7,079
CIP from Rates	0	0	400	650	850
Debt Service	464	790	1,904	2,261	2,602
Transfers	0	0	0	0	0
	-----	-----	-----	-----	-----
<b>Total Expenses</b>	<b>\$5,521</b>	<b>\$6,060</b>	<b>\$8,486</b>	<b>\$9,252</b>	<b>\$10,530</b>
Bal./(Def.) of Funds w/o SWP	\$998	\$513	(\$1,727)	(\$2,351)	(\$3,538)
Adj. as a % of Rate Revenues w/o SWP	-15.9%	-8.2%	27.4%	36.9%	54.7%
<b>SWP Expenses</b>	<b>\$25</b>	<b>\$0</b>	<b>\$426</b>	<b>\$813</b>	<b>\$2,626</b>
Less: SWP Connection Fees	0	148	171	412	652
Bal./(Def.) of Funds with SWP	\$972	\$661	(\$1,982)	(\$2,753)	(\$5,512)
Adj. as a % of Rate Revenues	-15.5%	-10.5%	31.4%	43.2%	85.3%

To implement the needed adjustments, a water transition plan was developed. The rate adjustments are primarily the result of funding the existing capital plan and Surface Water Project and the resulting debt service. At this time a four year rate transition has been developed. The first rate adjustment will occur on January 1, 2010, followed by annual increases at the start of each fiscal year over the next three year period. Provided in Table ES-3 is the proposed water utility rate transition plan for the projected test period.

**Table ES – 3**  
**Water Utility – Four Year Rate Transition Plan**

	FY 2008/09	January 1, 2010	FY 2010/11	FY 2011/12	FY 2012/13
Present Monthly Residential Bill <sup>1</sup>	\$24.52				
<b>Proposed Water Rate Adjustments</b>	<b>0%</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>
Projected Monthly Residential Bill (Metered with 20 CCF)	\$24.52	\$33.40	\$40.99	\$47.00	\$57.20
\$ Change per Month		8.88	7.59	6.01	10.20
Cumulative \$ Change per Month		8.88	16.47	22.48	32.68
Projected Monthly Residential Bill (Flat)	\$24.52	\$29.40	\$35.30	\$42.35	\$50.80
\$ Change per Month		4.88	5.90	7.05	8.45
Cumulative \$ Change per Month		4.88	10.78	17.83	26.28

[1] Average bill assumed a 2" sized meter or less.

As Table ES-3 indicates, the current average residential monthly bill for a City customer is \$24.52/month. Given the rate transition plan, and the current rates, the adjustments over time will change the average flat residential bill to \$50.80 per month by 2012/2013, or a \$26.28/month overall change. Provided later in this discussion is the development of metered water rates. Given the proposed metered water rates the average metered residential customer monthly bill would increase to \$57.20 or an increase of \$32.68 per month.

***Water Cost of Service Analysis*** – After the revenue requirement is completed the cost of service analysis can be conducted. Cost of service studies consist of three analyses, functionalization, classification, and allocation. Functionalization is the assignment of cost of assets to their primary function or purpose. Examples of functional categories are: transmission/distribution, source of supply, storage, or treatment plant. After functionalization, expenses are then classified to what they were expended to serve. Maintenance on a well classified as source of supply is an example of functionalization. The final step is allocation of the classified costs to the different types of customers served by the water utility. Categories used as allocation factors are capacity (peak day), commodity (average day), number of customers, customer accounting cost, meters/services, public fire protection, revenue related, and direct assignments.

The summary of the cost of service analysis provides a comparison of current revenues to allocated costs to determine if any interclass adjustments are necessary to develop cost-based rates during the rate design process. Provided below in Table ES-4 is a summary of the cost of service analysis.

**Table ES-4**  
**Summary of the Cost of Service Analysis (\$000's)**

Class of Service	Present Rate Revenues	Allocated Costs	\$ Difference	% Difference
Residential	\$3,834	\$3,936	(\$102)	2.7%
Multi-Family	640	443	197	-30.7%
Commercial	879	588	290	-33.1%
Institutional	194	110	83	-43.0%
Large User	303	152	151	-49.9%
Landscape	434	356	77	-17.9%
City	0	36	(36)	0.0%
<b>Total</b>	<b>\$6,282</b>	<b>\$5,622</b>	<b>\$661</b>	<b>-10.5%</b>

When reviewing the cost of service results a general rule of thumb to test the results is if the classes of service are within +/- 5% of the overall required adjustment the customers are within the range of reasonableness.

When reviewing Table ES-4 it would appear that cost of service adjustments are necessary. However, it is not recommended that the results shown in Table ES-4 be implemented at this time for several reasons. First, as noted previously the development of the cost of service is based on the average and peak day needs of the customers and currently the City does not have metered consumption data for its residential, and some commercial customers. As a result estimates were used in the development of the cost of service analysis. Second, this is the first cost of service analysis conducted for the water utility and cost of service adjustments may not reflect actual consumption patterns in the future as the City begins to meter all of its customers. As a result, future cost of service results will most likely show a change in the relationships between the customer classes of service. Third, given the level of the proposed rate adjustments, and the change to metered rates, one more additional impact to the customers would likely increase the rate impacts to a majority of the City's customers.

Given this, at this time it is recommended that the City transition to metered water rates and implement the rate transition plan to fund the operating and capital needs of the water utility.

**Water Rate Design** – At this time the priority of the City is to generate an adequate level of funding for the water utility operating and capital needs and transition to metered water rates. Presently the City has two rate schedules, one for residential customers and one for commercial customers (or all other non-residential customers). The residential customers are charged a fixed flat rate based on lot sizes. There are two types of commercial customers, flat rate and metered customers. The flat rate customers are charged a simple fixed flat rate each month. The metered customers are charged a fixed meter rate which varies by meter size and a uniform consumption charge (the rate remains the same for all consumption).

As noted in the revenue requirement discussion the proposed rate transition plan has assumed 20% rate adjustments over the next four years. Based on this transition plan, the rates for the

City's customers could be developed. Presented below in Table ES-5 is a summary of the present (FY 2008/2009) water rate schedules.

Table ES-5 Summary of the City's Present Water Rates	
Rate Structure Description	Present Rate
<b>Monthly Residential Flat Rates -</b>	
<5K sq ft lots, apts, condos, mobile homes	\$19.89
<10K sq ft lots, attached >5K sq ft	24.52
>10K sq ft lots, attached >10K sq ft	28.95
<b>Monthly Commercial Rates -</b>	
Flat Rate	\$15.48
Metered Rate: 3/4" Meter	\$1.90
1" Meter	3.79
1 1/2" Meter	7.55
2" Meter	11.34
3" Meter	22.66
4" Meter	37.78
6" Meter	75.55
Usage Charge (per ccf)	1.51

*Note: 1 Cubic foot of water = 7.48 gallons*

**Proposed Residential Water Rates** – Proposed water rates were developed for the next four fiscal years, starting January 1, 2010 and then at the start of each subsequent fiscal year. In addition to the proposed rate adjustments, the City is also required to implement metered rates starting January 1, 2010 for customers that have an existing meter, or were constructed after 1992 when the initial legislation was enacted. The metered residential customers would be billed a monthly meter charge which would vary by meter size, and a uniform consumption charge for all water use. The meter charges were adjusted based on typical equivalent meter ratios and to be more in line with contemporary water rate designs. The consumption charges start with a uniform block in FY 2009/2010, a two tiered block rate in FY 2010/2011, and a three tiered block rate in FY 2011/2012 – FY 2012/13.

Flat rate customers would continue on a flat rate until a meter is installed and placed in service. The flat rate was increased at the same rate as the proposed metered rates, or by 20% each year. A summary of the proposed residential water rates are shown in Table ES-6.

**Table ES-6**  
**Summary of Proposed Residential Water Rates**

	Present Rates	Proposed Jan. 1, 2010 Rates	Proposed FY 10/11 Rates	Proposed FY 11/12 Rates	Proposed FY 12/13 Rates
<b>Meter Charge Per Month –</b>					
< 2" Meter	N/A	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	N/A	26.30	29.60	37.60	45.10
4" Meter	N/A	43.80	49.30	62.60	75.10
6" Meter	N/A	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>					
<5K sq ft lots, apts, condos, mobile homes	\$19.89	\$23.85	\$28.60	\$34.30	\$41.15
<10K sq ft lots, attached >5K sq ft	24.52	29.40	35.30	42.35	50.80
>10K sq ft lots, attached >10K sq ft	28.95	34.75	41.70	50.05	60.05
<b>Consumption Charge Per CCF –</b>					
Block 1 – 0 to 12 ccf per month	N/A	\$0.95	\$1.20	\$1.35	\$1.75
Block 2 – 13 to 20 ccf per month	N/A	--	1.38	1.62	2.10
Block 3 – Over 20 ccf per month	N/A	--	--	2.03	2.63

*Note: 1 Cubic foot of water = 7.48 gallons*

***Proposed Commercial, Multi-Family, Institutional, and City Water Rates*** – A single rate structure was developed for the commercial, multi-family, institutional, and city customers. The monthly meter charge was set at the same level as the residential monthly metered charge which varies by size. For the commercial customers, the consumption charge is the same for all usage, or what is known as a uniform block rate. For those customers that are included in the commercial rate schedule, the consumption charges portion of the bill is a larger proportion of the monthly bill. In this way, the uniform rate will provide some incentive for the commercial class of service to conserve water when possible. A summary of the proposed commercial, multi-family, institutional, and City water rates are shown in Table ES-7.

**Table ES-7**  
**Summary of Proposed Commercial Water Rates**

Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>					
	\$20.05	\$24.05	\$28.85	\$34.60	\$41.50
<b>Consumption Charge Per CCF –</b>					
	\$1.51	\$1.76	\$2.00	\$2.15	\$2.35

*Note: 1 Cubic foot of water = 7.48 gallons*

*Commercial class of service includes all commercial, multi-family, institutional, and City accounts*

**Proposed Large Uniform User Water Rates** – In addition to the typical commercial customers that the City provides service to, there is a large uniform use customer. This customer consumes roughly the same level of water on a daily basis during the course of a year. As a result, the customer has a very minimal peak capacity needs. As a result, a separate rate schedule has been developed for this customer class. However, the monthly meter charge for this customer class is the same as those for a residential or commercial customer. The consumption charge is also uniform rate, the same type of consumption rate structure the commercial customers are charged under. Where this rate schedule will vary is in the level of the consumption charge. In this case the uniform rate will be slightly less than the commercial uniform rate to represent the lack of capacity requirements of this type of customer. In the future, if the City has other like customers, a minimum monthly or annual use should be established for these types of customers. A summary of the proposed large uniform user water rates are shown in Table ES-8.

Table ES-8 Summary of Proposed Large Uniform User Water Rates					
Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Consumption Charge Per CCF –</b>	\$1.51	\$1.70	\$1.91	\$2.10	\$2.30

*Note: 1 Cubic foot of water = 7.48 gallons*

**Proposed Landscape Water Rates** – The metered rates for landscape customers were set equal to the residential metered rates. The consumption charge is a uniform block and was set at a level equal to or greater than the residential block 2 rate which is the rate for outdoor use. A summary of the proposed landscape water rates are shown in Table ES-9.

Table ES-9 Summary of Proposed Landscape Water Rates					
Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>	\$15.48	\$18.60	\$22.30	\$26.75	\$32.10
<b>Consumption Charge Per CCF –</b>	\$1.51	\$1.75	\$2.05	\$2.35	\$2.80

*Note: 1 Cubic foot of water = 7.48 gallons*

## Section 1

# Overview of Utility Rate Setting Principles

### 1.1 Introduction

HDR Engineering (HDR) was retained by the City of Woodland (City) to perform a comprehensive water rate study. The purpose of this rate study was to determine the adequacy of the existing water rates and provide the basis for adjustments to meet the City's future operating and capital needs. In addition, the City is legally required to implement metered water rates for its customers by January 1, 2010 for those metered customers and post 1992 constructed homes.

*“In developing and establishing utility rates, there are “generally accepted” principles or guidelines around which rates should be set.”*

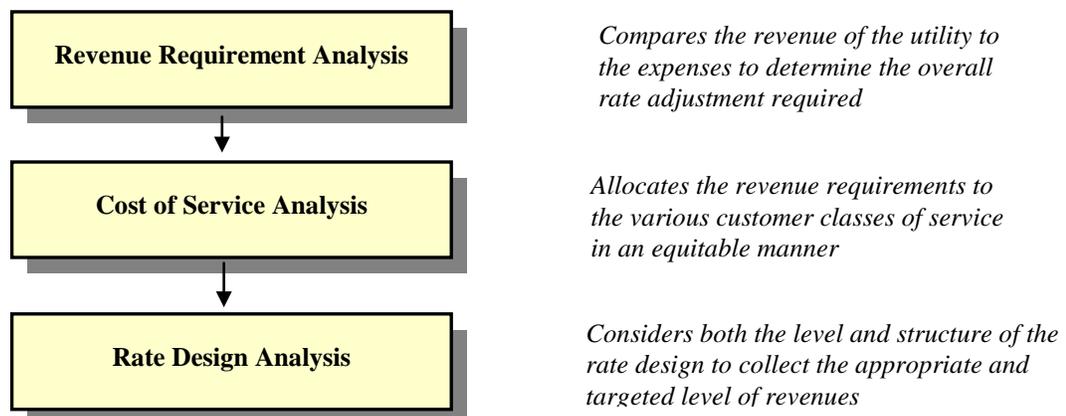
In developing and establishing utility rates, there are “generally accepted” principles or guidelines around which rates should be set. This section of the report provides a general overview of the methodology and guidelines used for setting cost-based rates for each of the utilities. This should give the reader a better understanding of the general process that is detailed later in this report.

### 1.2 Overview of Rate Study Process

User rates must be set at a level where a utility's operating and capital expenses are met with the revenues received from customers. This is an important point, as failure to achieve this objective may lead to insufficient funds to maintain system integrity. To evaluate the adequacy of the existing rates, a comprehensive rate study is often performed.

A comprehensive rate study consists of three interrelated analyses. Table 1-1 provides an overview of these analyses.

Table 1-1  
Overview of the Comprehensive Rate Analyses



## 1.3 Global Principles in Which Rates Should Be Set

The “generally accepted” principles around which rates should be set may be items such as setting rates that are cost-based, equitable, and easy to administer. These types of principles may be referred to as “global principles” since they are an industry standard that should be utilized by any utility in the development of its rates.

Provided below is a brief listing of the global principles around which the City should set its utility rates:

- Rates should be cost based and equitable, and set at a level able to meet the full revenue requirements of the utility.
- Rates should be easy to understand and administer.
- Rates and the process of allocating costs should conform to generally accepted rate setting techniques.
- Rates should be stable, in their ability to provide adequate revenues to meet the utility’s financial, operating, and regulatory requirements.
- Rate levels should be stable from year to year from the customer’s perception.

These guiding principles were utilized within this study to help develop utility rates that are cost-based and equitable.

## 1.4 Determining the Revenue Requirement

Most public utilities use the “cash basis” approach for establishing their revenue requirement and setting rates. This approach conforms to most public utility budgetary requirements and the calculation is easy to understand. A public utility:

- Totals its cash expenditures for a period of time to determine required revenues.
- Adds operation and maintenance (O&M) expenses to any applicable taxes or transfer payments to determine total operating expenses. Operation and maintenance expenses include the materials, electricity, labor, supplies, etc. needed to keep the utility functioning.
- Calculates capital costs by adding debt service payments (principal and interest) to capital improvements financed with rate revenues. In lieu of including capital improvements financed with rate revenues, a utility sometimes includes depreciation expense to stabilize annual revenue requirement.

Under the cash basis approach to accounting, the sum of the capital and operating expenses equals the utility’s revenue requirement during any period of time (see Table 1-2).

Note that the two portions of the capital expense component (debt service and capital improvements financed from rates) are necessary under the cash basis approach because utilities generally cannot finance all their capital facilities with long-term debt.

Table 1-2  
Overview of the “Cash Basis” Methodology

+	O&M Expense
+	Taxes or Transfer Payments
+	Capital Additions Financed with Rate Revenues ( $\geq$ Depreciation Exp.)
+	Debt Service (P+I)
=	Total Revenue Requirements

## 1.5 Analyzing Cost of Service

After the total revenue requirement is determined, it is allocated to the users of the service. The allocation, usually analyzed through a cost of service study, reflects the cost relationships for producing and delivering services.

A cost of service study requires three steps:

1. Costs are **functionalized** or grouped into the various cost categories related to providing service (source, pumping, transmission, distribution, etc.). This step is largely accomplished by the utility’s accounting system.
2. The functionalized then costs are **classified** to specific cost components. Classification refers to the arrangement of the functionalized data into cost components. For example, a water utility’s costs are typically classified as commodity, capacity, fire protection, and/or customer-related.
3. Once the costs are classified into components, they are **allocated** to the customer classes of service (residential, commercial, etc.). The allocation is based on each customer class’ relative contribution to the cost component. For example, customer-related costs are allocated to each class of service based on the total number of customers in that class of service. Once costs are allocated, the required revenues for achieving cost-based rates can be determined.

## 1.6 Designing Rates

Rates that meet the utility’s objectives are designed based on both the revenue requirement and the cost of service analysis. This results in rates that are cost-based; however, rate design may also consider factors such as ability to pay, continuity of past rate philosophy, economic development, ease of administration, and customer understanding. It is important to understand that cost of service is only one goal or objective in designing final water rates, however, it is an important one.

## 1.7 Economic Theory and Rate Design

One of the major justifications for a comprehensive rate study is founded in economic theory. Economic theory suggests that the price of a commodity must roughly equal its cost, if equity among customers is to be maintained. The implications of this statement on utility rate design are significant. For example, volume-related costs are usually incurred by a wastewater utility to

meet flow requirements. Thus, the customers causing peak flows should properly pay for the demand-related facilities in proportion to their contribution to maximum demands. Through refinement of costing and pricing techniques, consumers of a product are given a more accurate price signal of what the costs are for collection and treatment. The above basic thoughts have considerable foundation in economic literature. They also serve as primary guidelines for rate design by most utility regulators and administrative agencies. This “price-equals-cost” concept will provide the basis for much of the subsequent analysis and comment.

## 1.8 Prudent Financial Planning

There are three key financial indicators that should be considered in the development of any utility financial plan, or revenue requirement. These three indicators are: capital projects funded from rates, debt service coverage ratio, and reserve levels. The following discussion provides a brief overview of each of these financial planning indicators.

***Capital Projects Funded From Rates*** – Prudent financial planning dictates that a utility should fund a certain portion of capital improvement projects from rates on an on-going basis. The general financial guideline used is that at a minimum, a utility should fund an amount equal to or greater than annual depreciation expense. However, there are three reasons for increasing the level of capital funding through rates. The first is that, funding levels over and above depreciation expense better reflect actual replacement cost. Second, increasing the level of capital funding will help provide cash flow to fund the capital plan in future years, and minimize any long-term borrowing needs. Third, an increased level of capital funding will strengthen the utilities debt service coverage ratio.

***Debt Service Coverage Ratio*** – The debt service coverage ratio is an important financial measure that is reviewed by bond rating agencies and banks to evaluate a utility’s ability to make debt payments. This ratio is calculated by subtracting total O&M and taxes from total revenues. The resulting figure is then divided by the amount of annual revenue bond debt service payments to determine the utilities debt service coverage ratio. Typically, most bond covenants require at least a minimum debt service coverage ratio of 1.25. A strong debt service coverage ratio may provide the benefit of a higher bond rating and potentially lower interest costs (i.e., lower risk equates to lower interest rates). Currently, the City strives to maintain a debt service coverage ratio of about 1.25.

***Reserve Levels*** – Reserve levels are a crucial part of a utility’s financial picture. Typically utilities maintain several different types of reserve funds. These may include: an operating reserve, a capital reserve, an emergency or contingency reserve, and a rate stabilization reserve. Each of these reserves has its own financial, operating or legal requirements which may set an established minimum reserve level (e.g. a bond reserve). A key aspect of reviewing reserve levels was determining target minimum levels for the City’s current reserves. It is important to remember that when reserves fall below the targeted minimum level, management should review the cause of the declining reserves and determine what action, if any, should be taken. Maintenance of minimum reserve levels should not, on its own, trigger the need for a rate adjustment, (e.g. rates should be reviewed after two consecutive years of loss of revenue or diminishing reserves as a result of covering costs).

Each of these components is critical in the success of the City issuing future bonds for maintaining and replacing the existing system as well as for the financing of the surface water project. The analysis completed for the City has assumed that these key planning criteria have been met to allow for the funding of the future capital needs of the water utility.

## 1.9 Summary

While the general description of the utility rate setting process discussed in this section of the report is greatly simplified and abbreviated, it does however address the basic elements of contemporary regulatory thinking. These principles, techniques, and economic theory were the basis for the comprehensive rate study and the foundation used to meet the City's key objectives in establishing its water rates.

## Section 2

# Development of the Revenue Requirement

### 2.1 Introduction

This section describes the development of the revenue requirement analysis for the City's water utility. The revenue requirement analysis is the first analytical step in the comprehensive rate study process. This analysis determines the adequacy of the City's overall water rates at current rate levels. From this analysis, a determination can be made as to the overall level of rate adjustment needed to provide adequate and prudent funding for both operating and capital needs. Typically, one of the main objectives of a rate study is to develop fair and equitable rates while attempting to minimize the impacts to the utility's customers.

### 2.2 Development of the Water Revenue Requirements

The development of revenue requirements is the first step in the comprehensive rate study process. A revenue requirement analysis determines the adequacy of the overall level of water rates. From this analysis, a determination can be made as to the level of water rate adjustment needed to provide adequate and prudent funding for both operating and capital needs. In developing the revenue requirement, it was assumed the utility must financially "stand on its own" and be properly funded. As a result, the revenue requirement as developed herein assumes the full and proper funding needed to operate and maintain the system on a financially sound and prudent basis.

The City's budget documents, consumption data, and capital improvement plan were used to complete the revenue requirements. A number of items were calculated independently of the budget document. These items were the revenues at present rate levels, and the reserve levels, based on the City's financial policies. Provided below is a detailed discussion of the development of the water utility revenue requirements.

### 2.3 Establishing a Time Frame and Approach

The initial step in calculating the revenue requirement for the water utility was to establish a "test period", or time frame of reference for the revenue requirement analysis. For this particular study, the revenue requirements were developed for the budgeted time period of FY 2008/2009 and the projected ten-year period of FY 2009/2010 – FY 2018/2019. The study, however, focused on the four-year time period of FY 2009/2010 – FY 2012/2013. Reviewing a multi-year time period is generally recommended in an attempt to identify any major expenses that may be on the horizon. By anticipating future financial requirements the City can begin planning for these changes sooner, thereby, minimizing short-term rate impacts and rates over the long-term.

The second step in determining the revenue requirements for the City was to decide on the basis of accumulating costs. Section 1 of this report provided a simple overview of the "cash basis" methodology. In developing the actual revenue requirements for the City, this approach has been "customized" to follow the City's system of accounts (budget/accounting documents). However,

in general, even with these modifications, the City’s revenue requirements still contain the four basic cost components of a “cash basis” methodology. Table 2-1 provides a detailed summary of the "cash basis" approach that was used to develop the water revenue requirements for the City.

**Table 2-1**  
**Overview of the Cash Basis Revenue Requirements**

<ul style="list-style-type: none"> <li>+ Operation and maintenance exp. <ul style="list-style-type: none"> <li>✓ Water Distribution System</li> <li>✓ Bill and Collect</li> <li>✓ Water Conservation</li> <li>✓ Water Wells</li> <li>✓ Operations Admin</li> </ul> </li> <li>+ Taxes/Transfer payments</li> <li>+ Capital funded through rates<sup>(a)</sup></li> <li>+ Debt service (P + I) existing and future</li> <li>± Transfers to Reserves</li> <hr style="width: 30%; margin-left: 0;"/> <li>= Total Water Revenue Requirement</li> </ul>	<ul style="list-style-type: none"> <li>(a) Capital funded through rates <ul style="list-style-type: none"> <li>+ Total water capital improvement projects</li> <li>- Funding sources other than rates <ul style="list-style-type: none"> <li>✓ Reserves</li> <li>✓ Grants</li> <li>✓ Developer Funded</li> <li>✓ Low-interest loans</li> <li>✓ Long term debt issues</li> </ul> </li> </ul> </li> <hr style="width: 30%; margin-left: 0;"/> <li>= Net Capital Improve. Funded From Rates</li> </ul>
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Given a time period around which to develop the revenue requirements, and a method to accumulate the costs, the focus can now shift to the projection of revenues and expenses for the City’s water utility. The primary financial inputs in this process were the City’s historical billing records, the City’s capital improvement plan, and the City’s FY 2008/2009 budgeted expenses. Provided below is a detailed discussion of the steps and key assumptions contained within the development of the City’s revenue requirement analysis.

### 2.3.1 Projection of Revenues

The City receives revenue from two primary sources, rates and other revenue. Rate revenue are based on the current rate structure and collected on a monthly basis. Other revenue includes items such as interest income, late fees, and other miscellaneous revenues. The following will provide a discussion of the revenue collected by the City.

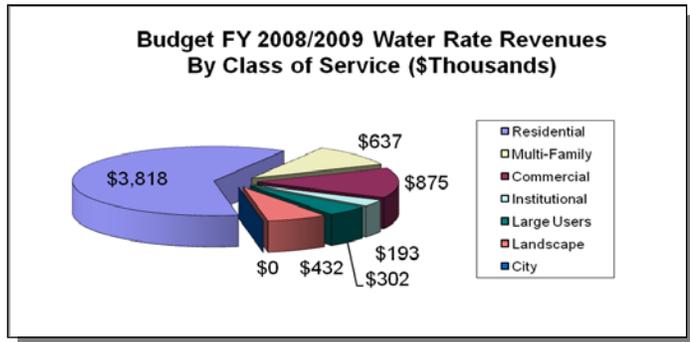
### 2.3.2 Projection of Rate Revenues

The revenue requirement calculation begins with a projection of rate revenues at present rate levels. This process involved developing projected billing units for each customer class of service (e.g. residential, commercial, etc.) based on historical usage records and an assumed annual growth rate. The billing units are then applied (multiplied) against the current rates to calculate the projected revenue. This method of independently calculating revenue ensures consistency in the revenue and consumption figures that are used throughout the comprehensive rate study process.

The revenue at present rates was calculated using FY 2007/2008 historical consumption data and the FY 2008/2009 rate schedule. Rate revenues were projected forward to FY 2009/2010 based

on the calculated FY 2008/2009 rate revenues, plus as assumed growth rate. The current growth rate is estimated to be about 0.4% annually and is expected to increase to 2.1% by FY 2012/2013.

The vast majority of the City’s rate revenues are derived from residential customers. The City also serves multi-family, commercial, institutional, large users, landscape, and City customers. In total, at present rates, the City is projected to receive about \$6.3 million in rate revenues in FY 2008/2009.



### 2.3.3 Other Revenues

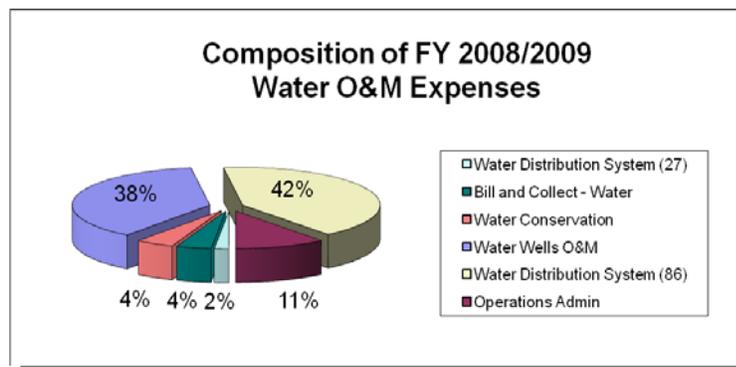
In addition to rate revenues, the City also received a variety of miscellaneous revenues which include fees, licenses, permits, and shut-off notices and fees. These miscellaneous revenues may vary by year, but are level during the planning period. The City also receives interest income which was calculated based on the current reserve levels. Initially interest income was escalated at 3.0% per year and is expected to increase to 5.3% in FY 2011/2012. From FY 2011/2012 forward, interest income was escalated at 5.3% per year.

On a combined basis, taking into account the rate revenues along with miscellaneous revenues, the City’s total projected revenues are expected to be approximately \$6.5 million in total rate and miscellaneous revenues in FY 2008/2009 increasing to \$7.0 million by FY 2012/2013 based on the current growth assumptions at current rate levels.

## 2.4 Projection of Operation and Maintenance Expenses

Operation and maintenance (O&M) expenses are incurred by the City to obtain and produce water supply resources and deliver it to its customers. The costs incurred are expensed during the current year and are not capitalized or amortized over an extended period of years.

In general, operation and maintenance expenses are grouped into a number of different functional and operational areas (see Table 2-1). To begin the process of projecting O&M expenses over



the planning horizon, escalation factors were developed for the various types of expenses that the City incurs: utilities, labor, benefits, materials and supplies, equipment, miscellaneous, depreciation, and regulatory. Because of the recent large escalations in medical benefit costs, a separate escalation factor was developed for medical benefits and assumed to be 10% per year over the

planning horizon. The other escalation factors used were in the range of 0.4% - 8% per year, depending upon the type of cost and recent inflationary trends.

