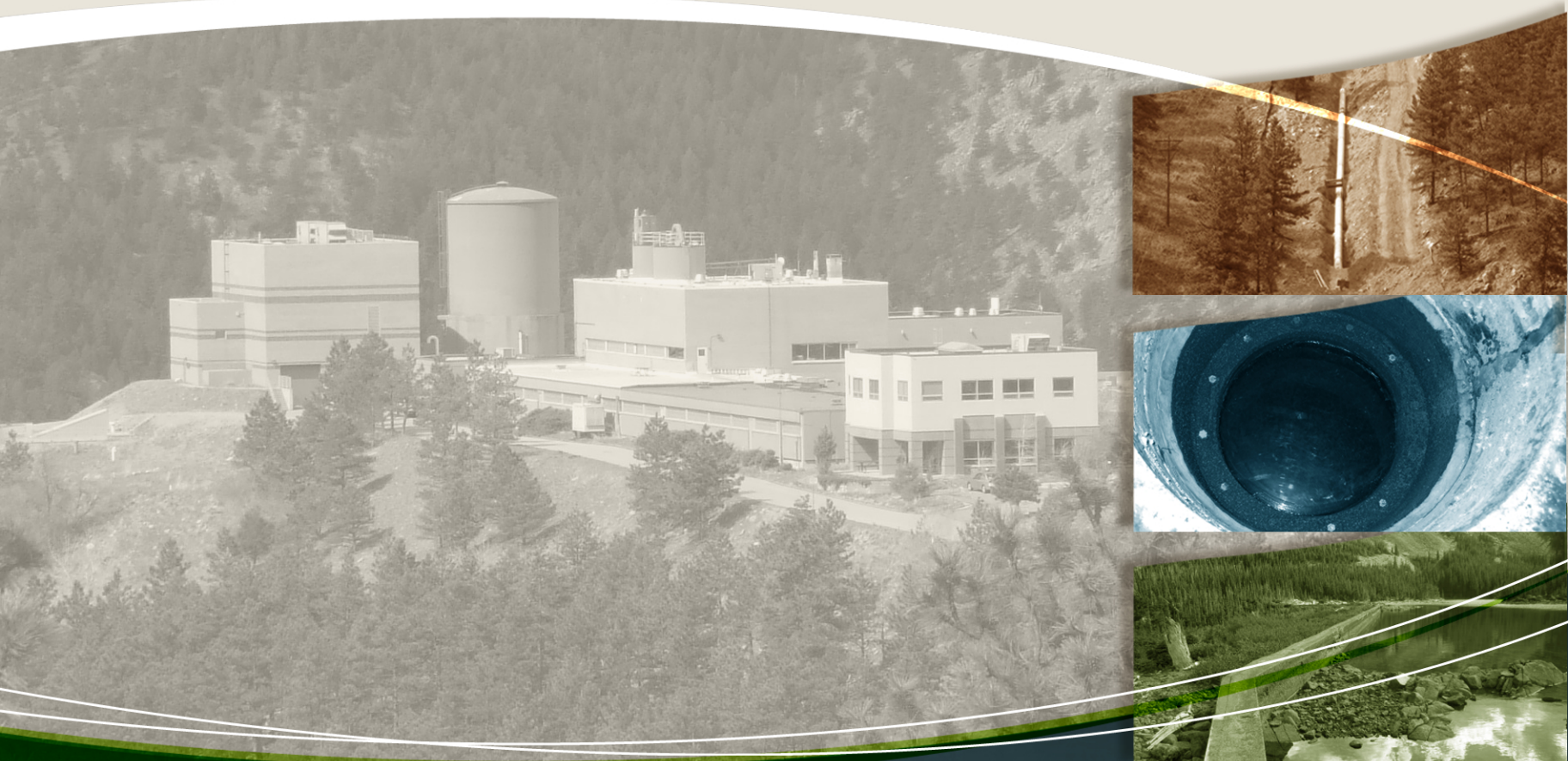




PREPARED FOR  
CITY OF BOULDER

# Consolidated Capital Improvements Plan

OCTOBER 2011



WUMP VOLUME 6



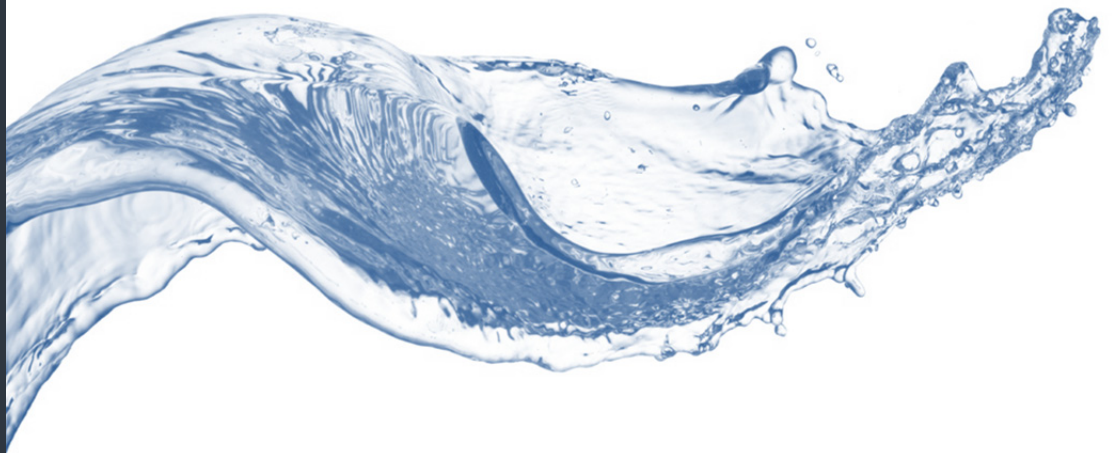
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*BUILDING A BETTER WORLD*

# VolumeSix

City of Boulder

## Consolidated Capital Improvements Plan



October 2011

**FINAL**



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## Acknowledgements

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# 1 Consolidated Capital Improvements Plan

The purpose of this task is to prepare a consolidated prioritized capital improvements plan (CIP) from the CIP recommendations included in the (WQSP), the Source Water Master Plan (SWMP), and the Treated Water Master Plan (TWMP). This volume is separated into 4 subsections:

- Consolidated CIP Development Approach
- Budgeting Process and Current Fiscal Constraints
- Categorization and Prioritization of Projects
- Water Utility Capital Improvements Plan

## 1.1 Consolidated CIP Development Approach

The capital improvements program (CIP) list is generated to ensure that the City of Boulder is consistently meeting regulatory requirements, providing good customer service, and maintaining infrastructure assets in a sound, functioning condition. The City has decided to consolidate the CIPs developed from different operating groups into a single CIP such that overall available funding is spent wisely and prioritizations are considered in the context of the water utility as a whole across all divisions. The development of a consolidated CIP, as part this WUMP, represents a shift from previous planning efforts for individual parts of the water utility toward a more coordinated and integrated planning approach. This more recent approach solicits input from amongst the different groups analyzing how each part affects the whole from both a capital and operations and maintenance perspective. For instance, operationally, treatment of water at the Betasso WTF is less expensive and provides hydropower revenue. Although there may be water in storage that could be treated at the Betasso WTF, some of that storage must be kept as drought reserve and therefore, a portion of the water supply must be treated at the Boulder Reservoir WTF. The source water and water treatment groups are now working together to coordinate how much water is treated from what water source under what conditions. These coordinated operational efforts have resulted in a more holistic view of the entire water supply system from watershed to customer tap and the interdependent relationships of the various system components that impacts capital and operations planning. It is this understanding of the interdependent relationships and how each part affects the whole that ultimately allows for the desired outcome, proper prioritization of projects across the entire water utility. It is anticipated that the consolidated CIP developed in this WUMP will be revised as part of the regular CIP revision process as collaboration efforts and understanding continue to increase across the water utility.

