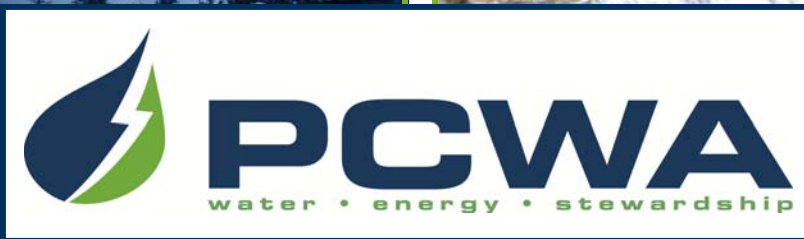


# Placer County Water Agency

Auburn, CA



## 2012 Budget

# **2012 Budget**



**Placer County Water Agency  
Auburn, California  
[www.pcwa.net](http://www.pcwa.net)**

**Prepared by the Department of Financial Services  
Approved November 17, 2011**



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**PLACER COUNTY WATER AGENCY  
TABLE OF CONTENTS  
2012 BUDGET**

---

Overview and Transmittal Memorandum..... 1

---

**Annual Budget**

---

Combined Agency Budget

2012 All-Inclusive Expense Budget..... 7  
Combining 2012 Budget Schedule..... 8

Agency Wide

2012 Budget Schedule..... 9  
Statement of Expense by Department and Category – Budget Schedule 2011-2012 ..... 10  
Statement of Revenue, Expense and Net Assets – Actual and Budget 2006-2012..... 11  
Unrestricted Board Designation Accounts – 2011-2012..... 12

Power Division

2012 Budget Schedule..... 13  
Statement of Expense by Department and Category – Budget Schedule 2011-2012 ..... 14  
Statement of Revenue, Expense and Net Assets – Actual and Budget 2006-2012..... 15

Water Division

Water Division Combining – 2012 Budget Schedule ..... 17  
Western Water System – 2012 Budget Schedule ..... 18  
Eastern Water System – 2012 Budget Schedule ..... 19  
Western Water System Restricted and Designated Revenue and Expense Activity Schedule –  
2012 Budget..... 20  
Eastern Water System Designated Revenue and Expense Activity Schedule – 2012 Budget..... 21  
Statement of Expense by Department and Category – Budget 2011-2012..... 22  
Statement of Revenue, Expense and Net Assets – Actual and Budget – 2006-2012..... 23  
Western Water System Unrestricted Board Designation Accounts – 2011-2012..... 24  
Eastern Water System Unrestricted Board Designation Accounts – 2011-2012 ..... 25

Summary Routine Capital – 2006-2012 Budget..... 26  
Definitions and Nature of Accounts ..... 27

---

**Capital Investment Program**

---

2012 Capital Investment Program Projects ..... 31  
Capital Investment Program – 5 Year Plan ..... 35  
2012 Capital Investment Program Project Descriptions ..... 43

---

**Supplemental Information**

---

Placer County Water Agency Overview ..... 51  
Agency Authorized and Budgeted Positions as of 10/25/2011 ..... 52





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## MEMORANDUM

**TO:** The Board of Directors and General Manager

**FROM:** Joseph H. Parker, CPA, Director of Financial Services  
Monica Penney, Deputy Director of Financial Services  
Diel Eckhardt, Financial Analyst

**DATE:** November 28, 2011

**RE:** **Transmittal for the Adopted 2012 Budget**

**CC:** Ed Tiedemann

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### **Overview**

I am pleased to transmit the 2012 Placer County Water Agency Combined Budget adopted by the Board of Directors on November 17, 2011. This budget is comprised of the three operating budget units: Agency Wide, Power Division and Water Division, as well as the Capital Investment Program (CIP). The Agency's 2012 All-Inclusive Expense Budget totals \$81.7 million.

### **Budget Summary**

#### **Agency Wide**

The 2012 Agency Wide Budget totals \$10.8 million including \$1.5 million in operating, \$0.9 million in support services to the Power System (internal loan) and \$8.4 million in project expense. Agency Wide CIP has eleven projects. The L.L. Anderson Dam Spillway Modification Project is the largest 2012 project at \$2.5 million, which is funded through the Middle Fork Project Finance Authority (60%) and Pacific Gas & Electric Company (PG&E) (40%).

#### **Power Division**

The 2012 Power Division Budget totals \$11.8 million and is determined in coordination with PG&E based on the Power Purchase Contract dated April 30, 1963, with additional funding through the Agency Wide fund provided by the Middle Fork Project Finance Authority (MFP Finance Authority or MFPPFA). This budget varies annually depending on maintenance projects, as well as additions and betterments, which total \$1.5 million in the 2012 budget. This PG&E portion of the 2012 budget is still in the review and approval process with PG&E and is anticipated to be finalized in the coming months. The MFPPFA portion of the budget was approved by the MFP Finance Authority Board at its meeting on November 17, 2011.

## **Water Division**

During the budget process, the Finance Committee was presented the construction cost and consumer price indices as a basis for the cost of service. These price indices were up 3.4% and 2.5%, respectively. After discussions and refinements, the 2012 Water System's cost of service has been held to about the same as the 2011 cost of service, such that there is no need for a water rate increase.

The 2012 Budget includes a shift of some debt service costs for prior projects, which initially expanded capacity and were funded by WCC, but are now in normal use by existing customers with all the additional water capacity being fully utilized. Now, for those projects that the water capacity is fully utilized, the debt service should be funded by renewal and replacement and operations. The attached 2012 Budget includes: 1) a shift of a portion of the debt service costs from water connection charge funding to renewal and replacement and operations funding, and 2) for 2012 this shift is for amounts that could be up to \$1,281,436 and \$143,529 to renewal and replacement and operations, respectively. The debt service cost funding sources will be evaluated annually.

The 2012 Water System Budget totals \$59.1 million, which includes the \$36.1 million operating budget and a \$23.0 million CIP Budget comprised of renewal and replacement projects budget totaling \$10.9 million, designations and other projects budget totaling \$6.0 million and project debt service costs budget totaling \$6.1 million.

\* \* \* \* \*

The 2012 Combined Budget is a team effort as each budget unit is built on the departmental developed and compiled department level budgets. Each department utilizes a cost/benefit approach for budgeting to minimize the 2012 budgeted expenses, yet maintaining existing service levels. The 2012 budget process has been challenging as the Agency has held the Water Division cost of service at the same level for the last 2 years (2010 and 2011), while balancing the anticipated resource needs of the new requirements and regulations, as well as the aging infrastructure.

## **Budget Format and Process**

### ***Power Division Budget Process***

In recent years, the Agency's budget process for the Power Division has been following two concurrent paths: 1) the Power Division continues to operate under the 50 year contract with PG&E for operational funding; 2) At the same time the Agency is ramping up the transition for a new power sale arrangement that commences on May 1, 2013 with required increases in staff and additional improvement projects with funding provided by the Middle Fork Project Finance Authority.

The Power Division budget process funded by PG&E (traditional operations) commences in the Spring with the preparation of the Power Division Budget in accordance with PG&E's timeline. There are typically two additional meetings with PG&E representatives in the Summer and Fall prior to finalization and anticipated approval late Fall or early Winter by PG&E. This portion of

the 2012 Power Division budget was submitted to the Board of Directors on April 21, 2011 and is still pending approval from PG&E.

The Power Division budget process funded by the MFP Finance Authority follows the Agency's budget timeline, in connection with the MFP Finance Authority's budget. Agency staff has worked closely with our colleagues at Placer County to reach consensus on PG&E as our new recommended power partner, to determine PCWA's new roles and responsibilities under this arrangement and identify our staffing needs to meet those new obligations. In addition, the Agency continues to work on projects needed for the 2013 marketing process transition and capital projects that will be required under our new FERC license. The final joint PCWA/County budget recommendation to the MFP Finance Authority was approved at the MFPFA's November 17, 2011 Board meeting.

### ***Agency Wide and Water Division Budget Process***

The Agency Wide and Water Division budget process commences in June with a mid-year budget performance assessment and initial discussion of the following year's budget. This is followed by management meetings to discuss the budgeting process, operating budget amounts, potential new personnel positions, routine capital needs and capital projects.

The Departments prepare and enter 2-years of budget amounts and their current year-end expense projections into the budget module of the computer (H.T.E.) system. The labor and benefits projections and budget are provided electronically by Administrative Services, which is planned to allow for about one week of an overall proposed budgetary review by Finance.

The Board's Finance Committee, consisting of Directors Lee and Mavy, met four times to discuss the draft Proposed 2012 Agency Wide and Water Division Budgets. Each page of the budget was reviewed and components of each budget unit were discussed. There was discussion regarding the need to adjust water rates in 2012 based on the water system cost of service. Given the current economic situation, little change in the cost indices and efforts to maintain level cost of service, it was determined that there was not a need for a water rate adjustment, which eliminated the need for the Proposition 218 notification during the 2012 budget process.

## **Management Discussion and Analysis**

A brief narrative highlighting certain aspects of each of the three separate budgets follows:

### **Agency Wide Budget**

Agency Wide Budget unit derives annual water sales revenues from water sales to PCWA Zones I & V, San Juan Water District, City of Roseville, and Sacramento Suburban Water District. The revenues are charged for use of the Agency's water supply from the Middle Fork American River Project.

Other sources of Agency Wide revenue included in the operating budget are investment earnings, annual property tax revenue and rental income of \$240,000 to be paid by the Power Division for the new Foresthill Facilities Center.

Periodically, the Agency transacts one-time water sales to Federal, state, or local governmental entities when both water and opportunities are available. These one-time water sales are non-operating revenue, hence, are recorded directly to designations for use as approved by the Board.

In 2012, the Agency will continue its active involvement at the Board and management levels in a wide variety of water and energy related issues affecting Placer County. This involvement includes the Agency's continued monitoring of the Bay-Delta process (Delta Stewardship Counsel and Bay-Delta Conservation Plan); Lake Tahoe and Truckee River issues; a county-wide financial assistance program; Consumes, American and Yuba/Bear River watershed interests; integrated water resources program including surface water, reclaimed water, conservation and groundwater management issues; and hydroelectric relicensing efforts. In collaboration with the County of Placer, the Agency continues to manage the strategic process that will ultimately lead to the successful relicensing in 2013 of the Middle Fork American River Project's hydroelectric facilities. The joint Agency and County formation of the Middle Fork Project Finance Authority and bond funding by the County Treasurer provides stable financing for the Relicensing efforts and certain Betterments, Improvements and Modernizations of the Middle Fork Project through 2015.

Since formation in 2006, the Agency has been tracking financing draws from the MFP Finance Authority to fund expenses related relicensing, power marketing, betterments, improvements and modernization projects for the Middle Fork Project under Agency Wide CIP, and continues to do so this year.

The Agency's service level support costs are included in the Agency Wide budget, then are allocated as service level support based on a detailed cost allocation plan to the Power and Water Divisions including projects.

### **The Power Division (Middle Fork Project Budget)**

The Power Division's 2012 traditional operations budget timeline is structured to match the PG&E budget schedule. As the Power Division operations are through a reimbursement contract with PG&E, the power sale revenues are a reimbursement by PG&E for Power Division expenses, hence equal the budgeted expenses and debt service. As maintenance and capital projects vary year to year, this results in annual variances in revenues. The budget for Power Division was previously authorized by the Board of Directors, reviewed by PG&E's Partnership Coordinator, and is being processed by PG&E's Senior and Business Unit Manager of Generation Transmission and Supply at the Corporate office in San Francisco. The 2012 Power Division budget funded by PG&E includes one (1) new Roving Operator position. This additional position has been approved by PG&E and will be funded by PG&E throughout the duration of the existing power sale contract.

In addition, 2012 Power Division budget funded through Agency Wide by the MFP Finance Authority budget includes funding for five (5) additional positions in 2012 which are related to power operations. Three (3) of these positions will work in the Power Division which are an Electrical Hydro Engineer II, an Electrical Maintenance Supervisor, and a CAD/GIS Technician II. The two (2) other new positions will reside in Agency Wide as support services for the Power

Division: A new position, Power Scheduling Manager in the Strategic Affairs Department, and a new Financial Analyst in the Financial Services Department. In the coming years, there are additional positions that will be required to fulfill the transitional needs of the power operation, requirements of the new power sale contract and support.

### **Water Division Budget**

Given the economic downturn, the Water Division's 2011 water and cash flows have continued to be closely monitored for increases of delinquent billed accounts receivable and the effect of the 2009 shift to a more volumetric water rate structure. Commencing in January 2009, the water rate structure changed with the State and Federal Mandate Charge revenue being incorporated into the commodity tiers rates resulting in a 9.7% shift to a more volumetric rate structure for the average customer. With this rate model shift, Finance engaged with Customer Services to closely monitor water billings and water sale revenue in an effort to detect revenue shortfall as early as possible. Weekly monitoring of cash receipts is performed comparing to the prior year's to provide a cash receipts trend and identify any trend difference from 2009. The Water Division does not receive sales or property taxes which fluctuate with economic times.

As the Agency's water rate structure becomes more volumetric based, the effects of weather will increase. Historically, late Spring or early Fall precipitation reduces water demand, thus, can vary water treatment plant flows by upwards of 15%. This was discussed at length by John Farnkopf, Principal of Hilton Farnkopf during his presentation of the results of his 2005 water rate study of the Agency water rate model in 2005. Since then, the Agency has established and funded a Water Division Revenue Volatility Designation for use, with Board approval, during years with severe revenue short-falls primarily because of weather influences.

The Spring of 2011 was much cooler and wetter than normal and Summer of 2011 was the mildest in 30 years, which coupled with the Bear River Canal break incident that lasted from April 19 to June 6, has resulted in 2011 water plant flows, water sales revenue and cash receipts trailing both 2009 and 2010 year to date as of September. Through September 2011, water plant flows are down 11% and water sales revenue is down 6% in comparison to the same period in 2010. These amounts include effects of the Bear River Canal break incident, which resulted in \$383,000 of additional costs to the Agency. PG&E credited the Agency for the electricity use on 11 pump stations including the two primary pump stations: American River Pump Station and Ophir Pump Station, as well as compensating the Agency \$150,000 for undelivered irrigation water and administrative costs.

The Agency's water services are user charge based, which means those benefiting from the service pay for the cost of that service. The 2012 Budget includes \$5.2 million for depreciation and although this is a substantial amount, it is only about 30% of the Agency's policy objective, which is to fund 100% of the most recent audited year's financial statements. The Water Division's depreciation expense in the 2010 audited financial statements totaled \$17.4 million. Because of the cost escalations, replacement costs are many times the amount of accumulated depreciation, thus continued efforts are needed to fund renewal and replacement.

During the 2012 Budget process, Departments captured cost saving efficiencies coupled with lower costs on bids and materials in an effort to ensure the cost of service would not rise in the 2012 Budget. On a continual basis the Agency looks for efficiencies and cost savings. The 2012 Budget maintains the 2009 levels of salaries and benefits at same levels as January 1, 2009.

### **Capital Investment Program**

The 2012 Water Division Capital Investment Program (CIP) projects Budget continued to shift from expansion projects to renewal and replacement projects. The reason for the shift is because of the substantial drop-off in housing construction, thus, the near-term demand for treated water has slowed. This shift of Agency efforts started in mid-2007 as expansion projects were reprioritized to reflect this new direction. By 2011, the budgeted expansion (WCC) projects were reduced to only \$0.4 million, while the budgeted renewal and replacement projects were \$11 million. In the 2012 Western Water System CIP Budget there were no funds budgeted for expansion (WCC) projects.