To project future O&M expenses, the first step was to determine the functional categories for purposes of projecting costs. HDR reviewed the City's FY 2008/2009 budget and determined that it contained enough detail for the revenue requirements analysis. Therefore, in developing this analysis, HDR maintained the overall functional nature of the City's system of accounts (i.e., personnel and supplies/services).

Given the functionalized FY 2008/2009 O&M expenses, HDR then escalated the O&M expenses based upon the previously mentioned escalation factors. Total operation and maintenance expenses for the City are projected to be approximately \$5.1 million in FY 2008/2009. O&M expenses are projected to increase to approximately \$7.1 million by FY 2012/2013, primarily as a result of the assumed inflation over that time period and assumptions of budgetary changes from the City's 10-year financial plan.

## 2.5 Projection of Taxes

The second component of the "cash basis" revenue requirement is the tax payments. At the present time, the City does not have any State or Federal tax payments. This is not expected to change over the planning horizon.

## 2.6 Capital Improvement Projects Funded from Rates

A utility typically has two basic types of capital improvement projects to consider: renewals and replacements and growth-related projects. A utility may also need to make "regulatory" or "mandated" improvements. These may be required by Federal or State legislation (e.g., Safe Drinking Water Act). The City's water capital improvement plan (CIP) was used as a starting point to project the capital improvement needs of the utility. City utility management refined the CIP to reflect current known project costs, needs, and anticipated funding.

An important aspect of the water revenue requirements was the funding of capital improvements. The City anticipates approximately \$54 million in capital expenditures for the water utility over the 10-year period of FY 2008/2009 through FY 2018/2019 and \$176 million in capital expenditures for the Surface Water Project from FY 2008/2009 through FY 2015/2016. A summary of the water capital improvement projects is provided below in Table 2-2. A detailed summary of the capital projects is shown in the Technical Appendix, Exhibit 4.

**Table 2 – 2**  
**Summary of the City's Water Capital Projects (\$000s)**

	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13
<b>Capital Improvement Program</b>					
CIP Projects	\$6,073	\$13,671	\$14,820	\$8,085	\$4,520
Transfer to Reserves	3,402	939	0	0	0
	-----	-----	-----	-----	-----
<b>Total Capital Improvement Projects</b>	<b>\$9,475</b>	<b>\$14,610</b>	<b>\$14,820</b>	<b>\$8,085</b>	<b>\$4,520</b>
Less: Funding Sources Other Than Rates	\$9,475	\$14,610	\$14,420	\$7,435	\$3,670
<b>CIP Funded Through Rates</b>	<b>0</b>	<b>0</b>	<b>400</b>	<b>650</b>	<b>850</b>
<hr/>					
<b>Surface Water Project</b>	<b>\$25</b>	<b>\$3,731</b>	<b>\$7,705</b>	<b>\$10,419</b>	<b>\$15,488</b>
Less: Funding Sources Other Than Rates	0	3,731	7,705	10,419	15,488
<b>SWP Capital Funded Through Rates</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

There are a number of different methods that may be used to fund the City's capital projects. Among the methods that may be used to finance these capital improvement projects are long-term debt, system development fees, capital reserves and rates.

A general financial guideline that can be used to determine proper funding levels for capital improvements from rates is that, at a minimum, a utility should fund an amount equal to or greater than annual depreciation expenses. Annual depreciation expense reflects the current investment in the plant that is being depreciated or "losing" its useful life. Therefore, this portion of plant investment needs to be replaced to maintain the existing level of infrastructure. It must be kept in mind, in theory, annual depreciation expense reflects an investment in infrastructure an average of fifteen (15) years ago, assuming a 30-year useful (depreciable) life. Simply funding an amount equal to annual depreciation expense will not be sufficient to replace the existing or depreciated facility. Therefore, consideration should be given to funding within rates some amount greater than annual depreciation expense for renewals and replacements. Whenever possible, the City should be funding capital projects from rates in an amount that is greater than annual depreciation expense.

***“A general financial guideline that can be used to determine proper funding levels for capital improvements from rates is that, at a minimum, a utility should fund an amount equal to or greater than annual depreciation expenses.”***

The City's capital improvement plan totals approximately \$47.2 million over the FY 2008/2009 – FY 2012/2013 time horizon. The funding sources of these projects are assumed to be from the development fees, revenue bonds, state revolving fund loans, grants, reserves, and rates. The City is planning on funding approximately \$5.2 million in capital improvements from development fees, \$22.6 million from revenue bonds, \$7.8 million from grants, \$7.5 million in state revolving fund loans, and \$1.9 million from reserves and rates.

The capital costs for Surface Water Project totals approximately \$86.8 million over the FY 2008/2009 – FY 2012/2013 time horizon. The funding sources for this project are assumed to be from revenue bonds and development fees. The debt service for this revenue bond will be paid in part by development fees and part by rates.

## 2.7 Debt Service Payments

Debt service relates to the principal and interest obligations of the water utility when financing capital projects with long-term debt issues. The City currently has an outstanding CEC Loan however the payments end in 2016/2017. The annual debt service payment for this loan is approximately \$138,000 per year. The City is currently negotiating new revenue bonds to be issued in 2008/2009 and 2009/2010, and approximately \$4.5 million in future years. The City is also pursuing a state revolving fund loan. These new bonds and loan will increase the total debt service payment to an average of about \$3.0 million per year.

In addition to funding existing capital improvements the City has assumed revenue bonds to fund the Surface Water Project. The additional annual debt service payment for the Surface Water Project increases annually based on the timing of the issues to approximately \$2.1 million per year during the five year period reviewed.

## 2.8 Summary of the Water Revenue Requirements

The above components of the revenue requirements come together to develop the overall revenue requirements for the City. In developing the final revenue requirements, consideration was given to the financial planning criteria of the City. In particular, emphasis was placed on attempting to minimize rates, yet still providing adequate Debt Service Coverage and funds to support the City's operational activities along with the planned capital projects throughout the projected time period. A summary of the water revenue requirements is shown below in Table 2-3.

**Table 2 – 3**  
**Summary of the Water Revenue Requirement Analysis (\$000s)**

	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13
<b>Revenue -</b>					
Rate Revenue	\$6,257	\$6,282	\$6,308	\$6,368	\$6,465
Miscellaneous	262	291	452	534	527
	-----	-----	-----	-----	-----
<b>Total Revenue</b>	<b>\$6,519</b>	<b>\$6,573</b>	<b>\$6,759</b>	<b>\$6,902</b>	<b>\$6,992</b>
<b>Expenses -</b>					
O&M	\$5,057	\$5,271	\$6,182	\$6,342	\$7,079
CIP from Rates	0	0	400	650	850
Debt Service	464	790	1,904	2,261	2,602
Transfers	0	0	0	0	0
	-----	-----	-----	-----	-----
<b>Total Expenses</b>	<b>\$5,521</b>	<b>\$6,060</b>	<b>\$8,486</b>	<b>\$9,252</b>	<b>\$10,530</b>
Bal./(Def.) of Funds w/o SWP	\$998	\$513	(\$1,727)	(\$2,351)	(\$3,538)
Adj. as a % of Rate Revenues w/o SWP	-15.9%	-8.2%	27.4%	36.9%	54.7%
<b>SWP Expenses</b>					
Less: SWP Connection Fees	\$25	\$0	\$426	\$813	\$2,626
	0	148	171	412	652
Bal./(Def.) of Funds with SWP	\$972	\$661	(\$1,982)	(\$2,753)	(\$5,512)
Adj. as a % of Rate Revenues	-15.5%	-10.5%	31.4%	43.2%	85.3%

The results shown in Table 2-3 indicate a deficiency of funds in each year of the projected time period. This is due mostly in part to the increased level of funding for capital improvement projects and surface water project assumed in this study. Detailed exhibits of the water revenue requirement analysis prepared for the City are provided in Technical Appendix at the end of this report.

It should be noted that the balance or deficiencies in any single year are cumulative. That is, any adjustments in the initial years will reduce the deficiency in the following years. Over the ten year projected period, rates will need to be adjusted by 85.3% in order to adequately and properly fund the City's water utility operational and capital infrastructure needs and the Surface Water Project.

## 2.9 Rate Transition Plan

To implement the needed adjustments, a water transition plan was developed. The rate adjustments are primarily the result of the capital improvement projects and Surface Water Project and the resulting debt service. Provided in Table 2-4 is the proposed water utility rate transition plan for the next four years. These proposed rates are also shown in the rate design section.

**Table 2 – 4**  
**Water Utility – Four Year Rate Transition Plan**

	FY 2008/09	January 1, 2010	FY 2010/11	FY 2011/12	FY 2012/13
Present Monthly Residential Bill <sup>1</sup>	\$24.52				
<b>Proposed Water Rate Adjustments</b>	<b>0%</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>	<b>20%</b>
Projected Monthly Residential Bill (Metered with 20 CCF)	\$24.52	\$33.40	\$40.99	\$47.00	\$57.20
\$ Change per Month		8.88	7.59	6.01	10.20
Cumulative \$ Change per Month		8.88	16.47	22.48	32.68
Projected Monthly Residential Bill (Flat)	\$24.52	\$29.40	\$35.30	\$42.35	\$50.80
\$ Change per Month		4.88	5.90	7.05	8.45
Cumulative \$ Change per Month		4.88	10.78	17.83	26.28

[1] Average bill assumed a 2" meter.

As Table 2-4 indicates, the current average residential bill for a City customer is \$24.52/month. Given the rate transition plan, the adjustments over time will change the average metered residential bill to \$57.60 per month by FY 2012/2013, or a \$33.08/month overall change. The flat rate customers will see their monthly bill increase by \$26.28, for a total monthly bill of \$50.80.

## 2.10 Debt Service Coverage

The debt service coverage (DSC) ratio is a financial measure of the utility's ability to repay outstanding debt. The City must maintain a minimum of a 1.20 DSC on outstanding revenue bonded debt when including connection fee revenues. Without connection fee revenues a target of 1.0 must be maintained. Failure to meet the minimum DSC for an outstanding debt obligation is considered to be technical default, making the revenue bonds callable or payable upon demand. Therefore, it is critical that the utility meet this legal requirement. On this basis, the net revenue of the (gross revenue of the utility less operating and maintenance expenses) must currently equal at least 1.20 times the City's annual revenue bond debt service payments.

Table 2-5 provides a summary of the calculation of debt service coverage ratios.

**Table 2 - 5**  
**Summary of Revenue Debt Service Coverage Ratio**

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19
<b>DSC Ratio (w/o Development Fees and SRF Loan)</b>											
Before Rate Adjustment	3.15	0.76	0.18	0.06	-0.16	-0.05	-0.06	-0.14	-0.29	-0.31	-0.33
After Rate Adjustment	1.05	0.91	1.22	1.21	1.14	1.08	1.03	1.05	1.02	1.04	1.09
After Proposed Rate Adj.	3.15	1.43	1.31	1.41	1.29	1.16	1.14	1.12	1.05	1.14	1.23
<b>DSC Ratio (with Development Fees, less SRF Loan)</b>											
Before Rate Adjustment	3.55	0.95	0.33	0.32	0.14	0.19	0.17	0.05	-0.10	-0.11	-0.12
After Rate Adjustment	1.45	1.10	1.37	1.46	1.44	1.32	1.26	1.24	1.21	1.24	1.30
After Proposed Rate Adj.	3.91	1.62	1.55	1.73	1.64	1.43	1.37	1.31	1.25	1.34	1.34

## 2.11 Revenue Requirement Recommendations

Based upon the revenue requirement analysis developed, HDR recommends the City increase the overall revenue levels of the water utility 20% on January 1, 2010. In addition, future rates should be adjusted by 20% per year at the beginning of the fiscal year. While this would require two 20% adjustments in the next 12 month period, the City has not increased rates for the past several years. In order to maintain adequate DSC ratios these proposed rate adjustments are required. If these adjustments are not made, the City will not have adequate funds available for the current capital plan or Surface Water Project.

## Section 3

# Development of the Cost of Service

### 3.1 Introduction

In the previous section of the report, the revenue requirement analysis focused on the total sources and applications of funds required to adequately fund the City's water utility. This section of the report will discuss and review the cost of service analysis. A cost of service analysis is concerned with the equitable allocation of the total revenue requirements between the various customer classes of service (e.g. residential, commercial, etc.). The previously developed revenue requirements will be utilized in the development of the cost of service analysis.

In recent years, increasing emphasis has been placed on cost of service studies by government agencies, customers, utility regulatory commissions and other parties. This interest has been generated in part by continued inflationary trends, increased operating and capital expenditures, and concerns of equity in rates among customers. Following the generally-accepted guidelines and principles of a cost of service analysis will inherently lead to rates which are equitable, cost-based, and not viewed as arbitrary or capricious in nature.

***“Following the generally-accepted guidelines and principles of a cost of service analysis will inherently lead to rates which are equitable, cost-based and not viewed as arbitrary or capricious in nature.”***

### 3.1 Objectives of a Cost of Service Analysis

There are two primary objectives in conducting a cost of service study. They are as follows:

- Allocate the revenue requirements among the customer classes of service
- Derive average unit costs for subsequent rate designs

The objectives of the cost of service analysis are different from determining revenue requirements. As noted in the previous section, a revenue requirement analysis determines the utility's overall financial needs, while the cost of service study determines the "fair and equitable" manner to collect those revenue requirements.

The second rationale for conducting a cost of service analysis is to ensure that a rate is designed such that it properly reflects the costs being incurred by the City. For example, a water utility incurs costs related to flow, capacity, fire protection, and customer cost components. A water utility must build sufficient capacity to meet summer peak capacity needs. Therefore, those customers that create this summer peak requirement should pay their fair share of the cost to meet this peak demand. Each of these types of costs may be collected in a slightly different manner as to allow for the development of rates that collects costs in the same manner as they are incurred.

### 3.2 Determining the Customer Classes of Service

At the present time, the City’s rate schedules are divided between two classes of service, residential and commercial. For the cost of service study, the key issue to be addressed was whether there are cost differences associated with serving the different types of customers. Therefore, for purposes of this study, the customer groups reviewed were as follows:

- Residential
- Multi-Family
- Commercial
- Institutional
- Large Uniform Users
- Landscape
- City

In determining classes of service for cost of service purposes, the objective is to group customers together into similar or homogeneous groups based upon facility requirement and/or flow characteristics. Given the transition to metered rates it was determined that these classes of service would be used for the Cost of Service to determine the unit costs for rate design purposes. It should be noted that rate design, or the final rate ordinances for the City, do not need to be separated into these classes. At the conclusion of the cost of service analysis a determination can be made for the purposes of rate design.

### 3.3 General Cost of Service Procedures

In order to determine the cost to serve each customer class of service on the City’s system, a cost of service analysis is conducted. A cost of service study utilizes a three-step approach to review costs. These take the form of functionalization, classification, and allocation.

Provided below is a detailed discussion of the water cost of service study conducted for the City, and the specific steps taken within the analysis.

*“A cost of service study utilizes a three-step approach to review costs. These take the form of functionalization, classification, and allocation.”*

#### 3.3.1 Functionalization of Costs

The first analytical step in the cost of service process is called functionalization. Functionalization is the arrangement of expenses and asset (plant) data by major operating functions. Examples of functionalization would be source of supply (wells), distribution, pumping, etc. Within this study, the functionalization of the cost data was largely accomplished through the City’s system of accounts.

#### 3.3.2 Classification of Costs

The second analytical task performed in a water cost of service study is the classification of the costs. Classification determines why the expenses were incurred or what type of need is being

met. The City’s plant accounts and revenue requirement were reviewed and classified using the following cost classifiers.

- **Commodity Related Costs.** Commodity costs are those costs which tend to vary with the total quantity of water consumed by a customer. Commodity costs are those incurred under average load (demand) conditions and are generally specified for a period of time such as a month or a year. Electricity used in the pumping of water is an example of a commodity-related cost, since these costs tend to vary based upon the total flow of water.
- **Capacity Related Costs.** Capacity costs are those which vary with maximum demand, or the maximum rates of flow to customers. System capacity is required when there are large demands for water placed upon the system (e.g., summer lawn watering). For water utilities, capacity related costs are generally related to the sizing of facilities needed to meet a customer’s maximum water demand at any point in time. For example, portions of distribution storage reservoirs and mains (pipes) must be adequately sized for this particular type of requirement.
- **Customer Related Costs.** Customer costs are those costs which vary with the number of customers on the water system. They do not vary with system output or consumption levels. These costs are also sometimes referred to as “readiness to serve” or “availability” costs. Customer costs may also sometimes be further classified as either actual or weighted. Actual customer costs vary proportionally, from customer to customer, with the addition or deletion of a customer regardless of the size of customer. An example of an actual customer cost is postage for mailing bills. This cost does not vary from customer to customer, regardless of the size or consumption characteristics of the customer. In contrast, a weighted customer cost reflects a disproportionate cost, from customer to customer, with the addition or deletion of a customer. An example of a weighted customer costs are items such as meter maintenance expenses, where a large industrial customer requires a significantly more expensive meter than a residential customer.
- **Public Fire Protection Related Costs.** Public fire protection costs are those costs that are related to the public fire protection function. Usually, such costs are

### **Terminology of a Water Cost of Service Analysis**

**FUNCTIONALIZATION** – The arrangement of the cost data by functional category (e.g. source of supply, treatment, distribution, etc.).

**CLASSIFICATION** – The assignment of functionalized costs to cost components (e.g. commodity, capacity, customer and fire protection related).

**ALLOCATION** – Allocating the classified costs to each class of service based upon each class’s proportional contribution to that specific cost component.

**COMMODITY COSTS** – Costs that are classified as commodity related vary with the total flow of water (e.g. chemical use at a treatment plant).

**CAPACITY COSTS** – Costs that are classified as capacity related vary with peak day usage. Facilities are often designed and sized around meeting peak day demands.

**FIRE PROTECTION COSTS** - Costs that are related to fire protection services (e.g. hydrants).

**CUSTOMER COSTS** – Costs classified as customer related vary with the number of customers on the system, e.g. metering costs.

**DIRECT ASSIGNMENT** – Costs that can be clearly identified as belonging to a specific customer or group of customers.

**CUSTOMER GROUPS** – The grouping of customers into similar groups based upon usage characteristics and/or facility requirements.

those related to public fire hydrants and the over-sizing of mains and distribution storage reservoirs for fire protection purposes.

- **Revenue Related Cost.** Certain costs associated with the utility may vary with the amount of revenue received. An example is a utility tax that is based upon the amount of revenues received by the City.
- **Direct Assignment.** Certain costs associated with operating the system may be directly traced to a specific customer or class of service (e.g., bad debt expense). In this case, these costs are then “directly assigned” to that specific class of service. This assures that other classes of service will not be allocated any costs for those “significant” facilities from which they do not benefit.

### 3.3.3 Development of the Allocation Factors

Once the classification process is complete, and the customer groups have been defined, the various classified costs are allocated to each of the customer groups. The City’s classified costs were allocated to the various customer groups using the following allocation factors.

- **Commodity Allocation Factor.** As noted earlier, commodity related costs vary with the total flow of water. Since not all customers are metered, an estimate for those customers was developed. For the metered customers the metered sales from the most recent historical year were used, in this case FY 2007/2008. For those customers that were not metered an estimate was developed based on test meters available on the system, as well as a comparison back to the total production less metered sales and losses. In this way, the total consumption tied back to the production of water for the City.
- **Capacity Allocation Factor.** The capacity allocation factor was developed based upon the assumed contribution to peak day use of each class. Peak day use by customer group was estimated using assumed peaking factors for each customer group. In this particular case, the peaking factor was defined as the relationship between peak day contribution and average day use and determined for each customer group based upon a review of the average month to peak month usage for both metered sales and un-metered sales estimates. Given a peaking factor, the peak day contribution for each class of service was developed.
- **Customer Allocation Factor.** Customer costs vary with the number of customers on the system. Two basic types of customer allocation factors were identified - actual and weighted. The allocation factors for actual customers were based upon the projection of the number of customers developed within the revenue requirements. The weighted customer allocation factor is also broken down further into two factors which attempt to reflect the disproportionate costs associated with serving different types of customers. The first weighted customer factor is for customer service and accounting. This weighted customer allocation factor takes into account the fact that it may take more time to read a meter and process a bill for different types of customers. The second weighted customer allocation factor is for meters and services. This factor attempts to reflect the different costs associated with providing larger sized meters. For example, there is a significant cost difference associated with replacing a 3/4” meter compared to a 6” meter. This cost difference is reflected within the allocation factor.

- **Public Fire Protection Allocation Factor.** The development of the allocation factor for public fire protection expenses involved an analysis of each class of service and their fire flow requirements. The analysis took into account the gallon per minute flow requirements in the event of a fire, along with the duration of the required flow. The fire flow rates used within the allocation factor were based upon industry standards and similar experiences with other water cost of service studies, and these assumptions were reviewed by the City's staff. For this study, it has been assumed that minimum fire flow requirements for residential customers is 1,000 gallons per minute (gpm), 3,000 gpm for multi-family, commercial, institutional and City customers and 3,500 gpm for large uniform users. The minimum fire flow requirements are then multiplied by the number of customers in each class of service, and the assumed duration of the fire, to determine the class's prorated fire flow requirements.
- **Revenue Related Allocation Factor.** The revenue related allocation factor was developed from the projected rate revenues for 2009/2010 for each customer group. These same revenues were used within the revenue requirement analysis previously discussed.

Given the development of the allocation factors, the final step in the cost of service study is to allocate the classified costs to the various customer classes of service.

### 3.4 Functionalization and Classification of Plant in Service

The first step of the cost of service is the functionalization and classification of water plant in service. In performing the functionalization of plant in service, HDR utilized the City's historical plant records. Once the plant assets were functionalized, the analysis shifted to classification of the assets. The classification process included reviewing each group of assets and determining which cost classifiers the assets were related to. Provided below is a brief discussion of the classification process used.

Source of supply plant assets were classified between commodity and capacity-related costs. The percentage split between commodity and capacity was based upon the ratio of average day use to peak day use. Consumption that is related to average day use is considered to be commodity related, and consumption that is over and above average day use is considered capacity related. Treatment equipment and wells were classified as 49% commodity related and 51% capacity related. This classification reflects the City's high peak summer demand (capacity needs) in relation to their average day use (base or commodity needs).

Storage tanks were classified between capacity and fire protection related. The percentage split between capacity and fire protection was based upon fire flow storage requirements as a percentage of total available storage capacity. The storage tank facilities were classified as 90% capacity related and 10% fire protection related.

Water distribution lines (mains) are typically assumed to meet three types of needs on the system; customer related, capacity related, and fire protection related. First, a distribution system must be in place to meet a customer's minimum requirements for water. This portion of the distribution main plant investment is considered customer related, or a function of the number of customers on the system. Next, a portion of the distribution mains is considered a function of peak flow requirements on the system. Distribution mains must be sized to adequately meet the peak flows

demanded by customers. This portion of the distribution main plant investment is considered capacity related. Finally, distribution mains must also be sized for fire flow requirements. This final portion of over-sizing for distribution plant investment is classified as public fire protection related. The classification of distribution mains was based upon an economic analysis or “minimum system” analysis. This analysis determined that 33% of the water mains were a function of the customers on the system, 60% were in place to meet peak demand requirements, and finally, 7% of the sizing was to meet fire flow demands.

Table 3-1 shows a summary of the basic functionalization and classification of the City’s major water plant items. A more detailed exhibit of the City’s functionalization and classification of plant investment can be found in the Technical Appendix, Exhibit 10.

Table 3-1 Summary of the Classification of the Plant in Service							
	Commodity	Capacity	Actual Customer	Weighted Customer Accounting	Meters and Services	Fire Protection	Direct Assign.
Source of Supply / Treatment	49%	51%	--	--	--	--	--
Storage	--	90%	--	--	--	10%	--
Transmission and Distribution	--	60%	33%	--	--	7%	--

### 3.5 Functionalization and Classification of Operating Expenses

Operating expenses are generally functionalized and classified in a manner similar to the corresponding plant account. For example, maintenance of distribution mains is typically classified in the same manner (classification percentages) as the plant account for distribution mains. This approach to classification of operating expenses has been used for this analysis.

For the City’s study, the revenue requirements for 2009/2010 were functionalized, classified, and allocated. As noted earlier, the City utilized a “cash basis” revenue requirement, which was comprised of, operation and maintenance expenses, taxes, debt service, and capital additions funded from rates. A more detailed review of the classification of revenue requirements can be found in the Technical Appendix.

### 3.6 Major Assumptions of the Cost of Service Study

A number of key assumptions were used within the City’s cost of service study. Listed below is a brief discussion of the major assumptions used.

- The test period used for the cost of service analysis was 2009/2010. The revenue and expense data was previously developed within the revenue requirement study.
- A "cash basis" approach was utilized which conforms to generally accepted water cost of service approaches and methodologies.

- The classification of plant in service was developed based upon generally accepted cost allocation techniques. Furthermore, they were developed using City specific data, when available. When City specific data was not available, HDR estimated the classification based upon its experience with previous water cost of service studies of a similar nature.
- Customer water usage figures used within this study were provided, for each class of service, from historical usage information provided by the City. For the un-metered customers an estimate was developed based on available test meter data and a comparison to the system total production less metered sales and system losses.
- Capacity allocation factors were based upon each customer group’s average to peak day relationship, along with certain estimates of the relationships by class of service.

### 3.7 Summary of the Water Cost of Service Results

In summary form, this cost of service analysis began by functionalizing the City’s plant asset records and then the operating expenses. The functionalized plant and expense accounts were then classified into their various cost components. The individual classification totals were then allocated to the various customer groups based upon the appropriate allocation factors. The allocated expenses for each customer group are then aggregated to determine each customer group’s overall revenue responsibility. A summary of the detailed cost responsibility developed for each class of service is shown below in Table 3-2.

Table 3 – 2 Summary of the Cost of Service Analysis (\$000's)				
Class of Service	Present Rate Revenues	Allocated Costs	\$ Difference	% Difference
Residential	\$3,834	\$3,936	(\$102)	2.7%
Multi-Family	640	443	197	-30.7%
Commercial	879	588	290	-33.1%
Institutional	194	110	83	-43.0%
Large User	303	152	151	-49.9%
Landscape	434	356	77	-17.9%
City	0	36	(36)	0.0%
<b>Total</b>	<b>\$6,282</b>	<b>\$5,622</b>	<b>\$661</b>	<b>-10.5%</b>

The results of the cost of service analysis indicate that some of classes of service are at or near the overall needed rate adjustment. A simple guideline is that if a class of service is within +/- 5% of the overall adjustment, the class is considered to be paying its “fair share”. Further complicating the strict use of the cost of service results is the lack of metered consumption data for each class of service. Consumption or volumetric use is a significant driver in the allocation of costs within the cost of service analysis. In this case, estimated consumption and volumes were utilized to develop the cost of service analysis.

### 3.8 Cost of Service Recommendations

While the cost of service results show that there are differences between the customer classes of service it is recommended that no adjustments be made at this time for several reasons. First, as noted previously the development of the cost of service is based on the average and peak day needs of the customers and currently the City does not have metered consumption data for its residential, and some commercial customers. As a result estimates were used in the development of the cost of service analysis. Second, this is the first cost of service analysis conducted for the water utility and cost of service adjustments may not reflect actual consumption patterns in the future as the City begins to meter all of its customers. As a result, future cost of service results will most likely show a change in the relationships between the customer classes of service. Third, given the level of the proposed rate adjustments, and the change to metered rates, one more additional impact to the customers would likely increase the rate impacts to a majority of the City's customers.

Given this, at this time it is recommended that the City transition to metered water rates and implement the rate transition plan to fund the operating and capital needs of the water utility. As the City begins billing on a metered basis the cost of service analysis can be updated and rates adjusted at that time to reflect the cost of service when a majority of customers are metered.

## Section 4

# Development of the Water Rate Designs

### 4.1 Introduction

The final step of the comprehensive rate study process is the design of water rates to collect the desired levels of revenues, based upon the results of the revenue requirement and cost of service analysis. In reviewing the rate designs, consideration is given to the level of the rates and the structure of the rates.

In reviewing water rate designs, consideration is given to the level of the rates and the structure of the rates. *Level* refers to the amount of revenue to be collected from a specific rate design (i.e., the rate design is intended to collect \$2.0 million over a 12 month period). In contrast, *structure* refers to the way in which the \$2.0 million is collected from the customers. This subsection of the report will review the proposed water rate designs for the City.

***“In reviewing water rate designs, consideration is given to the level of the rates and the structure of the***

### 4.2 Overview of Water Rate Structures

There are various “generally accepted” rate structures that can be used to establish or develop water rates. The initial starting point in considering a rate structure is the relationship between fixed costs and variable costs. Fixed costs are generally collected as a fixed charge on a monthly basis (e.g. \$5.00 per month/meter). This charge may be called by various names (e.g. customer charge, meter charge, readiness to serve charge, etc.), but in all cases, it is intended to collect those fixed costs that the utility incurs, regardless of the customer’s level of consumption. The most basic form of a fixed customer charge is a flat monthly fixed cost. While the charge is a fixed cost, it may also vary and increase by meter size. The rate at which the meter charge increases is usually a function of the meter capacity. Provided below in Table 4-1 is the “generally accepted” approach used to establish fixed meter charges based upon the safe operating capacity of the meter. In this example, it assumes a \$5.00/month charge for a 5/8” meter.