## 1.2 Budget Process and Assumptions

### 1.2.1 Budgeting Process

The first year's program in the CIP is adopted by the City Council as the Capital Budget, as a counterpart to the annual Operating Budget. Even though fiscal resources are appropriated only in the first year of the CIP, the succeeding five years of the CIP are important in providing a long-term plan for setting spending priorities, scheduling projects in a logical sequence, and coordinating and targeting CIP projects for all city departments. Each year the CIP is updated by adding a new sixth year of capital improvement projects. Adjustments are made to costs and revenues forecasted the previous year. Changes may also be made to the year(s) in which a project is scheduled, reflecting changes in fiscal conditions and changes in overall funding priorities. New capital projects may be added or deleted based on new facility needs identified in updated or new city master plans, area plans, or studies. Capital improvements also may be on-going line items to address continual capital needs.

The CIP schedules the necessary capital projects to ensure maintenance of an adequate range of urban services within Area I and to provide urban facilities and services to Area II through annexation on a phased and orderly basis over the 20-year planning period reflected in this plan. The timing of capital improvement projects within the source water system recognizes the need to expand facilities to ensure that the reliability criteria can continue to be met as build-out population and employment levels are approached.

Regarding water utility rates, each spring, city departments develop and submit specific information on projects for the six-year CIP to the Planning Department. This information includes project descriptions, justifications, discussion of project goals, and estimates of project costs. A determination is made by the individual departments on what CIP projects are to be scheduled in the six-year time frame of the CIP. As a part of the collaborative approach established for the consolidated water utility master plan, the various departments of the water utility departments will work together for future updates to determine project funding priorities within the context of the water utility as a whole. Funding priorities provided by planning documents are either reaffirmed or modified at this stage. For major projects, funds for project planning, design, and construction are scheduled. This process provides a means for monitoring and managing changes in water rates.

### 1.2.2 Budgeting Assumptions

The planning period inflation rate for budgeting purposes is assumed to be 3% per year. This assumption is based on historic records of the Engineering News Record (ENR) Cost Index for Denver. The ENR index is deemed to represent cost factors affecting the replacement cost of the city's water utility infrastructure assets. The ENR index has escalated at a normalized rate of over 3 percent per year for the last 10 (3.42%), 20 (3.72%) and 30 (3.90%) year periods of time. It is anticipated these trends will continue in the future. The assumed rate of inflation should be reviewed annually and adjusted as appropriate.

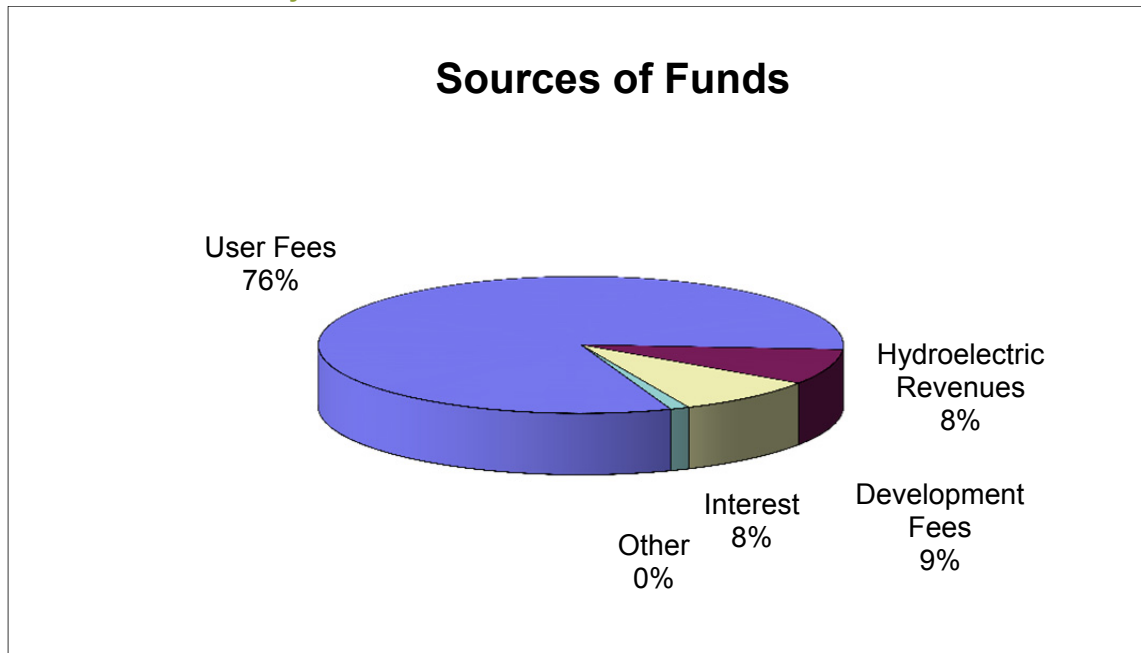
Fiscal constraints for CIP projects are directly tied to the operating and non-operating funding sources of the Water Utility Fund. The Water Utility Fund is composed of the following sources of funds:

**Table 6-1. Funding Sources**

Operating	Non-Operating
Sale of Water to General Customers	Plant Investment Fees
Projected Rate increase	Connection Charges
Bulk/Irrigation Water Sales	Special Assessments
Hydroelectric Revenue	State & Federal Grants
Miscellaneous Operating Revenues	Interest of Investments
	Rent, assessments, and other miscellaneous revenues
	Sale of Real Estate – Yards Master Plan
	Transfer from General Fund – Fire training center
	Projected Bond Proceeds

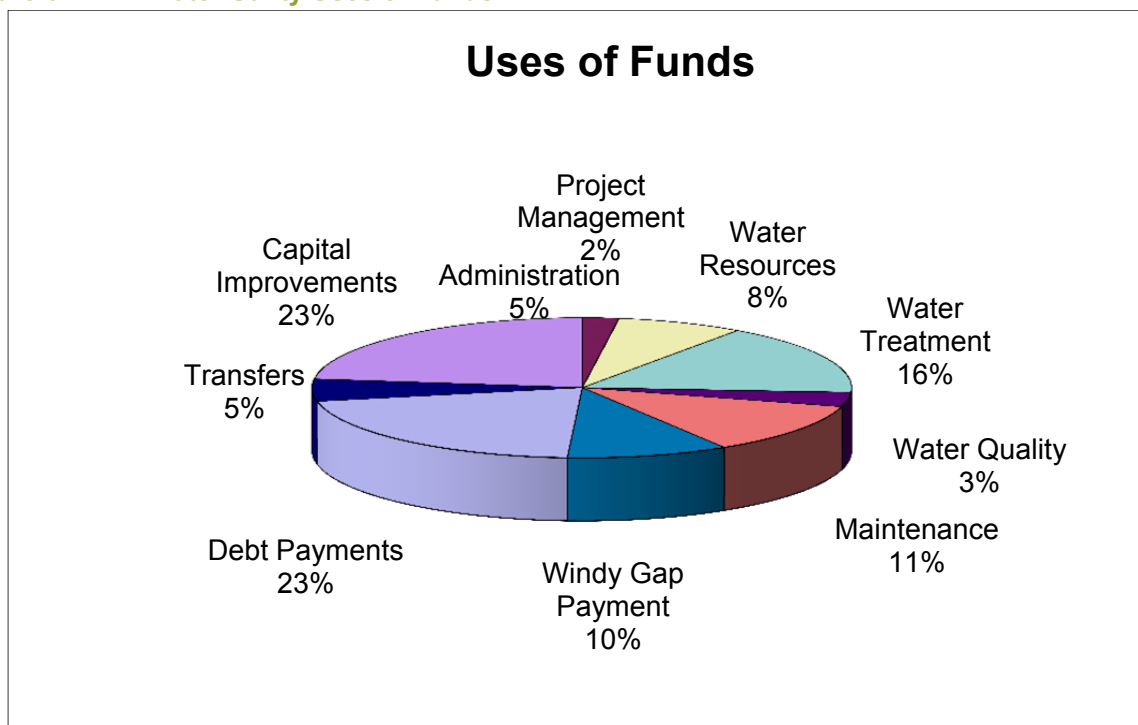
The current breakdown of the funds sources and uses are shown in the following figures:

**Figure 6-1. Water Utility Sources of Funds**





**Figure 6-2. Water Utility Uses of Funds**



For planning purposes, the City of Boulder has separated the list of capital improvements into three funding level categories: Fiscally Constrained, Action, and Vision. These categories were established to fit different levels of fiscal budgets created using different sets of funding assumptions. The first budget level, fiscally constrained, is generally governed by conservative assumptions with respect to rate increases, water sales revenues, hydropower revenues, plant investment fees, and grant funding. The second budget level, action, is based on less conservative assumptions such as rate increases that may exceed projected inflation rates and increased plant investment fees and/or connection charges. The third budget level, Vision, is typically based on very aggressive funding assumptions which may include significant rate increases above the anticipated inflation rate. The following sections detail the assumptions associated with each of the funding levels used for this WUMP.

**1.2.2.1 Parameters of a Fiscally Constrained Budget:**

The criteria for the base-level fiscally constrained budget are based on the following project cost and funding assumptions. If further revenues are available or actual project costs are less than projected, then additional projects beyond the fiscally constrained ones may be achievable.

**Planning Period Inflation Rate** – The planning period inflation rate is assumed to be 3% per year.

**Asset Replacement/Renewal** – Replacement and renewal of capital assets is limited to 10% of the costs indicated in the CIP planning asset management spreadsheets.

**Sale of Water to General Customers** – Sale of water to general customers is determined by calculating the previous year’s sales, adjusting it for any rate increases and then applying a 0.2% growth factor.

**Projected Rate Increase** – This plan would require annual rate increases of 3 percent, assumed to be an inflationary level increase.

**Bulk/Irrigation Water Sales** – Bulk/Irrigation Water Sales are mainly composed of pre-negotiated water sales, including the Colorado Big Thompson and Ditch, Windy Gap, Instream Flow, Lefthand Ditch, Baseline, and other sales of water.

**Hydroelectric Revenue** – The City gets a significant portion (8%) of its revenue from selling electricity that is produced from the hydroelectric facilities.

**Miscellaneous Operating Revenues** – There are several other miscellaneous revenues, including inventory sales, utility services, maintenance and repair of public fire protection, and municipal water sales.

**Plant Investment Fees** – The plant investment fees are set at \$1.5 M.

**Connection Charges** are set at \$150,000.

**Special Assessments** are assumed at \$5,000 per year.

**State and Federal Grants** are assumed to be zero for fiscally constrained budgeting purposes.

**Interest of Investments** assumes 2.35% of the beginning of the year fund balance for year 2011, 1.75% for 2012, 2.00% for 2013, 2.50% for 2014 and 3.00% each year after.

**Rent/Lease and Other Miscellaneous Revenues** are estimated at \$17,000 for 2011, increasing by \$500 per year up until 2015 to \$19,000 and \$1,500/year for miscellaneous revenues

**Sale of Real Estate – Yards Masterplan** estimated at zero for fiscally constrained budgeting purposes.

**Transfer from General Fund** estimated at \$92,785 per year, every year through 2023.

**Projected Bond Proceeds** – The budget includes bond proceeds paying out in the year 2016, 2018, 2019, 2020, 2026, and 2030 in the amounts of \$12.91, \$40.78, \$5.565, \$4.85, \$16.365, and \$19.935 million respectively.

**1.2.2.2 Parameters of an Action Based Budget:**

The criteria for the action plan budget are based on the following project cost and funding assumptions. If further revenues are available or actual project costs are less than projected, then additional projects beyond the action plan may be achievable.

**Planning Period Inflation Rate** – The planning period inflation rate is assumed to be 3% per year.

**Asset Replacement/Renewal** – Replacement and renewal of capital assets is limited to 75% of the costs indicated in the asset management spreadsheets.

**Sale of Water to General Customers** – Sale of water to general customers is determined by calculating the previous year's sales, adjusting it for any rate increases and then applying a 0.2% growth factor.

**Projected Rate increase** – This plan would require annual rate increases averaging 1½ percent above the inflation rate of 3 percent, for a total of 4½ percent annually.

**Bulk/Irrigation Water Sales** – Bulk/Irrigation Water Sales are mainly composed of pre-negotiated water sales, including the Colorado Big Thompson and Ditch, Windy Gap, Instream Flow, Lefthand Ditch, Baseline, and other sales of water.