Rehabilitation of the raw water conveyance and treated water transmission systems is an on-going resource and funding challenge. The treated water operation is absolutely dependent upon major segments of the Agency's 165-mile raw water conveyance system, some of which is over 100 years old. The Renewal and Replacement Charge was established in 2001 and has continually been phased in for funding of aging infrastructure. For 2012, the Western Water Division's Renewal and Replacement Charge revenue is projected to total \$8.8 million.

There is still a substantial need for funding much needed water system infrastructure reliability and dependability. Emphasis has been placed upon project prioritization and those areas where water use efficiency objectives can be achieved.

Beginning in 2010, service level support (cost allocation) included projects.

### **Conclusion**

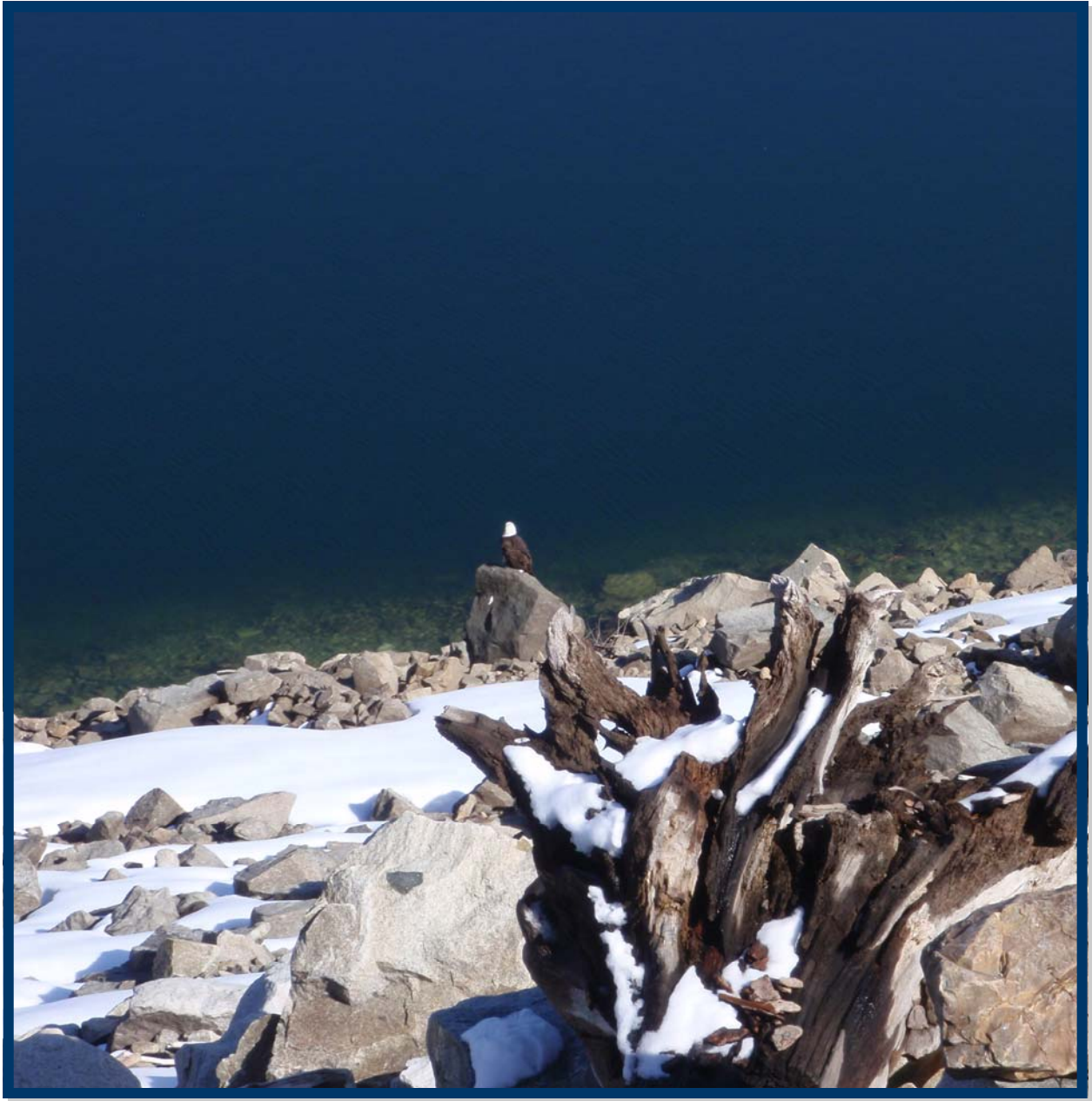
Critical to maintaining these top priorities is the Agency's sound financial status. The importance of solid long-term planning, maintaining adequate reserve levels and funding infrastructure is essential to maintaining a viable water system. The Agency is constantly looking for ways to be more efficient and effective in its use of funding resources.

After review and cost/benefit analysis, the 2012 All-Inclusive Agency Combined Budget is presented herein.

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# Annual Budget

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**French Meadows Reservoir**

# Placer County Water Agency

## 2012 All-Inclusive Expense Budget

### 2012 Combined All-Inclusive Expense Budget

	<u>Agency Wide</u>	<u>Power Division*</u>	<u>Water Division</u>	<u>Total</u>
<b><u>Operating Expenses</u></b>				
Operating Activities	\$ 1,452,540	6,305,361	29,389,586	37,147,487
Debt Service Costs Paid by Operations	-	-	1,477,673	1,477,673
Other - Power System Support Services	905,226	-	-	905,226
Maintenance Projects	-	1,198,518	5,217,941	6,416,459
Total Operating Expenses	<u>2,357,766</u>	<u>7,503,879</u>	<u>36,085,200</u>	<u>45,946,845</u>
<b><u>Capital Investment Program</u></b>				
Additions & Betterments/ Non-Routine	-	1,485,000	-	1,485,000 **
Designated Revenue Projects	8,427,000	-	16,906,000	25,333,000
Expansion Projects	-	-	-	-
Project Debt Service Costs	-	2,827,594	6,089,644	8,917,238
Total Capital Investment Program	<u>8,427,000</u>	<u>4,312,594</u>	<u>22,995,644</u>	<u>35,735,238</u>
Total 2012 Expense Budget	<u>\$ 10,784,766</u>	<u>11,816,473</u>	<u>59,080,844</u>	<u>81,682,083</u>

\* The Power System 2012 Budget was initially presented to the Board in April 2011.

\*\* For budgeting purposes, \$585,000 of Power Division non-routine maintenance costs are included in operating activities under the depreciation line item.

# Placer County Water Agency

## Combining 2012 Budget Schedule

	Agency Wide	Power Division	Water Division	Combined Total
<b>Operating Revenue</b>				
Water Sales	\$ 1,000,000	-	34,094,200	35,094,200
Power Sales	-	11,691,473	-	11,691,473
Reimbursements	67,708	-	-	67,708
Engineering Charges	-	-	355,000	355,000
Customer Service Charges	-	-	731,000	731,000
Other Revenue	-	50,000	5,000	55,000
<b>Total Operating Revenue</b>	<b>1,067,708</b>	<b>11,741,473</b>	<b>35,185,200</b>	<b>47,994,381</b>
<b>Non-Operating Revenue</b>				
Contributions in Aid of Construction	-	-	55,000	55,000
Interest Earnings	170,000	65,000	835,000	1,070,000
Taxes	680,000	-	-	680,000
Rental Income	240,000	-	-	240,000
Grants	-	-	10,000	10,000
Other	500	10,000	-	10,500
<b>Total Non-Operating Revenue</b>	<b>1,090,500</b>	<b>75,000</b>	<b>900,000</b>	<b>2,065,500</b>
<b>Total Revenue</b>	<b>2,158,208</b>	<b>11,816,473</b>	<b>36,085,200</b>	<b>50,059,881</b>
<b>Operating Expense by Department</b>				
Board of Directors	250,888	-	-	250,888
General Manager's Office	778,330	-	-	778,330
Administrative Services	2,031,780	-	-	2,031,780
Customer Services	-	-	4,417,226	4,417,226
Field Services	-	-	10,630,334	10,630,334
Financial Services	3,007,510	-	-	3,007,510
Financial Assistance Program	35,000	-	-	35,000
Power System	-	6,508,019	-	6,508,019
Strategic Affairs	598,833	-	-	598,833
Technical Services	-	-	9,267,659	9,267,659
Service Level Support	(5,587,233)	905,226	4,262,010	(419,997) <b>Note 1</b>
Routine Capital	202,432	410,860	622,750	1,236,042
Revenue Volatility Designation	-	-	50,000	50,000
Operational Designation Addition	-	-	139,607	139,607
Depreciation (Fund Project Designations)	135,000	585,000	5,217,941	5,937,941
<b>Total Operating Expenses</b>	<b>1,452,540</b>	<b>8,409,105</b>	<b>34,607,527</b>	<b>44,469,172</b>
<b>Non-Operating Expense</b>				
Additions and Betterments	-	1,485,000	-	1,485,000
Non-Routine Maintenance	-	-	-	-
Power System Service Level Support				
Paid by Agency Wide	905,226	(905,226)	-	-
Debt Service (Principal and Interest)	-	2,827,594	1,477,673	4,305,267
<b>Total Non-Operating Expense</b>	<b>905,226</b>	<b>3,407,368</b>	<b>1,477,673</b>	<b>5,790,267</b>
<b>Total Expenses</b>	<b>2,357,766</b>	<b>11,816,473</b>	<b>36,085,200</b>	<b>50,259,439</b>
Revenue Over (Under) Expense, Projects and Debt Service	(199,558)	-	-	(199,558)
<b>Net (To) From Designated Funds</b>	<b>199,558</b>	<b>-</b>	<b>-</b>	<b>199,558</b>
Net	\$ -	-	-	-

**Note 1** - Based on the 2012 cost allocation plan, \$5,167,236 **service level support** is attributed to **operating** divisions (\$905,226 to the Power Division and \$4,262,010 to the Water Division) and \$419,997 is attributed to capital projects.

# Agency Wide



water • energy • **stewardship**

# Placer County Water Agency

## Agency Wide

### 2012 Budget Schedule

<u>Agency Wide Operating</u>	<b>2011 Adopted Budget</b>	<b>2011 Adjusted Budget</b>	<b>2012 Budget</b>	<b>Notes</b>
<b>Revenue</b>				
Water Sales - Long-term Contracted	\$ 1,000,000	1,000,000	1,000,000	
Reimbursements	65,104	65,104	67,708	PGE overhead reimbursement
Interest Earnings (Operations)	170,000	170,000	170,000	
Property Tax	646,200	646,200	680,000	<b>Note 4</b>
Rental Income	200,000	240,000	240,000	Foresthill Facility
Other	500	500	500	Misc. over the counter payments - copying etc.
<b>Total Revenue</b>	<b>2,081,804</b>	<b>2,121,804</b>	<b>2,158,208</b>	
<b>Operating Expense by Department</b>				
Board of Directors	245,717	245,717	250,888	<b>Note 1</b> - Election costs increase
General Manager's Office	751,181	751,181	778,330	Temporary for scanning
Administrative Services	3,830,241	2,002,401	2,031,780	Legal costs increase
Financial Services	1,165,931	2,980,771	3,007,510	
Financial Assistance Program	35,000	35,000	35,000	
Strategic Affairs	597,562	597,562	598,833	
Subtotal Departmental Operating Expense	6,625,632	6,612,632	6,702,341	
Routine Capital	108,300	138,300	202,432	
Depreciation - Added to Capital Designations	135,000	135,000	135,000	
Subtotal	6,868,932	6,885,932	7,039,773	
Service Level Support - Water Division(Operations)	(4,057,767)	(4,057,767)	(4,262,010)	
Service Level Support - Power Division(Operations)	(886,372)	(886,372)	(905,226)	<b>Note 2</b>
Service Level Support - Construction Projects(AW & WD)	(598,367)	(598,367)	(419,997)	
<b>Total Operating Expense</b>	<b>1,326,426</b>	<b>1,343,426</b>	<b>1,452,540</b>	
Revenue Over (Under) Expense	755,378	778,378	705,668	
Less:				
Service Level Support Paid by Agency Wide	886,372	886,372	905,226	<b>Note 2</b> - for Power Division support
Subtotal	(130,994)	(107,994)	(199,558)	
<b>(To) From Designations</b>	<b>130,994</b>	<b>107,994</b>	<b>199,558</b>	
Operational and Contingency, as needed	-	-	-	<b>Note 3</b>
Power Division Service Level Support	(130,994)	(107,994)	(199,558)	<b>Note 3</b>
Net	\$ -	-	-	

**Note 1 - Board of Directors** operating expense includes an annual budgeted amount for general election expenses totaling \$70,000 to smooth the budgeting for the bi-annual elections costs.

**Note 2 - Service level support paid by Agency Wide (internal loan)** is for the Power Division's portion of the service level support. The contract with PG&E provides a certain amount of service level support reimbursement (see revenue above), but this amount is not sufficient to cover the actual service level support based on the Agency's Cost Allocation Plan. Hence, this amount is paid by Agency Wide and will be netted with the reimbursement revenue as an internal loan from the Power Division. The loan amount as of December 31, 2012 will total \$4,998,343, net of PG&E reimbursement, with this 2012 Budget. The loan amount has been captured since 2007 with the updated cost allocation plan.

**Note 3 -** Given the nature of the Agency Wide Budget Unit's revenue fluctuation with one-time water sales and property tax revenues, the **use of operational designations** and other designations to bridge the gap from time to time are provided for in the Agency's Budget Policy.

**Note 4 -** In 2009, the State of California "borrowed" property tax revenues from PCWA under Proposition 1A. This borrowing, totaling approximately \$70,000, is to be repaid including interest in 2012 or 2013.

# Placer County Water Agency

## Agency Wide

### Statement of Expense By Department and Category - Budget Schedule

Years 2011 - 2012

Operating Expenses	2011 Adopted Budget	2011 Adjusted Budget	2012 Budget
<u>Expenses by Department:</u>			
Board of Directors	\$ 245,717	245,717	250,888
General Manager's Office	751,181	751,181	778,330
Administrative Services	3,830,241	2,002,401	2,031,780
Financial Services	1,165,931	2,980,771	3,007,510
Financial Assistance Program	35,000	35,000	35,000
Strategic Affairs	597,562	597,562	598,833
Total Departmental Expenses	<u>\$ 6,625,632</u>	<u>6,612,632</u>	<u>6,702,341</u>
<u>Expenses by Category:</u>			
Personnel Services (Salary & Benefits)	\$ 3,543,563	3,560,563	3,628,775
Operating Supplies	191,722	191,722	194,859
Operating Services	1,055,599	1,025,599	1,016,409
Insurance	600,000	600,000	600,000
Membership Dues and Subscriptions	110,323	110,323	113,873
Election	65,000	65,000	70,000
Professional Services	666,300	666,300	671,600
Legal Services	358,125	358,125	371,825
Financial Assistance Program	35,000	35,000	35,000
Total Expenses by Category	<u>\$ 6,625,632</u>	<u>6,612,632</u>	<u>6,702,341</u>

**General Notes** - This budget schedule details the departmental and functional expenses for Agency Wide including the service level support costs prior to being allocated to benefiting budget units.

- For purposes of consistency, **routine capital** is not included in amounts shown above. Routine capital is a separate line item budget on the operations budget. As approved, the routine capital amounts will be included in the administering departmental operating budgets.