**Table 4 – 1**  
**Example of the Development of Fixed Meter Charges Based Upon**  
**Meter Capacity**

<u>Meter Size</u>	<u>Safe Maximum Oper. Capacity GPM [1]</u>	<u>Capacity Meter Weightings</u>	<u>Meter Charges at Capacity Weightings</u>
5/8"	20	1.00	\$5.00/month
3/4"	30	1.50	7.50
1"	50	2.50	12.50
1-1/2"	100	5.00	25.00
2"	160	8.00	40.00
3"	300	15.00	75.00
4"	500	25.00	125.00
6"	1,000	50.00	250.00
8"	1,600	80.00	400.00

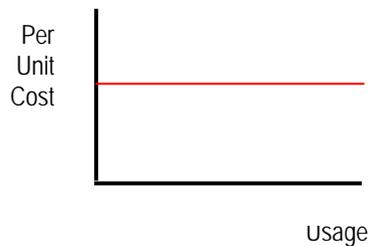
[1] AWWA C-700-77 Cold Water Meters - Displacement Type

As Table 2-8 indicates, the fixed meter charge increases in relationship to the safe operating capacity of the various meter sizes. Meter capacity is an important concept in that a customer that has a 2" meter is regarded, from a capacity perspective, as the equivalent of eight (8) 5/8" metered customers. Another way of saying this is the commercial customer with a 2" meter is, from a capacity perspective, the equivalent of eight (8) single-family homes with 5/8" meters. Knowing that a large portion of the City's costs are related to meeting capacity requirements, one can see the importance of taking into account capacity in establishing rates for customers.

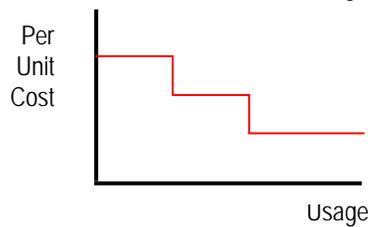
While it was noted that there are different approaches that can be used to collect fixed charges, the same can be said for variable or volumetric charges. Variable charges are generally based upon metered consumption and charged on a \$/unit cost. The unit of measurement may vary (e.g. gallons, thousands of gallons, cubic feet, hundreds of cubic feet, etc.), but it is not a critical element in the development of the rates. This is because the charge per unit is simply adjusted to reflect the units of measurement being used. In other words, if you are charging \$2.00 per 1,000 gallons, and wanted to charge on a per gallon basis, the rate would be 0.002¢/gallon. It is the structure of the variable charges where numerous options exist.

There are three basic rate structures for variable charges; a uniform charge, a declining block charge and an inverted block charge. Table 4-2 provides an overview of each of these variable charge rate structures.

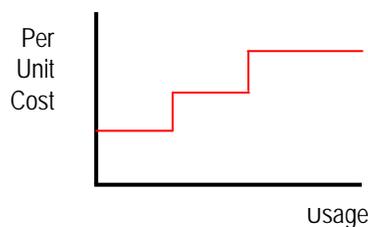
**Table 4 – 2**  
**Overview of the Various Variable Charge Rate Structures**



**UNIFORM RATE STRUCTURE**  
*The cost per unit of consumption under a uniform rate structure does not increase or decrease with additional units of consumption*



**DECLINING BLOCK RATE STRUCTURE**  
*The cost per unit of consumption under a declining block rate structure decreases with additional units of consumption*



**INVERTED BLOCK RATE STRUCTURE**  
*The cost per unit of consumption under an inverted block rate structure increases with additional units of consumption*

As can be seen from Table 4-2, the basic philosophy of each of these variable charge rate structures varies significantly. Under a uniform rate structure, the cost per unit does not change with consumption. From the perspective of customer understanding and rate administration/billing, this is a simple and straightforward approach. In contrast, the declining block rate structure is a bit more complex. The number of blocks (e.g., 3 stepped blocks) and size of the blocks (e.g., 0 – 10 ccf) may vary. However, the number of blocks should be reasonable (i.e., 2 – 4 blocks) for reasons of simplicity and administration. Declining block rates may imply that there are certain economies of scale with additional consumption, and not necessarily a “volume discount.” Depending upon the utility, this may or may not be a true statement. Finally, an inverted block rate structure attempts to send a price signal to consumers that their consumption costs more, as more water is consumed. This may or may not be the proper price signal regarding the utility’s water resource costs. As with the declining block rate structure, the number and size of each block may vary, but should be reasonable for purposes of customer understanding and rate administration.

The rate structure concepts noted above may be combined and used to form various rate design options that meet the City’s needs. However, at the same time, the rates must meet the City’s overall goals and objectives in designing rates.

### 4.3 Rate Design Criteria and Considerations

Prudent rate administration dictates that several criteria must be considered when setting utility rates. Some of these rate design criteria are listed below:

- Rates which are easy to understand, from the customer's perspective
- Rates which are easy for the utility to administer
- Consideration of the customer's ability to pay
- Continuity, over time, of the rate making philosophy
- Policy considerations (encourage conservation, economic development, etc.)
- Provide revenue stability from month to month and year to year
- Promote efficient allocation of the resource
- Equitable and non-discriminating (cost-based)

Many contemporary rate economists and regulatory agencies feel that the last consideration, cost-based rates, should be of paramount importance and provide the primary guidance to utilities on rate structure and policy.

It is important that the City provide its customers with a proper price signal as to what their consumption or usage is costing. This goal may be approached through rate *level* and *structure*. When developing the proposed rate designs, all of the above listed criteria were taken into consideration. However, it should be noted that it is difficult, if not impossible, to design a rate that meets all of the goals and objectives listed above. For example, it may be difficult to design a rate that takes into consideration the customer's ability to pay, and one which is cost-based. In designing rates, there are always trade-offs between the various goals and objectives.

### 4.4 Review of the Proposed Rate Adjustments

As indicated in the revenue requirement and the cost of service analyses, the priority for the City is to implement metered rates, and to adjust rates to an adequate level to fund the future operating and capital needs, specifically the SWP. As a result of the analyses performed for the City's water utility no cost of service adjustments have been proposed at this time. Once the City has adequate metered consumption for a majority of its customers future cost of service adjustments can be implemented. Given that, the proposed rates have been developed for the next four year period taking into account the rate transition plan of 20% adjustments in each year.

### 4.5 Review of City's Current Water Rate Design

The City has two rate schedules, one for residential customers and one for commercial customers (or all non-residential customers). The residential customers are charged a flat monthly rate based on lot size. There are two types of commercial customers, flat monthly rate and metered customers. The flat rate customers are charged a fixed flat rate each month. The metered customers are charged a fixed meter rate which varies by meter size and a uniform consumption

charge (the rate remains the same for all consumption). A summary of the present (2008/2009) water rate schedules is presented below in Table 4-3.

Table 4 – 3 Summary of the City’s Present Water Rates	
Rate Structure Description	Present Rate
<b>Monthly Residential Flat Rates -</b>	
<5K sq ft lots, apts, condos, mobile homes	\$19.89
<10K sq ft lots, attached >5K sq ft	24.52
>10K sq ft lots, attached >10K sq ft	28.95
 <b>Monthly Commercial Rates -</b>	
Minimum Flat Rate	\$15.48
Metered Rate: ¾" Meter	\$1.90
1" Meter	3.79
1 ½" Meter	7.55
2" Meter	11.34
3" Meter	22.66
4" Meter	37.78
6" Meter	75.55
Usage Charge (per ccf)	1.51

*Note: 1 Cubic foot of water = 7.48 gallons*

## 4.6 Proposed Residential Water Rates

Proposed water rates were developed for the next four years, starting on January 1, 2010 through FY 2012/2013. As noted above, the present rates have been increased by the proposed overall rate adjustment of 20% per year. The residential metered customers would be billed a monthly meter charge and a consumption charge for all water consumed. The meter charges were adjusted based on typical equivalent meter ratios and revised to be more in line with contemporary water rate designs. The consumption charges begin with a uniform block on January 1, 2010, a two tiered block rate in FY 2010/2011, and a three tiered block rate in FY 2011/2012 and FY 2012/2013.

Flat rate customers would continue on a flat rate until a meter is installed and placed in service. The flat rate was increased by 20% each year. A summary of the proposed residential water rates are shown in Table 4-4.

**Table 4 – 4**  
**Summary of Proposed Residential Water Rates**

	Present Rates	Proposed Jan. 1, 2010 Rates	Proposed FY 10/11 Rates	Proposed FY 11/12 Rates	Proposed FY 12/13 Rates
<b>Meter Charge Per Month –</b>					
< 2" Meter	N/A	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	N/A	26.30	29.60	37.60	45.10
4" Meter	N/A	43.80	49.30	62.60	75.10
6" Meter	N/A	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>					
<5K sq ft lots, apts, condos, mobile homes	\$19.89	\$23.85	\$28.60	\$34.30	\$41.15
<10K sq ft lots, attached >5K sq ft	24.52	29.40	35.30	42.35	50.80
>10K sq ft lots, attached >10K sq ft	28.95	34.75	41.70	50.05	60.05
<b>Consumption Charge Per CCF –</b>					
Block 1 – 0 to 12 ccf per month	N/A	\$0.97	\$1.19	\$1.25	\$1.50
Block 2 – 13 to 20 ccf per month	N/A	--	1.37	1.50	1.95
Block 3 – Over 20 ccf per month	N/A	--	--	1.90	2.55

## 4.7 Proposed Commercial, Multi-Family, Institutional, and City Water Rates

A single rate structure was developed for the commercial, multi-family, institutional, and city customers. The metered rates were set equal to the residential metered rates. The flat rate was increased by 20% each year. The consumption charge is a uniform block. A summary of the proposed commercial, multi-family, institutional, and City water rates are shown in Table 4-5.

**Table 4 – 5**  
**Summary of Proposed Commercial, Multi-Family, Institutional, and City Water Rates**

Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>	\$20.05	\$24.05	\$28.85	\$34.60	\$41.50
<b>Consumption Charge Per CCF –</b>	\$1.51	\$1.72	\$2.00	\$2.15	\$2.35

## 4.8 Proposed Large Uniform User Water Rates

The metered rates for large uniform users were set equal to the residential metered rates. The consumption charge is a uniform block. A summary of the proposed large uniform user water rates are shown in Table 4-6.

Table 4 – 6 Summary of Proposed Large Uniform User Water Rates					
Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Consumption Charge Per CCF –</b>					
	\$1.51	\$1.70	\$1.91	\$2.10	\$2.30

## 4.9 Proposed Landscape Water Rates

The metered rates for landscape customers were set equal to the residential metered rates. The consumption charge is a uniform block and was set at a level similar to the equivalent rate of outdoor watering for a residential customer. A summary of the proposed landscape water rates are shown in Table 4-7.

Table 4 – 7 Summary of Proposed Landscape Water Rates					
Rate Structure	Present Rate	Proposed 09/10 Rate	Proposed 10/11 Rate	Proposed 11/12 Rate	Proposed 12/13 Rate
<b>Meter Charge Per Month –</b>					
¾" to 2" Meter	\$11.34	\$14.00	\$15.75	\$20.00	\$24.00
3" Meter	22.66	26.30	29.60	37.60	45.10
4" Meter	37.78	43.80	49.30	62.60	75.10
6" Meter	75.55	87.50	98.45	125.00	150.00
<b>Flat Rate Per Month –</b>					
	\$15.48	\$18.60	\$22.30	\$26.75	\$32.10
<b>Consumption Charge Per CCF –</b>					
	\$1.51	\$1.75	\$2.05	\$2.35	\$2.80

## 4.10 Summary of the Water Comprehensive Rate Study

This section of the report has discussed the development of the water rate designs and completes the comprehensive water rate study. The results of the comprehensive rate study indicated that water rates are deficient for the projected time period reviewed. The implementation of rate

adjustments, as shown in the rate transition plan, should generate the additional revenue needed to meet the water utility's future operating and capital needs, along with the City's financial and rate setting policies.

The water rates, as proposed herein, are cost-based and were developed using "generally accepted" rate making methods and principles. These rates will enable the City's water utility to operate in a financially sound and prudent manner.

TECHNICAL APPENDIX A  
COMPREHENSIVE RATE STUDY

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 1  
SUMMARY OF THE WATER REVENUE REQUIREMENTS**

	Budget	Projected			
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13
<b>Revenues</b>					
Rate Revenues	\$6,257,438	\$6,282,468	\$6,307,598	\$6,368,151	\$6,464,947
Miscellaneous Revenues	261,500	290,674	451,533	533,509	527,389
Total Revenues	\$6,518,938	\$6,573,142	\$6,759,131	\$6,901,660	\$6,992,336
<b>Expenses</b>					
Operations and Maintenance Expense	\$5,057,259	\$5,270,628	\$6,181,503	\$6,341,760	\$7,078,609
Capital Funded Through Rates	0	0	400,000	650,000	850,000
Net Debt Service	463,759	789,502	1,904,202	2,260,729	2,601,867
Transfers Out	0	0	0	0	0
Total Expenses	\$5,521,018	\$6,060,130	\$8,485,705	\$9,252,489	\$10,530,476
Less: Existing Connection Fees	\$0	\$0	\$0	\$0	\$0
<b>Total Revenue Requirement without SWP</b>	<b>\$5,521,018</b>	<b>\$6,060,130</b>	<b>\$8,485,705</b>	<b>\$9,252,489</b>	<b>\$10,530,476</b>
<b>Balance/(Deficiency) of Funds without SWP</b>	<b>\$997,920</b>	<b>\$513,012</b>	<b>(\$1,726,575)</b>	<b>(\$2,350,830)</b>	<b>(\$3,538,140)</b>
<b>Total Incr. as a % of Pres. Rates without SWP</b>	<b>-15.9%</b>	<b>-8.2%</b>	<b>27.4%</b>	<b>36.9%</b>	<b>54.7%</b>
<b>Surface Water Project Expenses</b>	<b>\$25,450</b>	<b>\$0</b>	<b>\$426,083</b>	<b>\$813,343</b>	<b>\$2,626,456</b>
<b>Less: SWP Connection Fees</b>	<b>\$0</b>	<b>\$147,641</b>	<b>\$170,800</b>	<b>\$411,600</b>	<b>\$652,400</b>
<b>Total Revenue Requirement with SWP</b>	<b>\$5,546,468</b>	<b>\$5,912,489</b>	<b>\$8,740,988</b>	<b>\$9,654,232</b>	<b>\$12,504,532</b>
<b>Balance/(Deficiency) of Funds with SWP</b>	<b>\$972,470</b>	<b>\$660,653</b>	<b>(\$1,981,857)</b>	<b>(\$2,752,573)</b>	<b>(\$5,512,196)</b>
<b>Total Incr. as a % of Pres. Rates with SWP</b>	<b>-15.5%</b>	<b>-10.5%</b>	<b>31.4%</b>	<b>43.2%</b>	<b>85.3%</b>
<b>Proposed Rate Adjustment</b>	<b>0.0%</b>	<b>20.0%</b>	<b>20.0%</b>	<b>20.0%</b>	<b>20.0%</b>
<b>Additional Revenue from Adjustment</b>	<b>\$0</b>	<b>\$1,256,494</b>	<b>\$2,775,343</b>	<b>\$4,636,014</b>	<b>\$6,940,767</b>
<b>Total Balance/(Deficiency) of Funds</b>	<b>\$972,470</b>	<b>\$1,917,147</b>	<b>\$793,486</b>	<b>\$1,883,441</b>	<b>\$1,428,571</b>
<b>Additional Rate Adjustment Required</b>	<b>-15.5%</b>	<b>-25.4%</b>	<b>-8.7%</b>	<b>-17.1%</b>	<b>-10.7%</b>
<b>Average Residential Rate - \$/ Month</b>					
Current Average Residential Bill	\$24.52				
After Proposed Rate Adjustment	\$24.52	\$29.42	\$35.31	\$42.37	\$50.84
<b>Debt Service Coverage Ratio (Without Development Fees)</b>					
Before Rate Adjustment	3.15	1.65	0.18	0.13	-0.14
After Rate Adjustment	1.05	0.81	1.31	1.31	1.16
After Proposed Rate Adjustment	3.15	3.24	1.77	2.11	1.50
<b>Debt Service Coverage Ratio (With Development Fees)</b>					
Before Rate Adjustment	3.55	2.10	0.39	0.50	0.19
After Rate Adjustment	1.45	1.26	1.52	1.68	1.49
After Proposed Rate Adjustment	3.91	3.69	2.11	2.59	1.89

**CITY OF WOODLAND  
WATER RATE STUDY  
EXHIBIT 2  
ESCALATION FACTORS**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Revenues</b>						
Rate Revenues	Calculated	0.4%	0.4%	1.0%	1.5%	0.4% is the current growth rate
Miscellaneous Revenues	Budget	2.0%	2.0%	2.0%	2.0%	
<b>Expenses</b>						
Personnel (51XX)	Budget	7.0%	7.0%	7.0%	7.0%	
Supplies/Services (52XX)	Budget	0.0%	0.0%	0.0%	3.0%	
Education/Meetings (53XX)	Budget	0.0%	0.0%	0.0%	3.0%	
Debt Service (54XX)	Budget					
Capital Expenses (55XX)	Budget					
Other (56XX)	Budget	7.0%	7.0%	7.0%	7.0%	
Transfers (59XX)	Budget	0.0%	0.0%	0.0%	0.0%	
Utilities	Budget	5.0%	5.0%	5.0%	5.0%	
Labor	Budget	5.6%	5.6%	5.6%	5.6%	
Benefits - Medical	Budget	10.0%	10.0%	10.0%	10.0%	
Benefits - Other	Budget	5.0%	5.0%	5.0%	5.0%	
Materials & Supplies	Budget	0.0%	0.0%	0.0%	3.0%	
Equipment	Budget	3.0%	3.0%	3.0%	3.0%	
Miscellaneous	Budget	3.0%	3.0%	3.0%	3.0%	
Depreciation	Budget	4.0%	4.0%	4.0%	4.0%	
Regulatory	Budget	6.0%	7.0%	8.0%	8.0%	For costs associated with new drinking water req.
<b>Transfers Out</b>	Budget	3.0%	3.0%	3.0%	3.0%	
<b>Interest</b>	3.0%	3.0%	4.5%	5.3%	5.3%	
<b>New Debt Service</b>						
SRF Loans						
Term in Years	20	20	20	20	20	
Rate	2.5%	2.5%	2.5%	2.5%	2.5%	
Revenue Bond						
Term in Years	30	30	30	30	30	
Rate	6.5%	6.5%	6.5%	6.5%	6.5%	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>REVENUES</b>						
<b>Rate Revenues</b>						
Residential	\$3,818,454	\$3,833,728	\$3,849,063	\$3,886,014	\$3,945,081	Esc. As Rate Revenues
Multi-Family	637,158	639,706	642,265	648,431	658,287	Esc. As Rate Revenues
Commercial	875,308	878,809	882,325	890,795	904,335	Esc. As Rate Revenues
Institutional	192,761	193,532	194,306	196,172	199,153	Esc. As Rate Revenues
Large Uniform Users	301,928	303,136	304,348	307,270	311,941	Esc. As Rate Revenues
Landscape	431,829	433,556	435,291	439,469	446,149	Esc. As Rate Revenues
City	0	0	0	0	0	Esc. As Rate Revenues
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Total Rate Revenues	\$6,257,438	\$6,282,468	\$6,307,598	\$6,368,151	\$6,464,947	
<b>Miscellaneous Revenues</b>						
Fees, Licenses, Permits	\$9,500	\$9,500	\$9,500	\$9,500	\$9,500	Flat - Based on Budget
Shut-off Notices	66,000	66,000	66,000	66,000	66,000	Flat - Based on Budget
Shut-off Fees	66,000	66,000	66,000	66,000	66,000	Flat - Based on Budget
Interest Income	120,000	149,174	310,033	392,009	385,889	Calculated based on Reserves
	-----	-----	-----	-----	-----	
Total Miscellaneous Revenues	\$261,500	\$290,674	\$451,533	\$533,509	\$527,389	
<b>TOTAL REVENUES</b>	<b>\$6,518,938</b>	<b>\$6,573,142</b>	<b>\$6,759,131</b>	<b>\$6,901,660</b>	<b>\$6,992,336</b>	

**OPERATIONS AND MAINTENANCE EXPENSE**

**Water Distribution System (27)**

Personnel

Salaries-Perm Full Time	\$51,164	\$54,746	\$58,578	\$62,678	\$67,066	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	280	299	320	343	367	Esc. As Personnel (51XX)
Retirement	12,261	13,119	14,038	15,020	16,072	Esc. As Personnel (51XX)
Health Pay-In Lieu	339	363	388	415	444	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	6,504	6,959	7,446	7,967	8,525	Esc. As Personnel (51XX)
Health/Life/Vision Insurance	8,668	9,275	9,924	10,618	11,362	Esc. As Personnel (51XX)
Unemployment Insurance	193	206	221	236	253	Esc. As Personnel (51XX)
Medicare Insurance	747	799	855	915	979	Esc. As Personnel (51XX)
125 Plan	3	3	3	4	4	Esc. As Personnel (51XX)
	-----	-----	-----	-----	-----	
Total Personnel	\$80,158	\$85,769	\$91,773	\$98,197	\$105,071	

**Total Water Distribution System Expenses**

**\$80,158      \$85,769      \$91,773      \$98,197      \$105,071**

**Bill & Collect - Water**

Personnel

Salaries-Perm Full Time	\$82,634	\$88,418	\$94,607	\$101,230	\$108,316	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	826	884	946	1,012	1,083	Esc. As Personnel (51XX)
Retirement	16,190	17,324	18,536	19,834	21,222	Esc. As Personnel (51XX)
Health Pay-In Lieu	3,741	4,003	4,283	4,583	4,904	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	8,835	9,453	10,115	10,823	11,581	Esc. As Personnel (51XX)
Health/Life/Vision Insurance	5,796	6,202	6,636	7,100	7,597	Esc. As Personnel (51XX)
Unemployment Insurance	261	280	299	320	343	Esc. As Personnel (51XX)
Medicare Insurance	1,013	1,084	1,160	1,241	1,328	Esc. As Personnel (51XX)
Personnel Offset	16,300	17,441	18,661	19,968	21,365	Esc. As Personnel (51XX)
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Total Personnel	\$135,596	\$145,087	\$155,244	\$166,111	\$177,738	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<u>Supplies/Services</u>						
Office Supplies	\$1,500	\$1,500	\$1,500	\$1,500	\$1,545	Esc. As Supplies/Services (52XX)
Postage	400	400	400	400	412	Esc. As Supplies/Services (52XX)
Printing	600	600	600	600	618	Esc. As Supplies/Services (52XX)
Copy Machine Costs	400	400	400	400	412	Esc. As Supplies/Services (52XX)
Spec Dept Expense	450	450	450	450	464	Esc. As Supplies/Services (52XX)
Advertising	200	200	200	200	206	Esc. As Supplies/Services (52XX)
Telephone	2,500	2,500	2,500	2,500	2,575	Esc. As Supplies/Services (52XX)
Maint Office Equip	400	400	400	400	412	Esc. As Supplies/Services (52XX)
Data Proc Equip / Reserve	11,806	11,806	11,806	11,806	12,160	Esc. As Supplies/Services (52XX)
Prof & Spec Services	2,500	2,500	2,500	2,500	2,575	Esc. As Supplies/Services (52XX)
Other Contract Services	32,270	32,270	32,270	32,270	33,238	Esc. As Supplies/Services (52XX)
Conf & Mtgs	1,000	1,000	1,000	1,000	1,030	Esc. As Education/Meetings (53XX)
Education Training	500	500	500	500	515	Esc. As Education/Meetings (53XX)
Education Incent Reimb	1,200	1,200	1,200	1,200	1,236	Esc. As Education/Meetings (53XX)
Indirect Expense	2,280	2,440	2,610	2,793	2,989	Esc. As Other (56XX)
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Total Supplies/Services	\$58,006	\$58,165	\$58,336	\$58,519	\$60,386	
<b>Total Bill &amp; Collect Expenses</b>	<b>\$193,601</b>	<b>\$203,253</b>	<b>\$213,580</b>	<b>\$224,629</b>	<b>\$238,124</b>	
<u>Water Conservation</u>						
<u>Personnel</u>						
Salaries-Perm Full Time	\$88,169	\$94,341	\$100,945	\$108,011	\$115,572	Esc. As Personnel (51XX)
Hourly Wages - Temporary	16,330	17,473	18,696	20,004	21,405	Esc. As Personnel (51XX)
Overtime - Perm Full Time	1,000	1,070	1,145	1,225	1,311	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	1,034	1,106	1,184	1,267	1,355	Esc. As Personnel (51XX)
Retirement	21,148	22,629	24,213	25,907	27,721	Esc. As Personnel (51XX)
Health Pay-In Lieu	3,051	3,265	3,493	3,738	3,999	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	10,602	11,344	12,138	12,988	13,897	Esc. As Personnel (51XX)
Health/Life/Vision Ins	12,512	13,388	14,325	15,327	16,400	Esc. As Personnel (51XX)
Unemployment Insurance	343	367	393	420	450	Esc. As Personnel (51XX)
Medicare Insurance	1,323	1,415	1,514	1,620	1,734	Esc. As Personnel (51XX)
	-----	-----	-----	-----	-----	
Total Personnel	\$155,511	\$166,397	\$178,045	\$190,508	\$203,844	
<u>Supplies/Services</u>						
Memberships & Dues	\$540	\$540	\$540	\$540	\$556	Esc. As Supplies/Services (52XX)
Office Supplies	515	515	515	515	530	Esc. As Supplies/Services (52XX)
Postage	50	50	50	50	52	Esc. As Supplies/Services (52XX)
Pubs & Periodicals	100	100	100	100	103	Esc. As Supplies/Services (52XX)
Printing	1,545	1,545	1,545	1,545	1,591	Esc. As Supplies/Services (52XX)
Spec Dept Expense	19,250	19,250	19,250	19,250	19,828	Esc. As Supplies/Services (52XX)
Advertising	1,030	1,030	1,030	1,030	1,061	Esc. As Supplies/Services (52XX)
Prof & Spec Services	5,000	5,000	5,000	5,000	5,150	Esc. As Supplies/Services (52XX)
Other Contract Services	8,400	8,400	8,400	8,400	8,652	Esc. As Supplies/Services (52XX)
Conf & Mtgs	2,600	2,600	2,600	2,600	2,678	Esc. As Education/Meetings (53XX)
Education Training	2,000	2,000	2,000	2,000	2,060	Esc. As Education/Meetings (53XX)
Education Incent Reimb	1,250	1,250	1,250	1,250	1,288	Esc. As Education/Meetings (53XX)
Indirect Expense	14,158	15,149	16,209	17,344	18,558	Esc. As Other (56XX)
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Total Supplie/Services	\$56,438	\$57,429	\$58,489	\$59,624	\$62,107	
<b>Total Water Conservation Expenses</b>	<b>\$211,949</b>	<b>\$223,826</b>	<b>\$236,534</b>	<b>\$250,132</b>	<b>\$265,950</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Water Wells O&amp;M</b>						
<u>Personnel</u>						
Salaries-Perm Full Time	\$254,179	\$271,972	\$291,010	\$311,380	\$333,177	Esc. As Personnel (51XX)
Hourly Wages - Temporary	14,794	15,829	16,937	18,123	19,391	Esc. As Personnel (51XX)
Overtime - Perm Full Time	8,500	9,095	9,732	10,413	11,142	Esc. As Personnel (51XX)
Acting Pay	500	535	572	613	655	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	5,767	6,171	6,603	7,065	7,559	Esc. As Personnel (51XX)
Retirement	60,801	65,057	69,611	74,484	79,698	Esc. As Personnel (51XX)
Health Pay-In Lieu	7,666	8,203	8,777	9,391	10,049	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	33,997	36,377	38,923	41,648	44,563	Esc. As Personnel (51XX)
HealthLife/Vision Ins	41,084	43,960	47,038	50,330	53,853	Esc. As Personnel (51XX)
Unemployment Insurance	966	1,033	1,106	1,183	1,266	Esc. As Personnel (51XX)
Medicare Insurance	3,176	3,398	3,636	3,890	4,163	Esc. As Personnel (51XX)
Personnel Offset	21,923	23,458	25,100	26,857	28,737	Esc. As Personnel (51XX)
<b>Total Personnel</b>	<b>\$453,353</b>	<b>\$485,088</b>	<b>\$519,044</b>	<b>\$555,377</b>	<b>\$594,253</b>	
<u>Supplies/Services</u>						
Memberships & Dues	\$750	\$750	\$750	\$750	\$773	Esc. As Supplies/Services (52XX)
Office Supplies	960	960	960	960	989	Esc. As Supplies/Services (52XX)
Postage	1,186	1,186	1,186	1,186	1,222	Esc. As Supplies/Services (52XX)
Pubs & Periodicals	175	175	175	175	180	Esc. As Supplies/Services (52XX)
Printing	2,250	2,250	2,250	2,250	2,318	Esc. As Supplies/Services (52XX)
Copy Machine Costs	345	345	345	345	355	Esc. As Supplies/Services (52XX)
Spec Dept Supplies	65,198	65,198	65,198	65,198	67,154	Esc. As Supplies/Services (52XX)
Gas & Oil	3,000	3,000	3,000	3,000	3,090	Esc. As Supplies/Services (52XX)
Personnel Supp & Equip	760	760	760	760	783	Esc. As Supplies/Services (52XX)
Laundry	875	875	875	875	901	Esc. As Supplies/Services (52XX)
Small Tools	700	700	700	700	721	Esc. As Supplies/Services (52XX)
Spec Dept Expense	75,450	75,450	75,450	75,450	77,714	Esc. As Supplies/Services (52XX)
Advertising	350	350	350	350	361	Esc. As Supplies/Services (52XX)
Utilities	856,800	856,800	856,800	856,800	882,504	Esc. As Supplies/Services (52XX)
Telephone	2,500	2,500	2,500	2,500	2,575	Esc. As Supplies/Services (52XX)
Maint Office Equipment	400	400	400	400	412	Esc. As Supplies/Services (52XX)
Maint Comm Equip	1,200	1,200	1,200	1,200	1,236	Esc. As Supplies/Services (52XX)
Maint Other Equip	500	500	500	500	515	Esc. As Supplies/Services (52XX)
Data Proc Equip / Reserve	14,904	14,904	14,904	14,904	15,351	Esc. As Supplies/Services (52XX)
Prof & Spec Services	15,750	15,750	15,750	15,750	16,223	Esc. As Supplies/Services (52XX)
Other Contract Services	94,246	94,246	94,246	94,246	97,073	Esc. As Supplies/Services (52XX)
Equip Rental - Fixed	8,673	8,673	8,673	8,673	8,933	Esc. As Supplies/Services (52XX)
Equip Rental - Variable	13,898	13,898	13,898	13,898	14,315	Esc. As Supplies/Services (52XX)
Education Training	5,125	5,125	5,125	5,125	5,279	Esc. As Education/Meetings (53XX)
Education Incent Reimb	625	625	625	625	644	Esc. As Education/Meetings (53XX)
Indirect Expense	161,070	172,345	184,409	197,318	211,130	Esc. As Other (56XX)
<b>Total Supplie/Services</b>	<b>\$1,327,690</b>	<b>\$1,338,965</b>	<b>\$1,351,029</b>	<b>\$1,363,938</b>	<b>\$1,412,749</b>	
<b>Total Water Wells O&amp;M</b>	<b>\$1,781,043</b>	<b>\$1,824,053</b>	<b>\$1,870,073</b>	<b>\$1,919,315</b>	<b>\$2,007,002</b>	
<b>Water Distribution System (86)</b>						
<u>Personnel</u>						
Salaries-Perm Full Time	\$622,766	\$666,359	\$713,004	\$762,915	\$816,319	Esc. As Personnel (51XX)
Hourly Wages - Temporary	36,317	38,859	41,579	44,490	47,604	Esc. As Personnel (51XX)
Overtime - Perm Full Time	10,000	10,700	11,449	12,250	13,108	Esc. As Personnel (51XX)
Acting Pay	2,067	2,212	2,366	2,532	2,709	Esc. As Personnel (51XX)
Standby Pay	5,000	5,350	5,725	6,125	6,554	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	32,090	34,337	36,740	39,312	42,064	Esc. As Personnel (51XX)
Retirement	157,429	168,449	180,241	192,858	206,358	Esc. As Personnel (51XX)
Health Pay-In Lieu	31,879	34,111	36,498	39,053	41,787	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	94,003	100,584	107,624	115,158	123,219	Esc. As Personnel (51XX)
HealthLife/Vision Ins	93,894	100,467	107,499	115,024	123,076	Esc. As Personnel (51XX)
Unemployment Insurance	2,425	2,595	2,776	2,971	3,179	Esc. As Personnel (51XX)
Medicare Insurance	8,356	8,941	9,567	10,237	10,953	Esc. As Personnel (51XX)
Personnel Offset	11,882	12,714	13,604	14,556	15,575	Esc. As Personnel (51XX)
<b>Total Personnel</b>	<b>\$1,108,108</b>	<b>\$1,185,676</b>	<b>\$1,268,673</b>	<b>\$1,357,481</b>	<b>\$1,452,504</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<u>Supplies/Services</u>						
Memberships & Dues	\$5,367	\$5,367	\$5,367	\$5,367	\$5,528	Esc. As Supplies/Services (52XX)
Office Supplies	1,500	1,500	1,500	1,500	1,545	Esc. As Supplies/Services (52XX)
Postage	400	400	400	400	412	Esc. As Supplies/Services (52XX)
Pubs & Periodicals	175	175	175	175	180	Esc. As Supplies/Services (52XX)
Printing	1,000	1,000	1,000	1,000	1,030	Esc. As Supplies/Services (52XX)
Copy Machine Costs	518	518	518	518	534	Esc. As Supplies/Services (52XX)
Spec Dept Supplies	226,283	226,283	226,283	226,283	233,071	Esc. As Supplies/Services (52XX)
Gas & Oil	200	200	200	200	206	Esc. As Supplies/Services (52XX)
Perssonel Supp & Equip	3,120	3,120	3,120	3,120	3,214	Esc. As Supplies/Services (52XX)
Laundry	2,625	2,625	2,625	2,625	2,704	Esc. As Supplies/Services (52XX)
Small Tools	2,000	2,000	2,000	2,000	2,060	Esc. As Supplies/Services (52XX)
Spec Dept Expense	22,600	22,600	22,600	22,600	23,278	Esc. As Supplies/Services (52XX)
Advertising	250	250	250	250	258	Esc. As Supplies/Services (52XX)
Telephone	9,318	9,318	9,318	9,318	9,598	Esc. As Supplies/Services (52XX)
Maint Office Equipment	300	300	300	300	309	Esc. As Supplies/Services (52XX)
Maint Comm Equip	4,200	4,200	4,200	4,200	4,326	Esc. As Supplies/Services (52XX)
Maint Other Equip	1,000	1,000	1,000	1,000	1,030	Esc. As Supplies/Services (52XX)
Data Proc Equip / Reserve	22,356	22,356	22,356	22,356	23,027	Esc. As Supplies/Services (52XX)
Prof & Spec Services	52,950	52,950	52,950	52,950	54,539	Esc. As Supplies/Services (52XX)
Other Contract Services	74,000	74,000	74,000	74,000	76,220	Esc. As Supplies/Services (52XX)
Equip Rental - Fixed	29,590	29,590	29,590	29,590	30,478	Esc. As Supplies/Services (52XX)
Equip Rental - Variable	96,203	96,203	96,203	96,203	99,089	Esc. As Supplies/Services (52XX)
Vehicle Lease Pmts	47,674	47,674	47,674	47,674	49,104	Esc. As Supplies/Services (52XX)
Education Training	19,600	19,600	19,600	19,600	20,188	Esc. As Education/Meetings (53XX)
Education Incent Reimb	1,875	1,875	1,875	1,875	1,931	Esc. As Education/Meetings (53XX)
Machinery & Equipment	20,000	20,000	20,000	20,000	20,600	Esc. As Materials & Supplies
Vehicle Purchases	30,000	30,900	31,827	32,782	33,765	Esc. As Equipment
Indirect Expense	187,185	200,288	214,308	229,310	245,361	Esc. As Other (56XX)
Total Supplie/Services	\$862,289	\$876,292	\$891,239	\$907,196	\$943,584	
<b>Total Water Distribution Expenses</b>	<b>\$1,970,398</b>	<b>\$2,061,968</b>	<b>\$2,159,913</b>	<b>\$2,264,676</b>	<b>\$2,396,088</b>	
<u>Operations Admin</u>						
<u>Personnel</u>						
Salaries-Perm Full Time	\$172,911	\$185,015	\$197,966	\$211,824	\$226,652	Esc. As Personnel (51XX)
Hourly Wages - Temporary	36,838	39,416	42,175	45,128	48,287	Esc. As Personnel (51XX)
Overtime - Perm Full Time	400	428	458	490	524	Esc. As Personnel (51XX)
Def Comp City Match	1,650	1,766	1,889	2,021	2,163	Esc. As Personnel (51XX)
Acting Pay	100	107	114	123	131	Esc. As Personnel (51XX)
Standby Pay	65	70	74	80	85	Esc. As Personnel (51XX)
Workers Comp/Liab Ins	1,025	1,097	1,174	1,256	1,344	Esc. As Personnel (51XX)
Retirement	41,475	44,378	47,484	50,808	54,365	Esc. As Personnel (51XX)
Health Pay-In Lieu	8,502	9,097	9,734	10,415	11,144	Esc. As Personnel (51XX)
Life/Vision/Dental/Retire	16,610	17,772	19,017	20,348	21,772	Esc. As Personnel (51XX)
Health/Life/Vision Ins	13,959	14,936	15,982	17,100	18,297	Esc. As Personnel (51XX)
Unemployment Insurance	671	717	768	821	879	Esc. As Personnel (51XX)
Medicare Insurance	2,586	2,767	2,961	3,168	3,390	Esc. As Personnel (51XX)
Personnel Offset	125,909	134,722	144,153	154,243	165,040	Esc. As Personnel (51XX)
Future Staffing Needs	0	0	303,000	460,000	460,000	Esc. As Personnel (51XX)
Total Personnel	\$422,699	\$452,288	\$786,948	\$977,825	\$1,014,073	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Supplies/Services</b>						
Memberships & Dues	\$200	\$200	\$200	\$200	\$206	Esc. As Supplies/Services (52XX)
Office Supplies	2,500	2,500	2,500	2,500	2,575	Esc. As Supplies/Services (52XX)
Postage	50	50	50	50	52	Esc. As Supplies/Services (52XX)
Pubs & Periodicals	510	510	510	510	525	Esc. As Supplies/Services (52XX)
Printing	200	200	200	200	206	Esc. As Supplies/Services (52XX)
Copy Machine Costs	518	518	518	518	534	Esc. As Supplies/Services (52XX)
Spec Dept Supplies	1,350	1,350	1,350	1,350	1,391	Esc. As Supplies/Services (52XX)
Spec Dept Expense	500	500	500	500	515	Esc. As Supplies/Services (52XX)
Advertising	100	100	100	100	103	Esc. As Supplies/Services (52XX)
Telephone	6,240	6,240	6,240	6,240	6,427	Esc. As Supplies/Services (52XX)
Maint Office Equipment	100	100	100	100	103	Esc. As Supplies/Services (52XX)
Data Proc Equip / Reserve	25,521	25,521	25,521	25,521	26,287	Esc. As Supplies/Services (52XX)
Conf & Mtgs	3,500	3,500	3,500	3,500	3,605	Esc. As Education/Meetings (53XX)
Education Training	3,090	3,090	3,090	3,090	3,183	Esc. As Education/Meetings (53XX)
Education Incent Reimb	1,875	1,875	1,875	1,875	1,931	Esc. As Education/Meetings (53XX)
Contrib to Other Agencies	36,000	36,000	36,000	36,000	36,000	Esc. As Transfers (59XX)
<b>Total Supplie/Services</b>	<b>\$82,254</b>	<b>\$82,254</b>	<b>\$82,254</b>	<b>\$82,254</b>	<b>\$83,642</b>	
<b>Total Operations Admin Expenses</b>	<b>\$504,953</b>	<b>\$534,542</b>	<b>\$869,202</b>	<b>\$1,060,079</b>	<b>\$1,097,714</b>	
<b>Additions/Deletions</b>						
OPEB Liability	\$315,156	337,217	360,822	386,080	413,105	Esc. As Personnel (51XX)
Additions/Deletions	0	0	379,606	138,652	555,554	
<b>Total Additions/Deletions</b>	<b>\$315,156</b>	<b>\$337,217</b>	<b>\$740,428</b>	<b>\$524,732</b>	<b>\$968,659</b>	
<b>TOTAL O&amp;M EXPENSES</b>	<b>\$5,057,259</b>	<b>\$5,270,628</b>	<b>\$6,181,503</b>	<b>\$6,341,760</b>	<b>\$7,078,609</b>	
		0.040	0.041	0.043	0.055	
<b>CAPITAL FUNDED THROUGH RATES</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,000</b>	<b>\$650,000</b>	<b>\$850,000</b>	
<b>Debt Service</b>						
Debt Service - Existing (CEC Loan)	\$138,377	\$138,377	\$138,377	\$138,377	\$138,377	65.8 % annual debt service of CEC loan
Debt Service - Series 2008 Bonds	325,382	651,125	651,250	650,875	654,875	
Debt Service - Series 2009 Bonds	0	0	772,398	797,160	991,098	
Debt Service - Stimulus SRF Loan	0	0	320,736	477,896	477,896	
Debt Service - New	0	0	21,442	196,421	339,621	
<b>Total Debt Service</b>	<b>\$463,759</b>	<b>\$789,502</b>	<b>\$1,904,202</b>	<b>\$2,260,729</b>	<b>\$2,601,867</b>	
<b>Transfers Out</b>						
Transfers To - Operating Reserve	\$0	\$0	\$0	\$0	\$0	
Transfers To - Capital/Bond Proceed Reserve	0	0	0	0	0	
<b>Total Transfers Out</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Less: Existing Connection Fees</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>TOTAL REVENUE REQUIREMENT WITHOUT SWP</b>	<b>\$5,521,018</b>	<b>\$6,060,130</b>	<b>\$8,485,705</b>	<b>\$9,252,489</b>	<b>\$10,530,476</b>	
<b>Balance/(Deficiency) of Funds without SWP</b>	<b>\$997,920</b>	<b>\$513,012</b>	<b>(\$1,726,575)</b>	<b>(\$2,350,830)</b>	<b>(\$3,538,140)</b>	
<b>Incr. as a % of Pres. Rates without SWP (Future Dollars)</b>	<b>-15.9%</b>	<b>-8.2%</b>	<b>27.4%</b>	<b>36.9%</b>	<b>54.7%</b>	

CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 3  
 REVENUES AND EXPENSES

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Surface Water Project Expenses</b>						
Additional O&M Funded through Rates	\$0	\$0	\$260,618	\$260,618	\$521,236	
Additional Capital Funded through Rates	25,450	0	0	0	0	
Additional Debt Funded through Rates	0	0	165,465	552,725	2,105,220	
<b>Total Surface Water Project Expenses</b>	<b>\$25,450</b>	<b>\$0</b>	<b>\$426,083</b>	<b>\$813,343</b>	<b>\$2,626,456</b>	
<b>Less: SWP Connection Fees</b>	\$0	\$147,641	\$170,800	\$411,600	\$652,400	
<b>Total SWP Revenue Requirement</b>	\$25,450	-\$147,641	\$255,283	\$401,743	\$1,974,056	
<b>TOTAL REVENUE REQUIREMENT WITH SWP</b>	<b>\$5,546,468</b>	<b>\$5,912,489</b>	<b>\$8,740,988</b>	<b>\$9,654,232</b>	<b>\$12,504,532</b>	
<b>Total Balance/(Deficiency) of Funds with SWP</b>	\$972,470	\$660,653	(\$1,981,857)	(\$2,752,573)	(\$5,512,196)	
<b>Total Incr. as a % of Pres. Rates with SWP (Future Dollars)</b>	-15.5%	-10.5%	31.4%	43.2%	85.3%	
<b>Proposed Rate Adjustment</b>	<b>0.0%</b>	<b>20.0%</b>	<b>20.0%</b>	<b>20.0%</b>	<b>20.0%</b>	
<b>Additional Revenue from Rate Increase</b>	\$0	\$1,256,494	\$2,775,343	\$4,636,014	\$6,940,767	
<b>Balance/Deficiency of Funds</b>	\$972,470	\$1,917,147	\$793,486	\$1,883,441	\$1,428,571	
<b>Deficiency as a % of Rate Revenues</b>	-15.5%	-25.4%	-8.7%	-17.1%	-10.7%	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 3  
REVENUES AND EXPENSES**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Average Residential Rate - \$/ Month</b>						
Current Average Residential Bill	\$24.52					
After Proposed Rate Adjustment	\$24.52	\$29.42	\$35.31	\$42.37	\$50.84	
After Proposed Rate Adjustment (Current Dollars)		\$29.42	\$33.90	\$38.98	\$43.34	
<b>% Adjustment Existing System vs. SWP</b>						
Existing System % Adjustment	0.0%	0.0%	17.4%	17.1%	12.8%	
SWP % Adjustment	0.0%	0.0%	2.6%	2.9%	7.2%	
<b>Debt Service Coverage Ratio (Without Development Fees &amp; SRF Loan)</b>						
Before Rate Adjustment	3.15	1.65	0.18	0.13	-0.14	DSC should Target 1.0
After Rate Adjustment	1.05	0.81	1.31	1.31	1.16	
After Proposed Rate Adjustment	3.15	3.24	1.77	2.11	1.50	
<b>Debt Service Coverage Ratio (With Development Fees Less SRF Loan)</b>						
Before Rate Adjustment	3.55	2.10	0.39	0.50	0.19	DSC should Target 1.2
After Rate Adjustment	1.45	1.26	1.52	1.68	1.49	
After Proposed Rate Adjustment	3.91	3.69	2.11	2.59	1.89	
<b>Operating Reserve Fund</b>						
<b>Beginning Reserve Balance</b>	<b>\$4,000,000</b>	<b>\$4,972,470</b>	<b>\$6,889,617</b>	<b>\$7,466,835</b>	<b>\$7,350,276</b>	
Plus: Interest	0	0	0	0	0	
Plus: To Reserves	0	0	0	0	0	
Less: Uses of Funds	0	0	216,268	2,000,000	0	
Balance/Deficiency of funds after proposed rate increase	972,470	1,917,147	793,486	1,883,441	1,428,571	
<b>Ending Reserve Balance</b>	<b>\$4,972,470</b>	<b>\$6,889,617</b>	<b>\$7,466,835</b>	<b>\$7,350,276</b>	<b>\$8,778,847</b>	
<b>Minimum 60 days O&amp;M Plus Taxes</b>	<b>\$831,330</b>	<b>\$866,405</b>	<b>\$1,058,979</b>	<b>\$1,085,322</b>	<b>\$1,249,289</b>	
<b>Capital Funding/Bond Proceed</b>						
<b>Beginning Fund Balance</b>	<b>\$0</b>	<b>\$3,402,354</b>	<b>\$3,993,915</b>	<b>\$0</b>	<b>\$0</b>	
Plus: Interest	0	102,071	119,817	0	0	
Plus: To Captial/Bond Proceed Fund	3,402,354	939,490	0	0	0	
Less: Uses of Funds	0	450,000	4,113,732	0	0	
<b>Ending Reserve Balance</b>	<b>\$3,402,354</b>	<b>\$3,993,915</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Water Development Fund</b>						
<b>Beginning Fund Balance</b>	<b>\$220,000</b>	<b>\$74,469</b>	<b>\$259,703</b>	<b>(\$1,904,016)</b>	<b>(\$2,136,159)</b>	
Plus: Interest	6,600	2,234	7,791	0	0	
Plus: To Development Fund	183,000	183,000	188,490	467,857	763,816	
Less: Uses of Funds	335,131	0	2,360,000	700,000	1,800,000	
<b>Ending Reserve Balance</b>	<b>\$74,469</b>	<b>\$259,703</b>	<b>(\$1,904,016)</b>	<b>(\$2,136,159)</b>	<b>(\$3,172,343)</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 4  
CAPITAL IMPROVEMENT FUNDING**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Capital Improvement Program</b>						
Meter Implementation Plan	\$51,851	\$0	\$0	\$0	\$0	
Meter Implementation	0	4,200,000	0	0	0	
Stimulus Meter Project	0	5,000,000	7,450,000	2,450,000	0	Stimulus funds loan; half of loan forgiven
Meter Project - local share rate funded	0	0	2,300,000	2,300,000	0	rate funded
Replace Elevated Tank	1,600,000	1,869,400	280,000	0	0	
Well Replacement	1,050,000	0	1,050,000	0	1,350,000	
Replace Well 22	950,000	0	0	0	0	
Water Source Security Systems	0	100,000	200,000	100,000	0	
Water Focus Study	35,283	0	0	0	0	
SCADA System - Water	456,706	1,743,294	0	0	0	Part paid by grants
Water - Back-up Power for Wells	405,000	0	0	0	0	
Nitrate Profiling of Wells	0	200,000	100,000	50,000	0	
Construct Well Improvements	100,000	110,000	0	0	0	
I5-SR113 Utilities	0	446,400	0	0	0	
First New Ground Level Tank	0	0	1,730,000	0	0	plus \$1.7 M from Well 25 Fund 584 in FY 09/10
2008 Road Rehab (Lincoln Avenue)	852,477	0	0	0	0	
Nitrate Source Reduction Program	0	0	150,000	200,000	0	
Lemen / North / East Realignment	235,983	0	0	0	0	
Groundwater Monitoring Wells	0	0	280,000	0	0	
Modify Well Casings	0	0	0	240,000	0	
Radio Communications Upgrade - Phase 1	346	1,416	0	0	0	
Destroy Old Wells	0	0	0	180,000	120,000	
Valve Replacement	0	0	0	50,000	75,000	
Replace Rusted Service Lines	0	0	0	0	0	
Eliminate Pipe Looping Deficiencies	0	0	200,000	200,000	200,000	
Water System Maintenance Repairs	0	0	250,000	250,000	200,000	
Road Repair Utility Work	0	0	0	300,000	300,000	
Rehabilitate Unlined Cast Iron Pipe	0	0	200,000	400,000	200,000	
Eliminate Undersized 2 & 3 Lines	0	0	0	250,000	125,000	
Implement Water Audit and Leak Detection Program	0	0	0	150,000	150,000	
Kentucky Avenue Widening and Reconstruction	0	0	0	265,000	0	
Well 25 SLSP	230,000	0	0	0	0	Paid by development fees
County Well Acquisition	20,000	0	330,000	0	0	Paid by development fees
Future Development Wells	0	0	0	700,000	1,800,000	Paid by development fees
Water Focus Study	85,131	0	0	0	0	Paid by development fees
Water Master Plan Update	0	0	300,000	0	0	Paid by development fees
<b>Total Capital Improvements</b>	<b>\$6,072,777</b>	<b>\$13,670,510</b>	<b>\$14,820,000</b>	<b>\$8,085,000</b>	<b>\$4,520,000</b>	
<b>Capital</b>						
Transfer to Capital/Bond Proceed Reserve Fund	\$3,402,354	\$939,490	\$0	\$0	\$0	
<b>Total Capital</b>	<b>\$3,402,354</b>	<b>\$939,490</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Capital Improvements and Capital</b>	<b>\$9,475,131</b>	<b>\$14,610,000</b>	<b>\$14,820,000</b>	<b>\$8,085,000</b>	<b>\$4,520,000</b>	
<b>Less: Funding Sources Other Than Rates</b>						
Development Fund	\$335,131	\$0	\$2,360,000	\$700,000	\$1,800,000	Projects to be paid by development fees (from CIP)
Operating Reserves	0	0	216,268	2,000,000	0	
Capital/Bond Proceed Reserve Funds	0	450,000	4,113,732	0	0	
Grants	140,000	160,000	0	0	0	\$0.3M (for project 06-09 from CIP)
Stimulus Grant	0	5,000,000	2,450,000	0	0	Loan forgiveness for 1/2 of project 09-22
Stimulus SRF Loan	0	0	5,000,000	2,450,000	0	Loan for 1/2 of project 09-22
Series 2008 Bonds	9,000,000	0	0	0	0	
Series 2009 Bonds	0	9,000,000	0	0	0	
Revenue Bonds	0	0	280,000	2,285,000	1,870,000	
<b>Total Funding Sources Other Than Rates</b>	<b>\$9,475,131</b>	<b>\$14,610,000</b>	<b>\$14,420,000</b>	<b>\$7,435,000</b>	<b>\$3,670,000</b>	
<b>CAPITAL FUNDED THROUGH RATES</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400,000</b>	<b>\$650,000</b>	<b>\$850,000</b>	

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 5  
 SURFACE WATER PROJECT REVENUE REQUIREMENTS**

	Budget	Projected				NOTES
	FY 08/09	FY 09/10	FY 10/11	FY 11/12	FY 12/13	
<b>Operation and Maintenance Expenses</b>						
Summer Water Purchases	\$0	\$0	\$260,618	\$260,618	\$521,236	From West-Yost Spreadsheet 060909
Operate Regional Surface Water Facilities	0	0	0	0	0	From West-Yost Spreadsheet 060909
Total O&M Expenses	\$0	\$0	\$260,618	\$260,618	\$521,236	
<b>Capital</b>						
Surface Water Project - Regional costs	\$0	\$1,928,001	\$4,378,948	\$18,291,690	\$62,215,994	From West-Yost Spreadsheet 060909
Local Costs	0	0	0	0	0	From West-Yost Spreadsheet 060909
Surface Water CEQA and Feasibility Reports	25,450	0	0	0	0	From CIP
Total Capital	\$25,450	\$1,928,001	\$4,378,948	\$18,291,690	\$62,215,994	
<b>Less: Funding Sources Other Than Rates</b>						
Development Fees	\$0	\$0	\$0	\$0	\$0	
Reserves	0	0	0	0	0	
Grants	0	0	0	0	0	
SRF Loans	0	0	0	0	0	
Revenue Bonds	0	1,928,001	4,378,948	18,291,690	62,215,994	
Total Funding Sources Other Than Rates	\$0	\$1,928,001	\$4,378,948	\$18,291,690	\$62,215,994	
<b>CAPITAL FUNDED THROUGH RATES</b>	<b>\$25,450</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Debt Service</b>						
Debt Service - New	\$0	\$147,641	\$482,970	\$1,883,701	\$6,648,043	
Other	0	0	0	0	0	
Other	0	0	0	0	0	
Other	0	0	0	0	0	
Total Debt Service	\$0	\$147,641	\$482,970	\$1,883,701	\$6,648,043	
<b>Less: SWP Connection Fees</b>	<b>\$0</b>	<b>\$147,641</b>	<b>\$170,800</b>	<b>\$411,600</b>	<b>\$652,400</b>	
<b>TOTAL REVENUE REQUIREMENT</b>	<b>\$25,450</b>	<b>\$0</b>	<b>\$572,788</b>	<b>\$1,732,719</b>	<b>\$6,516,878</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 6  
DEVELOPMENT OF THE COMMODITY ALLOCATION FACTOR**

	2007/2008 Consumption (CCF) [1]	2007/2008 Consumption (gallons)	20.00% Unaccounted for Water (gals) [2]	Net Water Delivered (Flow + Losses)	Avg Day (MGD) [3]	% of Total
Residential	3,187,319	2,383,933,203	476,786,641	2,860,719,844	7.84	68.1%
Multi-Family	380,783	284,804,214	56,960,843	341,765,056	0.94	8.1%
Commercial	495,946	370,939,194	74,187,839	445,127,033	1.22	10.6%
Institutional	117,750	88,070,424	17,614,085	105,684,509	0.29	2.5%
Large Uniform Users	199,352	149,103,964	29,820,793	178,924,757	0.49	4.3%
Landscape	268,190	200,590,613	40,118,123	240,708,736	0.66	5.7%
City	30,290	22,655,423	4,531,085	27,186,507	0.07	0.6%
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Total Consumption	4,679,630	3,500,097,035	700,019,407	4,200,116,441	11.51	100.0%

**Allocation Factor**

2007 Production (gal) **5,396,218,773**

**(COMM)**

NOTES:

[1] Residential consumption was estimated based on a weighted average of test meter data.

Consumption for all other unmetered customers was estimated based on the average consumption of metered customers.

[2] Estimated unaccounted for water

[3] Fiscal year 07/08 projected billed consumption converted to million gallons per day

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 7  
 DEVELOPMENT OF THE CAPACITY ALLOCATION FACTOR**

	Average Consumption (MGD)	Peaking Factor [1]	Peak Day Use (MGD)	% of Total
Residential	7.84	1.75	13.72	66.5%
Multi-Family	0.94	1.70	1.59	7.7%
Commercial	1.22	1.60	1.95	9.5%
Institutional	0.29	1.60	0.46	2.2%
Large Uniform Users	0.49	1.50	0.74	3.6%
Landscape	0.66	3.00	1.98	9.6%
City	0.07	2.50	0.19	0.9%
	-----		-----	-----
Total	11.51	1.79	20.62	100.0%

Historical Peak Day [2] = 23.30

**Allocation Factor (CAP)**

**NOTES:**

[1] Based on 07/08 Peak to Average Month.

[2] The peak daily demand occurred in July 2007 and was 23.3 mgd (from City Info Request W-18).

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 8  
DEVELOPMENT OF THE CUSTOMER ALLOCATION FACTOR**

	Actual Customer		Customer Service & Accounting			Meters & Services		
	Number of Bills	% of Total	Weighting Factor	Weighted Customer	% of Total	Weighting Factor [1]	Weighted Customer	% of Total
Residential	13,090	85.39%	1.0	13,090	85.39%	\$489	6,396,429	77.39%
Multi-Family	752	4.91%	1.0	752	4.91%	855	643,174	7.78%
Commercial	1,146	7.48%	1.0	1,146	7.48%	769	880,948	10.66%
Institutional	97	0.63%	1.0	97	0.63%	1,256	121,839	1.47%
Large Uniform Users	2	0.01%	1.0	2	0.01%	2,876	5,752	0.07%
Landscape	226	1.47%	1.0	226	1.47%	859	194,053	2.35%
City	17	0.11%	1.0	17	0.11%	1,355	23,035	0.28%
	-----	-----		-----	-----		-----	-----
Total	15,330	100.0%		15,330	100.0%		8,265,230	100.0%
<b>Allocation Factor</b>		<b>(AC)</b>			<b>(WCA)</b>			<b>(WCMS)</b>

[1] Meter weighting factor is an equivalent meter replacement cost based on City's meter replacement costs and number of meters.