# Placer County Water Agency

## Agency Wide

### Statements of Revenue, Expense and Net Assets - Actual and Budget {Financial Statement Format}

Years 2006 - 2012

	Audited 2006	Audited 2007	Audited 2008	Audited 2009	Audited 2010	Adjusted 2011 Budget	2012 Budget
<b>Operating Revenue</b>							
Water Sales	\$ 1,115,631	872,025	1,145,733	1,101,702	882,785	1,000,000	1,000,000
Reimbursements	53,000	55,385	57,877	60,192	62,600	65,104	67,708
Other	405	971	524	2,224	109	-	-
	1,169,036	928,381	1,204,134	1,164,118	945,494	1,065,104	1,067,708
<b>Operating Expense</b>							
General and Administrative (Note 3)	1,006,844	1,974,437	1,310,257	1,075,942	530,101	1,070,126	1,115,108
Depreciation	89,554	125,257	126,937	143,925	181,188	135,000	135,000
Total Operating Expense	1,096,398	2,099,694	1,437,194	1,219,867	711,289	1,205,126	1,250,108
Operating Income (Loss)	72,638	(1,171,313)	(233,060)	(55,749)	234,205	(140,022)	(182,400)
<b>Non-operating revenue</b>							
Water Sales	-	43,617	2,500,000	5,500,000	-	-	-
Costs Recovered from Other Agencies (Note 2)	8,485,738	6,784,655	6,629,020	7,491,378	12,968,395	-	-
Interest Earnings	614,925	708,405	829,365	337,424	212,108	170,000	170,000
Taxes	728,971	713,715	759,079	620,330	648,150	646,200	680,000
Rental Income	-	-	-	-	-	200,000	240,000
Grant	-	-	-	-	-	-	-
Other	150,621	64,680	2,696	(213,373)	7,361	500	500
	9,980,255	8,315,072	10,720,160	13,735,759	13,836,014	1,016,700	1,090,500
<b>Non-Operating Expense</b>							
Service Level Support Internal Loan (Note 1)	-	-	-	-	-	(886,372)	(905,226)
Other	-	-	(346,838)	-	-	-	-
	-	-	(346,838)	-	-	(886,372)	(905,226)
Transfers	(87,327)	-	(828,808)	(190,128)	(655,380)	-	-
<b>Net</b>	<b>9,965,566</b>	<b>7,143,759</b>	<b>9,311,454</b>	<b>13,489,882</b>	<b>13,414,839</b>	<b>(9,694)</b>	<b>2,874</b>
Beginning Net Assets	13,567,854	23,533,420	30,677,179	39,988,633	53,478,515	66,893,354	66,883,660
Contributed Capital	-	-	-	-	-	-	-
Prior Period Adjustment	-	-	-	-	-	-	-
<b>Ending Net Assets</b>	<b>\$ 23,533,420</b>	<b>30,677,179</b>	<b>39,988,633</b>	<b>53,478,515</b>	<b>66,893,354</b>	<b>66,883,660</b>	<b>66,886,534</b>

**Note 1 - Service level support** to other divisions line item is not presented separately in this financial statement format for 2012 budgeted operating expense.

**Note 2 - Costs recovered from other agencies** is comprised primarily of the reimbursement of Middle Fork Project Relicensing and Betterments, Improvements and Modernizations Project expenses.

**Note 3 - General and administrative** operating expense excludes both depreciation (as it is shown separately) and routine capital (as these items are capitalized).

# Placer County Water Agency

## Agency Wide

### Unrestricted Board Designation Accounts - Years 2011 - 2012

<u>Agency Wide</u>	Year Ended December 31, 2010	2011 Activity			Balance July 2011	Anticipated 2011 Activity Sources/(Uses)	2012 Budget Sources/(Uses) (Note 4)	Estimated Total
		Interest Thru June 2011	Current Year Transfers/ Funding/Revenue (Note 1)	2011 Board Approved (Deletions/Uses)				
<b><u>Unrestricted - Board Designated</u></b>								
<b>Operational:</b>								
Contingencies	\$ 773,097	6,649		(146,946)	632,800			632,800
Operational General Elections (Note 2)	674,768 -	4,120 -	100,000		778,888 -	65,000	(65,000)	778,888 -
<b>Capital:</b>								
Routine Capital Replacement	89,906	631			90,537		135,000	225,537
Administration Building Maintenance and Improvements	568,411	3,986			572,397			572,397
<b>Liabilities:</b>								
Compensated Absences	536,018	4,551			540,569			540,569
<b>Specific Activities &amp; Projects:</b>								
Water Entitlements/Water Rights Permit Extension	331,635	1,931	900,000		1,233,566		(1,200,000)	33,566
Yuba & Bear River Relicensings & Watershed Interests	232,426	-			232,426			232,426
Yearly Water Transfer Costs	114,336	971			115,307			115,307
MFP Auburn Diversion Unit - Auburn Tunnel Project	213,573	1,813			215,386			215,386
Middle Fork Project - Facilities and Properties	215,019	1,826			216,845			216,845
Power Systems Overhead - Service Level Support (Note 3)	2,262,322	19,209	(1,000,000)		1,281,531	(107,994)	(199,558)	973,979
Infrastructure Study Revolving Fund	53,054	-		(53,054)	-			-
Financial Assistance Program	88,008	-			88,008			88,008
<b>Total Agency Wide - Designated</b>	<b>\$ 6,152,573</b>	<b>45,687</b>	<b>-</b>	<b>(200,000)</b>	<b>5,998,260</b>	<b>(42,994)</b>	<b>(1,329,558)</b>	<b>4,625,708</b>

**Note 1 - Funding** will be applied in accordance with the designation policy, which is to fund at year-end.

**Note 2 - Operational designation for General Election** - This account was added in 2009 to provide annual budgeting for the bi-annual election costs.

**Note 3 - Power Division Overhead - Service Level Support** - As the existing contract with PG&E does not include funding for all service level support, Agency Wide is funding these costs until reimbursement from the MFP revenues after the expiration of the PG&E Power Sale contract.

**Note 4 - Sources of Designations in 2012 Budget** will only be funded at year-end if funds are available.

# Power Division



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# Placer County Water Agency

## Power Division

### 2012 Budget Schedule

<u>Power Division Operating</u>	<b>2011 Adopted Budget</b>	<b>2011 Adjusted Budget</b>	<b>2012 Budget</b>	
<b>Revenue</b>				
Power Sales	\$ 13,830,374	13,830,374	11,691,473	Note 1
Interest earnings - Operations	65,000	65,000	65,000	
Other	60,000	60,000	60,000	
<b>Total Revenue</b>	<b>13,955,374</b>	<b>13,955,374</b>	<b>11,816,473</b>	
<b>Operating Expense</b>				
Power Division	6,797,514	6,797,514	6,508,019	Note 2 and 4
Service Level Support	886,372	886,372	905,226	Note 3
Subtotal	7,683,886	7,683,886	7,413,245	
Routine Capital	132,560	132,560	410,860	Note 4
Depreciation	1,500,000	1,500,000	585,000	Note 4
<b>Total Operating Expense</b>	<b>9,316,446</b>	<b>9,316,446</b>	<b>8,409,105</b>	
<b>Debt Service</b>	<b>4,857,000</b>	<b>4,857,000</b>	<b>2,827,594</b>	
Revenue Over (Under) Expense	(218,072)	(218,072)	579,774	
Less:				
Service Level Support Owed to Agency Wide	886,372	886,372	905,226	Note 3
Subtotal	668,300	668,300	1,485,000	
<b>(To) From Project Designations</b>				
Additions and Betterments	(203,300)	(203,300)	(1,485,000)	
Non-Routine Maintenance	(465,000)	(465,000)	-	
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**General Note -** PG&E's request for the next year's budget is in the Spring, however the budget is typically not approved by PG&E until late Fall or early Winter. On April 21, 2011, the Board was presented the Proposed Power Division Budgets for the years 2012 through 2013 for consideration. The information presented in April 2011 was more detailed than above, hence, that level of detail is not presented herein. At the time of publication, this 2012 budget is in the final approval process with PG&E.

**Note 1 -** Per the existing 1963 Power Sales Contract with PG&E operating expenses (excluding depreciation), debt service, routine capital, non-routine maintenance and additions and betterments costs are reimbursed to the Agency and recorded as Revenue - Power Sales.

**Note 2 -** The 2011 and 2012 Budgets include amounts, in addition to the PG&E Budget, for **support and engineering** totaling \$50,000. The funding for this expense is included in Power Division Operating Revenue - Other as it is funded by Middle Fork Project Finance Authority.

**Note 3 -** The Power Division's portion of the **service level support** is paid by Agency Wide (internal loan). The contract with PG&E provides a certain amount of service level support reimbursement, but this amount is not sufficient to cover the actual service level support based on the Agency's Cost Allocation Plan. Hence, this amount is paid by Agency Wide and will be netted with the reimbursement revenue as an internal loan from the Power Division for future reimbursement.

**Note 4 -** To tie this schedule to the Combined Schedule on page 7 for **Power Division Operating Activities** totaling \$6,305,361; take Power Division Operating Expense totaling \$6,508,019, add Routine Capital of \$410,860 and Depreciation of \$585,000 less the Maintenance Projects of \$1,198,518, which are included in Power Operating Expense totaling \$6,508,019.

# Placer County Water Agency

## Power Division

### Statement of Expense By Department and Category - Budget Schedule

Years 2011 - 2012

	2011 Adopted Budget	2011 Adjusted Budget	2012 Budget
<b>Operating Expenses</b>			
<u>Expenses by Department:</u>			
Power Division	\$ 6,797,514	6,797,514	6,508,019
Service Level Support	886,372	886,372	905,226 <span style="float: right;">Note 1</span>
Total Departmental Expenses	7,683,886	7,683,886	7,413,245
 <u>Expenses by Category:</u>			
Personnel Services (Salary & Benefits)	\$ 2,950,613	2,950,613	3,323,573
Operating Supplies	319,107	319,107	255,153
Fuel & Oil	12,550	12,550	45,280
Operating Services	2,149,262	2,149,262	1,444,231
Utilities (Electricity, Natural Gas, Sewer)	88,135	88,135	90,301
Insurance	641,090	641,090	670,530
Purchased Water	17,548	17,548	37,348
Membership Dues and Subscriptions	19,322	19,322	19,322
Professional Services	587,668	587,668	609,561
Legal Services	12,219	12,219	12,720
Service Level Support	886,372	886,372	905,226 <span style="float: right;">Note 1</span>
Total Expenses by Category	\$ 7,683,886	7,683,886	7,413,245

**General Note** - For purposes of consistency, **routine capital** is not included in amounts shown above. Routine capital is a separate line item budget on the operations budget. As approved, the routine capital amounts will be included in the administering departmental operating budgets.

**Note 1** - The Power Division's portion of the **service level support** is paid by Agency Wide (internal loan). The contract with PG&E provides a certain amount of service level support reimbursement, but this amount is not sufficient to cover the actual service level support based on the Agency's Cost Allocation Plan. Hence, this amount is paid by Agency Wide and will be netted with the reimbursement revenue as an internal loan from the Power Division for future reimbursement.

# Placer County Water Agency

## Power Division

### Statement of Revenue, Expense and Net Assets - Actual and Budget {Financial Statement Format}

Years 2006 - 2012

	Audited 2006	Audited 2007	Audited 2008	Audited 2009	Audited 2010	Adjusted 2011 Budget	2012 Budget
<b>Operating Revenue</b>							
Power Sales (Note 1)	\$ 16,232,741	31,184,062	17,560,262	13,021,578	13,418,260	13,830,374	11,691,473
Other Revenue	-	-	-	-	-	50,000	50,000
	<u>16,232,741</u>	<u>31,184,062</u>	<u>17,560,262</u>	<u>13,021,578</u>	<u>13,418,260</u>	<u>13,880,374</u>	<u>11,741,473</u>
<b>Operating Expense</b>							
Electrical Operation	1,259,622	1,475,462	1,597,988	1,652,677	1,474,824	1,342,133	1,501,412
Repairs and Maintenance	1,431,905	1,461,988	5,764,758	1,731,400	1,669,025	1,125,383	1,198,518
Safety	549,512	-	-	-	-	-	-
Recreation	83,933	229,359	189,849	187,501	424,186	-	-
Engineering	-	-	46,988	15,619	14,007	50,000	50,000
General and Administrative	896,349	2,721,902	2,746,616	2,953,393	2,712,947	4,279,998	3,758,089
Depreciation	1,391,469	1,408,728	1,440,209	2,139,649	2,367,200	1,500,000	585,000
Total Operating Expense	<u>5,612,790</u>	<u>7,297,439</u>	<u>11,786,408</u>	<u>8,680,239</u>	<u>8,662,189</u>	<u>8,297,514</u>	<u>7,093,019</u>
Operating Income	10,619,951	23,886,623	5,773,854	4,341,339	4,756,071	5,582,860	4,648,454
<b>Non-Operating Revenue</b>							
Interest	105,110	124,742	128,636	74,757	40,290	65,000	65,000
Gain on Disposal of Asset	-	4,265	-	4,000	-	-	-
Grant	-	-	149,657	-	-	-	-
Other	12,220	9,014	6,447	(41,181)	32,485	10,000	10,000
	<u>117,330</u>	<u>138,021</u>	<u>284,740</u>	<u>37,576</u>	<u>72,775</u>	<u>75,000</u>	<u>75,000</u>
<b>Non-Operating Expense</b>							
Interest Expense	992,358	927,375	689,811	568,637	403,650	237,000	97,594
Other	-	-	16,819	9,221	25,615	-	-
	<u>992,358</u>	<u>927,375</u>	<u>706,630</u>	<u>577,858</u>	<u>429,265</u>	<u>237,000</u>	<u>97,594</u>
Transfers	30,095	-	823,863	(704,234)	(1)	-	-
<b>Net (See below)</b>	<u><b>9,775,018</b></u>	<u><b>23,097,269</b></u>	<u><b>6,175,827</b></u>	<u><b>3,096,823</b></u>	<u><b>4,399,580</b></u>	<u><b>5,420,860</b></u>	<u><b>4,625,860</b></u>
Beginning Net Assets	58,536,716	68,311,734	91,409,003	97,584,830	100,681,653	105,081,233	110,502,093
Prior Period Adjustment	-	-	-	-	-	-	-
<b>Ending Net Assets</b>	<u><b>\$ 68,311,734</b></u>	<u><b>91,409,003</b></u>	<u><b>97,584,830</b></u>	<u><b>100,681,653</b></u>	<u><b>105,081,233</b></u>	<u><b>110,502,093</b></u>	<u><b>115,127,953</b></u>
Recap:							
Net	\$ 9,775,018	23,097,269	6,175,827	3,096,823	4,399,580	5,420,860	4,625,860
Routine Capital	-	-	-	-	-	132,560	410,860
Additions and Betterments	5,895,018	19,097,269	1,995,827	(1,203,177)	(55,420)	203,300	1,485,000
Non-Routine Maintenance	Note 2	Note 2	Note 2	Note 2	Note 2	465,000	-
Debt Service- Principal	3,880,000	4,000,000	4,180,000	4,300,000	4,455,000	4,620,000	2,730,000
Net remaining	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Total Routine Capital, Non-Routine Maintenance and Additions & Betterments	<u>\$ 7,286,487</u>	<u>20,505,997</u>	<u>3,436,036</u>	<u>936,472</u>	<u>2,311,780</u>	<u>2,300,860</u>	<u>2,480,860</u>

**Note 1** - Per the existing 1963 Power Sales Contract with PG&E, operating expenses (excluding depreciation), debt service, routine capital, non-routine maintenance and additions and betterments costs are reimbursed to the Agency and recorded as Revenue - Power sales.

**Note 2** - The above audited/budget balances are presented in a GAAP accounting basis, hence, to agree with the budgetary accounting basis, the non-routine maintenance expense is presented on the depreciation line up to the audited/budgeted depreciation amount. Total non-routine maintenance, including the portion presented on the depreciation line, and additions and betterments are presented for informational purposes.