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 9**

**DEVELOPMENT OF THE PUBLIC FIRE PROTECTION ALLOCATION FACTOR**

	Number of Bills	Fire Prot. Requirements (gals/min) [1]	Duration (minutes) [2]	Total FP Requirements (1,000 g/min)	% of Total
Residential [3]	13,090	1,000	120	1,570,800	59.1%
Multi-Family	752	3,000	180	406,080	15.3%
Commercial	1,146	3,000	180	618,840	23.3%
Institutional	97	3,000	180	52,380	2.0%
Large Uniform Users	2	3,500	240	1,680	0.1%
Landscape	226	0	0	0	0.0%
City	17	3,000	180	9,180	0.3%
	-----			-----	-----
Total	15,330			2,658,960	100.0%

**Allocation Factor**

**(FP)**

[1] Based on Water System Model Report - 1999 Master Plan Reports.

[2] Assumed duration of max fire event.

[3] Because not all residential customers have meters, the number of customers (12,200) was used in place of the number of meters.

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 10  
 DEVELOPMENT OF THE WATER REVENUE ALLOCATION FACTOR**

	<b>Projected FY 09/10</b>	<b>% of Total</b>
Residential	\$3,833,728	61.0%
Multi-Family	639,706	10.2%
Commercial	878,809	14.0%
Institutional	193,532	3.1%
Large Uniform Users	303,136	4.8%
Landscape	433,556	6.9%
City	0	0.0%
	-----	-----
Total Rate Revenues	\$6,282,468	100.0%
<b>Allocation Factor</b>		<b>(RR)</b>

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 11  
FUNCTIONALIZATION AND CLASSIFICATION OF RATE BASE**

Plant Description	Plant FY 06/07	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification		
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)						
<b>Source of Supply / Treatment</b>												
Treatment Plant Equipment	\$30,516	\$14,953	\$15,563	\$0	\$0	\$0	\$0	\$0	\$0	49.0% COMM	51.0% CAP	
Utility Replacements	422,855	207,199	215,656	0	0	0	0	0	0	49.0% COMM	51.0% CAP	
Wells	786,825	385,544	401,281	0	0	0	0	0	0	49.0% COMM	51.0% CAP	
Wells - Land	281,851	138,107	143,744	0	0	0	0	0	0	49.0% COMM	51.0% CAP	
Total Source of Supply / Treatment	\$1,522,047	\$745,803	\$776,244	\$0	\$0	\$0	\$0	\$0	\$0			
<b>Storage</b>												
Water Storage Tank	\$64,705	\$0	\$58,235	\$0	\$0	\$0	\$6,471	\$0	\$0	90.0% CAP	10.0% FP	
Total Storage	\$64,705	\$0	\$58,235	\$0	\$0	\$0	\$6,471	\$0	\$0			
<b>Transmission and Distribution</b>												
Hook Ups	\$19,126	\$0	\$11,476	\$6,312	\$0	\$0	\$1,339	\$0	\$0	33.0% AC	60% CAP	7% FP
Hydrants	752,158	0	0	0	0	0	752,158	0	0	100% FP		
Meter Reading Equipment	18,672	0	0	0	0	18,672	0	0	0	100% WCMS		
Meters	128,685	0	0	0	0	128,685	0	0	0	100% WCMS		
Pump House	20,111	9,854	10,257	0	0	0	0	0	0	49.0% COMM	51.0% CAP	
Pumping Equipment	303,343	148,638	154,705	0	0	0	0	0	0	49.0% COMM	51.0% CAP	
Water Main Replacement	613,916	0	368,349	202,592	0	0	42,974	0	0	33.0% AC	60% CAP	7% FP
Water Mains	5,709,098	0	3,425,459	1,884,002	0	0	399,637	0	0	33.0% AC	60% CAP	7% FP
Water Valves	638,401	0	383,041	210,672	0	0	44,688	0	0	33.0% AC	60% CAP	7% FP
Total Transmission and Distribution	\$8,203,510	\$158,492	\$4,353,286	\$2,303,578	\$0	\$147,357	\$1,240,796	\$0	\$0			
<b>Plant Before General Plant</b>	<b>\$9,790,262</b>	<b>\$904,295</b>	<b>\$5,187,764</b>	<b>\$2,303,578</b>	<b>\$0</b>	<b>\$147,357</b>	<b>\$1,247,267</b>	<b>\$0</b>	<b>\$0</b>			
Percent Plant before General Plant	100.00%	9.24%	52.99%	23.53%	0.00%	1.51%	12.74%	0.00%	0.00%	Factor PBG		

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 11  
FUNCTIONALIZATION AND CLASSIFICATION OF RATE BASE**

Plant Description	Plant FY 06/07	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>General Plant</b>										
Building and Structures	\$243,179	\$22,462	\$128,858	\$57,218	\$0	\$3,660	\$30,981	\$0	\$0	As Factor PBG
Fuel Tanks	23,200	2,143	12,293	5,459	0	349	2,956	0	0	As Factor PBG
GIS / Scada	55,170	5,096	29,234	12,981	0	830	7,029	0	0	As Factor PBG
Improvements	2,210,136	204,143	1,171,129	520,029	0	33,266	281,568	0	0	As Factor PBG
Mechanical Equipment	254,304	23,489	134,753	59,836	0	3,828	32,398	0	0	As Factor PBG
Misc. Equipment	169,943	15,697	90,051	39,986	0	2,558	21,650	0	0	As Factor PBG
Planning Projects	573,151	52,940	303,707	134,858	0	8,627	73,019	0	0	As Factor PBG
Services	8,900	822	4,716	2,094	0	134	1,134	0	0	As Factor PBG
Site Improvements	25,265	2,334	13,387	5,945	0	380	3,219	0	0	As Factor PBG
Total General Plant	\$3,563,246	\$329,126	\$1,888,129	\$838,406	\$0	\$53,632	\$453,953	\$0	\$0	
<b>TOTAL PLANT IN SERVICE</b>	<b>\$13,353,508</b>	<b>\$1,233,421</b>	<b>\$7,075,894</b>	<b>\$3,141,985</b>	<b>\$0</b>	<b>\$200,989</b>	<b>\$1,701,219</b>	<b>\$0</b>	<b>\$0</b>	
<b>Accumulated Depreciation</b>										
Source of Supply / Treatment	\$694,098	\$340,108	\$353,990	\$0	\$0	\$0	\$0	\$0	\$0	As Source of Supply / Treatment
Storage	64,705	0	58,235	0	0	0	6,471	0	0	As Storage
Transmission and Distribution	5,254,962	101,526	2,788,605	1,475,614	0	94,393	794,823	0	0	As Transmission and Distribution
General Plant	970,715	89,662	514,373	228,402	0	14,611	123,668	0	0	As General Plant
Total Accumulated Depreciation	\$6,984,481	\$531,296	\$3,715,203	\$1,704,017	\$0	\$109,004	\$924,961	\$0	\$0	
<b>NET PLANT IN SERVICE</b>	<b>\$6,369,028</b>	<b>\$702,125</b>	<b>\$3,360,691</b>	<b>\$1,437,968</b>	<b>\$0</b>	<b>\$91,985</b>	<b>\$776,258</b>	<b>\$0</b>	<b>\$0</b>	

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 13  
 MINIMUM SYSTEM ANALYSIS**

**Distribution Storage**

	hrs	gpm	MG
Fire Flow Requirements	4	3,500	0.8

**Storage Capacity**  
 Pedeshpere Tank 0.4

**Total Storage Capacity** 0.4

**% Public Fire Protection** 10.0%  
**% Capacity** 90.0%

**Source of Supply**

Average Day (mgd) 11.51  
 Peak Day (mgd) 23.30  
  
**% Commodity (COMM)** 49.0%  
**% Capacity (1-COMM=CAP)** 51.0%

**Distribution Main Analysis**

Main Size	Length (ft)	Replcmt \$/ft	Total
2"	274,234	\$2.40	\$658,162
2 1/2"	936	2.40	2,246
3"	89,361	2.40	214,466
4"	19,388	2.40	46,531
6"	246,136	4.60	1,132,226
8"	352,106	8.10	2,852,059
10"	186,315	12.20	2,273,043
12"	139,338	17.20	2,396,614
14"	141	18.10	2,552
Unknown	37,237		0
<b>Total</b>	<b>980,661</b>		<b>\$9,577,899 (4)</b>

**% Customer**  
 (1) Total Cost at 2" Equiv. \$3,139,092  
 % of Total Cost 33.0%

**% Capacity**  
 (2) Cost for 2" to 10" \$7,178,733  
 (3) Equivalent 10" for larger \$1,701,644  
 (2+3-1)/4 60.0%

**% Fire Protection**  
 (1-Cust-Cap) 7.0%

CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14  
FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>OPERATIONS AND MAINTENANCE EXPENSE</b>										
<b>Water Distribution System (27)</b>										
<u>Personnel</u>										
Salaries-Perm Full Time	\$54,746	\$1,058	\$29,051	\$15,373	\$0	\$983	\$8,280	\$0	\$0	As Transmission and Distribution
Workers Comp/Liab Ins	299	6	159	84	0	5	45	0	0	As Transmission and Distribution
Retirement	13,119	253	6,962	3,684	0	236	1,984	0	0	As Transmission and Distribution
Health Pay-In Lieu	363	7	192	102	0	7	55	0	0	As Transmission and Distribution
Life/Vision/Dental/Retire	6,959	134	3,693	1,954	0	125	1,053	0	0	As Transmission and Distribution
Health/Life/Vision Insurance	9,275	179	4,922	2,604	0	167	1,403	0	0	As Transmission and Distribution
Unemployment Insurance	206	4	110	58	0	4	31	0	0	As Transmission and Distribution
Medicare Insurance	799	15	424	224	0	14	121	0	0	As Transmission and Distribution
125 Plan	3	0	2	1	0	0	0	0	0	As Transmission and Distribution
<b>Total Personnel</b>	<b>\$85,769</b>	<b>\$1,657</b>	<b>\$45,514</b>	<b>\$24,084</b>	<b>\$0</b>	<b>\$1,541</b>	<b>\$12,973</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Water Distribution System Expenses</b>	<b>\$85,769</b>	<b>\$1,657</b>	<b>\$45,514</b>	<b>\$24,084</b>	<b>\$0</b>	<b>\$1,541</b>	<b>\$12,973</b>	<b>\$0</b>	<b>\$0</b>	
<b>Bill &amp; Collect - Water</b>										
<u>Personnel</u>										
Salaries-Perm Full Time	\$88,418	\$0	\$0	\$0	\$88,418	\$0	\$0	\$0	\$0	100% WCA
Workers Comp/Liab Ins	884	0	0	0	884	0	0	0	0	100% WCA
Retirement	17,324	0	0	0	17,324	0	0	0	0	100% WCA
Health Pay-In Lieu	4,003	0	0	0	4,003	0	0	0	0	100% WCA
Life/Vision/Dental/Retire	9,453	0	0	0	9,453	0	0	0	0	100% WCA
Health/Life/Vision Insurance	6,202	0	0	0	6,202	0	0	0	0	100% WCA
Unemployment Insurance	280	0	0	0	280	0	0	0	0	100% WCA
Medicare Insurance	1,084	0	0	0	1,084	0	0	0	0	100% WCA
Personnel Offset	17,441	0	0	0	17,441	0	0	0	0	100% WCA
<b>Total Personnel</b>	<b>\$145,087</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$145,087</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<u>Supplies/Services</u>										
Office Supplies	\$1,500	\$0	\$0	\$0	\$1,500	\$0	\$0	\$0	\$0	100% WCA
Postage	400	0	0	400	0	0	0	0	0	100% AC
Printing	600	0	0	0	600	0	0	0	0	100% WCA
Copy Machine Costs	400	0	0	0	400	0	0	0	0	100% WCA
Spec Dept Expense	450	0	0	0	450	0	0	0	0	100% WCA
Advertising	200	0	0	0	200	0	0	0	0	100% WCA
Telephone	2,500	0	0	0	2,500	0	0	0	0	100% WCA
Maint Office Equip	400	0	0	0	400	0	0	0	0	100% WCA
Data Proc Equip / Reserve	11,806	0	0	0	11,806	0	0	0	0	100% WCA
Prof & Spec Services	2,500	0	0	0	2,500	0	0	0	0	100% WCA
Other Contract Services	32,270	0	0	0	32,270	0	0	0	0	100% WCA
Conf & Mtgs	1,000	0	0	0	1,000	0	0	0	0	100% WCA
Education Training	500	0	0	0	500	0	0	0	0	100% WCA
Education Incent Reimb	1,200	0	0	0	1,200	0	0	0	0	100% WCA
Indirect Expense	2,440	0	0	0	2,440	0	0	0	0	100% WCA
<b>Total Supplies/Services</b>	<b>\$58,165</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400</b>	<b>\$57,765</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Bill &amp; Collect Expenses</b>	<b>\$203,253</b>	<b>\$0</b>	<b>\$0</b>	<b>\$400</b>	<b>\$202,853</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14  
FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS**

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification		
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)						
<b>Water Conservation</b>												
<u>Personnel</u>												
Salaries-Perm Full Time	\$94,341	\$46,227	\$48,114	\$0	\$0	\$0	\$0	\$0	\$0	49%	COMM	51% CAP
Hourly Wages - Temporary	17,473	8,562	8,911	0	0	0	0	0	0	49%	COMM	51% CAP
Overtime - Perm Full Time	1,070	524	546	0	0	0	0	0	0	49%	COMM	51% CAP
Workers Comp/Liab Ins	1,106	542	564	0	0	0	0	0	0	49%	COMM	51% CAP
Retirement	22,629	11,088	11,541	0	0	0	0	0	0	49%	COMM	51% CAP
Health Pay-In Lieu	3,265	1,600	1,665	0	0	0	0	0	0	49%	COMM	51% CAP
Life/Vision/Dental/Retire	11,344	5,559	5,786	0	0	0	0	0	0	49%	COMM	51% CAP
Health/Life/Vision Ins	13,388	6,560	6,828	0	0	0	0	0	0	49%	COMM	51% CAP
Unemployment Insurance	367	180	187	0	0	0	0	0	0	49%	COMM	51% CAP
Medicare Insurance	1,415	693	722	0	0	0	0	0	0	49%	COMM	51% CAP
<b>Total Personnel</b>	<b>\$166,397</b>	<b>\$81,535</b>	<b>\$84,863</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>			
<u>Supplies/Services</u>												
Memberships & Dues	\$540	\$265	\$275	\$0	\$0	\$0	\$0	\$0	\$0	49%	COMM	51% CAP
Office Supplies	515	252	263	0	0	0	0	0	0	49%	COMM	51% CAP
Postage	50	0	0	50	0	0	0	0	0	100%	AC	
Pubs & Periodicals	100	49	51	0	0	0	0	0	0	49%	COMM	51% CAP
Printing	1,545	757	788	0	0	0	0	0	0	49%	COMM	51% CAP
Spec Dept Expense	19,250	9,433	9,818	0	0	0	0	0	0	49%	COMM	51% CAP
Advertising	1,030	505	525	0	0	0	0	0	0	49%	COMM	51% CAP
Prof & Spec Services	5,000	2,450	2,550	0	0	0	0	0	0	49%	COMM	51% CAP
Other Contract Services	8,400	4,116	4,284	0	0	0	0	0	0	49%	COMM	51% CAP
Conf & Mtgs	2,600	1,274	1,326	0	0	0	0	0	0	49%	COMM	51% CAP
Education Training	2,000	980	1,020	0	0	0	0	0	0	49%	COMM	51% CAP
Education Incent Reimb	1,250	613	638	0	0	0	0	0	0	49%	COMM	51% CAP
Indirect Expense	15,149	7,423	7,726	0	0	0	0	0	0	49%	COMM	51% CAP
<b>Total Supplie/Services</b>	<b>\$57,429</b>	<b>\$28,116</b>	<b>\$29,263</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>			
<b>Total Water Conservation Expenses</b>	<b>\$223,826</b>	<b>\$109,650</b>	<b>\$114,126</b>	<b>\$50</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>			
<b>Water Wells O&amp;M</b>												
<u>Personnel</u>												
Salaries-Perm Full Time	\$271,972	\$133,266	\$138,706	\$0	\$0	\$0	\$0	\$0	\$0			As Source of Supply / Treatment
Hourly Wages - Temporary	15,829	7,756	8,073	0	0	0	0	0	0			As Source of Supply / Treatment
Overtime - Perm Full Time	9,095	4,457	4,638	0	0	0	0	0	0			As Source of Supply / Treatment
Acting Pay	535	262	273	0	0	0	0	0	0			As Source of Supply / Treatment
Workers Comp/Liab Ins	6,171	3,024	3,147	0	0	0	0	0	0			As Source of Supply / Treatment
Retirement	65,057	31,878	33,179	0	0	0	0	0	0			As Source of Supply / Treatment
Health Pay-In Lieu	8,203	4,019	4,183	0	0	0	0	0	0			As Source of Supply / Treatment
Life/Vision/Dental/Retire	36,377	17,825	18,552	0	0	0	0	0	0			As Source of Supply / Treatment
Health/Life/Vision Ins	43,960	21,541	22,420	0	0	0	0	0	0			As Source of Supply / Treatment
Unemployment Insurance	1,033	506	527	0	0	0	0	0	0			As Source of Supply / Treatment
Medicare Insurance	3,398	1,665	1,733	0	0	0	0	0	0			As Source of Supply / Treatment
Personnel Offset	23,458	11,494	11,964	0	0	0	0	0	0			As Source of Supply / Treatment
<b>Total Personnel</b>	<b>\$485,088</b>	<b>\$237,693</b>	<b>\$247,395</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>			

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14**

**FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS**

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>Supplies/Services</b>										
Memberships & Dues	\$750	\$368	\$383	\$0	\$0	\$0	\$0	\$0	\$0	As Source of Supply / Treatment
Office Supplies	960	470	490	0	0	0	0	0	0	As Source of Supply / Treatment
Postage	1,186	0	0	1,186	0	0	0	0	0	100% AC
Pubs & Periodicals	175	86	89	0	0	0	0	0	0	As Source of Supply / Treatment
Printing	2,250	1,103	1,148	0	0	0	0	0	0	As Source of Supply / Treatment
Copy Machine Costs	345	169	176	0	0	0	0	0	0	As Source of Supply / Treatment
Spec Dept Supplies	65,198	31,947	33,251	0	0	0	0	0	0	As Source of Supply / Treatment
Gas & Oil	3,000	1,470	1,530	0	0	0	0	0	0	As Source of Supply / Treatment
Personnel Supp & Equip	760	372	388	0	0	0	0	0	0	As Source of Supply / Treatment
Laundry	875	429	446	0	0	0	0	0	0	As Source of Supply / Treatment
Small Tools	700	343	357	0	0	0	0	0	0	As Source of Supply / Treatment
Spec Dept Expense	75,450	36,971	38,480	0	0	0	0	0	0	As Source of Supply / Treatment
Advertising	350	172	179	0	0	0	0	0	0	As Source of Supply / Treatment
Utilities	856,800	419,832	436,968	0	0	0	0	0	0	49% COMM 51% CAP
Telephone	2,500	1,225	1,275	0	0	0	0	0	0	As Source of Supply / Treatment
Maint Office Equipment	400	196	204	0	0	0	0	0	0	As Source of Supply / Treatment
Maint Comm Equip	1,200	588	612	0	0	0	0	0	0	As Source of Supply / Treatment
Maint Other Equip	500	245	255	0	0	0	0	0	0	As Source of Supply / Treatment
Data Proc Equip / Reserve	14,904	7,303	7,601	0	0	0	0	0	0	As Source of Supply / Treatment
Prof & Spec Services	15,750	7,718	8,033	0	0	0	0	0	0	As Source of Supply / Treatment
Other Contract Services	94,246	46,181	48,065	0	0	0	0	0	0	As Source of Supply / Treatment
Equip Rental - Fixed	8,673	4,250	4,423	0	0	0	0	0	0	As Source of Supply / Treatment
Equip Rental - Variable	13,898	6,810	7,088	0	0	0	0	0	0	As Source of Supply / Treatment
Education Training	5,125	2,511	2,614	0	0	0	0	0	0	As Source of Supply / Treatment
Education Incent Reimb	625	306	319	0	0	0	0	0	0	As Source of Supply / Treatment
Indirect Expense	172,345	84,449	87,896	0	0	0	0	0	0	As Source of Supply / Treatment
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Total Supplie/Services	\$1,338,965	\$655,512	\$682,267	\$1,186	\$0	\$0	\$0	\$0	\$0	
<b>Total Water Conservation Expenses</b>	<b>\$1,824,053</b>	<b>\$893,205</b>	<b>\$929,662</b>	<b>\$1,186</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Water Distribution System (86)</b>										
<b>Personnel</b>										
Salaries-Perm Full Time	\$666,359	\$12,874	\$353,611	\$187,116	\$0	\$11,970	\$100,788	\$0	\$0	As Transmission and Distribution
Hourly Wages - Temporary	38,859	751	20,621	10,912	0	698	5,877	0	0	As Transmission and Distribution
Overtime - Perm Full Time	10,700	207	5,678	3,005	0	192	1,618	0	0	As Transmission and Distribution
Acting Pay	2,212	43	1,174	621	0	40	335	0	0	As Transmission and Distribution
Standby Pay	5,350	103	2,839	1,502	0	96	809	0	0	As Transmission and Distribution
Workers Comp/Liab Ins	34,337	663	18,221	9,642	0	617	5,193	0	0	As Transmission and Distribution
Retirement	168,449	3,254	89,390	47,301	0	3,026	25,478	0	0	As Transmission and Distribution
Health Pay-In Lieu	34,111	659	18,101	9,578	0	613	5,159	0	0	As Transmission and Distribution
Life/Vision/Dental/Retire	100,584	1,943	53,376	28,244	0	1,807	15,213	0	0	As Transmission and Distribution
Health/Life/Vision Ins	100,467	1,941	53,314	28,211	0	1,805	15,196	0	0	As Transmission and Distribution
Unemployment Insurance	2,595	50	1,377	729	0	47	392	0	0	As Transmission and Distribution
Medicare Insurance	8,941	173	4,745	2,511	0	161	1,352	0	0	As Transmission and Distribution
Personnel Offset	12,714	246	6,747	3,570	0	228	1,923	0	0	As Transmission and Distribution
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Total Personnel	\$1,185,676	\$22,907	\$629,192	\$332,943	\$0	\$21,298	\$179,336	\$0	\$0	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14**

**FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS**

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>Supplies/Services</b>										
Memberships & Dues	\$5,367	\$104	\$2,848	\$1,507	\$0	\$96	\$812	\$0	\$0	As Transmission and Distribution
Office Supplies	1,500	29	796	421	0	27	227	0	0	As Transmission and Distribution
Postage	400	0	0	400	0	0	0	0	0	100% AC
Pubs & Periodicals	175	3	93	49	0	3	26	0	0	As Transmission and Distribution
Printing	1,000	19	531	281	0	18	151	0	0	As Transmission and Distribution
Copy Machine Costs	518	10	275	145	0	9	78	0	0	As Transmission and Distribution
Spec Dept Supplies	226,283	4,372	120,080	63,541	0	4,065	34,226	0	0	As Transmission and Distribution
Gas & Oil	200	4	106	56	0	4	30	0	0	As Transmission and Distribution
Personnel Supp & Equip	3,120	60	1,656	876	0	56	472	0	0	As Transmission and Distribution
Laundry	2,625	51	1,393	737	0	47	397	0	0	As Transmission and Distribution
Small Tools	2,000	39	1,061	562	0	36	303	0	0	As Transmission and Distribution
Spec Dept Expense	22,600	437	11,993	6,346	0	406	3,418	0	0	As Transmission and Distribution
Advertising	250	5	133	70	0	4	38	0	0	As Transmission and Distribution
Telephone	9,318	180	4,945	2,617	0	167	1,409	0	0	As Transmission and Distribution
Maint Office Equipment	300	6	159	84	0	5	45	0	0	As Transmission and Distribution
Maint Comm Equip	4,200	81	2,229	1,179	0	75	635	0	0	As Transmission and Distribution
Maint Other Equip	1,000	19	531	281	0	18	151	0	0	As Transmission and Distribution
Data Proc Equip / Reserve	22,356	432	11,863	6,278	0	402	3,381	0	0	As Transmission and Distribution
Prof & Spec Services	52,950	1,023	28,099	14,869	0	951	8,009	0	0	As Transmission and Distribution
Other Contract Services	74,000	1,430	39,269	20,779	0	1,329	11,193	0	0	As Transmission and Distribution
Equip Rental - Fixed	29,590	572	15,702	8,309	0	532	4,476	0	0	As Transmission and Distribution
Equip Rental - Variable	96,203	1,859	51,051	27,014	0	1,728	14,551	0	0	As Transmission and Distribution
Vehicle Lease Pmts	47,674	921	25,299	13,387	0	856	7,211	0	0	As Transmission and Distribution
Education Training	19,600	379	10,401	5,504	0	352	2,965	0	0	As Transmission and Distribution
Education Incent Reimb	1,875	36	995	527	0	34	284	0	0	As Transmission and Distribution
Machinery & Equipment	20,000	386	10,613	5,616	0	359	3,025	0	0	As Transmission and Distribution
Vehicle Purchases	30,900	597	16,397	8,677	0	555	4,674	0	0	As Transmission and Distribution
Indirect Expense	200,288	3,870	106,285	56,242	0	3,598	30,294	0	0	As Transmission and Distribution
<b>Total Supplie/Services</b>	<b>\$876,292</b>	<b>\$16,922</b>	<b>\$464,802</b>	<b>\$246,354</b>	<b>\$0</b>	<b>\$15,733</b>	<b>\$132,480</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Water Distribution Expenses</b>	<b>\$2,061,968</b>	<b>\$39,830</b>	<b>\$1,093,995</b>	<b>\$579,297</b>	<b>\$0</b>	<b>\$37,031</b>	<b>\$311,816</b>	<b>\$0</b>	<b>\$0</b>	
<b>Operations Admin</b>										
<b>Personnel</b>										
Salaries-Perm Full Time	\$185,015	\$43,925	\$91,829	\$25,447	\$8,532	\$1,622	\$13,661	\$0	\$0	As O&M Above
Hourly Wages - Temporary	39,416	9,358	19,564	5,421	1,818	346	2,910	0	0	As O&M Above
Overtime - Perm Full Time	428	102	212	59	20	4	32	0	0	As O&M Above
Def Comp City Match	1,766	419	876	243	81	15	130	0	0	As O&M Above
Acting Pay	107	25	53	15	5	1	8	0	0	As O&M Above
Standby Pay	70	17	35	10	3	1	5	0	0	As O&M Above
Workers Comp/Liab Ins	1,097	260	544	151	51	10	81	0	0	As O&M Above
Retirement	44,378	10,536	22,026	6,104	2,046	389	3,277	0	0	As O&M Above
Health Pay-In Lieu	9,097	2,160	4,515	1,251	420	80	672	0	0	As O&M Above
Life/Vision/Dental/Retire	17,772	4,219	8,821	2,444	820	156	1,312	0	0	As O&M Above
Health/Life/Vision Ins	14,936	3,546	7,413	2,054	689	131	1,103	0	0	As O&M Above
Unemployment Insurance	717	170	356	99	33	6	53	0	0	As O&M Above
Medicare Insurance	2,767	657	1,373	381	128	24	204	0	0	As O&M Above
Personnel Offset	134,722	31,985	66,867	18,530	6,213	1,181	9,947	0	0	As O&M Above
Future Staffing Needs	0	0	0	0	0	0	0	0	0	As O&M Above
<b>Total Personnel</b>	<b>\$452,288</b>	<b>\$107,378</b>	<b>\$224,485</b>	<b>\$62,207</b>	<b>\$20,857</b>	<b>\$3,966</b>	<b>\$33,395</b>	<b>\$0</b>	<b>\$0</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14  
FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS**