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# Water Division



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# Placer County Water Agency

## Water Division - Combining Schedule

### 2012 Budget Schedule

<u>Water Division Operating Revenue</u>	<b>Western Water System</b>	<b>Eastern Water System</b>	<b>Total Water Division</b>	Notes
<b>Water Sales:</b>				
<b>Proposition 218 Applicable:</b>				
Treated Water:				
Service Charge	\$ 7,500,000	500,000	8,000,000	Revised to more closely reflect actual proportion of revenues
Commodity	16,500,000	20,000	16,520,000	
Raw Water:				
Commodity	3,700,000		3,700,000	
Subtotal - Prop 218 Applicable Water Rates & Charges	27,700,000	520,000	28,220,000	
<b>Non-Proposition 218 Applicable:</b>				
Treated Water:				
Resale	4,800,000	-	4,800,000	
Other	760,000	1,600	761,600	
Raw Water:				
Raw Water	306,000	-	306,000	
Raw Water Demand Fees	6,600	-	6,600	
Subtotal Non- Prop 218 Applicable Water Rates & Charges	5,872,600	1,600	5,874,200	
<b>Total Water Sales</b>	<b>33,572,600</b>	<b>521,600</b>	<b>34,094,200</b>	
<b>Other Revenue:</b>				
Engineering Charges	225,000	130,000	355,000	
Customer Service Charges	725,000	6,000	731,000	
Contributions in Aid of Construction (Install Charges)	35,000	20,000	55,000	
Interest Earnings	825,000	10,000	835,000	
Grants	10,000	-	10,000	
Other (Operating and Non-Operating)	5,000	-	5,000	
Total Other Operating Revenue	1,825,000	166,000	1,991,000	
<b>Total Revenue</b>	<b>35,397,600</b>	<b>687,600</b>	<b>36,085,200</b>	
<b>Operating Expense</b>				
Customer Services	4,388,900	28,326	4,417,226	
Field Services	10,623,334	7,000	10,630,334	
Technical Services	8,865,342	402,317	9,267,659	
Subtotal Departmental Operating Expense	23,877,576	437,643	24,315,219	
Service Level Support	4,185,294	76,716	4,262,010	Note 1
Subtotal	28,062,870	514,359	28,577,229	
Routine Capital	622,750	-	622,750	
Designations - Current Year Funding:				
Revenue Volatility Designation (3% of ops exp w/o deprn)	50,000	-	50,000	Note 2 Funded at year end, as available
Operational Designation (2% of ops exp w/o deprn)	134,307	5,300	139,607	Note 2 Funded at year end, as available
Subtotal	28,869,927	519,659	29,389,586	
Depreciation:				
Projects - Current Year	4,240,000	-	4,240,000	
Capital Designation Addition	810,000	167,941	977,941	Funded at year-end, as available
Subtotal	5,050,000	167,941	5,217,941	
<b>Total Operating Expense</b>	<b>33,919,927</b>	<b>687,600</b>	<b>34,607,527</b>	
<b>Debt Service</b>				
Debt Service - Rate Funded (Principal & Interest)	1,477,673	-	1,477,673	Note 3
<b>Total Expense, Designations and Debt Service</b>	<b>35,397,600</b>	<b>687,600</b>	<b>36,085,200</b>	
Revenue Over (Under) Expense, Debt Service, and Designations	-	-	-	
(To) From Designated/Reserved Funds	-	-	-	
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**Note 1** - Based on 2012 Cost Allocation Plan results, \$4,262,010 **service level support** is attributed to the Water Division which is split between Western Water System and Eastern Water System based on their proportional budgets of 98.2% and 1.8%, respectively.

**Note 2** - In accordance with Agency policy, the **Revenue Volatility and Operational Designations** are funded up to the target levels as funds are available at year-end.

**Note 3** - 2012 Budget debt service includes an additional expense amount of \$143,529 for financed projects fully utilized related to operations.

# Placer County Water Agency

## Western Water System

### 2012 Budget Schedule

Water System Operating	2011 Adopted Budget	2011 Adjusted Budget	2012 Budget	Notes
<b>Revenue</b>				
<b>Water Sales:</b>				
<b>Proposition 218 Applicable:</b>				
Treated Water:				
Service Charge	\$ 7,850,000	7,500,000	7,500,000	Revised to more closely reflect actual proportion of revenues
Commodity	17,152,300	15,000,000	16,500,000	
Raw Water:				
Commodity	3,697,700	3,700,000	3,700,000	
Subtotal - Prop 218 Applicable Water Rates & Charges	28,700,000	26,200,000	27,700,000	
<b>Non-Proposition 218 Applicable:</b>				
Treated Water:				
Resale	3,975,000	4,800,000	4,800,000	
Other	760,000	760,000	760,000	Fire Protection, Construction Meters
Raw Water:				
Resale	306,000	306,000	306,000	
Raw water demand fees	6,600	6,600	6,600	
Subtotal Non- Prop 218 Applicable Water Rates & Charges	5,047,600	5,872,600	5,872,600	
<b>Total Water Sales</b>	<b>33,747,600</b>	<b>32,072,600</b>	<b>33,572,600</b>	
<b>Other Revenue:</b>				
Engineering Charges	225,000	225,000	225,000	
Customer Service Charges	725,000	725,000	725,000	
Contributions in Aid of Construction (Install Charges)	35,000	35,000	35,000	
Interest Earnings (Operations Portion)	500,000	825,000	825,000	
Grants	50,000	50,000	10,000	Water efficiency rebates & DWR grants
Other (Operating and Non-Operating)	5,000	5,000	5,000	
Total Other Operating Revenue	1,540,000	1,865,000	1,825,000	
<b>Total Revenue</b>	<b>35,287,600</b>	<b>33,937,600</b>	<b>35,397,600</b>	
<b>Operating Expense by Department</b>				
Customer Services	4,485,920	4,468,920	4,388,900	
Field Services	10,621,889	10,621,889	10,623,334	
Technical Services	8,868,674	8,864,374	8,865,342	
Subtotal Departmental Operating Expense	23,976,483	23,955,183	23,877,576	
Service Level Support	3,991,881	3,991,881	4,185,294	See Combining Schedule
Subtotal	27,968,364	27,947,064	28,062,870	
Routine Capital	561,450	565,750	622,750	
Fund Revenue Volatility Designation	50,000	-	50,000	Note 1
Fund Operational Designation	200,000	-	134,307	Note 1
<b>Subtotal</b>	<b>28,779,814</b>	<b>28,512,814</b>	<b>28,869,927</b>	
Depreciation (Note 2):				
Projects - Current Year	3,200,000	2,200,000	4,240,000	
Capital Designation Addition	1,850,000	1,770,208	810,000	Funded at year-end, as available
Subtotal	5,050,000	3,970,208	5,050,000	Note 2
<b>Total Operating Expense</b>	<b>33,829,814</b>	<b>32,483,022</b>	<b>33,919,927</b>	
<b>Debt Service</b>				
Debt Service - Ops Funded Portion (Principal & Interest)	1,454,578	1,454,578	1,477,673	Note 3
<b>Total Expense, Debt Service, and Designations</b>	<b>35,284,392</b>	<b>33,937,600</b>	<b>35,397,600</b>	
Revenue Over (Under) Expense, Debt Service, and Designations	3,208	-	-	
(To) From Designated/Reserved Funds	(3,208)	-	-	
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**Note 1** - In accordance with Agency Net Asset and Designation Policy, the **Revenue Volatility and Operational Designations** will be funded up to the target levels at year end as funds are available.

**Note 2** - The Agency's **designation policy** establishes the funding of depreciation up to 100% of prior year's actual depreciation expense. The 2010 depreciation expense in the audited financial statements for the Western Water System totaled \$16,941,000. Therefore, this 2012 Budget includes only 30% of the target goal of 100% of prior year's actual depreciation expense. This amount is down from last year's 32% funding level. Amounts are funded at year-end as available.

**Note 3** - 2012 Budget debt service includes an additional expense amount of \$143,529 for financed projects fully utilized related to operations.

# Placer County Water Agency

## Eastern Water System

### 2012 Budget Schedule

<u>Water System Operating</u>	<b>2011 Adopted Budget</b>	<b>2011 Adjusted Budget</b>	<b>2012 Budget</b>	<b>Notes</b>
<b>Revenue</b>				
<b>Water Sales:</b>				
<b>Proposition 218 Applicable:</b>				
Service Charge	\$ 450,000	450,000	500,000	Note 1 Martis Camp new customers
Commodity	20,000	20,000	20,000	Note 1
Subtotal - Prop 218 Applicable Water Rates & Charges	470,000	470,000	520,000	
<b>Non-Proposition 218 Applicable</b>				
Other	1,600	1,600	1,600	
<b>Total Water Sales</b>	<b>471,600</b>	<b>471,600</b>	<b>521,600</b>	
<b>Other Revenue:</b>				
Engineering Charges	190,000	190,000	130,000	Note 2
Customer Service Charges	6,000	6,000	6,000	
Contributions in Aid of Construction (Install Charges)	20,000	20,000	20,000	
Interest Earnings	10,000	10,000	10,000	
Other (Operating and Non-Operating)	-	-	-	
Total Other Operating Revenue	226,000	226,000	166,000	
<b>Total Revenue</b>	<b>697,600</b>	<b>697,600</b>	<b>687,600</b>	
<b>Operating Expense by Department</b>				
Customer Services	34,200	34,200	28,326	
Field Services	20,000	20,000	7,000	
Technical Services	437,340	437,340	402,317	Note 2
Subtotal	491,540	491,540	437,643	
Service Level Support	65,886	65,886	76,716	
Subtotal	557,426	557,426	514,359	
Routine Capital	-	-	-	
Operational Designation per Policy	5,300	5,300	5,300	
<b>Subtotal Operating Expense</b>	<b>562,726</b>	<b>562,726</b>	<b>519,659</b>	
<b>Depreciation:</b>				
Projects - Current Year	-	-	-	
Capital Designation Addition	134,874	134,874	167,941	
Subtotal	134,874	134,874	167,941	Note 3
<b>Total Operating Expense</b>	<b>697,600</b>	<b>697,600</b>	<b>687,600</b>	
<b>Revenue Over (Under) Expense and Designations</b>				
	-	-	-	
<b>(To) From Designated/Reserved Funds</b>				
	-	-	-	
<b>Eastern Water System Facilities Center Designation</b>				
	-	-	-	
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**Note 1** - The 2012 Budget for **water sales** increased to reflect the increase in customer accounts in the Martis Camp development.

**Note 2** - **Engineering charges** included in the Technical Services Budget are budgeted expenses for work on Facilities Agreements (Developer projects). As with all specific project work, the developer will be billed directly for Agency services performed. Thus, Engineering Charge revenue will be assessed for this work.

**Note 3** - The Agency's **designation policy** establishes the funding of depreciation up to 100% of prior year's actual depreciation expense. The 2010 depreciation expense for the Eastern Water System totaled \$445,940. Therefore, this 2012 Budget funds 40% of the target goal of 100% of prior year's actual depreciation expense. This amount is up from last year's 34% depreciation funding level. Amounts are funded at year-end as funds are available.

# Placer County Water Agency

## Western Water System

### Restricted and Designated Revenue and Expense Activity Schedule

#### 2012 Budget Schedule

	2011 Adopted Budget	2011 Adjusted Budget	2012 Budget	
<b><u>Water Connection Charge (WCC)</u></b>				
Revenue	\$ 500,000	100,000	-	
Capital Project Budget	(400,000)	(400,000)	-	
Debt Service	(5,465,854)	(5,465,854)	<b>(4,037,890)</b>	Note 4
Transfer In (Out)	5,365,854	5,765,854	<b>4,037,890</b>	Note 1
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	
<b><u>Renewal and Replacement</u></b>				
Revenue	\$ 8,560,000	8,560,000	<b>8,800,000</b>	Note 2
Capital Project Budget	(10,950,000)	(10,950,000)	<b>(10,906,000)</b>	
Debt Service (paid in January & June)	(770,768)	(770,768)	<b>(2,051,754)</b>	Note 5
Transfer In (Out)	3,160,768	3,160,768	<b>4,157,754</b>	Note 1
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	
<b><u>State and Federal Mandate</u></b>				
Capital Project Budget	-	-	<b>(5,500,000)</b>	Note 6
Transfer In (Out)	-	-	<b>5,500,000</b>	
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	
<b><u>Capital Facilities (Raw Water) Surcharge</u></b>				
Revenue	\$ 250,000	250,000	<b>250,000</b>	
Capital Project Budget	-	-	-	Note 3
Transfer In (Out)	(250,000)	(250,000)	<b>(250,000)</b>	Note 1
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**Note 1 - Transfer In (Out)** is the funding from specific revenue received, interest earnings, debt proceeds (when available) and funds returned on closed projects. Funding and projects expenses in these restricted and designated accounts are kept segregated. Including the projected 2012 revenue, each of these accounts is forecasted to have sufficient funding for the capital projects budget. Throughout the year, individual capital project budget's are only setup and funded with available funds. To ensure sufficient funding, as possible, current budget year projects are funded with prior year's revenue received.

**Note 2 -** The current year **Renewal and Replacement** revenue is used to fund subsequent year projects (i.e. 2011 revenue funds 2012 projects) and pay debt service.

**Note 3 -** There are no 2012 **Capital Facilities** projects budgeted, as revenues collected will be accumulated for larger project needs in future years.

**Note 4 -** This is after **debt service shift** to Renewal & Replacement and Operations based on facilities at full capacity.

**Note 5 -** 2012 **Renewal and Replacement debt service** includes amounts for expansion projects which have been at full capacity for 10 years or more.

**Note 6 -** In the 2012 Capital Project Budget, two projects, Bowman WTP Convert to Sodium Hypochlorite and Ophir Road Pipelines, are being funded by remaining **State and Federal Mandate funds**.

# Placer County Water Agency

## Eastern Water System

### Designated Revenue and Expense Activity Schedule

#### 2012 Budget Schedule

	<b>2011 Adopted Budget</b>	<b>2011 Adjusted Budget</b>	<b>2012 Budget</b>	
<b><u>Renewal and Replacement</u></b>				
Revenue	\$ 240,000	240,000	<b>260,000</b>	Note 2
Capital Project Budget	-	-	-	
Transfer In (Out)	(240,000)	(240,000)	<b>(260,000)</b>	Note 1
<b>Net</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	

**Note 1 - Transfer In (Out)** is the funding from specific revenue received, interest earnings, and funds returned on closed projects. Funding and project expenses in this designated account are kept segregated. Including the projected 2012 revenue, this account is forecasted to have sufficient funding for the capital projects budget. Throughout the year, individual capital project budgets are only setup and funded with available funds. To ensure sufficient funding, as possible, current budget year projects are funded with prior year's revenue received.

**Note 2 -** The current year **Renewal and Replacement** revenue is used to fund subsequent year projects (i.e. 2011 revenue funds 2012 projects).

# Placer County Water Agency

## Western and Eastern Water Systems - Combined Schedule

### Statement of Expense by Department and Category - Budget Schedule

Years 2011 - 2012

	2011 Adopted Budget	2011 Adjusted Budget	2012 Budget
<b>Operating Expenses</b>			
<u>Expense by Department:</u>			
Customer Services	\$ 4,520,120	4,503,120	4,417,226
Field Services	10,641,889	10,641,889	10,630,334
Technical Services	9,306,014	9,301,714	9,267,659
Service Level Support	4,057,767	4,057,767	4,262,010 <span style="float: right;">Note 1</span>
Total Departmental Expenses	\$ 28,525,790	28,504,490	28,577,229
 <u>Expense by Category:</u>			
Personnel Services (Salary & Benefits)	\$ 14,024,064	14,007,064	14,234,429
Operating Supplies	1,612,945	1,608,645	1,564,250
Chemicals	724,000	724,000	721,000
Fuel & Oil	340,500	340,500	402,020
Operating Services	1,835,755	1,835,755	1,810,890
Utilities (Electricity, Natural Gas, Sewer)	1,901,050	1,901,050	1,681,350
Insurance	-	-	- <span style="float: right;">Note 1</span>
Purchased Water	751,909	751,909	724,000
Membership Dues and Subscriptions	52,750	52,750	54,650
Professional Services	1,645,050	1,645,050	1,379,530
Guniting	1,500,000	1,500,000	1,645,000
Inspection Services	25,000	25,000	30,000
Legal Services	55,000	55,000	68,100
Service Level Support	4,057,767	4,057,767	4,262,010
Total Expenses by Category	\$ 28,525,790	28,504,490	28,577,229

**General Note** - For purposes of consistency, **routine capital** is not included in amounts shown above. Routine capital is a separate line item budget on the operations budget. As approved, the routine capital amounts will be included in the administering departmental operating budgets.

**Note 1** - **Insurance** is handled by the risk management function in Administrative Services, therefore certain insurance costs are distributed through the service level support.

# Placer County Water Agency

## Water Division

### Statement of Revenue, Expense and Net Assets - Actual and Budget {Financial Statement Format}

#### Years 2006-2012

	Audited 2006	Audited 2007	Audited 2008	Audited 2009	Audited 2010	Adjusted 2011 Budget	2012 Budget	
<b>Operating Revenue</b>								
Water Sales	\$ 24,877,317	27,101,824	29,477,518	32,222,790	30,871,328	32,544,200	34,094,200	
Engineering Charges	1,217,052	1,341,132	1,022,958	427,685	332,079	415,000	355,000	
Customer Service Charges	408,207	559,654	694,941	720,659	729,211	731,000	731,000	
Other Revenue	12,143	24,576	14,035	36,678	12,112	5,000	5,000	
	<u>26,514,719</u>	<u>29,027,186</u>	<u>31,209,452</u>	<u>33,407,812</u>	<u>31,944,730</u>	<u>33,695,200</u>	<u>35,185,200</u>	
<b>Operating Expense</b>								
Purchased Water	692,772	548,603	506,356	556,381	526,000	691,909	724,000	
Water Treatment	3,865,521	5,069,522	4,907,964	5,045,678	4,778,433	5,951,941	5,722,962	
Pumping Plants & Wells	490,489	813,773	343,307	924,010	1,145,969	1,525,050	1,528,257	
Transmission and Distribution:								
Treated Water	1,975,944	2,598,647	1,962,865	2,485,308	1,885,157	3,116,697	2,856,862	
Raw Water	3,950,875	6,379,545	4,585,251	4,893,950	4,275,715	4,984,967	5,191,191	
Field Administration	825,782	827,780	926,740	845,047	989,590	996,340	937,854	
Customer Service and Collection	2,921,951	3,057,287	3,668,885	3,662,276	3,677,977	3,947,895	3,818,680	
Safety	633,045	-	-	-	-	-	-	
Automotive & Equipment	648,417	723,910	770,538	730,705	743,402	851,976	920,427	
Engineering	2,271,729	2,650,710	4,968,733	1,984,077	2,380,852	1,829,023	2,016,440	
General and Administrative	3,022,232	2,124,290	4,079,409	5,129,296	4,964,016	4,629,992	4,860,556	
	<u>21,298,757</u>	<u>24,794,067</u>	<u>26,720,048</u>	<u>26,256,728</u>	<u>25,367,111</u>	<u>28,525,790</u>	<u>28,577,229</u>	
Depreciation	5,857,081	8,001,459	10,265,515	16,358,907	17,387,246	4,105,082	5,217,941	Note 1
Total Operating Expense	<u>27,155,838</u>	<u>32,795,526</u>	<u>36,985,563</u>	<u>42,615,635</u>	<u>42,754,357</u>	<u>32,630,872</u>	<u>33,795,170</u>	
<b>Operating Income (Loss)</b>	<b>(641,119)</b>	<b>(3,768,340)</b>	<b>(5,776,111)</b>	<b>(9,207,823)</b>	<b>(10,809,627)</b>	<b>1,064,328</b>	<b>1,390,030</b>	Note 1
<b>Non-Operating Revenue</b>								
Contributions in Aid of Construction	268,581	172,762	360,138	32,326	35,699	55,000	55,000	
Cost Recovered from Other Agencies		181,433	-	-	12,950	-	-	
Mandated Charge	3,067,699	3,476,813	3,866,668	267,334	3,101	-	-	
Water Connection Charge	16,717,799	4,426,211	3,503,063	6,439,564	426,965	100,000	-	
Capital Facilities Charge	367,564	249,357	265,697	272,440	275,570	250,000	250,000	
Renewal and Replacement Charge	5,555,772	8,051,114	8,696,868	9,062,968	9,184,101	8,800,000	9,060,000	
Interest Earnings	4,415,983	3,943,033	3,477,529	2,977,129	1,888,575	835,000	835,000	
Taxes - Debt Service	90,554	11,047	-	-	-	-	-	
Assessments	2,207	20,195	2,044	1,882	1,719	-	-	
Gain (Loss) on Disposal of Assets		14,166	12,325	50,278	(68,332)	-	-	
Grant	82,879	307,974	207,551	256,965	118,864	50,000	10,000	
Other	1,209,496	1,116,773	(1,675,904)	740,513	(2,078,350)	-	-	
	<u>31,778,534</u>	<u>21,970,878</u>	<u>18,715,979</u>	<u>20,101,399</u>	<u>9,800,862</u>	<u>10,090,000</u>	<u>10,210,000</u>	
<b>Non-Operating Expense</b>								
Interest Expense	2,303,748	2,617,425	4,111,593	4,302,978	4,294,966	4,757,725	4,061,031	
Amortization of Bond Issue Cost	344,183	379,745	506,362	498,118	488,075	576,455	457,110	
	<u>2,647,931</u>	<u>2,997,170</u>	<u>4,617,955</u>	<u>4,801,096</u>	<u>4,783,041</u>	<u>5,334,180</u>	<u>4,518,141</u>	
Contributed Capital	11,110,528	5,134,544	60,085,414	3,649,500	330,288	-	-	
Transfers	57,232	-	4,945	894,362	655,381	-	-	
<b>Net</b>	<b>39,657,244</b>	<b>20,339,912</b>	<b>68,412,272</b>	<b>10,636,342</b>	<b>(4,806,137)</b>	<b>5,820,148</b>	<b>7,081,889</b>	
Beginning Net Assets	341,030,022	380,687,266	401,027,178	469,439,450	480,075,792	475,269,655	481,089,803	
Prior Period Adjustment	-	-	-	-	-	-	-	
Contributed Capital	-	-	-	-	-	-	-	
<b>Ending Net Assets</b>	<b>\$ 380,687,266</b>	<b>401,027,178</b>	<b>469,439,450</b>	<b>480,075,792</b>	<b>475,269,655</b>	<b>481,089,803</b>	<b>488,171,692</b>	

**Note 1** - The audited financial statements for the years 2006 - 2010 reflect an operating loss that is directly attributed to the increase in depreciation expense from new facilities being completed. Over the past several years, the Water System has budgeted for a portion of depreciation expense totaling about \$5 million, yet the actual depreciation expense for 2010 totaled \$17.4 million.

# Placer County Water Agency

## Western Water System

### Unrestricted Board Designation Accounts - Years 2011-2012

<b>Western Water System</b>	2011 Activity			<b>Balance July 2011</b>	<b>2012 Budget Sources/(Uses) (Note 5)</b>	<b>Estimated Total</b>
	<b>Year Ended December 31, 2010</b>	<b>Interest Thru June 2011</b>	<b>Current Year Transfers/ Funding/Revenue (Note 1 and 3)</b>			
<b>Operational:</b>						
Contingencies	\$ 1,920,577	16,307		1,936,884		1,936,884
Operational	2,953,685	19,305		(300,000)	<b>134,307</b>	2,807,297
Revenue Volatility (Note 4)	3,463,435	28,619		3,492,054	<b>50,000</b>	3,542,054
Energy Volatility	813,482	6,908		820,390		820,390
<b>Capital:</b>						
Building and Facilities Maintenance and Improvements	1,028,724	8,735		1,037,459	<b>810,000</b>	1,847,459
System Replacement and Improvements Vehicles, Equipment and Other Routine Capital Replacement	8,647,549	68,195		8,715,744		8,715,744
	900,297	7,645		907,942		907,942
<b>Liabilities:</b>						
Compensated Absences (current portion)	1,883,000	15,988		1,898,988		1,898,988
Revolving Grant Matching Funds (Note 2)	1,057,867	8,982		1,066,849		1,066,849
Risk Management Claim Liability/Deductible	116,460	989		117,449		117,449
<b>Specific Activities &amp; Projects:</b>						
Service Center - Corporation Yard	5,437,978	46,173		5,484,151	<b>(500,000)</b>	4,984,151
Water and Energy Efficiency Strategies	268,096	2,276		270,372		270,372
Catastrophic Event	5,033,706	26,650		5,060,356		5,060,356
<b>Total Western Water System - Designated</b>	<b>\$ 33,524,856</b>	<b>256,772</b>	<b>-</b>	<b>(300,000)</b>	<b>33,481,628</b>	<b>494,307</b>

**Note 1 - Funding for 2011** will be applied in accordance with the designation policy, with capital funding designations included in Specific Activities and Projects.

**Note 2 - Revolving Grant Matching Funds** are available if needed to fund grant expenses anticipated on being reimbursed.

**Note 3 - Specified Revenue designations** (Renewal & Replacement and Capital Facilities Charges) are billed and collected in separate accounts to be used for their specific and identified purpose. Given that these accounts have both identified funding sources and uses and are segregated in both the annual budget and financial statements, these designations are excluded from this schedule. Almost all the funds from these revenues are held for use in projects.

**Note 4 - Revenue Volatility designation** funds are available to offset potential water sales revenue shortfalls due to weather variances.

**Note 5 - Sources of Designations in 2012 Budget** will only be funded at year-end if funds are available.

# Placer County Water Agency

## Eastern Water System

### Unrestricted Board Designation Accounts - Years 2011-2012

<u>Eastern Water System</u>	2011 Activity				Balance July 2011	2012 Budget Sources/(Uses) (Note 2)	Estimated Total
	Year Ended December 31, 2010	Interest Thru June 2011	Current Year Transfers/ Funding/Revenue (Note 1)	2011 Board Approved Uses			
<b>Operational:</b>							
Operational	96,021	547			96,568	<b>5,300</b>	101,868
<b>Capital:</b>							
System Replacement and Improvements	467,546	2,897			470,443	<b>167,941</b>	638,384
<b>Total Eastern Water System - Designated</b>	<b>\$ 563,567</b>	<b>3,444</b>	-	-	<b>567,011</b>	<b>173,241</b>	<b>740,252</b>

**Note 1 - Funding for 2011** will be applied in accordance with the designation policy, with capital funding designations included in Specific Activities and Projects.

**Note 2 - Sources of Designations in 2012 Budget** will only be funded at year-end if funds are available.

**Placer County Water Agency**

**Summary Routine Capital**

**Agency Wide, Power and Water**

**2006 - 2012 Budget Schedule**

	2006 Budget	2007 Budget	2008 Budget	2009 Budget	2010 Budget	2011 Budget (Note 1)	2012 Budget (Note 1)		
							Agency Wide	Power	Water
<b>Vehicles</b>	\$ 218,600	525,857	288,500	821,880	287,880	452,000	30,000	275,000	205,000
<b>Equipment &amp; Tools</b>	489,724	620,517	602,959	143,250	391,300	58,400	-	125,860	289,000
<b>Office Furniture and Equipment</b>	25,000	30,000	12,700	5,000	14,500	31,000	6,000	-	14,000
<b>Computer Software and Hardware</b>	35,250	30,000	225,300	145,580	322,550	225,750	138,832	10,000	114,750
<b>SCADA</b>	62,000	-	9,500	-	22,000	45,600	27,600	-	-
<b>Miscellaneous</b>	-	-	-	-	32,000	-	-	-	-
<b>Total</b>	<u>\$ 830,574</u>	<u>1,206,374</u>	<u>1,138,959</u>	<u>1,115,710</u>	<u>1,070,230</u>	<u>812,750</u>	<u>202,432</u>	<u>410,860</u>	<u>622,750</u>

**General Note** - For budgeting purposes, routine capital is shown as a separate line item in the respective budget units. However, if approved, for accountability the routine capital is incorporated into the departmental budgets.

**Note 1** - The Power Division was added in 2011, however, it must be noted that for comparison purposes, the Power Division fund routine capital was not included in years 2006 - 2010.

**Placer County Water Agency**  
**Definitions and Nature of Accounts**  
**2012 Budget**

**2012 Budget Water Sales**– The Water Division’s water sales budget is based on long-term trends of water usage and water revenue. A number of factors influence annual water sales with the most significant fluctuations attributed to weather. The Agency’s long-term trend budgeting approach is conservative and incorporates weather effects in a manner to smooth annual weather variations.

**Assessments** –Funds collected from properties within an improvement district to pay debt incurred to construct infrastructure in that improvement district.

**Capital Facilities Charge** - For raw water repairs and replacement to existing facilities and structures, primarily canals, flumes and pipes (raw water charge).

**Contributions in Aid of Construction** – Revenue from customers/developers for a certain portion of the water meter installation costs on new construction.

**Depreciation** – The process of expensing the service life of fixed assets attributable to deterioration, wear and tear. The budgeted depreciation amounts provide funding for current and future capital replacement either directly or through the established designations.

**Designated Funding Source** – This is specific revenue derived from billings that is “designated” for specific projects. These would include the Renewal and Replacement Charge or Capital Facilities Charge.

**Intergovernmental revenue**– Funds received from other governmental agencies.

**One-time Water Sales** – From time to time the Agency has an opportunity to sell bulk water to other State wholesalers, retailers or the water bank.

**Purchased Water** – The 2012 Water Division budget includes \$721,020 for purchased water comprised of the following: PG&E \$184,020, City of Roseville \$20,000, Nevada Irrigation District \$342,000 and Agency Wide \$175,000.

**Renewal and Replacement Charge** – Determined based on the renewal and replacement needs of the treated and raw water facilities from the supply source through the water treatment plants and transmission to the customers.

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# Capital Investment Program

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# Capital Investment Program

This Capital Investment Program (CIP) Section consists of three documents: 1) Capital Project Budget detailing the various 2012 Agency Wide, Power Division and Water Division CIP budgeted projects, 2) 5-Year Capital Investment Program and 3) 2012 Capital Project descriptions.

The first document is the ***2012 Capital Project Budget***, which details the budgeted 2012 projects, the administering Department, the funding source (for example, Water Connection Charge, Surcharge or Water Rate Revenue) and the 2012 budgeted amounts.

The second document is the ***5-Year Capital Investment Program***, which details the project description, anticipated funding source, administering department and the estimated annual funding appropriation for the next five years (2012 – 2016).

The third document is the ***Capital Investment Program – 2012 Project Descriptions***, which presents a brief description of each 2012 project nature and details.