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>Supplies/Services</b>										
Memberships & Dues	\$200	\$47	\$99	\$28	\$9	\$2	\$15	\$0	\$0	As O&M Above
Office Supplies	2,500	594	1,241	344	115	22	185	0	0	As O&M Above
Postage	50	0	0	50	0	0	0	0	0	100% AC
Pubs & Periodicals	510	121	253	70	24	4	38	0	0	As O&M Above
Printing	200	47	99	28	9	2	15	0	0	As O&M Above
Copy Machine Costs	518	123	257	71	24	5	38	0	0	As O&M Above
Spec Dept Supplies	1,350	321	670	186	62	12	100	0	0	As O&M Above
Spec Dept Expense	500	119	248	69	23	4	37	0	0	As O&M Above
Advertising	100	24	50	14	5	1	7	0	0	As O&M Above
Telephone	6,240	1,481	3,097	858	288	55	461	0	0	As O&M Above
Maint Office Equipment	100	24	50	14	5	1	7	0	0	As O&M Above
Data Proc Equip / Reserve	25,521	6,059	12,667	3,510	1,177	224	1,884	0	0	As O&M Above
Conf & Mtgs	3,500	831	1,737	481	161	31	258	0	0	As O&M Above
Education Training	3,090	734	1,534	425	142	27	228	0	0	As O&M Above
Education Incent Reimb	1,875	445	931	258	86	16	138	0	0	As O&M Above
Contrib to Other Agencies	36,000	8,547	17,868	4,951	1,660	316	2,658	0	0	As O&M Above
<b>Total Supplie/Services</b>	<b>\$82,254</b>	<b>\$19,516</b>	<b>\$40,800</b>	<b>\$11,356</b>	<b>\$3,791</b>	<b>\$721</b>	<b>\$6,069</b>	<b>\$0</b>	<b>\$0</b>	
<b>Total Operations Admin Expenses</b>	<b>\$534,542</b>	<b>\$126,895</b>	<b>\$265,285</b>	<b>\$73,564</b>	<b>\$24,648</b>	<b>\$4,687</b>	<b>\$39,464</b>	<b>\$0</b>	<b>\$0</b>	
<b>Additions/Deletions</b>										
OPEB Liability	\$337,217	\$80,058	\$167,370	\$46,383	\$15,551	\$2,957	\$24,898	\$0	\$0	As O&M Above
Additions/Deletions	0	0	0	0	0	0	0	0	0	As O&M Above
<b>Total Additions/Deletions</b>	<b>\$337,217</b>	<b>\$80,058</b>	<b>\$167,370</b>	<b>\$46,383</b>	<b>\$15,551</b>	<b>\$2,957</b>	<b>\$24,898</b>	<b>\$0</b>	<b>\$0</b>	
<b>TOTAL O&amp;M EXPENSES</b>	<b>\$5,270,628</b>	<b>\$1,251,295</b>	<b>\$2,615,952</b>	<b>\$724,964</b>	<b>\$243,051</b>	<b>\$46,216</b>	<b>\$389,151</b>	<b>\$0</b>	<b>\$0</b>	
<b>CAPITAL FUNDED THROUGH RATES</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	As Net Plant in Service
<b>Debt Service</b>										
Debt Service - Existing (CEC Loan)	\$138,377	\$15,255	\$73,016	\$31,242	\$0	\$1,999	\$16,865	\$0	\$0	As Net Plant in Service
Debt Service - Series 2008 Bonds	\$651,125	71,780	343,574	147,008	0	9,404	79,359	0	0	As Net Plant in Service
Debt Service - Series 2009 Bonds	\$0	0	0	0	0	0	0	0	0	As Net Plant in Service
Debt Service - Stimulus SRF Loan	\$0	0	0	0	0	0	0	0	0	As Net Plant in Service
Debt Service - New	0	0	0	0	0	0	0	0	0	As Net Plant in Service
<b>Total Debt Service</b>	<b>\$789,502</b>	<b>\$87,035</b>	<b>\$416,590</b>	<b>\$178,250</b>	<b>\$0</b>	<b>\$11,402</b>	<b>\$96,225</b>	<b>\$0</b>	<b>\$0</b>	
<b>Transfers Out</b>										
Transfers To - Operating Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	As O&M
Transfers To - Capital/Bond Proceed Reserve	0									
<b>Total Transfers Out</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Less: Existing Connection Fees</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	As Net Plant in Service
<b>TOTAL REVENUE REQUIREMENT WITHOUT SWP</b>	<b>\$6,060,130</b>	<b>\$1,338,330</b>	<b>\$3,032,542</b>	<b>\$903,214</b>	<b>\$243,051</b>	<b>\$57,618</b>	<b>\$485,375</b>	<b>\$0</b>	<b>\$0</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 14  
FUNCTIONALIZATION AND CLASSIFICATION OF REVENUE REQUIREMENTS**

	Expenses FY 09/10	Commodity (COMM)	Capacity (CAP)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
				Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
<b>Surface Water Project</b>										
Additional O&M Funded through Rates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	As Source of Supply / Treatment
Additional Capital Funded through Rates	0	0	0	0	0	0	0	0	0	As Source of Supply / Treatment
Additional Debt Funded through Rates	0	0	0	0	0	0	0	0	0	As Source of Supply / Treatment
Total Surface Water Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
<b>Less: SWP Connection Fees</b>	\$147,641	\$72,344	\$75,297	\$0	\$0	\$0	\$0	\$0	\$0	As Source of Supply / Treatment
<b>TOTAL REVENUE REQUIREMENT W/ SWP</b>	<b>\$5,912,489</b>	<b>\$1,265,986</b>	<b>\$2,957,245</b>	<b>\$903,214</b>	<b>\$243,051</b>	<b>\$57,618</b>	<b>\$485,375</b>	<b>\$0</b>	<b>\$0</b>	
<b>Less: Miscellaneous Revenues</b>										
Fees, Licenses, Permits	\$9,500	\$2,034	\$4,752	\$1,451	\$391	\$93	\$780	\$0	\$0	As Total Revenue Requirements
Shut-off Notices	\$66,000	14,132	33,011	10,082	2,713	643	5,418	0	0	As Total Revenue Requirements
Shut-off Fees	\$66,000	14,132	33,011	10,082	2,713	643	5,418	0	0	As Total Revenue Requirements
Interest Income	149,174	31,941	74,612	22,788	6,132	1,454	12,246	0	0	As Total Revenue Requirements
Total Miscellaneous Revenues	\$290,674	\$62,239	\$145,386	\$44,404	\$11,949	\$2,833	\$23,862	\$0	\$0	
<b>NET REVENUE REQUIREMENT</b>	<b>\$5,621,815</b>	<b>\$1,203,746</b>	<b>\$2,811,858</b>	<b>\$858,810</b>	<b>\$231,102</b>	<b>\$54,785</b>	<b>\$461,513</b>	<b>\$0</b>	<b>\$0</b>	

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 16  
ALLOCATION OF REVENUE REQUIREMENTS**

Classification Components	Net Revenue Requirement	Residential	Multi-Family	Commercial	Institutional	Large Uniform User	Landscape	City
Commodity	\$1,203,746	\$819,877	\$97,949	\$127,573	\$30,289	\$51,280	\$68,987	\$7,792
Capacity	\$2,811,858	\$1,870,177	\$217,043	\$266,056	\$63,169	\$100,261	\$269,763	\$25,390
Customer Related								
Actual Customer	\$858,810	\$733,321	\$42,128	\$64,201	\$5,434	\$112	\$12,661	\$952
Weighted for Cust. Acctg.	231,102	197,334	11,337	17,276	1,462	30	3,407	256
Weighted for Meters & Services	54,785	42,398	4,263	5,839	808	38	1,286	153
Total Customer Related	\$1,144,697	\$973,053	\$57,728	\$87,316	\$7,704	\$180	\$17,354	\$1,361
Public Fire Protection Related	\$461,513	\$272,642	\$70,483	\$107,411	\$9,092	\$292	\$0	\$1,593
Revenue Related	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Direct Assignment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>NET REVENUE REQUIREMENT</b>	<b>\$5,621,815</b>	<b>\$3,935,750</b>	<b>\$443,203</b>	<b>\$588,356</b>	<b>\$110,253</b>	<b>\$152,012</b>	<b>\$356,104</b>	<b>\$36,136</b>

**CITY OF WOODLAND  
 WATER REVENUE REQUIREMENT STUDY  
 EXHIBIT 17  
 COST OF SERVICE ANALYSIS**

	Expenses FY 09/10	Residential	Multi-Family	Commercial	Institutional	Large Uniform User	Landscape
Revenues at Present Rates	\$6,282,468	\$3,833,728	\$639,706	\$878,809	\$193,532	\$303,136	\$433,556
Allocated Revenue Requirement	\$5,621,815	\$3,935,750	\$443,203	\$588,356	\$110,253	\$152,012	\$356,104
Balance/(Deficiency) of Fund	\$660,653	(\$102,022)	\$196,503	\$290,453	\$83,279	\$151,124	\$77,453
<b>Required % Change in Rates</b>	<b>-10.5%</b>	<b>2.7%</b>	<b>-30.7%</b>	<b>-33.1%</b>	<b>-43.0%</b>	<b>-49.9%</b>	<b>-17.9%</b>

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 18  
AVERAGE UNIT COSTS**

	Total	Residential	Multi-Family	Commercial	Institutional	Large Uniform User	Landscape
Commodity \$/CCF	\$0.26	\$0.26	\$0.26	\$0.26	\$0.26	\$0.26	\$0.26
Capacity \$/CCF	0.60	0.59	0.57	0.54	0.54	0.50	1.01
Fire/Revenue/Direct \$/CCF	0.10	0.09	0.19	0.22	0.08	0.00	0.00
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Total \$/CCF	\$0.96	\$0.93	\$1.01	\$1.01	\$0.87	\$0.76	\$1.26
Customer Costs - \$/account/month	\$6.22	\$6.19	\$6.40	\$6.35	\$6.62	\$7.51	\$6.40
Average Total Cost \$/CCF	\$1.20	\$1.23	\$1.16	\$1.19	\$0.94	\$0.76	\$1.33
Average Current Cost \$/CCF	\$1.34	\$1.20	\$1.68	\$1.77	\$1.64	\$1.52	\$1.62
<u>Basic Data:</u>							
Annual Water Consumption (CCF)	4,679,630	3,187,319	380,783	495,946	117,750	199,352	268,190
Number of Bills	15,330	13,090	752	1,146	97	2	226
<u>Check Calculation</u>							
Commodity \$/1,000 CF	\$1,203,746	\$819,877	\$97,949	\$127,573	\$30,289	\$51,280	\$68,987
Capacity \$/1,000 CF	2,811,858	1,870,177	217,043	266,056	63,169	100,261	269,763
Fire/Revenue/Direct \$/1,000 CF	461,513	272,642	70,483	107,411	9,092	292	0
Customer Costs - \$/account/month	1,144,697	973,053	57,728	87,316	7,704	180	17,354
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Should All Be Equal	\$5,621,815	\$3,935,750	\$443,203	\$588,356	\$110,253	\$152,012	\$356,104
	\$5,621,815	\$3,935,750	\$443,203	\$588,356	\$110,253	\$152,012	\$356,104

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 19  
REVENUE AT PRESENT RATES**

<b>RESIDENTIAL</b>		<b>Aug-07</b>	<b>Sep-07</b>	<b>Oct-07</b>	<b>Nov-07</b>	<b>Dec-07</b>	<b>Jan-08</b>	<b>Feb-08</b>	<b>Mar-08</b>	<b>Apr-08</b>	<b>May-08</b>	<b>Jun-08</b>	<b>Jul-08</b>	<b>Total</b>
<b>Meter Rate</b>														
Meter Size	Mo. Rate													
3/4"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
1"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
1 1/2"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
2"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
3"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
4"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
6"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
8"	--	0	0	0	0	0	0	0	0	0	0	0	0	0
No meter rates		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Flat Rate (per customer)</b>														
<5,000 SF	\$19.89	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072	2,072
5,000 - 10,000 SF	24.52	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476	9,476
>10,000 SF	28.95	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542	1,542
<b>Total</b>		13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090
<b>Consumption (per ccf)</b>														
<5,000 SF	--	54,031	72,361	19,126	40,643	17,851	21,517	11,794	19,445	30,283	30,602	37,854	45,504	401,012
5,000 - 10,000 SF	--	297,670	381,718	108,768	184,988	93,524	112,064	75,190	118,038	194,464	186,842	245,758	259,148	2,258,172
>10,000 SF	--	85,581	83,268	31,611	44,718	43,176	19,275	10,023	16,191	28,527	44,718	57,825	63,222	528,135
<b>Total</b>		437,282	537,347	159,505	270,349	154,551	152,856	97,007	153,674	253,274	262,162	341,437	367,874	3,187,319
<b>Revenues</b>														
Meter Charge	--	--	--	--	--	--	--	--	--	--	--	--	--	\$0
Flat Rate		318,205	318,205	318,205	318,205	318,205	318,205	318,205	318,205	318,205	318,205	318,205	318,205	3,818,454
Water Consumption Charge	--	--	--	--	--	--	--	--	--	--	--	--	--	0
<b>Total Revenue</b>		\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$3,818,454
<b>MULTI-FAMILY</b>														
<b>Meter Rate</b>														
Meter Size	Mo. Rate													
3/4"	\$1.90	3	3	3	3	3	3	3	3	3	3	3	3	3
1"	3.79	69	69	69	69	69	69	69	69	69	69	69	69	69
1 1/2"	7.55	88	88	88	88	88	88	88	88	88	88	88	88	88
2"	11.34	47	47	47	47	47	47	47	47	47	47	47	47	47
3"	22.66	20	20	20	20	20	20	20	20	20	20	20	20	20
4"	37.78	5	5	5	5	5	5	5	5	5	5	5	5	5
6"	75.55	2	2	2	2	2	2	2	2	2	2	2	2	2
		234	234	234	234	234	234	234	234	234	234	234	234	234
<b>Flat Rate (per customer)</b>														
Minumum	\$20.05	518	518	518	518	518	518	518	518	518	518	518	518	518
<b>Consumption (per ccf)</b>														
Per ccf	\$1.51	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	321,479
<b>Revenues</b>														
Meter Charge		\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$2,258	\$27,093
Flat Rate		10,386	10,386	10,386	10,386	10,386	10,386	10,386	10,386	10,386	10,386	10,386	10,386	124,631
Water Consumption Charge		40,453	40,453	40,453	40,453	40,453	40,453	40,453	40,453	40,453	40,453	40,453	40,453	485,433
<b>Total Revenue</b>		\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$53,096	\$637,158

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 19  
REVENUE AT PRESENT RATES**

<b>COMMERCIAL</b>		<b>Aug-07</b>	<b>Sep-07</b>	<b>Oct-07</b>	<b>Nov-07</b>	<b>Dec-07</b>	<b>Jan-08</b>	<b>Feb-08</b>	<b>Mar-08</b>	<b>Apr-08</b>	<b>May-08</b>	<b>Jun-08</b>	<b>Jul-08</b>	<b>Total</b>
<b>Meter Rate</b>														
Meter Size	Mo. Rate													
3/4"	\$1.90	41	41	41	41	41	41	41	41	41	41	41	41	41
1"	3.79	247	247	247	247	247	247	247	247	247	247	247	247	247
1 1/2"	7.55	179	179	179	179	179	179	179	179	179	179	179	179	179
2"	11.34	585	585	585	585	585	585	585	585	585	585	585	585	585
3"	22.66	20	20	20	20	20	20	20	20	20	20	20	20	20
4"	37.78	6	6	6	6	6	6	6	6	6	6	6	6	6
6"	75.55	2	2	2	2	2	2	2	2	2	2	2	2	2
		1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080
<b>Flat Rate (per customer)</b>														
Minumum	\$15.48	66	66	66	66	66	66	66	66	66	66	66	66	66
<b>Consumption (per ccf)</b>														
Per ccf	\$1.51	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	493,433
<b>Revenues</b>														
Meter Charge		\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$9,830	\$117,964
Flat Rate		1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	1,022	12,260
Water Consumption Charge		62,090	62,090	62,090	62,090	62,090	62,090	62,090	62,090	62,090	62,090	62,090	62,090	745,084
<b>Total Revenue</b>		\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$72,942	\$875,308

<b>INSTITUTIONAL</b>		<b>Aug-07</b>	<b>Sep-07</b>	<b>Oct-07</b>	<b>Nov-07</b>	<b>Dec-07</b>	<b>Jan-08</b>	<b>Feb-08</b>	<b>Mar-08</b>	<b>Apr-08</b>	<b>May-08</b>	<b>Jun-08</b>	<b>Jul-08</b>	<b>Total</b>
<b>Meter Rate</b>														
Meter Size	Mo. Rate													
3/4"	\$1.90	1	1	1	1	1	1	1	1	1	1	1	1	1
1"	3.79	10	10	10	10	10	10	10	10	10	10	10	10	10
1 1/2"	7.55	14	14	14	14	14	14	14	14	14	14	14	14	14
2"	11.34	32	32	32	32	32	32	32	32	32	32	32	32	32
3"	22.66	14	14	14	14	14	14	14	14	14	14	14	14	14
4"	37.78	7	7	7	7	7	7	7	7	7	7	7	7	7
6"	75.55	2	2	2	2	2	2	2	2	2	2	2	2	2
		80	80	80	80	80	80	80	80	80	80	80	80	80
<b>Flat Rate (per customer)</b>														
Minumum	\$15.48	17	17	17	17	17	17	17	17	17	17	17	17	17
<b>Consumption (per ccf)</b>														
Per ccf	\$1.51	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	115,701
<b>Revenues</b>														
Meter Charge		\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$1,241	\$14,894
Flat Rate		263	263	263	263	263	263	263	263	263	263	263	263	3,158
Water Consumption Charge		14,559	14,559	14,559	14,559	14,559	14,559	14,559	14,559	14,559	14,559	14,559	14,559	174,709
<b>Total Revenue</b>		\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$16,063	\$192,761

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 19  
REVENUE AT PRESENT RATES**

<b>LARGE UNIFORM USERS (BIOMASS)</b>		<b>Aug-07</b>	<b>Sep-07</b>	<b>Oct-07</b>	<b>Nov-07</b>	<b>Dec-07</b>	<b>Jan-08</b>	<b>Feb-08</b>	<b>Mar-08</b>	<b>Apr-08</b>	<b>May-08</b>	<b>Jun-08</b>	<b>Jul-08</b>	<b>Total</b>
<b>Meter Rate</b>														
<u>Meter Size</u>	<u>Mo. Rate</u>													
3/4"	\$1.90	0	0	0	0	0	0	0	0	0	0	0	0	0
1"	3.79	0	0	0	0	0	0	0	0	0	0	0	0	0
1 1/2"	7.55	0	0	0	0	0	0	0	0	0	0	0	0	0
2"	11.34	0	0	0	0	0	0	0	0	0	0	0	0	0
3"	22.66	0	0	0	0	0	0	0	0	0	0	0	0	0
4"	37.78	2	2	2	2	2	2	2	2	2	2	2	2	2
6"	75.55	0	0	0	0	0	0	0	0	0	0	0	0	0
		2	2	2	2	2	2	2	2	2	2	2	2	2
<b>Flat Rate (per customer)</b>														
Minumum	\$15.48	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Consumption (per ccf)</b>														
Per ccf	\$1.51	18,316	21,759	16,475	18,419	8,610	12,762	12,642	18,301	8,939	19,031	20,955	23,143	199,352
<b>Revenues</b>														
Meter Charge		\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$76	\$907
Flat Rate		0	0	0	0	0	0	0	0	0	0	0	0	0
Water Consumption Charge		27,657	32,856	24,877	27,813	13,001	19,271	19,089	27,635	13,498	28,737	31,642	34,946	301,022
<b>Total Revenue</b>		\$27,733	\$32,932	\$24,953	\$27,888	\$13,077	\$19,346	\$19,165	\$27,710	\$13,573	\$28,812	\$31,718	\$35,021	\$301,928

<b>LANDSCAPE</b>		<b>Aug-07</b>	<b>Sep-07</b>	<b>Oct-07</b>	<b>Nov-07</b>	<b>Dec-07</b>	<b>Jan-08</b>	<b>Feb-08</b>	<b>Mar-08</b>	<b>Apr-08</b>	<b>May-08</b>	<b>Jun-08</b>	<b>Jul-08</b>	<b>Total</b>
<b>Meter Rate</b>														
<u>Meter Size</u>	<u>Mo. Rate</u>													
3/4"	\$1.90	0	0	0	0	0	0	0	0	0	0	0	0	0
1"	3.79	56	56	56	56	56	56	56	56	56	56	56	56	56
1 1/2"	7.55	59	59	59	59	59	59	59	59	59	59	59	59	59
2"	11.34	88	88	88	88	88	88	88	88	88	88	88	88	88
3"	22.66	10	10	10	10	10	10	10	10	10	10	10	10	10
4"	37.78	5	5	5	5	5	5	5	5	5	5	5	5	5
6"	75.55	2	2	2	2	2	2	2	2	2	2	2	2	2
		220	220	220	220	220	220	220	220	220	220	220	220	220
<b>Flat Rate (per customer)</b>														
Minumum	\$15.48	6	6	6	6	6	6	6	6	6	6	6	6	6
<b>Consumption (per ccf)</b>														
Per ccf	\$1.51	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	267,582
<b>Revenues</b>														
Meter Charge		\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$2,222	\$26,667
Flat Rate		93	93	93	93	93	93	93	93	93	93	93	93	1,115
Water Consumption Charge		33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	404,048
<b>Total Revenue</b>		\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$35,986	\$431,829

**CITY OF WOODLAND  
WATER REVENUE REQUIREMENT STUDY  
EXHIBIT 19  
REVENUE AT PRESENT RATES**

SUMMARY	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Total
<b>Number of Metered Customers</b>													
Residential	0	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	234	234	234	234	234	234	234	234	234	234	234	234	234
Commercial	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080
Institutional	80	80	80	80	80	80	80	80	80	80	80	80	80
Large Uniform Users	2	2	2	2	2	2	2	2	2	2	2	2	2
Landscape	220	220	220	220	220	220	220	220	220	220	220	220	220
City	17	17	17	17	17	17	17	17	17	17	17	17	17
<b>Total</b>	<b>1,633</b>												
<b>Number of Flat Rate Customers</b>													
Residential	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090	13,090
Multi-Family	518	518	518	518	518	518	518	518	518	518	518	518	518
Commercial	66	66	66	66	66	66	66	66	66	66	66	66	66
Institutional	17	17	17	17	17	17	17	17	17	17	17	17	17
Large Uniform Users	0	0	0	0	0	0	0	0	0	0	0	0	0
Landscape	6	6	6	6	6	6	6	6	6	6	6	6	6
City	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>13,697</b>												
<b>Consumption (per ccf)</b>													
Residential	437,282	537,347	159,505	270,349	154,551	152,856	97,007	153,674	253,274	262,162	341,437	367,874	3,187,319
Multi-Family	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	26,790	321,479
Commercial	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	41,119	493,433
Institutional	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	9,642	115,701
Large Uniform Users	18,316	21,759	16,475	18,419	8,610	12,762	12,642	18,301	8,939	19,031	20,955	23,143	199,352
Landscape	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	22,298	267,582
City	3,788	3,788	3,310	1,758	1,758	1,758	1,758	1,758	1,758	3,788	3,310	1,758	30,290
<b>Total</b>	<b>559,236</b>	<b>662,743</b>	<b>279,140</b>	<b>390,376</b>	<b>264,769</b>	<b>267,225</b>	<b>211,257</b>	<b>273,582</b>	<b>363,821</b>	<b>384,831</b>	<b>465,551</b>	<b>492,625</b>	<b>4,615,156</b>
<b>Revenues</b>													
Residential	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$318,205	\$3,818,454
Multi-Family	53,096	53,096	53,096	53,096	53,096	53,096	53,096	53,096	53,096	53,096	53,096	53,096	637,158
Commercial	72,942	72,942	72,942	72,942	72,942	72,942	72,942	72,942	72,942	72,942	72,942	72,942	875,308
Institutional	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	16,063	192,761
Large Uniform Users	27,733	32,932	24,953	27,888	13,077	19,346	19,165	27,710	13,573	28,812	31,718	35,021	301,928
Landscape	35,986	35,986	35,986	35,986	35,986	35,986	35,986	35,986	35,986	35,986	35,986	35,986	431,829
City	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>524,025</b>	<b>529,224</b>	<b>521,245</b>	<b>524,181</b>	<b>509,369</b>	<b>515,639</b>	<b>515,457</b>	<b>524,003</b>	<b>509,866</b>	<b>525,105</b>	<b>528,010</b>	<b>531,314</b>	<b>6,257,438</b>

FY 08/09 Budget (Service Charges) **\$6,448,900**  
Difference \$191,462  
% Difference 2.97%

TECHNICAL APPENDIX B  
RATE DESIGNS & BILL COMPARISONS

City of Woodland  
Water Bill Comparison  
Proposed Rates

	January 1, 2010 Rates				2010/2011 Rates				2011/2012 Rates				2012/2013 Rates				
	2008/09 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference		2010/11 Rates	Proposed Rates	Difference		2011/12 Rates	Proposed Rates	Difference		
			Amount	Percent			Amount	Percent			Amount	Percent			Amount	Percent	
<b>Residential</b>																	
Meter Rate																	
3/4"-2" Meter	N/A	\$14.00	N/A	N/A	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%	
3" Meter	N/A	\$26.30	N/A	N/A	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%	
4" Meter	N/A	\$43.80	N/A	N/A	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%	
6" Meter	N/A	\$87.50	N/A	N/A	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%	
Flat Rate																	
<5,000 SF	\$19.89	\$23.87	\$3.98	20.0%	\$23.87	\$28.65	\$4.78	20.0%	\$28.65	\$34.40	\$5.75	20.1%	\$34.40	\$41.30	\$6.90	20.1%	
5,000 - 10,000 SF	\$24.52	\$29.42	\$4.90	20.0%	\$29.42	\$35.30	\$5.88	20.0%	\$35.30	\$42.35	\$7.05	20.0%	\$42.35	\$50.80	\$8.45	20.0%	
>10,000 SF	\$28.95	\$34.74	\$5.79	20.0%	\$34.74	\$41.70	\$6.96	20.0%	\$41.70	\$50.05	\$8.35	20.0%	\$50.05	\$60.05	\$10.00	20.0%	
Consumption Charge \$/ccf																	
Block 1 - 0 to 12 ccf per month	N/A	\$0.97	N/A	N/A	\$0.97	\$1.19	\$0.22	22.7%	\$1.19	\$1.25	\$0.06	5.0%	\$1.25	\$1.50	\$0.25	20.0%	
Block 2 - 13-20 ccf per month	--	--	--	--	\$0.97	\$1.37	\$0.40	41.2%	\$1.37	\$1.50	\$0.13	9.5%	\$1.50	\$1.90	\$0.40	26.7%	
Block 3 - Over 20 ccf per month	--	--	--	--	--	--	--	--	\$1.37	\$1.90	\$0.53	38.7%	\$1.90	\$2.55	\$0.65	34.2%	
<b>Multi-Family</b>																	
Meter Rate																	
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%	
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%	
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%	
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%	
Flat Rate																	
\$20.05	\$24.05	\$4.00	20.0%	\$24.05	\$28.85	\$4.80	20.0%	\$28.85	\$34.60	\$5.75	19.9%	\$34.60	\$41.50	\$6.90	19.9%		
Consumption Charge \$/ccf	\$1.51	\$1.72	\$0.21	13.9%	\$1.72	\$2.00	\$0.28	16.3%	\$2.00	\$2.15	\$0.15	7.5%	\$2.15	\$2.35	\$0.20	9.3%	

City of Woodland  
Water Bill Comparison  
Proposed Rates

	January 1, 2010 Rates				2010/2011 Rates				2011/2012 Rates				2012/2013 Rates				
	2008/09 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference		2010/11 Rates	Proposed Rates	Difference		2011/12 Rates	Proposed Rates	Difference		
			Amount	Percent			Amount	Percent			Amount	Percent			Amount	Percent	
<b>Commercial</b>																	
Meter Rate																	
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%	
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%	
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%	
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%	
Consumption Charge \$/ccf	\$1.51	\$1.72	\$0.21	13.9%	\$1.72	\$2.00	\$0.28	16.3%	\$2.00	\$2.15	\$0.15	7.5%	\$2.15	\$2.35	\$0.20	9.3%	
<b>Institutional</b>																	
Meter Rate																	
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%	
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%	
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%	
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%	
Consumption Charge \$/ccf	\$1.51	\$1.72	\$0.21	13.9%	\$1.72	\$2.00	\$0.28	16.3%	\$2.00	\$2.15	\$0.15	7.5%	\$2.15	\$2.35	\$0.20	9.3%	
<b>Large Uniform User</b>																	
Meter Rate																	
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%	
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%	
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%	
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%	
Consumption Charge \$/ccf	\$1.51	\$1.70	\$0.19	12.6%	\$1.70	\$1.91	\$0.21	12.4%	\$1.91	\$2.10	\$0.19	9.9%	\$2.10	\$2.30	\$0.20	9.5%	

City of Woodland  
Water Bill Comparison  
Proposed Rates

	January 1, 2010 Rates				2010/2011 Rates				2011/2012 Rates				2012/2013 Rates			
	2008/09 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference		2010/11 Rates	Proposed Rates	Difference		2011/12 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent			Amount	Percent			Amount	Percent
<b>Landscape</b>																
Meter Rate																
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%
Flat Rate	\$15.48	\$18.60	\$3.12	20.2%	\$18.60	\$22.30	\$3.70	19.9%	\$22.30	\$26.75	\$4.45	20.0%	\$26.75	\$32.10	\$5.35	20.0%
Consumption Charge \$/ccf	\$1.51	\$1.75	\$0.24	15.9%	\$1.75	\$2.05	\$0.30	17.1%	\$2.05	\$2.35	\$0.30	14.6%	\$2.35	\$2.80	\$0.45	19.1%
<b>City</b>																
Meter Rate																
3/4"-2" Meter	\$11.34	\$14.00	\$2.66	23.5%	\$14.00	\$15.75	\$1.75	12.5%	\$15.75	\$20.00	\$4.25	27.0%	\$20.00	\$24.00	\$4.00	20.0%
3" Meter	\$22.66	\$26.30	\$3.64	16.1%	\$26.30	\$29.60	\$3.30	12.5%	\$29.60	\$37.60	\$8.00	27.0%	\$37.60	\$45.10	\$7.50	19.9%
4" Meter	\$37.78	\$43.80	\$6.02	15.9%	\$43.80	\$49.30	\$5.50	12.6%	\$49.30	\$62.60	\$13.30	27.0%	\$62.60	\$75.10	\$12.50	20.0%
6" Meter	\$75.55	\$87.50	\$11.95	15.8%	\$87.50	\$98.45	\$10.95	12.5%	\$98.45	\$125.00	\$26.55	27.0%	\$125.00	\$150.00	\$25.00	20.0%
Consumption Charge \$/ccf	\$1.51	\$1.72	\$0.21	13.9%	\$1.51	\$2.00	\$0.49	32.5%	\$2.00	\$2.15	\$0.15	7.5%	\$2.15	\$2.35	\$0.20	9.3%