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# 2012 Capital Project Budget



water • energy • stewardship

## 2012 Capital Project Budget

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Renewal & Replacement	Grants	Loans	Operations	Designations	Other	Middle Fork Project	2012 TOTAL
<b>AGENCY WIDE PROJECTS</b>												
09018A	American River Water Rights Extension	ENG	Water Supply	\$ 650,000					1,200,000			1,200,000
<b>SUB-TOTAL AGENCY WIDE PROJECTS</b>					-	-	-	-	<b>1,200,000</b>	-	-	<b>1,200,000</b>
<b>RELICENSING, POWER RESOURCES MANAGEMENT, AND BETTERMENTS, IMPROVEMENTS AND MODERNIZATIONS</b>												
	Hell Hole Seasonal Storage Increase	Strategic Affairs	Dam								200,000	200,000
09023A	L.L. Anderson Dam Spillway Modification	ENG	Dam	17,650,000							2,510,000	2,510,000
	License Implementation and Permitting	Strategic Affairs	Misc								225,000	225,000
01030A	MFP FERC Relicensing	Strategic Affairs	Misc	36,899,518							1,335,000	1,335,000
08008A	Power Resources Management (Business and Marketing Plan)	Strategic Affairs	Plan	1,910,000							1,232,000	1,232,000
	Project Outlet Works Upgrades	Strategic Affairs	Dam								150,000	150,000
08006A	Risk Assessment and Management	Strategic Affairs	Plan	235,000							100,000	100,000
	Small Diversion Upgrades	Strategic Affairs	Dam								200,000	200,000
08007A	Standard Operating Plan and Procedures	Strategic Affairs	Plan	1,975,000							500,000	500,000
08009A	System Controls, Instrumentation, Communications	Strategic Affairs	SCADA	4,074,000							775,000	775,000
<b>SUB-TOTAL RELICENSING, POWER RESOURCES MANAGEMENT, AND BETTERMENTS, IMPROVEMENTS AND MODERNIZATIONS</b>					-	-	-	-	-	-	<b>7,227,000</b>	<b>7,227,000</b>
<b>TOTAL AGENCY WIDE PROJECTS</b>					-	-	-	-	<b>1,200,000</b>	-	<b>7,227,000</b>	<b>8,427,000</b>
<b>WESTERN WATER SYSTEM PROJECTS</b>												
	Advanced Metering Infrastructure (AMI) Program	CS	Meters					150,000				150,000
	Antelope Creek Water Efficiency and Flood Control Project	FIELD	Canal			384,000						384,000

## 2012 Capital Project Budget

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Renewal & Replacement	Grants	Loans	Operations	Designations	Other	Middle Fork Project	2012 TOTAL
	Bowman WTP Access Road Repair	ENG	Treatment Plant		100,000							100,000
	Bowman WTP Convert to Sodium Hypochlorite	ENG	Treatment Plant							1,000,000		1,000,000
	Bowman WTP Roof Replacement	ENG	Treatment Plant		100,000							100,000
	Canyon Creek Pulp Mill Tunnel	ENG	Canal		100,000							100,000
08021F	Caperton-Capacity Expansion	FIELD	Canal	1,305,379	250,000							250,000
	Cherry Tree & Secret Town Pipeline	ENG	Canal		100,000							100,000
	City of Rocklin - Grove Street Roundabout	ENG	Pipe		150,000							150,000
	Electric Street Reservoir Replacement	ENG	Tank	800,000			7,015,000					7,015,000
	Foothill WTP FTW Pond Rehab	WQ	Treatment Plant		100,000							100,000
	Gilardi Road Overpass Pipeline	ENG	Pipe		100,000							100,000
	Gold Run Phase 5	ENG	Canal		1,500,000							1,500,000
06043E	Heritage Center	ENG	Office	650,000	100,000							100,000
	Hillcrest Drive Tree Removal	FIELD	Pipe		100,000							100,000
09002E	Keena/Bell Pipeline	ENG	Pipe	100,000	1,000,000							1,000,000
	Leak Detection and Repair - Alta and Colfax	FIELD	Pipe			126,060						126,060
	Lincoln Station Hydropower	ENG	Plant				1,200,000					1,200,000
	Locksley Lane Intertie with NID	ENG	Water Supply		150,000							150,000
	Luther Road Intertie Meter with NID	ENG	Water Supply		50,000							50,000
	Old State Highway - Buena Vista to Taylor Road	ENG	Pipe		556,000							556,000

## 2012 Capital Project Budget

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Renewal & Replacement	Grants	Loans	Operations	Designations	Other	Middle Fork Project	2012 TOTAL	
10017E	Ophir Road Pipelines	ENG	Pipe	9,000,000	5,500,000			3,000,000		4,500,000		13,000,000	
	Ragsdale Tunnel Repair	ENG	Canal		200,000							200,000	
	SCADA iHistorian Optimization	IS	SCADA					30,000				30,000	
	SCADA Server/Workstation Separation & Upgrades Phase 1	IS	SCADA					140,000				140,000	
	SCADA Software Improvements	IS	SCADA					70,000				70,000	
	Telephone and Fiber Upgrade - Maidu Corp Yard	IS	Communications						500,000			500,000	
	Tinker Road PS Modifications	ENG	Pump Station					250,000				250,000	
11002A	YBDS Water Supply Project	Strategic Affairs	Water Supply	385,000				600,000				600,000	
05071E	Z1-Well Expansion Project	ENG	Water Supply	42,995	750,000							750,000	
<b>TOTAL WESTERN WATER SYSTEM PROJECTS</b>					<b>10,906,000</b>	<b>510,060</b>	<b>8,215,000</b>	<b>4,240,000</b>	<b>500,000</b>	<b>5,500,000</b>	<b>-</b>	<b>29,871,060</b>	
						<b>Note 1</b>	<b>Note 2</b>			<b>Note 3</b>	<b>Note 4</b>		
<p><b>Note 1 - Grants</b> - Advance funding for reimbursement grants will be provided, as needed, from pooled cash and investments. In-kind services required for grants are included in the 2012 departmental operations budget.</p> <p><b>Note 2 - Loans</b> - Advance funding for the Safe Drinking Water State Revolving Fund loan for the Electric Street Reservoir Replacement project will be provided, as needed, from pooled cash and investments. Loan claims for reimbursement will be submitted quarterly. The loan for the Lincoln Station Hydropower project will be provided by the Hell Hole Fund operations cash.</p> <p><b>Note 3 - Designations</b> - The Telephone and Fiber Upgrade - Maidu Corp Yard project will be funded from existing designated funds.</p> <p><b>Note 4 - Other</b> - The Bowman WTP Convert to Sodium Hypochlorite and a portion of Ophir Road Pipelines projects will be funded by the available remaining State and Federal Mandate (SFM) funds. As the SFM revenue was incorporated with operations in 2009, these funds are similar to operations funds. These projects will utilize the available remaining SFM funds and there will be no future SFM funds.</p>													
<b>POWER DIVISION PROJECTS</b>													
	Campgrounds Water Well	PWR						700,000				700,000	
	Interbay Dam Spill Gates Float Controller Replacement	PWR						300,000				300,000	
	L.L. Anderson Dam Low Level Pipe Inlet Slide Gate	PWR						50,000				50,000	
	PG&E Engineering & Estimating	PWR						85,000				85,000	

## 2012 Capital Project Budget

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Renewal & Replacement	Grants	Loans	Operations	Designations	Other	Middle Fork Project	2012 TOTAL
	Ralston Tunnel Adit Inspection & MF Tunnel Long Canyon Access	PWR						150,000				150,000
	Remove Large Buildup of Sediment in Front of Intake Structure at North Fork	PWR						100,000				100,000
	Review Slope Stability Above Three Penstock Valve Houses	PWR						50,000				50,000
	Security Improvements	PWR						10,000				10,000
	Straighten Stem & Replace Stem Guides at Oxbow Tunnel Intake	PWR						100,000				100,000
	Switchyard Grounding Studies	PWR						75,000				75,000
	Switchyard Grounding Design/Implementation	PWR						300,000				300,000
	Wood Pole Inspection & Replacement	PWR						150,000				150,000
<b>TOTAL POWER DIVISION PROJECTS</b>					-	-	-	<b>2,070,000</b>	-	-	-	<b>2,070,000</b>
<b>TOTAL CIP BUDGET</b>					<b>\$ 10,906,000</b>	<b>510,060</b>	<b>8,215,000</b>	<b>6,310,000</b>	<b>1,700,000</b>	<b>5,500,000</b>	<b>7,227,000</b>	<b>40,368,060</b>

# Capital Investment Program

*5-Year Capital Investment Program*



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## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
<b>AGENCY WIDE PROJECTS</b>										
09018A	American River Water Rights Extension	ENG	Water Supply	\$ 650,000	1,200,000	500,000	500,000			2,200,000
<b>SUB-TOTAL AGENCY WIDE PROJECTS</b>					<b>1,200,000</b>	<b>500,000</b>	<b>500,000</b>	-	-	<b>2,200,000</b>
<b>RELICENSING, POWER RESOURCES MANAGEMENT, AND BETTERMENTS, IMPROVEMENTS AND MODERNIZATIONS</b>										
	Hell Hole Seasonal Storage Increase	Strategic Affairs	Dam		200,000	200,000				400,000
09023A	L.L. Anderson Dam Spillway Modification	ENG	Dam	17,650,000	2,510,000					2,510,000
	License Implementation and Permitting	Strategic Affairs	Misc		225,000	225,000				450,000
01030A	MFP FERC Relicensing	Strategic Affairs	Misc	36,899,518	1,335,000	165,000				1,500,000
08008A	Power Resources Management (Business and Marketing Plan)	Strategic Affairs	Plan	1,910,000	1,232,000	800,000				2,032,000
	Project Outlet Works Upgrades	Strategic Affairs	Dam		150,000	150,000				300,000
08006A	Risk Assessment and Management	Strategic Affairs	Plan	235,000	100,000	100,000				200,000
	Small Diversion Upgrades	Strategic Affairs	Dam		200,000	200,000				400,000
08007A	Standard Operating Plan and Procedures	Strategic Affairs	Plan	1,975,000	500,000	750,000				1,250,000
08009A	System Controls, Instrumentation, Communications	Strategic Affairs	SCADA	4,074,000	775,000	1,275,000				2,050,000
<b>SUB-TOTAL RELICENSING, POWER RESOURCES MANAGEMENT, AND BETTERMENTS, IMPROVEMENTS AND MODERNIZATIONS</b>					<b>7,227,000</b>	<b>3,865,000</b>	-	-	-	<b>11,092,000</b>
<b>TOTAL AGENCY WIDE PROJECTS</b>					<b>8,427,000</b>	<b>4,365,000</b>	<b>500,000</b>	-	-	<b>13,292,000</b>
<b>WESTERN WATER SYSTEM PROJECTS</b>										
	Advanced Metering Infrastructure (AMI) Program	CS	Meters		150,000	150,000	150,000	150,000	150,000	750,000
	Alta Powerhouse Road Pipe Replacement	ENG	Pipe				100,000			100,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	Alta Surge Tank	ENG	Tank						250,000	250,000
	Alta WTP Access Road	ENG	Treatment Plant						150,000	150,000
	Antelope Creek Water Efficiency and Flood Control Project	FIELD	Canal		384,000					384,000
	Bell Road Overpass Pipeline	ENG	Pipe				250,000			250,000
	Boardman Canal YB78A to Mammoth Reservoir, Erosion Control	FIELD	Canal			500,000				500,000
	Bowman 250 kw Generator & Loadbank	ENG	Treatment Plant				1,000,000			1,000,000
	Bowman Treated Water Pipe Replacement, WTP to Bowman Rd.	ENG	Pipe						150,000	150,000
	Bowman WTP Access Road Repair	ENG	Treatment Plant		100,000					100,000
	Bowman WTP Automated Raw Water Screen	ENG	Treatment Plant			500,000				500,000
	Bowman WTP Convert to Sodium Hypochlorite	ENG	Treatment Plant		1,000,000					1,000,000
	Bowman WTP Effluent Pipe to Shadow Rock	ENG	Treatment Plant						500,000	500,000
	Bowman WTP Roof Replacement	ENG	Treatment Plant		100,000					100,000
	Cable Road Pipe Replacement, Alta	ENG	Pipe				150,000			150,000
	Canyon Creek Pulp Mill Tunnel	ENG	Canal		100,000		100,000	1,000,000		1,200,000
	Caperton Reservoir, Desilt	ENG	Reservoir					600,000		600,000
08021F	Caperton-Capacity Expansion	FIELD	Canal	1,305,379	250,000	250,000				500,000
	Cherry Tree & Secret Town Pipeline	ENG	Canal		100,000	1,000,000				1,100,000
	City of Rocklin - Grove Street Roundabout	ENG	Pipe		150,000					150,000
	Clover Valley Reservoir Inlet Pipe & Desilt	ENG	Reservoir			200,000	3,000,000			3,200,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	Clover Valley Reservoir Outlet Valve	ENG	Reservoir				500,000			500,000
	Covey Road Pipe Replacement	ENG	Pipe			300,000				300,000
	Electric Street Reservoir Replacement	ENG	Tank	800,000	7,015,000					7,015,000
	Foothill WTP FTW Pond Rehab	WQ	Treatment Plant		100,000					100,000
	Freeman Canal from End to Caltrans Spill	FIELD	Canal			300,000				300,000
	Freeman Canal on Wesley Lane Phase 2	FIELD	Canal				100,000			100,000
	Gilardi Road Overpass Pipeline	ENG	Pipe		100,000					100,000
	Gold Run Phase 5	ENG	Canal		1,500,000					1,500,000
	Gold Run Phase 6	ENG	Canal						2,500,000	2,500,000
	Hayford Siphon Phase 2	ENG	Canal				150,000	1,500,000		1,650,000
06043E	Heritage Center	ENG	Office	650,000	100,000					100,000
	High Street from Elm to East Placer	FIELD	Pipe				200,000			200,000
	Hillcrest Drive Tree Removal	FIELD	Pipe		100,000					100,000
09002E	Keena/Bell Pipeline	ENG	Pipe	100,000	1,000,000					1,000,000
	Kilmer Siphon Replacement	ENG	Canal				500,000			500,000
	Lake Theodore Capacity Increase	ENG	Reservoir						250,000	250,000
	Lange Hill from Main to end of Main	ENG	Pipe					750,000		750,000
	Leak Detection and Repair - Alta and Colfax	FIELD	Pipe		126,060					126,060
	Lincoln Station Hydropower	ENG	Plant		1,200,000					1,200,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	Locksley Lane Intertie with NID	ENG	Water Supply		150,000					150,000
	Long Ravine	ENG	Canal					300,000	3,000,000	3,300,000
	Lower Banvard Pipe	FIELD	Canal				150,000			150,000
	Luther Road Intertie Meter with NID	ENG	Water Supply		50,000					50,000
	Lyall Canal Extension	ENG	Canal				300,000			300,000
	McCrary Reservoir Desilt	ENG	Reservoir				200,000			200,000
	Monte Vista Redundant Filter	ENG	Treatment Plant						150,000	150,000
	Network Links & Cabling Testing & Certification	IS	SCADA						50,000	50,000
	Newcastle Interstate Crossing	ENG	Pipe						100,000	100,000
	Old State Highway - Buena Vista to Taylor Road	ENG	Pipe		556,000					556,000
10017E	Ophir Pipelines	ENG	Pipe	9,000,000	13,000,000					13,000,000
	Ophir/Combie Canal Upsize, NID	ENG	Water Supply				200,000	1,000,000		1,200,000
	Orange Street from California to Finely	ENG	Pipe				300,000			300,000
	Pipe Random at Bowman WTP	ENG	Canal					200,000		200,000
	Ragsdale Tunnel Repair	ENG	Canal		200,000					200,000
	Robie Point/Aeolia Heights Pipelines	ENG	Pipe					650,000		650,000
	Rocklin Front Yard Watermain Relocations	ENG	Pipe			1,000,000				1,000,000
	Sanitary Survey/Update - American River	WQ	Plan				50,000			50,000
	Sanitary Survey/Update - Yuba-Bear Supply	WQ	Plan						50,000	50,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	SCADA Backup System Upgrade	IS	SCADA			30,000				30,000
	SCADA iHistorian Optimization	IS	SCADA		30,000					30,000
	SCADA Server/Workstation Separation & Upgrades Phase 1	IS	SCADA		140,000					140,000
	SCADA Server/Workstation Separation & Upgrades Phase 2	IS	SCADA			120,000				120,000
	SCADA Server/Workstation Separation & Upgrades Phase 3	IS	SCADA						90,000	90,000
	SCADA Software Improvements	IS	SCADA		70,000	70,000			70,000	210,000
	Serial/Console Port Remote Access & Security	IS	SCADA			30,000				30,000
09001E	South Canal Intake	ENG	Water Supply	300,000		1,250,000				1,250,000
	Sunset 2.5 MG Tank & PRV Site Improvements	ENG	Tank						150,000	150,000
	Sunset Blvd from Pacific to Whitney	ENG	Pipe			500,000				500,000
	Sunset WTP Basin Renovation	ENG	Treatment Plant				500,000			500,000
	Sunset WTP Solids Handling	ENG	Treatment Plant				500,000	1,500,000		2,000,000
	Tank Recoating 2013 (Bell Road, Colfax BP, Colfax 1.0)	ENG	Tank			800,000				800,000
	Tank Recoating 2015 (Stanford Ranch & Sunset 2.5)	ENG	Tank					800,000		800,000
	Telephone and Fiber Upgrade - Maidu Corp Yard	ENG	Communications		500,000					500,000
	Tinker Road PS Modifications	ENG	Pump Station		250,000					250,000
	Toykayana Way from Ben Taylor to Pineroft	ENG	Pipe				100,000			100,000
	Urban Water Management Plan (2015)	ENG	Plan					100,000		100,000
	Whitney Blvd. from Sunset Blvd. to Crest Dr. Rocklin	ENG	Pipe						1,000,000	1,000,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
11002A	YBDS Water Supply Project	Strategic Affairs	Water Supply	385,000	600,000	500,000	250,000	250,000	250,000	1,850,000
05071E	Z1 - Well Expansion Project	ENG	Water Supply	42,995	750,000	2,250,000				3,000,000
<b>TOTAL WESTERN WATER SYSTEM PROJECTS</b>					<b>29,871,060</b>	<b>9,750,000</b>	<b>8,750,000</b>	<b>8,800,000</b>	<b>8,860,000</b>	<b>66,031,060</b>
<b>POWER DIVISION PROJECTS</b>										
	Campgrounds Water Well	PWR			700,000					700,000
	Hell Hole Seasonal Storage Increase	PWR					200,000	200,000	2,000,000	2,400,000
	Install New Thrust Bearing Lift Pump at French Meadows	PWR					300,000			300,000
	Install/Improve Cooling Water Pump Control at Middle Fork Powerhouse	PWR				50,000				50,000
	Install/Improve Cooling Water Strainers at Oxbow Powerhouse	PWR				100,000	100,000			200,000
	Interbay Dam Spill Gates Float Controller Replacement	PWR			300,000					300,000
	L.L. Anderson Dam Low Level Pipe Inlet Slide Gate	PWR			50,000					50,000
	NERC/WECC Compliance Support	PWR				155,000	155,000	155,000	155,000	620,000
	New Gages	PWR					20,000	80,000		100,000
	New Trails to Gages	PWR					3,000	25,000	65,000	93,000
	Outlet Works Modification - Hell Hole Reservoir	PWR					300,000	1,500,000	500,000	2,300,000
	Outlet Works Modification - Middle Fork Interbay	PWR					50,000	200,000		250,000
	Outlet Works Modification - French Meadows Reservoir	PWR					50,000	200,000		250,000
	Permitting - Project Betterment and Small Diversion Modifications	PWR					225,000	225,000	225,000	675,000
	PG&E Engineering & Estimating	PWR			85,000					85,000