**CITY OF WOODLAND  
RESIDENTIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" or < Meter Customers				Water Rates for Flat Rate Customers			
	2008/09 Rates <sup>1</sup>	Proposed Rates	Difference		2008/09 Rates <sup>1</sup>	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$24.52	\$14.00	(\$10.52)	-42.9%	\$24.52	\$29.42	\$4.90	20.0%
1	24.52	14.97	(9.55)	-38.9%	24.52	29.42	4.90	20.0%
2	24.52	15.94	(8.58)	-35.0%	24.52	29.42	4.90	20.0%
3	24.52	16.91	(7.61)	-31.0%	24.52	29.42	4.90	20.0%
4	24.52	17.88	(6.64)	-27.1%	24.52	29.42	4.90	20.0%
5	24.52	18.85	(5.67)	-23.1%	24.52	29.42	4.90	20.0%
6	24.52	19.82	(4.70)	-19.2%	24.52	29.42	4.90	20.0%
7	24.52	20.79	(3.73)	-15.2%	24.52	29.42	4.90	20.0%
8	24.52	21.76	(2.76)	-11.3%	24.52	29.42	4.90	20.0%
9	24.52	22.73	(1.79)	-7.3%	24.52	29.42	4.90	20.0%
10	24.52	23.70	(0.82)	-3.3%	24.52	29.42	4.90	20.0%
12	24.52	25.64	1.12	4.6%	24.52	29.42	4.90	20.0%
14	24.52	27.58	3.06	12.5%	24.52	29.42	4.90	20.0%
16	24.52	29.52	5.00	20.4%	24.52	29.42	4.90	20.0%
18	24.52	31.46	6.94	28.3%	24.52	29.42	4.90	20.0%
20	24.52	33.40	8.88	36.2%	24.52	29.42	4.90	20.0%
22	24.52	35.34	10.82	44.1%	24.52	29.42	4.90	20.0%
24	24.52	37.28	12.76	52.0%	24.52	29.42	4.90	20.0%
26	24.52	39.22	14.70	60.0%	24.52	29.42	4.90	20.0%
28	24.52	41.16	16.64	67.9%	24.52	29.42	4.90	20.0%
30	24.52	43.10	18.58	75.8%	24.52	29.42	4.90	20.0%
35	24.52	47.95	23.43	95.6%	24.52	29.42	4.90	20.0%
40	24.52	52.80	28.28	115.3%	24.52	29.42	4.90	20.0%
50	24.52	62.50	37.98	154.9%	24.52	29.42	4.90	20.0%
60	24.52	72.20	47.68	194.5%	24.52	29.42	4.90	20.0%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**

Per Customer \$0.00

**Flat Rate (monthly)**

<5,000 SF (per customer) \$19.89  
5,000 - 10,000 SF (per customer) 24.52  
>10,000 SF (per customer) 28.95

**Commodity Charge (per ccf)**

All Consumption \$0.00

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Flat Rate (monthly)**

<5,000 SF (per customer) \$23.87  
5,000 - 10,000 SF (per customer) 29.42  
>10,000 SF (per customer) 34.74

**Commodity Charge (per ccf)**

All Consumption \$0.97

NOTES:

1. Present rates are based on a fixed rate for 5,000-10,000 sf lot.

**CITY OF WOODLAND  
RESIDENTIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" or < Meter Customers				Water Rates for Flat Rate Customers			
	2009/10 Rates	Proposed Rates	Difference		2009/10 Rates <sup>1</sup>	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%	\$29.42	\$35.30	\$5.88	20.0%
1	14.97	16.94	1.97	13.2%	29.42	35.30	5.88	20.0%
2	15.94	18.13	2.19	13.7%	29.42	35.30	5.88	20.0%
3	16.91	19.32	2.41	14.3%	29.42	35.30	5.88	20.0%
4	17.88	20.51	2.63	14.7%	29.42	35.30	5.88	20.0%
5	18.85	21.70	2.85	15.1%	29.42	35.30	5.88	20.0%
6	19.82	22.89	3.07	15.5%	29.42	35.30	5.88	20.0%
7	20.79	24.08	3.29	15.8%	29.42	35.30	5.88	20.0%
8	21.76	25.27	3.51	16.1%	29.42	35.30	5.88	20.0%
9	22.73	26.46	3.73	16.4%	29.42	35.30	5.88	20.0%
10	23.70	27.65	3.95	16.7%	29.42	35.30	5.88	20.0%
12	25.64	30.03	4.39	17.1%	29.42	35.30	5.88	20.0%
14	27.58	32.77	5.19	18.8%	29.42	35.30	5.88	20.0%
16	29.52	35.51	5.99	20.3%	29.42	35.30	5.88	20.0%
18	31.46	38.25	6.79	21.6%	29.42	35.30	5.88	20.0%
20	33.40	40.99	7.59	22.7%	29.42	35.30	5.88	20.0%
22	35.34	43.73	8.39	23.7%	29.42	35.30	5.88	20.0%
24	37.28	46.47	9.19	24.7%	29.42	35.30	5.88	20.0%
26	39.22	49.21	9.99	25.5%	29.42	35.30	5.88	20.0%
28	41.16	51.95	10.79	26.2%	29.42	35.30	5.88	20.0%
30	43.10	54.69	11.59	26.9%	29.42	35.30	5.88	20.0%
35	47.95	61.54	13.59	28.3%	29.42	35.30	5.88	20.0%
40	52.80	68.39	15.59	29.5%	29.42	35.30	5.88	20.0%
50	62.50	82.09	19.59	31.3%	29.42	35.30	5.88	20.0%
60	72.20	95.79	23.59	32.7%	29.42	35.30	5.88	20.0%

Monthly Ave.

**2009/2010 RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Flat Rate (monthly)**

<5,000 SF (per customer) \$23.87  
5,000 - 10,000 SF (per customer) 29.42  
>10,000 SF (per customer) 34.74

**Commodity Charge (per ccf)**

All Consumption \$0.97

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$15.75

**Flat Rate (monthly)**

<5,000 SF (per customer) \$28.65  
5,000 - 10,000 SF (per customer) 35.30  
>10,000 SF (per customer) 41.70

**Commodity Charge (per ccf)**

Block 1 - 0 to 12 ccf per month \$1.19  
Block 2 - Over 12 ccf per month 1.37

NOTES:

1. Present flat rates are based on a fixed rate for 5,000-10,000 sf lot.

**CITY OF WOODLAND  
RESIDENTIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" or < Meter Customers				Water Rates for Flat Rate Customers			
	2010/11 Rates	Proposed Rates	Difference		2010/11 Rates <sup>1</sup>	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%	\$35.30	\$42.35	\$7.05	20.0%
1	16.94	21.25	4.31	25.4%	35.30	42.35	7.05	20.0%
2	18.13	22.50	4.37	24.1%	35.30	42.35	7.05	20.0%
3	19.32	23.75	4.43	22.9%	35.30	42.35	7.05	20.0%
4	20.51	25.00	4.49	21.9%	35.30	42.35	7.05	20.0%
5	21.70	26.25	4.55	21.0%	35.30	42.35	7.05	20.0%
6	22.89	27.50	4.61	20.1%	35.30	42.35	7.05	20.0%
7	24.08	28.75	4.67	19.4%	35.30	42.35	7.05	20.0%
8	25.27	30.00	4.73	18.7%	35.30	42.35	7.05	20.0%
9	26.46	31.25	4.79	18.1%	35.30	42.35	7.05	20.0%
10	27.65	32.50	4.85	17.5%	35.30	42.35	7.05	20.0%
12	30.03	35.00	4.97	16.6%	35.30	42.35	7.05	20.0%
14	32.77	38.00	5.23	16.0%	35.30	42.35	7.05	20.0%
16	35.51	41.00	5.49	15.5%	35.30	42.35	7.05	20.0%
18	38.25	44.00	5.75	15.0%	35.30	42.35	7.05	20.0%
20	40.99	47.00	6.01	14.7%	35.30	42.35	7.05	20.0%
22	43.73	50.80	7.07	16.2%	35.30	42.35	7.05	20.0%
24	46.47	54.60	8.13	17.5%	35.30	42.35	7.05	20.0%
26	49.21	58.40	9.19	18.7%	35.30	42.35	7.05	20.0%
28	51.95	62.20	10.25	19.7%	35.30	42.35	7.05	20.0%
30	54.69	66.00	11.31	20.7%	35.30	42.35	7.05	20.0%
35	61.54	75.50	13.96	22.7%	35.30	42.35	7.05	20.0%
40	68.39	85.00	16.61	24.3%	35.30	42.35	7.05	20.0%
50	82.09	104.00	21.91	26.7%	35.30	42.35	7.05	20.0%
60	95.79	123.00	27.21	28.4%	35.30	42.35	7.05	20.0%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**

Per Customer \$15.75

**Flat Rate (monthly)**

<5,000 SF (per customer) \$28.65  
5,000 - 10,000 SF (per customer) 35.30  
>10,000 SF (per customer) 41.70

**Commodity Charge (per ccf)**

Block 1 - 0 to 12 ccf per month \$1.19  
Block 2 - Over 12 ccf per month 1.37

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$20.00

**Flat Rate (monthly)**

<5,000 SF (per customer) \$34.40  
5,000 - 10,000 SF (per customer) 42.35  
>10,000 SF (per customer) 50.05

**Commodity Charge (per ccf)**

Block 1 - 0 to 12 ccf per month \$1.25  
Block 2 - 13-20 ccf per month 1.50  
Block 3 - Over 20 ccf per month 1.90

NOTES:

1. Present flat rates are based on a fixed rate for 5,000-10,000 sf lot.

**CITY OF WOODLAND  
RESIDENTIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2012)**

Monthly Use (ccf)	Water Rates for 2" or < Meter Customers				Water Rates for Flat Rate Customers			
	2011/12 Rates	Proposed Rates	Difference		2011/12 Rates <sup>1</sup>	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%	\$42.35	\$50.80	\$8.45	20.0%
1	21.25	25.50	4.25	20.0%	42.35	50.80	8.45	20.0%
2	22.50	27.00	4.50	20.0%	42.35	50.80	8.45	20.0%
3	23.75	28.50	4.75	20.0%	42.35	50.80	8.45	20.0%
4	25.00	30.00	5.00	20.0%	42.35	50.80	8.45	20.0%
5	26.25	31.50	5.25	20.0%	42.35	50.80	8.45	20.0%
6	27.50	33.00	5.50	20.0%	42.35	50.80	8.45	20.0%
7	28.75	34.50	5.75	20.0%	42.35	50.80	8.45	20.0%
8	30.00	36.00	6.00	20.0%	42.35	50.80	8.45	20.0%
9	31.25	37.50	6.25	20.0%	42.35	50.80	8.45	20.0%
10	32.50	39.00	6.50	20.0%	42.35	50.80	8.45	20.0%
12	35.00	42.00	7.00	20.0%	42.35	50.80	8.45	20.0%
14	38.00	45.80	7.80	20.5%	42.35	50.80	8.45	20.0%
16	41.00	49.60	8.60	21.0%	42.35	50.80	8.45	20.0%
18	44.00	53.40	9.40	21.4%	42.35	50.80	8.45	20.0%
20	47.00	57.20	10.20	21.7%	42.35	50.80	8.45	20.0%
22	50.80	62.30	11.50	22.6%	42.35	50.80	8.45	20.0%
24	54.60	67.40	12.80	23.4%	42.35	50.80	8.45	20.0%
26	58.40	72.50	14.10	24.1%	42.35	50.80	8.45	20.0%
28	62.20	77.60	15.40	24.8%	42.35	50.80	8.45	20.0%
30	66.00	82.70	16.70	25.3%	42.35	50.80	8.45	20.0%
35	75.50	95.45	19.95	26.4%	42.35	50.80	8.45	20.0%
40	85.00	108.20	23.20	27.3%	42.35	50.80	8.45	20.0%
50	104.00	133.70	29.70	28.6%	42.35	50.80	8.45	20.0%
60	123.00	159.20	36.20	29.4%	42.35	50.80	8.45	20.0%

Monthly Ave.

**2011/2012 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$20.00

**Flat Rate (monthly)**  
<5,000 SF (per customer) \$34.40  
5,000 - 10,000 SF (per customer) 42.35  
>10,000 SF (per customer) 50.05

**Commodity Charge (per ccf)**  
Block 1 - 0 to 12 ccf per month \$1.25  
Block 2 - Over 12 ccf per month 1.50  
Block 3 - Over 20 ccf per month 1.90

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$24.00

**Flat Rate (monthly)**  
<5,000 SF (per customer) \$41.30  
5,000 - 10,000 SF (per customer) 50.80  
>10,000 SF (per customer) 60.05

**Commodity Charge (per ccf)**  
Block 1 - 0 to 12 ccf per month \$1.50  
Block 2 - 13-20 ccf per month 1.90  
Block 3 - Over 20 ccf per month 2.55

**NOTES:**

1. Present flat rates are based on a fixed rate for 5,000-10,000 sf lot.

**CITY OF WOODLAND  
MULTI-FAMILY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2008/09 Rates	Proposed Rates	Difference		2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%	\$20.05	\$24.05	\$4.00	20.0%
5	18.89	22.60	3.71	19.6%	20.05	24.05	4.00	20.0%
10	26.44	31.20	4.76	18.0%	20.05	24.05	4.00	20.0%
15	33.99	39.80	5.81	17.1%	20.05	24.05	4.00	20.0%
20	41.54	48.40	6.86	16.5%	20.05	24.05	4.00	20.0%
25	49.09	57.00	7.91	16.1%	20.05	24.05	4.00	20.0%
30	56.64	65.60	8.96	15.8%	20.05	24.05	4.00	20.0%
35	64.19	74.20	10.01	15.6%	20.05	24.05	4.00	20.0%
40	71.74	82.80	11.06	15.4%	20.05	24.05	4.00	20.0%
45	79.29	91.40	12.11	15.3%	20.05	24.05	4.00	20.0%
50	86.84	100.00	13.16	15.2%	20.05	24.05	4.00	20.0%
75	124.59	143.00	18.41	14.8%	20.05	24.05	4.00	20.0%
85	139.69	160.20	20.51	14.7%	20.05	24.05	4.00	20.0%
90	147.24	168.80	21.56	14.6%	20.05	24.05	4.00	20.0%
95	154.79	177.40	22.61	14.6%	20.05	24.05	4.00	20.0%
100	162.34	186.00	23.66	14.6%	20.05	24.05	4.00	20.0%
105	169.89	194.60	24.71	14.5%	20.05	24.05	4.00	20.0%
110	177.44	203.20	25.76	14.5%	20.05	24.05	4.00	20.0%
115	184.99	211.80	26.81	14.5%	20.05	24.05	4.00	20.0%
120	192.54	220.40	27.86	14.5%	20.05	24.05	4.00	20.0%
125	200.09	229.00	28.91	14.4%	20.05	24.05	4.00	20.0%
130	207.64	237.60	29.96	14.4%	20.05	24.05	4.00	20.0%
135	215.19	246.20	31.01	14.4%	20.05	24.05	4.00	20.0%
140	222.74	254.80	32.06	14.4%	20.05	24.05	4.00	20.0%
145	230.29	263.40	33.11	14.4%	20.05	24.05	4.00	20.0%

Monthly Ave.

**PRESENT (2008/2009) RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$11.34
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$1.51
<b>Flat Rate (monthly)</b>	
Per Customer	\$20.05

**PROPOSED RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$14.00
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$1.72
<b>Flat Rate (monthly)</b>	
Per Customer	\$24.05

**CITY OF WOODLAND  
MULTI-FAMILY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2009/10 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%	\$24.05	\$28.85	\$4.80	20.0%
10	31.20	35.75	4.55	14.6%	24.05	28.85	4.80	20.0%
20	48.40	55.75	7.35	15.2%	24.05	28.85	4.80	20.0%
30	65.60	75.75	10.15	15.5%	24.05	28.85	4.80	20.0%
40	82.80	95.75	12.95	15.6%	24.05	28.85	4.80	20.0%
50	100.00	115.75	15.75	15.8%	24.05	28.85	4.80	20.0%
55	108.60	125.75	17.15	15.8%	24.05	28.85	4.80	20.0%
60	117.20	135.75	18.55	15.8%	24.05	28.85	4.80	20.0%
65	125.80	145.75	19.95	15.9%	24.05	28.85	4.80	20.0%
70	134.40	155.75	21.35	15.9%	24.05	28.85	4.80	20.0%
75	143.00	165.75	22.75	15.9%	24.05	28.85	4.80	20.0%
80	151.60	175.75	24.15	15.9%	24.05	28.85	4.80	20.0%
85	160.20	185.75	25.55	15.9%	24.05	28.85	4.80	20.0%
90	168.80	195.75	26.95	16.0%	24.05	28.85	4.80	20.0%
95	177.40	205.75	28.35	16.0%	24.05	28.85	4.80	20.0%
100	186.00	215.75	29.75	16.0%	24.05	28.85	4.80	20.0%
105	194.60	225.75	31.15	16.0%	24.05	28.85	4.80	20.0%
110	203.20	235.75	32.55	16.0%	24.05	28.85	4.80	20.0%
115	211.80	245.75	33.95	16.0%	24.05	28.85	4.80	20.0%
120	220.40	255.75	35.35	16.0%	24.05	28.85	4.80	20.0%
125	229.00	265.75	36.75	16.0%	24.05	28.85	4.80	20.0%
130	237.60	275.75	38.15	16.1%	24.05	28.85	4.80	20.0%
135	246.20	285.75	39.55	16.1%	24.05	28.85	4.80	20.0%
140	254.80	295.75	40.95	16.1%	24.05	28.85	4.80	20.0%
145	263.40	305.75	42.35	16.1%	24.05	28.85	4.80	20.0%

Monthly Ave.

<b>2009/2010 RATES</b>	
<b>2" Meter Charge (monthly)</b>	
Per Customer	\$14.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$24.05
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$1.72

<b>PROPOSED RATES</b>	
<b>2" Meter Charge (monthly)</b>	
Per Customer	\$15.75
<b>Flat Rate (monthly)</b>	
Per Customer	\$28.85
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.00

**CITY OF WOODLAND  
MULTI-FAMILY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2010/11 Rates	Proposed Rates	Difference		2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%	\$28.85	\$34.60	\$5.75	19.9%
10	35.75	41.50	5.75	16.1%	28.85	34.60	5.75	19.9%
20	55.75	63.00	7.25	13.0%	28.85	34.60	5.75	19.9%
30	75.75	84.50	8.75	11.6%	28.85	34.60	5.75	19.9%
40	95.75	106.00	10.25	10.7%	28.85	34.60	5.75	19.9%
50	115.75	127.50	11.75	10.2%	28.85	34.60	5.75	19.9%
55	125.75	138.25	12.50	9.9%	28.85	34.60	5.75	19.9%
60	135.75	149.00	13.25	9.8%	28.85	34.60	5.75	19.9%
65	145.75	159.75	14.00	9.6%	28.85	34.60	5.75	19.9%
70	155.75	170.50	14.75	9.5%	28.85	34.60	5.75	19.9%
75	165.75	181.25	15.50	9.4%	28.85	34.60	5.75	19.9%
80	175.75	192.00	16.25	9.2%	28.85	34.60	5.75	19.9%
85	185.75	202.75	17.00	9.2%	28.85	34.60	5.75	19.9%
90	195.75	213.50	17.75	9.1%	28.85	34.60	5.75	19.9%
95	205.75	224.25	18.50	9.0%	28.85	34.60	5.75	19.9%
100	215.75	235.00	19.25	8.9%	28.85	34.60	5.75	19.9%
105	225.75	245.75	20.00	8.9%	28.85	34.60	5.75	19.9%
110	235.75	256.50	20.75	8.8%	28.85	34.60	5.75	19.9%
115	245.75	267.25	21.50	8.7%	28.85	34.60	5.75	19.9%
120	255.75	278.00	22.25	8.7%	28.85	34.60	5.75	19.9%
125	265.75	288.75	23.00	8.7%	28.85	34.60	5.75	19.9%
130	275.75	299.50	23.75	8.6%	28.85	34.60	5.75	19.9%
135	285.75	310.25	24.50	8.6%	28.85	34.60	5.75	19.9%
140	295.75	321.00	25.25	8.5%	28.85	34.60	5.75	19.9%
145	305.75	331.75	26.00	8.5%	28.85	34.60	5.75	19.9%

Monthly Ave.

<b>2010/2011 RATES</b>	
<b>2" Meter Charge (monthly)</b>	
Per Customer	\$15.75
<b>Flat Rate (monthly)</b>	
Per Customer	\$28.85
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.00

<b>PROPOSED RATES</b>	
<b>2" Meter Charge (monthly)</b>	
Per Customer	\$20.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$34.60
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.15

**CITY OF WOODLAND  
MULTI-FAMILY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2013)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2010/11 Rates	Proposed Rates	Difference		2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%	\$34.60	\$41.50	\$6.90	19.9%
10	41.50	47.50	6.00	14.5%	34.60	41.50	6.90	19.9%
20	63.00	71.00	8.00	12.7%	34.60	41.50	6.90	19.9%
30	84.50	94.50	10.00	11.8%	34.60	41.50	6.90	19.9%
40	106.00	118.00	12.00	11.3%	34.60	41.50	6.90	19.9%
50	127.50	141.50	14.00	11.0%	34.60	41.50	6.90	19.9%
55	138.25	153.25	15.00	10.8%	34.60	41.50	6.90	19.9%
60	149.00	165.00	16.00	10.7%	34.60	41.50	6.90	19.9%
65	159.75	176.75	17.00	10.6%	34.60	41.50	6.90	19.9%
70	170.50	188.50	18.00	10.6%	34.60	41.50	6.90	19.9%
75	181.25	200.25	19.00	10.5%	34.60	41.50	6.90	19.9%
80	192.00	212.00	20.00	10.4%	34.60	41.50	6.90	19.9%
85	202.75	223.75	21.00	10.4%	34.60	41.50	6.90	19.9%
90	213.50	235.50	22.00	10.3%	34.60	41.50	6.90	19.9%
95	224.25	247.25	23.00	10.3%	34.60	41.50	6.90	19.9%
100	235.00	259.00	24.00	10.2%	34.60	41.50	6.90	19.9%
105	245.75	270.75	25.00	10.2%	34.60	41.50	6.90	19.9%
110	256.50	282.50	26.00	10.1%	34.60	41.50	6.90	19.9%
115	267.25	294.25	27.00	10.1%	34.60	41.50	6.90	19.9%
120	278.00	306.00	28.00	10.1%	34.60	41.50	6.90	19.9%
125	288.75	317.75	29.00	10.0%	34.60	41.50	6.90	19.9%
130	299.50	329.50	30.00	10.0%	34.60	41.50	6.90	19.9%
135	310.25	341.25	31.00	10.0%	34.60	41.50	6.90	19.9%
140	321.00	353.00	32.00	10.0%	34.60	41.50	6.90	19.9%
145	331.75	364.75	33.00	9.9%	34.60	41.50	6.90	19.9%

Monthly Ave.

**2010/2011 RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$20.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$34.60
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.15

**PROPOSED RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$24.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$41.50
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.35

**CITY OF WOODLAND  
COMMERCIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%
5	18.89	22.60	3.71	19.6%
10	26.44	31.20	4.76	18.0%
15	33.99	39.80	5.81	17.1%
20	41.54	48.40	6.86	16.5%
25	49.09	57.00	7.91	16.1%
30	56.64	65.60	8.96	15.8%
35	64.19	74.20	10.01	15.6%
40	71.74	82.80	11.06	15.4%
45	79.29	91.40	12.11	15.3%
50	86.84	100.00	13.16	15.2%
55	94.39	108.60	14.21	15.1%
60	101.94	117.20	15.26	15.0%
65	109.49	125.80	16.31	14.9%
70	117.04	134.40	17.36	14.8%
75	124.59	143.00	18.41	14.8%
80	132.14	151.60	19.46	14.7%
85	139.69	160.20	20.51	14.7%
90	147.24	168.80	21.56	14.6%
95	154.79	177.40	22.61	14.6%
100	162.34	186.00	23.66	14.6%
105	169.89	194.60	24.71	14.5%
110	177.44	203.20	25.76	14.5%
115	184.99	211.80	26.81	14.5%
120	192.54	220.40	27.86	14.5%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**

Per Customer \$11.34

**Commodity Charge (per ccf)**

All Consumption \$1.51

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Commodity Charge (per ccf)**

All Consumption \$1.72

**CITY OF WOODLAND  
COMMERCIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%
5	22.60	25.75	3.15	13.9%
10	31.20	35.75	4.55	14.6%
15	39.80	45.75	5.95	14.9%
20	48.40	55.75	7.35	15.2%
25	57.00	65.75	8.75	15.4%
30	65.60	75.75	10.15	15.5%
35	74.20	85.75	11.55	15.6%
40	82.80	95.75	12.95	15.6%
45	91.40	105.75	14.35	15.7%
50	100.00	115.75	15.75	15.8%
55	108.60	125.75	17.15	15.8%
60	117.20	135.75	18.55	15.8%
65	125.80	145.75	19.95	15.9%
70	134.40	155.75	21.35	15.9%
75	143.00	165.75	22.75	15.9%
80	151.60	175.75	24.15	15.9%
85	160.20	185.75	25.55	15.9%
90	168.80	195.75	26.95	16.0%
95	177.40	205.75	28.35	16.0%
100	186.00	215.75	29.75	16.0%
105	194.60	225.75	31.15	16.0%
110	203.20	235.75	32.55	16.0%
115	211.80	245.75	33.95	16.0%
120	220.40	255.75	35.35	16.0%

Monthly Ave.

**2009/2010 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$14.00

**Commodity Charge (per ccf)**  
All Consumption \$1.72

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$15.75

**Commodity Charge (per ccf)**  
All Consumption \$2.00

**CITY OF WOODLAND  
COMMERCIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%
5	25.75	30.75	5.00	19.4%
10	35.75	41.50	5.75	16.1%
15	45.75	52.25	6.50	14.2%
20	55.75	63.00	7.25	13.0%
25	65.75	73.75	8.00	12.2%
30	75.75	84.50	8.75	11.6%
35	85.75	95.25	9.50	11.1%
40	95.75	106.00	10.25	10.7%
45	105.75	116.75	11.00	10.4%
50	115.75	127.50	11.75	10.2%
55	125.75	138.25	12.50	9.9%
60	135.75	149.00	13.25	9.8%
65	145.75	159.75	14.00	9.6%
70	155.75	170.50	14.75	9.5%
75	165.75	181.25	15.50	9.4%
80	175.75	192.00	16.25	9.2%
85	185.75	202.75	17.00	9.2%
90	195.75	213.50	17.75	9.1%
95	205.75	224.25	18.50	9.0%
100	215.75	235.00	19.25	8.9%
105	225.75	245.75	20.00	8.9%
110	235.75	256.50	20.75	8.8%
115	245.75	267.25	21.50	8.7%
120	255.75	278.00	22.25	8.7%

Monthly Ave.

**20010/2011 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$15.75

**Commodity Charge (per ccf)**  
All Consumption \$2.00

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$20.00

**Commodity Charge (per ccf)**  
All Consumption \$2.15

**CITY OF WOODLAND  
COMMERCIAL BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2013)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%
5	30.75	35.75	5.00	16.3%
10	41.50	47.50	6.00	14.5%
15	52.25	59.25	7.00	13.4%
20	63.00	71.00	8.00	12.7%
25	73.75	82.75	9.00	12.2%
30	84.50	94.50	10.00	11.8%
35	95.25	106.25	11.00	11.5%
40	106.00	118.00	12.00	11.3%
45	116.75	129.75	13.00	11.1%
50	127.50	141.50	14.00	11.0%
55	138.25	153.25	15.00	10.8%
60	149.00	165.00	16.00	10.7%
65	159.75	176.75	17.00	10.6%
70	170.50	188.50	18.00	10.6%
75	181.25	200.25	19.00	10.5%
80	192.00	212.00	20.00	10.4%
85	202.75	223.75	21.00	10.4%
90	213.50	235.50	22.00	10.3%
95	224.25	247.25	23.00	10.3%
100	235.00	259.00	24.00	10.2%
105	245.75	270.75	25.00	10.2%
110	256.50	282.50	26.00	10.1%
115	267.25	294.25	27.00	10.1%
120	278.00	306.00	28.00	10.1%

Monthly Ave.