## 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	Ralston Tunnel Adit Inspection & MF Tunnel Long Canyon Access	PWR			150,000					150,000
	Recreation Facility Capital Improvements	PWR				700,000	700,000	700,000	500,000	2,600,000
	Re-coat Inside of Middle Fork Penstock	PWR				850,000				850,000
	Re-coat Inside of Ralston Penstock	PWR				550,000				550,000
	Relocate Old Penstock Flow Meter from Middle Fork to French Meadows	PWR				25,000				25,000
	Remove Large Buildup of Sediment in Front of Intake Structure at North Fork	PWR			100,000					100,000
	Replace Main Ralston Transformer	PWR					1,000,000			1,000,000
	Replace Middle Fork Powerhouse ACB	PWR					550,000			550,000
	Replace Oil Circuit Breaker #32 at Middle Fork Powerhouse	PWR							65,000	65,000
	Replace Middle Fork Main Bank Step-up Auto-transformers	PWR						1,400,000	1,400,000	2,800,000
	Replace Unit Governor at Oxbow Powerhouse	PWR				400,000				400,000
	Replace Unit Breakers at Middle Fork Powerhouse	PWR				450,000				450,000
	Resurface or Pave French Meadows Powerhouse Road	PWR					200,000			200,000
	Resurface or Pave Middle Fork Tunnel Intake Road	PWR						150,000		150,000
	Review Slope Stability Above Three Penstock Valve Houses	PWR			50,000					50,000
	Risk Assessment and Management	PWR					100,000	100,000	100,000	300,000
	Security Improvements	PWR			10,000					10,000
	Small Diversion Dam Modification - Duncan Creek	PWR					1,000,000	1,000,000	1,000,000	3,000,000
	Small Diversion Dam Modification - North Fork Long Canyon	PWR					600,000	600,000	600,000	1,800,000

### 2012 Capital Investment Program - Five Year Plan

Project No.	Project Description	Project Lead	Project Type	Prior Funding	Budget 2012	Projected 2013	Projected 2014	Projected 2015	Projected 2016	TOTAL 2012-2016
	Small Diversion Dam Modification - South Fork Long Canyon	PWR					600,000	600,000	600,000	1,800,000
	Straighten Stem & Replace Stem Guides at Oxbow Tunnel Intake	PWR			100,000					100,000
	Switchyard Grounding Studies	PWR			75,000					75,000
	Switchyard Grounding Design/Implementation	PWR			300,000					300,000
	System Controls, Instrumentation, Communications	PWR					1,000,000	350,000	350,000	1,700,000
	Upgrade Electrical Motor Controls for Cooling Water and Sump Pumps	PWR				50,000	50,000			100,000
	Upgrade Trash Rack Cleaner at Ralston Tunnel Intake	PWR					200,000			200,000
	Wood Pole Inspection & Replacement	PWR			150,000					150,000
<b>TOTAL POWER DIVISION PROJECTS</b>					<b>2,070,000</b>	<b>3,330,000</b>	<b>7,403,000</b>	<b>7,485,000</b>	<b>7,560,000</b>	<b>27,848,000</b>
<b>TOTAL CIP BUDGET</b>					<b>\$ 40,368,060</b>	<b>17,445,000</b>	<b>16,653,000</b>	<b>16,285,000</b>	<b>16,420,000</b>	<b>107,171,060</b>

# Capital Investment Program

*2012 Project Descriptions*



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# Placer County Water Agency 2012

## Project Descriptions

### AGENCY WIDE PROJECTS

#### AMERICAN RIVER WATER RIGHTS EXTENSION

This project will prepare the required environmental documents to extend the horizon of perfecting the American River Water Rights to Year 2043. This will include analyzing impacts of increasing PCWA's American River diversions from current levels to 120,000 acre-feet. The areas of analysis will include the American River, Folsom reservoir, Lower American River, the Delta and expected locations of consumption. In 2012, staff and consultants will continue drafting the required CEQA documentation.

#### HELL HOLE SEASONAL STORAGE INCREASE

The installation of 6 foot high crest gates to the existing dam spillway will increase power generation and seasonal storage by approximately 7600 ac-ft. Work in 2012 will focus on permitting and furthering design criteria in order to begin construction within 5 years of new license issuance.

#### L.L. ANDERSON DAM SPILLWAY MODIFICATION

This project is under construction to widen the spillway that flows from French Meadows reservoir. The widened spillway will safely pass the revised probable maximum flood determined by the US Army Corps of Engineers and increase operational flexibility. The project is co-funded by the Agency and Pacific Gas & Electric Company. The majority of construction should be completed in 2011, with minor clean-up and restoration of work areas in 2012.

#### LICENSE IMPLEMENTATION AND PERMITTING

This project begins the planning process for implementation and compliance tracking of new license conditions. It also includes gathering permits for upcoming construction and facility modification work.

#### MIDDLE FORK PROJECT – FERC RELICENSING

The Agency's FERC license to operate its hydroelectric facilities on the Middle Fork of the American River expires in 2013. This project includes all costs in pursuing the new license, including the preparation and submittal of the Draft and Final License Applications, the preparation of environmental documents, and associated costs. 2012 work will focus on assisting FERC in preparation of their NEPA document and preparation of a CEQA document to assist the State Water Resources Control Board in issuance of a Section 401 certificate.

## **POWER RESOURCES MANAGEMENT (BUSINESS AND MARKETING PLAN)**

Development of Power Resources Management (Business and Marketing Plan) is a joint effort between Agency and Placer County staff that focuses on budgeting, staffing, power sale, risk management and reserve policies for the MFP beginning in 2013. In addition, the business and marketing team will be working to draft a new five-year energy sale contract with Pacific Gas and Electric for the 2013 to 2018 period. Work in 2012 will also focus on development of operating rules for the MFP in light of new FERC license conditions, and development of new duties, responsibilities and business practices for the post-2013 period.

## **PROJECT OUTLET WORKS UPGRADES**

The outlet works of several MFP facilities require upgrades in order to make minimum streamflow releases mandated by the new license requirements. In order to begin construction in a timely manner, design and permitting work must begin in 2012.

## **RISK ASSESSMENT AND MANAGEMENT**

The purpose of the risk assessment project is to evaluate the condition of the existing infrastructure of the Middle Fork Project, estimate risk exposure (failure modes, probability of failure, and potential losses from failure), and identify actions to reduce risk. An assessment of remaining life of existing equipment, testing/inspection, maintenance activities, and projected replacement time has been prepared. In 2012, the Risk Assessment Project team will focus on the migration of the completed inventory assessment to a database. The database will become a practical tool for monitoring/managing risk exposure and will also be a tool for maintenance, planning, and budgeting purposes.

## **SMALL DIVERSION UPGRADES**

Project includes modifying existing intakes structures to operate automatically during storm events to maintain full diversion capability and avoid large sediment entering the tunnel. Modified intake structures will also maintain consistent sediment pass-through to eliminate the need for manual removal.

## **STANDARD OPERATING PLAN AND PROCEDURES**

This project creates an operations and maintenance plan for all aspects of the Middle Fork Project. A revised operations manual that reflects modern standards has been compiled from the many existing manuals for the Middle Fork Project. In 2012, several outstanding portions of the operations manual will be developed using specialized hydropower industry expertise. Agency staff will begin to design programs to address, in-house, the operating requirements such as safety and training policies, and NERC and WECC compliance. In addition, the Standard Operating Plan and Procedure program includes the documentation and refinement of practices such as water management, sediment management, road maintenance, and tunnel dewatering.

## **SYSTEM CONTROL, INSTRUMENTATION, AND COMMUNICATION**

This project has several components: evaluating and upgrading the existing Supervisory Control and Data Acquisition (SCADA) for the Middle Fork Project control systems; increasing the robustness of the control communications system; improvements to system security to meet

NERC and WECC requirements; upgrading controls at Middle Fork and Ralston powerhouses to enable single set point operation for all three generators; improving the historical data acquisition, storage and analysis capabilities; and, installation of a Remote Intelligent Gateway (RIG) to allow Automatic Generation Control (AGC) by the ISO. 2011 Project highlights include installation of state-of-the-art digital governor controls at Middle Fork #2 and Ralston generating units, enhancement of MFP communication facilities, design and installation of automated control systems and installation of advanced database hardware and software.

### **WATER DIVISION PROJECTS**

#### **ADVANCED METERING INFRASTRUCTURE (AMI) PROGRAM**

This project will convert existing Automated Meter Reading (AMR) system to fixed base Advanced Metering Infrastructure system (AMI). This would allow reads to be uploaded as needed without a dispatch, a current reading history stored in the data base for Customer Service and almost immediate leak detection capabilities to save water. The current Meter Readers would be redeployed to leak detection and meter testing over time as the AMI system is deployed.

#### **ANTELOPE CREEK WATER EFFICIENCY AND FLOOD CONTROL PROJECT**

This project will replace Antelope Canal spill check structures and install energy dissipaters downstream of the spills to capture sediments from the canal, reducing the potential of sediment transport between the spill and Antelope Creek. It will also increase the height of the sides of Antelope Canal in selected areas.

#### **BOWMAN WTP ACCESS ROAD REPAIR**

This project will restore and overlay portions of the access road to the Bowman WTP. The road is more than a half mile long and in poor condition. Use of the road is shared by PG&E; therefore, the Agency will discuss the possibility of cost share with them.

#### **BOWMAN WTP CONVERT TO SODIUM HYPOCHLORITE**

This project will convert the method of disinfection at Bowman WTP from gaseous chlorine to sodium hypochlorite (liquid chlorine). Chlorine gas can be extremely dangerous; therefore, its use forces several operational safety procedures and liability. Conversion to sodium hypochlorite is underway at Foothill WTP, after completion at the Bowman WTP the Agency will no longer be operating with chlorine gas.

#### **BOWMAN WTP ROOF REPLACEMENT**

The roof over the main building at Bowman WTP is beyond its expected life and in need of constant patch repair. This project will rebuild a new roof.

### **CANYON CREEK PULP MILL TUNNEL**

This is a short tunnel that supplies water to Lake Alta and the entire Zone 3 canal system. The tunnel has shown minor signs of failure and needs an assessment by a tunnel geologist. A repair project in accordance with the assessment will be proposed in a future budget year.

### **CAPERTON-CAPACITY EXPANSION**

This project will continue lining the Caperton canal with gunite and raising the canal berms at locations where freeboard is inadequate. The project has been ongoing for several years because the work can only be completed in small portions so the Agency can maintain service to its customers.

### **CERRY TREE & SECRET TOWN PIPELINE**

The Boardman Canal below Secret Town Road flows through three flumes that are being replaced with pipelines. The first flume is Spikes, which is being replaced at this time. The second two are Cherry Tree and Secret Town, which are included in this project and will be replaced by a pipeline in the adjacent County Road.

### **CITY OF ROCKLIN – GROVE STREET ROUNDABOUT**

The City of Rocklin is planning to construct two roundabouts along Rocklin Road. The Roundabout at the intersection with Grove Street is planned for 2012. The Agency pipeline in Rocklin Road is an older one that should be replaced to avoid leaks and repair work in the City's improvements and to relocate it outside of the center island of the roundabout.

### **ELECTRIC STREET RESERVOIR REPLACEMENT**

This project will replace the current 2.25 million gallon in-ground treated water reservoir with a 5 million gallon above ground tank. The current reservoir was converted from a canal facility using flexible covers, represents a significant maintenance liability, and provides inadequate storage for the current customer base. The project has recently been awarded a State Revolving Fund loan through the Department of Public Health.