**2010/2011 RATES**

<b><u>2" Meter Charge (monthly)</u></b>	
Per Customer	\$20.00
<b><u>Commodity Charge (per ccf)</u></b>	
All Consumption	\$2.15

**PROPOSED RATES**

<b><u>2" Meter Charge (monthly)</u></b>	
Per Customer	\$24.00
<b><u>Commodity Charge (per ccf)</u></b>	
All Consumption	\$2.35

**CITY OF WOODLAND  
 INSTITUTIONAL BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%
5	18.89	22.60	3.71	19.6%
10	26.44	31.20	4.76	18.0%
15	33.99	39.80	5.81	17.1%
20	41.54	48.40	6.86	16.5%
30	56.64	65.60	8.96	15.8%
40	71.74	82.80	11.06	15.4%
50	86.84	100.00	13.16	15.2%
60	101.94	117.20	15.26	15.0%
70	117.04	134.40	17.36	14.8%
80	132.14	151.60	19.46	14.7%
100	162.34	186.00	23.66	14.6%
120	192.54	220.40	27.86	14.5%
125	200.09	229.00	28.91	14.4%
150	237.84	272.00	34.16	14.4%
175	275.59	315.00	39.41	14.3%
200	313.34	358.00	44.66	14.3%
225	351.09	401.00	49.91	14.2%
250	388.84	444.00	55.16	14.2%
275	426.59	487.00	60.41	14.2%
300	464.34	530.00	65.66	14.1%
325	502.09	573.00	70.91	14.1%
350	539.84	616.00	76.16	14.1%
400	615.34	702.00	86.66	14.1%
500	766.34	874.00	107.66	14.0%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$11.34

**Commodity Charge (per ccf)**  
 All Consumption \$1.51

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$14.00

**Commodity Charge (per ccf)**  
 All Consumption \$1.72

**CITY OF WOODLAND  
 INSTITUTIONAL BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%
20	48.40	55.75	7.35	15.2%
40	82.80	95.75	12.95	15.6%
60	117.20	135.75	18.55	15.8%
80	151.60	175.75	24.15	15.9%
100	186.00	215.75	29.75	16.0%
120	220.40	255.75	35.35	16.0%
140	254.80	295.75	40.95	16.1%
160	289.20	335.75	46.55	16.1%
180	323.60	375.75	52.15	16.1%
200	358.00	415.75	57.75	16.1%
220	392.40	455.75	63.35	16.1%
240	426.80	495.75	68.95	16.2%
260	461.20	535.75	74.55	16.2%
280	495.60	575.75	80.15	16.2%
300	530.00	615.75	85.75	16.2%
320	564.40	655.75	91.35	16.2%
340	598.80	695.75	96.95	16.2%
360	633.20	735.75	102.55	16.2%
380	667.60	775.75	108.15	16.2%
400	702.00	815.75	113.75	16.2%
420	736.40	855.75	119.35	16.2%
440	770.80	895.75	124.95	16.2%
460	805.20	935.75	130.55	16.2%
480	839.60	975.75	136.15	16.2%

Monthly Ave.

**2009/2010 RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$14.00

**Commodity Charge (per ccf)**  
 All Consumption \$1.72

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$15.75

**Commodity Charge (per ccf)**  
 All Consumption \$2.00

**CITY OF WOODLAND  
 INSTITUTIONAL BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%
20	55.75	63.00	7.25	13.0%
40	95.75	106.00	10.25	10.7%
60	135.75	149.00	13.25	9.8%
80	175.75	192.00	16.25	9.2%
100	215.75	235.00	19.25	8.9%
120	255.75	278.00	22.25	8.7%
140	295.75	321.00	25.25	8.5%
160	335.75	364.00	28.25	8.4%
180	375.75	407.00	31.25	8.3%
200	415.75	450.00	34.25	8.2%
220	455.75	493.00	37.25	8.2%
240	495.75	536.00	40.25	8.1%
260	535.75	579.00	43.25	8.1%
280	575.75	622.00	46.25	8.0%
300	615.75	665.00	49.25	8.0%
320	655.75	708.00	52.25	8.0%
340	695.75	751.00	55.25	7.9%
360	735.75	794.00	58.25	7.9%
380	775.75	837.00	61.25	7.9%
400	815.75	880.00	64.25	7.9%
420	855.75	923.00	67.25	7.9%
440	895.75	966.00	70.25	7.8%
460	935.75	1,009.00	73.25	7.8%
480	975.75	1,052.00	76.25	7.8%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$15.75

**Commodity Charge (per ccf)**  
 All Consumption \$2.00

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$20.00

**Commodity Charge (per ccf)**  
 All Consumption \$2.15

**CITY OF WOODLAND  
 INSTITUTIONAL BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2013)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%
20	63.00	71.00	8.00	12.7%
40	106.00	118.00	12.00	11.3%
60	149.00	165.00	16.00	10.7%
80	192.00	212.00	20.00	10.4%
100	235.00	259.00	24.00	10.2%
120	278.00	306.00	28.00	10.1%
140	321.00	353.00	32.00	10.0%
160	364.00	400.00	36.00	9.9%
180	407.00	447.00	40.00	9.8%
200	450.00	494.00	44.00	9.8%
220	493.00	541.00	48.00	9.7%
240	536.00	588.00	52.00	9.7%
260	579.00	635.00	56.00	9.7%
280	622.00	682.00	60.00	9.6%
300	665.00	729.00	64.00	9.6%
320	708.00	776.00	68.00	9.6%
340	751.00	823.00	72.00	9.6%
360	794.00	870.00	76.00	9.6%
380	837.00	917.00	80.00	9.6%
400	880.00	964.00	84.00	9.5%
420	923.00	1,011.00	88.00	9.5%
440	966.00	1,058.00	92.00	9.5%
460	1,009.00	1,105.00	96.00	9.5%
480	1,052.00	1,152.00	100.00	9.5%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$20.00

**Commodity Charge (per ccf)**  
 All Consumption \$2.15

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
 Per Customer \$24.00

**Commodity Charge (per ccf)**  
 All Consumption \$2.35

**CITY OF WOODLAND  
LARGE UNIFORM USER BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%
500	766.34	864.00	97.66	12.7%
1,000	1,521.34	1,714.00	192.66	12.7%
1,500	2,276.34	2,564.00	287.66	12.6%
2,000	3,031.34	3,414.00	382.66	12.6%
2,500	3,786.34	4,264.00	477.66	12.6%
3,000	4,541.34	5,114.00	572.66	12.6%
3,500	5,296.34	5,964.00	667.66	12.6%
4,000	6,051.34	6,814.00	762.66	12.6%
4,500	6,806.34	7,664.00	857.66	12.6%
5,000	7,561.34	8,514.00	952.66	12.6%
5,500	8,316.34	9,364.00	1,047.66	12.6%
6,000	9,071.34	10,214.00	1,142.66	12.6%
6,500	9,826.34	11,064.00	1,237.66	12.6%
7,000	10,581.34	11,914.00	1,332.66	12.6%
7,500	11,336.34	12,764.00	1,427.66	12.6%
8,000	12,091.34	13,614.00	1,522.66	12.6%
<b>8,500</b>	<b>12,846.34</b>	<b>14,464.00</b>	<b>1,617.66</b>	<b>12.6%</b>
9,000	13,601.34	15,314.00	1,712.66	12.6%
9,500	14,356.34	16,164.00	1,807.66	12.6%
10,000	15,111.34	17,014.00	1,902.66	12.6%
10,500	15,866.34	17,864.00	1,997.66	12.6%
11,000	16,621.34	18,714.00	2,092.66	12.6%
11,500	17,376.34	19,564.00	2,187.66	12.6%
12,000	18,131.34	20,414.00	2,282.66	12.6%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**

Per Customer \$11.34

**Commodity Charge (per ccf)**

All Consumption \$1.51

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Commodity Charge (per ccf)**

All Consumption \$1.70

**CITY OF WOODLAND  
LARGE UNIFORM USER BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%
500	864.00	970.75	106.75	12.4%
1,000	1,714.00	1,925.75	211.75	12.4%
1,500	2,564.00	2,880.75	316.75	12.4%
2,000	3,414.00	3,835.75	421.75	12.4%
2,500	4,264.00	4,790.75	526.75	12.4%
3,000	5,114.00	5,745.75	631.75	12.4%
3,500	5,964.00	6,700.75	736.75	12.4%
4,000	6,814.00	7,655.75	841.75	12.4%
4,500	7,664.00	8,610.75	946.75	12.4%
5,000	8,514.00	9,565.75	1,051.75	12.4%
5,500	9,364.00	10,520.75	1,156.75	12.4%
6,000	10,214.00	11,475.75	1,261.75	12.4%
6,500	11,064.00	12,430.75	1,366.75	12.4%
7,000	11,914.00	13,385.75	1,471.75	12.4%
7,500	12,764.00	14,340.75	1,576.75	12.4%
8,000	13,614.00	15,295.75	1,681.75	12.4%
8,500	14,464.00	16,250.75	1,786.75	12.4%
9,000	15,314.00	17,205.75	1,891.75	12.4%
9,500	16,164.00	18,160.75	1,996.75	12.4%
10,000	17,014.00	19,115.75	2,101.75	12.4%
10,500	17,864.00	20,070.75	2,206.75	12.4%
11,000	18,714.00	21,025.75	2,311.75	12.4%
11,500	19,564.00	21,980.75	2,416.75	12.4%
12,000	20,414.00	22,935.75	2,521.75	12.4%

Monthly Ave.

**2009/2010 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$14.00

**Commodity Charge (per ccf)**  
All Consumption \$1.70

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$15.75

**Commodity Charge (per ccf)**  
All Consumption \$1.91

**CITY OF WOODLAND  
LARGE UNIFORM USER BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%
500	970.75	1,070.00	99.25	10.2%
1,000	1,925.75	2,120.00	194.25	10.1%
1,500	2,880.75	3,170.00	289.25	10.0%
2,000	3,835.75	4,220.00	384.25	10.0%
2,500	4,790.75	5,270.00	479.25	10.0%
3,000	5,745.75	6,320.00	574.25	10.0%
3,500	6,700.75	7,370.00	669.25	10.0%
4,000	7,655.75	8,420.00	764.25	10.0%
4,500	8,610.75	9,470.00	859.25	10.0%
5,000	9,565.75	10,520.00	954.25	10.0%
5,500	10,520.75	11,570.00	1,049.25	10.0%
6,000	11,475.75	12,620.00	1,144.25	10.0%
6,500	12,430.75	13,670.00	1,239.25	10.0%
7,000	13,385.75	14,720.00	1,334.25	10.0%
7,500	14,340.75	15,770.00	1,429.25	10.0%
8,000	15,295.75	16,820.00	1,524.25	10.0%
8,500	16,250.75	17,870.00	1,619.25	10.0%
9,000	17,205.75	18,920.00	1,714.25	10.0%
9,500	18,160.75	19,970.00	1,809.25	10.0%
10,000	19,115.75	21,020.00	1,904.25	10.0%
10,500	20,070.75	22,070.00	1,999.25	10.0%
11,000	21,025.75	23,120.00	2,094.25	10.0%
11,500	21,980.75	24,170.00	2,189.25	10.0%
12,000	22,935.75	25,220.00	2,284.25	10.0%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$15.75

**Commodity Charge (per ccf)**  
All Consumption \$1.91

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$20.00

**Commodity Charge (per ccf)**  
All Consumption \$2.10

**CITY OF WOODLAND  
LARGE UNIFORM USER BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2013)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%
500	1,070.00	1,174.00	104.00	9.7%
1,000	2,120.00	2,324.00	204.00	9.6%
1,500	3,170.00	3,474.00	304.00	9.6%
2,000	4,220.00	4,624.00	404.00	9.6%
2,500	5,270.00	5,774.00	504.00	9.6%
3,000	6,320.00	6,924.00	604.00	9.6%
3,500	7,370.00	8,074.00	704.00	9.6%
4,000	8,420.00	9,224.00	804.00	9.5%
4,500	9,470.00	10,374.00	904.00	9.5%
5,000	10,520.00	11,524.00	1,004.00	9.5%
5,500	11,570.00	12,674.00	1,104.00	9.5%
6,000	12,620.00	13,824.00	1,204.00	9.5%
6,500	13,670.00	14,974.00	1,304.00	9.5%
7,000	14,720.00	16,124.00	1,404.00	9.5%
7,500	15,770.00	17,274.00	1,504.00	9.5%
8,000	16,820.00	18,424.00	1,604.00	9.5%
8,500	17,870.00	19,574.00	1,704.00	9.5%
9,000	18,920.00	20,724.00	1,804.00	9.5%
9,500	19,970.00	21,874.00	1,904.00	9.5%
10,000	21,020.00	23,024.00	2,004.00	9.5%
10,500	22,070.00	24,174.00	2,104.00	9.5%
11,000	23,120.00	25,324.00	2,204.00	9.5%
11,500	24,170.00	26,474.00	2,304.00	9.5%
12,000	25,220.00	27,624.00	2,404.00	9.5%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$20.00

**Commodity Charge (per ccf)**  
All Consumption \$2.10

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$24.00

**Commodity Charge (per ccf)**  
All Consumption \$2.30

**CITY OF WOODLAND  
 LANDSCAPE BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2008/09 Rates	Proposed Rates	Difference		2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%	\$15.48	\$18.60	\$3.12	20.2%
5	18.89	22.75	3.86	20.4%	15.48	18.60	3.12	20.2%
10	26.44	31.50	5.06	19.1%	15.48	18.60	3.12	20.2%
15	33.99	40.25	6.26	18.4%	15.48	18.60	3.12	20.2%
20	41.54	49.00	7.46	18.0%	15.48	18.60	3.12	20.2%
25	49.09	57.75	8.66	17.6%	15.48	18.60	3.12	20.2%
30	56.64	66.50	9.86	17.4%	15.48	18.60	3.12	20.2%
40	71.74	84.00	12.26	17.1%	15.48	18.60	3.12	20.2%
45	79.29	92.75	13.46	17.0%	15.48	18.60	3.12	20.2%
50	86.84	101.50	14.66	16.9%	15.48	18.60	3.12	20.2%
55	94.39	110.25	15.86	16.8%	15.48	18.60	3.12	20.2%
60	101.94	119.00	17.06	16.7%	15.48	18.60	3.12	20.2%
65	109.49	127.75	18.26	16.7%	15.48	18.60	3.12	20.2%
70	117.04	136.50	19.46	16.6%	15.48	18.60	3.12	20.2%
75	124.59	145.25	20.66	16.6%	15.48	18.60	3.12	20.2%
80	132.14	154.00	21.86	16.5%	15.48	18.60	3.12	20.2%
85	139.69	162.75	23.06	16.5%	15.48	18.60	3.12	20.2%
90	147.24	171.50	24.26	16.5%	15.48	18.60	3.12	20.2%
95	154.79	180.25	25.46	16.4%	15.48	18.60	3.12	20.2%
100	162.34	189.00	26.66	16.4%	15.48	18.60	3.12	20.2%
105	169.89	197.75	27.86	16.4%	15.48	18.60	3.12	20.2%
110	177.44	206.50	29.06	16.4%	15.48	18.60	3.12	20.2%
115	184.99	215.25	30.26	16.4%	15.48	18.60	3.12	20.2%
120	192.54	224.00	31.46	16.3%	15.48	18.60	3.12	20.2%
125	200.09	232.75	32.66	16.3%	15.48	18.60	3.12	20.2%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**

Per Customer \$11.34

**Flat Rate (monthly)**

Per Customer \$15.48

**Commodity Charge (per ccf)**

All Consumption \$1.51

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Flat Rate (monthly)**

Per Customer \$18.60

**Commodity Charge (per ccf)**

All Consumption \$1.75

**CITY OF WOODLAND  
 LANDSCAPE BILL OF COMPARISON  
 MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2009/10 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%	\$18.60	\$22.30	\$3.70	19.9%
5	22.75	26.00	3.25	14.3%	18.60	22.30	3.70	19.9%
10	31.50	36.25	4.75	15.1%	18.60	22.30	3.70	19.9%
15	40.25	46.50	6.25	15.5%	18.60	22.30	3.70	19.9%
20	49.00	56.75	7.75	15.8%	18.60	22.30	3.70	19.9%
25	57.75	67.00	9.25	16.0%	18.60	22.30	3.70	19.9%
30	66.50	77.25	10.75	16.2%	18.60	22.30	3.70	19.9%
40	84.00	97.75	13.75	16.4%	18.60	22.30	3.70	19.9%
45	92.75	108.00	15.25	16.4%	18.60	22.30	3.70	19.9%
50	101.50	118.25	16.75	16.5%	18.60	22.30	3.70	19.9%
55	110.25	128.50	18.25	16.6%	18.60	22.30	3.70	19.9%
60	119.00	138.75	19.75	16.6%	18.60	22.30	3.70	19.9%
65	127.75	149.00	21.25	16.6%	18.60	22.30	3.70	19.9%
70	136.50	159.25	22.75	16.7%	18.60	22.30	3.70	19.9%
75	145.25	169.50	24.25	16.7%	18.60	22.30	3.70	19.9%
80	154.00	179.75	25.75	16.7%	18.60	22.30	3.70	19.9%
85	162.75	190.00	27.25	16.7%	18.60	22.30	3.70	19.9%
90	171.50	200.25	28.75	16.8%	18.60	22.30	3.70	19.9%
95	180.25	210.50	30.25	16.8%	18.60	22.30	3.70	19.9%
100	189.00	220.75	31.75	16.8%	18.60	22.30	3.70	19.9%
105	197.75	231.00	33.25	16.8%	18.60	22.30	3.70	19.9%
110	206.50	241.25	34.75	16.8%	18.60	22.30	3.70	19.9%
115	215.25	251.50	36.25	16.8%	18.60	22.30	3.70	19.9%
120	224.00	261.75	37.75	16.9%	18.60	22.30	3.70	19.9%
125	232.75	272.00	39.25	16.9%	18.60	22.30	3.70	19.9%

Monthly Ave.

**2009/2010 RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$14.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$18.60
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$1.75

**PROPOSED RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$15.75
<b>Flat Rate (monthly)</b>	
Per Customer	\$22.30
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.05

**CITY OF WOODLAND  
LANDSCAPE BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2009/10 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%	\$22.30	\$26.75	\$4.45	20.0%
5	26.00	31.75	5.75	22.1%	22.30	26.75	4.45	20.0%
10	36.25	43.50	7.25	20.0%	22.30	26.75	4.45	20.0%
15	46.50	55.25	8.75	18.8%	22.30	26.75	4.45	20.0%
20	56.75	67.00	10.25	18.1%	22.30	26.75	4.45	20.0%
25	67.00	78.75	11.75	17.5%	22.30	26.75	4.45	20.0%
30	77.25	90.50	13.25	17.2%	22.30	26.75	4.45	20.0%
40	97.75	114.00	16.25	16.6%	22.30	26.75	4.45	20.0%
45	108.00	125.75	17.75	16.4%	22.30	26.75	4.45	20.0%
50	118.25	137.50	19.25	16.3%	22.30	26.75	4.45	20.0%
55	128.50	149.25	20.75	16.1%	22.30	26.75	4.45	20.0%
60	138.75	161.00	22.25	16.0%	22.30	26.75	4.45	20.0%
65	149.00	172.75	23.75	15.9%	22.30	26.75	4.45	20.0%
70	159.25	184.50	25.25	15.9%	22.30	26.75	4.45	20.0%
75	169.50	196.25	26.75	15.8%	22.30	26.75	4.45	20.0%
80	179.75	208.00	28.25	15.7%	22.30	26.75	4.45	20.0%
85	190.00	219.75	29.75	15.7%	22.30	26.75	4.45	20.0%
90	200.25	231.50	31.25	15.6%	22.30	26.75	4.45	20.0%
95	210.50	243.25	32.75	15.6%	22.30	26.75	4.45	20.0%
100	220.75	255.00	34.25	15.5%	22.30	26.75	4.45	20.0%
105	231.00	266.75	35.75	15.5%	22.30	26.75	4.45	20.0%
110	241.25	278.50	37.25	15.4%	22.30	26.75	4.45	20.0%
115	251.50	290.25	38.75	15.4%	22.30	26.75	4.45	20.0%
120	261.75	302.00	40.25	15.4%	22.30	26.75	4.45	20.0%
125	272.00	313.75	41.75	15.3%	22.30	26.75	4.45	20.0%

Monthly Ave.

**2010/2011 RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$15.75
<b>Flat Rate (monthly)</b>	
Per Customer	\$22.30
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.05

**PROPOSED RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$20.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$26.75
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.35

**CITY OF WOODLAND  
LANDSCAPE BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2012/2013)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers				Water Rates for Flat Rate Customers			
	2009/10 Rates	Proposed Rates	Difference		2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%	\$26.75	\$32.10	\$5.35	20.0%
5	31.75	38.00	6.25	19.7%	26.75	32.10	5.35	20.0%
10	43.50	52.00	8.50	19.5%	26.75	32.10	5.35	20.0%
15	55.25	66.00	10.75	19.5%	26.75	32.10	5.35	20.0%
20	67.00	80.00	13.00	19.4%	26.75	32.10	5.35	20.0%
25	78.75	94.00	15.25	19.4%	26.75	32.10	5.35	20.0%
30	90.50	108.00	17.50	19.3%	26.75	32.10	5.35	20.0%
40	114.00	136.00	22.00	19.3%	26.75	32.10	5.35	20.0%
45	125.75	150.00	24.25	19.3%	26.75	32.10	5.35	20.0%
50	137.50	164.00	26.50	19.3%	26.75	32.10	5.35	20.0%
55	149.25	178.00	28.75	19.3%	26.75	32.10	5.35	20.0%
60	161.00	192.00	31.00	19.3%	26.75	32.10	5.35	20.0%
65	172.75	206.00	33.25	19.2%	26.75	32.10	5.35	20.0%
70	184.50	220.00	35.50	19.2%	26.75	32.10	5.35	20.0%
75	196.25	234.00	37.75	19.2%	26.75	32.10	5.35	20.0%
80	208.00	248.00	40.00	19.2%	26.75	32.10	5.35	20.0%
85	219.75	262.00	42.25	19.2%	26.75	32.10	5.35	20.0%
90	231.50	276.00	44.50	19.2%	26.75	32.10	5.35	20.0%
95	243.25	290.00	46.75	19.2%	26.75	32.10	5.35	20.0%
100	255.00	304.00	49.00	19.2%	26.75	32.10	5.35	20.0%
105	266.75	318.00	51.25	19.2%	26.75	32.10	5.35	20.0%
110	278.50	332.00	53.50	19.2%	26.75	32.10	5.35	20.0%
115	290.25	346.00	55.75	19.2%	26.75	32.10	5.35	20.0%
120	302.00	360.00	58.00	19.2%	26.75	32.10	5.35	20.0%
125	313.75	374.00	60.25	19.2%	26.75	32.10	5.35	20.0%

Monthly Ave.

**2010/2011 RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$20.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$26.75
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.35

**PROPOSED RATES**

<b>2" Meter Charge (monthly)</b>	
Per Customer	\$24.00
<b>Flat Rate (monthly)</b>	
Per Customer	\$32.10
<b>Commodity Charge (per ccf)</b>	
All Consumption	\$2.80

**CITY OF WOODLAND  
CITY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (JAN. 1, 2010)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2008/09 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$11.34	\$14.00	\$2.66	23.5%
5	18.89	22.60	3.71	19.6%
10	26.44	31.20	4.76	18.0%
15	33.99	39.80	5.81	17.1%
30	56.64	65.60	8.96	15.8%
40	71.74	82.80	11.06	15.4%
50	86.84	100.00	13.16	15.2%
60	101.94	117.20	15.26	15.0%
70	117.04	134.40	17.36	14.8%
80	132.14	151.60	19.46	14.7%
90	147.24	168.80	21.56	14.6%
100	162.34	186.00	23.66	14.6%
125	200.09	229.00	28.91	14.4%
135	215.19	246.20	31.01	14.4%
145	230.29	263.40	33.11	14.4%
150	237.84	272.00	34.16	14.4%
160	252.94	289.20	36.26	14.3%
170	268.04	306.40	38.36	14.3%
180	283.14	323.60	40.46	14.3%
190	298.24	340.80	42.56	14.3%
200	313.34	358.00	44.66	14.3%
210	328.44	375.20	46.76	14.2%
220	343.54	392.40	48.86	14.2%
230	358.64	409.60	50.96	14.2%
240	373.74	426.80	53.06	14.2%

Monthly Ave.

**PRESENT (2008/2009) RATES**

**2" Meter Charge (monthly)**

Per Customer \$11.34

**Commodity Charge (per ccf)**

All Consumption \$1.51

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Commodity Charge (per ccf)**

All Consumption \$1.72

**CITY OF WOODLAND  
CITY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2010/2011)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2009/10 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$14.00	\$15.75	\$1.75	12.5%
10	31.20	35.75	4.55	14.6%
20	48.40	55.75	7.35	15.2%
30	65.60	75.75	10.15	15.5%
40	82.80	95.75	12.95	15.6%
50	100.00	115.75	15.75	15.8%
60	117.20	135.75	18.55	15.8%
70	134.40	155.75	21.35	15.9%
80	151.60	175.75	24.15	15.9%
90	168.80	195.75	26.95	16.0%
100	186.00	215.75	29.75	16.0%
110	203.20	235.75	32.55	16.0%
120	220.40	255.75	35.35	16.0%
130	237.60	275.75	38.15	16.1%
140	254.80	295.75	40.95	16.1%
150	272.00	315.75	43.75	16.1%
160	289.20	335.75	46.55	16.1%
170	306.40	355.75	49.35	16.1%
180	323.60	375.75	52.15	16.1%
190	340.80	395.75	54.95	16.1%
200	358.00	415.75	57.75	16.1%
210	375.20	435.75	60.55	16.1%
220	392.40	455.75	63.35	16.1%
230	409.60	475.75	66.15	16.1%
240	426.80	495.75	68.95	16.2%

Monthly Ave.

**2009/2010 RATES**

**2" Meter Charge (monthly)**

Per Customer \$14.00

**Commodity Charge (per ccf)**

All Consumption \$1.72

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$15.75

**Commodity Charge (per ccf)**

All Consumption \$2.00

**CITY OF WOODLAND  
CITY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$15.75	\$20.00	\$4.25	27.0%
10	35.75	41.50	5.75	16.1%
20	55.75	63.00	7.25	13.0%
30	75.75	84.50	8.75	11.6%
40	95.75	106.00	10.25	10.7%
50	115.75	127.50	11.75	10.2%
60	135.75	149.00	13.25	9.8%
70	155.75	170.50	14.75	9.5%
80	175.75	192.00	16.25	9.2%
90	195.75	213.50	17.75	9.1%
100	215.75	235.00	19.25	8.9%
110	235.75	256.50	20.75	8.8%
120	255.75	278.00	22.25	8.7%
130	275.75	299.50	23.75	8.6%
140	295.75	321.00	25.25	8.5%
150	315.75	342.50	26.75	8.5%
160	335.75	364.00	28.25	8.4%
170	355.75	385.50	29.75	8.4%
180	375.75	407.00	31.25	8.3%
190	395.75	428.50	32.75	8.3%
200	415.75	450.00	34.25	8.2%
210	435.75	471.50	35.75	8.2%
220	455.75	493.00	37.25	8.2%
230	475.75	514.50	38.75	8.1%
240	495.75	536.00	40.25	8.1%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**

Per Customer \$15.75

**Commodity Charge (per ccf)**

All Consumption \$2.00

**PROPOSED RATES**

**2" Meter Charge (monthly)**

Per Customer \$20.00

**Commodity Charge (per ccf)**

All Consumption \$2.15

**CITY OF WOODLAND  
CITY BILL OF COMPARISON  
MONTHLY PROPOSED RATE SCHEDULE (FY 2011/2012)**

Monthly Use (ccf)	Water Rates for 2" Meter Customers			
	2010/11 Rates	Proposed Rates	Difference	
			Amount	Percent
0	\$20.00	\$24.00	\$4.00	20.0%
10	41.50	47.50	6.00	14.5%
20	63.00	71.00	8.00	12.7%
30	84.50	94.50	10.00	11.8%
40	106.00	118.00	12.00	11.3%
50	127.50	141.50	14.00	11.0%
60	149.00	165.00	16.00	10.7%
70	170.50	188.50	18.00	10.6%
80	192.00	212.00	20.00	10.4%
90	213.50	235.50	22.00	10.3%
100	235.00	259.00	24.00	10.2%
110	256.50	282.50	26.00	10.1%
120	278.00	306.00	28.00	10.1%
130	299.50	329.50	30.00	10.0%
140	321.00	353.00	32.00	10.0%
150	342.50	376.50	34.00	9.9%
160	364.00	400.00	36.00	9.9%
170	385.50	423.50	38.00	9.9%
180	407.00	447.00	40.00	9.8%
190	428.50	470.50	42.00	9.8%
200	450.00	494.00	44.00	9.8%
210	471.50	517.50	46.00	9.8%
220	493.00	541.00	48.00	9.7%
230	514.50	564.50	50.00	9.7%
240	536.00	588.00	52.00	9.7%

Monthly Ave.

**2010/2011 RATES**

**2" Meter Charge (monthly)**  
Per Customer \$20.00

**Commodity Charge (per ccf)**  
All Consumption \$2.15

**PROPOSED RATES**

**2" Meter Charge (monthly)**  
Per Customer \$24.00

**Commodity Charge (per ccf)**  
All Consumption \$2.35