### **FOOTHILL WTP FTW POND REHAB**

This project will repair the existing filter to waste pond lining at Foothill WTP. Adjacent trees have destroyed the lining, causing loss of water.

### **GILARDI ROAD OVERPASS PIPELINE**

This project is a result of a Caltrans led project to raise the Gilardi Road overpass over Interstate 80. The Agency has a transmission line from Foothill WTP in the overpass bridge, which will need to be raised with the existing bridge and then reconnected to pipelines in the bridge approaches.

### **GOLD RUN PHASE 5**

This project will construct Phase 5 of the Gold Run Pipeline portion of the Boardman Canal. This project includes approximately 1,500 feet of pipe and a new pressure sustaining station at the downstream connection with the existing pipeline.

### **HERITAGE CENTER**

This project will restore the interior of the Agency's Heritage Center Building and convert it to office space. The project also includes utility upgrades and providing the building with access to the Agency's SCADA system.

### **HILLCREST DRIVE TREE REMOVAL**

This project will remove trees along Hillcrest Drive near Colfax where the trees have become a maintenance problem for the Agency's treated water pipeline.

### **KEENA/BELL PIPELINE**

This project will replace approximately 1,600 lineal feet of 14 inch treated waterline with 18 inch waterline between Keena Drive and Bell Road. The existing welded steel pipeline was installed in 1947 through numerous private properties and has a history of leaks.

### **LEAK DETECTION AND REPAIR – ALTA AND COLFAX**

This project will install permanent correlating leak detection dataloggers on the metal water mains in the communities of Alta and Colfax.

### **LINCOLN STATION HYDROPOWER**

This project will construct a hydropower station at the Lincoln Metering Station. The station delivers most of the City's water supply and also is used to decrease water system pressure, making it an ideal location for hydropower.

### **LOCKSLEY LANE INTERTIE WITH NID**

This project will construct a new intertie with NID at Locksley Lane, near Bell Road in Auburn.

### **LUTHER ROAD INTERTIE METER WITH NID**

This project will install a flow meter at the existing intertie with NID at Luther Road near Highway 49.

### **OLD STATE HIGHWAY – BUENA VISTA TO TAYLOR ROAD**

This project will replace a treated water pipeline in the Old State Highway in Newcastle. The pipeline is very old and undersized. This project will extend a new larger pipeline through town and into Taylor Road.

### **OPHIR ROAD PIPELINES**

This project will construct a raw water pipeline from Ophir Pump Station to Dutch Ravine and constructed a treated water pipeline from the Newcastle Tank to downtown Newcastle and to Ophir Pump Station. The raw water pipeline will increase supply reliability and allow more supply to Foothill Water Treatment Plant.

### **RAGSDALE TUNNEL REPAIR**

This project will repair the failing interior of the Ragsdale Tunnel, an approximately 200 foot section located approximately 400 feet in from the entrance. This tunnel is a critical supply to Upper Zone 1.

### **SCADA IHISTORIAN OPTIMIZATION**

This project is to optimize the new iHistorian SCADA server that was installed in 2011. Tasks include cleanup of tags, review and update recording intervals and compression settings, install clients on all iFix nodes and perform software updates. This helps ensure the Agency meets water quality standards for governmental reporting.

### **SCADA SERVER/WORKSTATION SEPARATION & UPGRADES PHASE 1**

This project will separate Water SCADA Servers from SCADA Workstations. This will increase security and reliability on the Water SCADA Network by placing SCADA WTP server functions on separate computers and removing access to the SCADA Servers.

### **SCADA SOFTWARE IMPROVEMENTS**

Perform updates to SCADA software, servers, PLCs, radios and other components as requested by SCADA users, in particular, Water Quality and Field Services.

### **TELEPHONE AND FIBER UPGRADE – MAIDU CORP YARD**

This project is to upgrade the telephone system and electrical wiring at the Maidu Corp Yard, increase reliability, incorporate the Maidu phones into the Agency's regular phone network and create redundancy for the entire Auburn area Agency phone network.

### **TINKER ROAD PS MODIFICATIONS**

This project will increase the discharge pressure of the pumps at Tinker Road Tank and Pump Station to better handle the variability in pressures within the Roseville water system.

### **YBDS WATER SUPPLY PROJECT**

Staff and consultants will monitor PG&E, NID, and YCWA's relicensing proceedings for possible changes in their operating conditions that may affect PCWA's water supplies. Modeling efforts and legal staff time will be utilized to fully evaluate these impacts imposed by regulatory authorities.

### **Z1-WELL EXPANSION PROJECT**

This project will construct a new groundwater well in the Sunset Industrial pressure zone and make improvements to the existing Sunset Industrial Well. The project includes a substantial contribution from the State Department of Water Resources through a Proposition 50 grant. This critical project will boost water supply reliability and be a step toward conjunctive use for western Placer County.

## **POWER DIVISION PROJECTS**

### **CAMPGROUNDS WATER WELL**

This project is to replace the existing well at Big Meadows campground and repair the associated water system.

### **INTERBAY DAM SPILL GATES FLOAT CONTROLLER REPLACEMENT**

This project will replace the existing float control system with an updated supervisory and float control system that provides more control flexibility and is less susceptible to mis-operation.

### **L.L. ANDERSON DAM LOW LEVEL PIPE INLET SLIDE GATE**

This project is to assess the current condition of the low level outlet upstream gate system, to investigate alternatives for reducing gate leakage and, depending on the alternative selected, begin design of the modifications and planning for dive operations.

### **PG&E ENGINEERING AND ESTIMATING**

This project is for routine engineering and estimating provided by PG&E.

### **RALSTON TUNNEL ADIT INSPECTION & MIDDLE FORK TUNNEL LONG CANYON ACCESS**

This project will find, establish access, and investigate the condition of the Ralston tunnel adit.

### **REMOVE LARGE BUILDUP OF SEDIMENT IN FRONT OF INTAKE STRUCTURE AT NORTH FORK**

This project will unwater the diversion pool at North Fork Long Canyon, install a creek bypass system, and mechanically remove the sediment pile in front of the diversion intake. This project includes associated permit requisition.

### **REVIEW SLOPE STABILITY ABOVE THREE PENSTOCK VALVE HOUSES**

The steep rock slopes above and adjacent to the Ralston, Middle Fork and French Meadows penstocks and valve houses were investigated for stability /rockfall potential in the 1990's. This project provides for follow-up investigations to assess any new or hidden stability / rockfall issues, and provides for minor scaling, if needed.

### **SECURITY IMPROVEMENTS**

This project will improve security in the upper project areas by providing fencing and barriers.

### **STRAIGHTEN STEM & REPLACE STEM GUIDES AT OXBOW TUNNEL INTAKE**

The intake gate for Oxbow Powerhouse operates roughly and does not close completely using solely the oil accumulator backup system. An operating stem section is slightly bent. This project provides for review of existing gate investigations, review of operating and equipment condition, including obsolete equipment, and evaluation of repair or replacement alternatives to provide a safe working emergency gate closure system.

### **SWITCHYARD GROUNDING STUDIES**

PG&E has notified PCWA that potential grounding issues may exist at our powerhouses. Grounding deficiencies were found at Ralston Powerhouse by PG&E as part of a grounding study, and recommendations for repair were made. This project provides funds to study the grounding systems at Middle Fork, French Meadows and Oxbow Powerhouses. This project also provides funding for minor system repairs. Funding for large scale repairs is not included in this project.

### **SWITCHYARD GROUNDING DESIGN/IMPLEMENTATION**

This project provides for repairs to implement PG&E's findings and recommendations for repair of the grounding systems at the powerhouses described above.

### **WOOD POLE INSPECTION & REPLACEMENT**

Replace or refurbish project transmission line wood poles that were identified by the 2011 inspection and maintenance project.

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# Supplemental Information

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1 Cubic Foot	=	7.48 GAL
100 Cubic Feet	=	748 GAL
100 Cubic Feet	=	1CCF (std. bill unit*)
1 Acre Foot**	=	43,560 CF
1 Acre Foot**	=	325,851 GAL
1 CFS	=	448.8 GPM
1 CFS	=	646,272 GPD
1 CFS for 24 hours	=	1.98 AF
1 CFS for 30 days	=	59.5 AF
1 CFS for one year	=	724 AF
1 Gallon	=	8.34 Pounds
1 MGD	=	3.07 AF per day
1 MGD	=	1,120 AF per year
1 Miners' Inch	=	11.22 GPM
1 Miners' Inch	=	16,157 GPD
1 Miners' Inch	=	1.49 AF for 30 days
1 Miners' Inch	=	18.10 AF for 1 year

## ABBREVIATIONS

AF	=	Acre foot	GAL	=	Gallon
CF	=	Cubic foot	GPD	=	Gallons per day
CCF	=	100 Cubic feet	GPM	=	Gallons per minute
CFS	=	Cubic foot per second	MGD	=	Million gallons per day

\* The Agency bills per unit of measure, which is 100 cubic feet (unit).

\*\* An acre-foot of water is enough to cover one acre of land one foot deep.



PLACER COUNTY WATER AGENCY  
SINCE 1957

<b>BOARD OF DIRECTORS</b>	<b>BUSINESS CENTER</b>
Gray Allen, District 1	144 Ferguson Road
Alex Ferreira, District 2	<b>MAIL</b>
Lowell Jarvis, District 3	P.O. Box 6570
Mike Lee, District 4	Auburn, CA 95604
Ben Mavy, District 5	<b>PHONE</b>
	530.823.4850
David Breninger, General Manager	800.464.0030
Ed Tiedemann, General Counsel	<b>WWW.PCWA.NET</b>

## OVERVIEW OF THE PLACER COUNTY WATER AGENCY

**Placer County Water Agency (PCWA)** was created in 1957 under its own state legislative Act entitled the “Placer County Water Agency Act.” The Agency is self-governed with policy and regulatory decisions determined by an independently elected five member Board of Directors. Highly experienced men and women working together as a team under administrative direction of a General Manager provide Agency services and activities. Since its inception the Agency has been actively involved in Placer County’s 1,500 square miles on a wide variety of water and energy issues.

### Agency Wide

Agency officials understand the complexities, interrelationships and importance to sustain reliable and affordable water and energy for Placer County’s present and future needs. The Agency holds extensive “area of origin” surface water entitlements within Placer County on the Middle Fork American River. Water is sold wholesale to various water purveyors who retail it to their customers. Agency Wide activities are varied and far ranging. These include involvement in water issues affecting the Lake Tahoe and Truckee River, the American River, the Yuba/Bear Rivers, the Sacramento River and the Bay/Delta system. The Agency is actively involved in numerous collaborative partnerships, watershed stewardship, surface and groundwater management integrated water resource planning, and regional infrastructure projects. Advocacy for Agency water entitlements and energy resources for Placer County are at the forefront of Agency Wide interests and activities.

### Power Division

The Agency’s Power Division was established with the construction of the Middle Fork American River Project that began in 1963 and was completed in 1967. The Agency owns and operates five interconnected hydroelectric power plants, two major storage reservoirs (French Meadows and Hell Hole) and twenty-four miles of tunnels. The Project can generate, at peak power, 244 megawatts. Annually, the average production is 1.03 billion kilowatt hours of hydroelectric power that is wholesaled to Pacific Gas and Electric Company. This is sufficient to provide reliable power to over a quarter of a million retail electricity customers. The Middle Fork Project is the eighth largest public power project in California. The Project also provides important public recreational opportunities, including campgrounds and boating facilities as constructed by the Agency and operated through the U.S. Forest Service.

### Water Division

The Agency’s Water Division was established in 1968. It has become the largest water purveyor in the county serving more than 38,758 water accounts in several water service zones. Surface water supplies are purchased from PG&E (from the Yuba/Bear Rivers) and Agency Wide (from the American River). The Agency owns and operates 165 miles of canals, ditches, flumes and several small reservoirs, most of which were built in the gold rush era. A significant amount of Agency raw water irrigates pastures, orchards, rice fields, farms, ranches, golf courses and landscaping. The Agency owns and operates eight water treatment plants, 33 water tanks and more than 549 miles of treated water pipelines. Treated surface water is sold directly to Agency customers residing in Auburn, Colfax, Loomis, Rocklin, portions of Roseville and throughout various unincorporated areas of Placer County. Agency treated water is also sold wholesale to the City of Lincoln and other purveyors who retail it directly to their customers. The Agency also utilizes groundwater for customers in Eastern Placer County’s Martis Valley and to occasionally supplement surface water supplies when needed in Western Placer County.

Inquiries may be referred to the PCWA Customer Service Center at (530) 823-4850 or to our web site at [www.pcwa.net](http://www.pcwa.net).

***PLACER COUNTY WATER AGENCY***  
**AUTHORIZED AND BUDGETED POSITIONS**  
 As of: 10/25/11

The following is a summary of authorized and budgeted regular positions of the Agency.

**PART 1:**

**GOVERNANCE POSITIONS:**

BOARD OF DIRECTORS	5
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**PART 2:**

**STAFF POSITIONS:**

**REGULAR:**

Regular positions are also referred to as “full time” or “core” positions and each is budgeted at 2,080 hours annually (40 hour week x 52 weeks).

GENERAL MANAGER’S OFFICE	2
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MANAGEMENT SERVICES	28
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FINANCIAL SERVICES	14	
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ADMINISTRATIVE SERVICES	9	
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Authorized and budgeted but position held open by the General Manager	1	
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STRATEGIC AFFAIRS	4	
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POWER DIVISION	18
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WATER DIVISION:	132
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CUSTOMER SERVICES	29	
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FIELD SERVICES	52	
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TECHNICAL SERVICES	51	
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REGULAR POSITIONS TOTAL:	<b><u>180</u></b>
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# PLACER COUNTY WATER AGENCY

**PCWA AGENCY WIDE BOUNDARY:** CREATED IN 1957 BY SPECIAL ACT OF THE STATE OF CALIFORNIA, THE "PCWA ACT" PRESERVES JURISDICTION OVER THE STATE'S WATER RESOURCES WITHIN THE ACT'S BOUNDARIES AND SOVEREIGNTY OVER THE ENTIRE PLACER COUNTY WITH THE GEOGRAPHICAL BOUNDARY OF THE COUNTY OF PLACER.

**PCWA WATER STORAGE SHED BOUNDARY:**  
From November through June, the Agency has rights to divert water originating within this shed boundary for storage in the Agency's reservoirs. From July through October, the Agency has rights to divert water originating within this shed boundary for use in the Agency's reservoirs.

**PCWA POWER SYSTEM SHED BOUNDARY:**  
The Agency has rights to use water originating within this shed area for hydroelectric power production. From November through June the Agency has rights to divert water originating within this shed boundary for use in the Agency's reservoirs. From July through October, the Agency has rights to divert water originating within this shed boundary for use in the Agency's reservoirs.

**PCWA WATER SYSTEM AREA ZONE 5 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 3 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 2 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 1 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 4 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 6 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 7 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 8 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 9 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 10 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 11 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 12 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 13 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA WATER SYSTEM AREA ZONE 14 (COMMERCIAL, AGRICULTURAL, LAND):**  
PCWA's FOLSOM DIVISION (OFF OF RESIDENTIAL SERVICE AREA)

**PCWA MAJOR CANALS & RESERVOIRS**

**PCWA TREATMENT PLANTS**

**PCWA POWER HOUSES (PH)**

**PCWA PUMP STATIONS**

**PCWA WELLS**

**PCWA/FOREST SERVICE CAMPGROUNDS**

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**PCWA/FOREST SERVICE CAMPGROUNDS**



**Placer County Water Agency**  
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[www.pcwa.net](http://www.pcwa.net)