**Hydroelectric Revenue** – The City gets a significant portion (8%) of its revenue from selling electricity that is produced from the hydroelectric facilities.

**Miscellaneous Operating Revenues** – There are several other miscellaneous revenues, including inventory sales, utility services, maintenance and repair of public fire protection, and municipal water sales.

**Plant Investment Fees** – The plant investment fees are set at \$1.5 M.

**Connection Charges** are set at \$150,000.

**Special Assessments** are assumed at \$5,000 per year.

**State and Federal Grants** are assumed to be zero for action plan budgeting purposes.

**Interest of Investments** assumes 2.35% of the beginning of the year fund balance for year 2011, 1.75% for 2012, 2.00% for 2013, 2.50% for 2014 and 3.00% each year after.

**Rent/Lease and Other Miscellaneous Revenues** are estimated at \$17,000 for 2011, increasing by \$500 per year up until 2015 to \$19,000 per year and \$1,500/year for miscellaneous revenues

**Sale of Real Estate – Yards Masterplan** estimated at zero for action plan budgeting purposes.

**Transfer from General Fund** estimated at \$92,785 per year, every year through 2023.

**Projected Bond Proceeds** – The budget includes bond proceeds paying out in the year 2016, 2018, 2019, 2020, 2026, and 2030 in the amounts of \$12.91, \$40.78, \$5.565, \$4.85, \$16.365, and \$19.935 million respectively.

### **1.2.2.3 Parameters of a Vision Based Budget:**

The criteria for the vision plan budget is based on the following project cost and funding assumptions that allow full funding of all projects identified in the consolidated project list including 100% of the projected asset replacement/renewal projects.

**Planning Period Inflation Rate** – The planning period inflation rate is assumed to be 3% per year.

**Asset Replacement/Renewal** – Full funding of replacement and renewal of capital assets as indicated in the asset management spreadsheets.

**Sale of Water to General Customers** – Sale of water to general customers is determined by calculating the previous year's sales, adjusting it for any rate increases and then applying a 0.2% growth factor.

**Projected Rate Increase** – This plan would require annual rate increases averaging 2 percent above the assumed inflation rate of 3 percent, for a total of 5 percent annually.

**Bulk/Irrigation Water Sales** – Bulk/Irrigation Water Sales are mainly composed of pre-negotiated water sales, including the Colorado Big Thompson and Ditch, Windy Gap, Instream Flow, Lefthand Ditch, Baseline, and other sales of water.

**Hydroelectric Revenue** – The City gets a significant portion (8%) of its revenue from selling electricity that is produced from the hydroelectric facilities.



**Miscellaneous Operating Revenues** – There are several other miscellaneous revenues, including inventory sales, utility services, maintenance and repair of public fire protection, and municipal water sales.

**Plant Investment Fees** – The plant investment fees are set at \$1.5 M.

**Connection Charges** are set at \$150,000.

**Special Assessments** are assumed at \$5,000 per year.

**State and Federal Grants** are assumed to be zero for the vision plan budgeting purposes.

**Interest of Investments** assumes 2.35% of the beginning of the year fund balance for year 2011, 1.75% for 2012, 2.00% for 2013, 2.50% for 2014 and 3.00% each year after.

**Rent/Lease and Other Miscellaneous Revenues** are estimated at \$17,000 for 2011, increasing by \$500 per year up until 2015 to \$19,000 per year and \$1,500/year for miscellaneous revenues

**Sale of Real Estate – Yards Masterplan** estimated at zero for action plan budgeting purposes.

**Transfer from General Fund** estimated at \$92,785 per year, every year through 2023.

**Projected Bond Proceeds** – The budget includes bond proceeds paying out in the year 2016, 2018, 2019, 2020, 2026, and 2030 in the amounts of \$12.91, \$40.78, \$5.565, \$4.85, \$16.365, and \$19.935 million respectively.

### 1.3 Categorization and Prioritization of Projects

In order to prepare a consolidated CIP that includes projects from the source water master plan (Volume 4) and the Treated Water Master Plan (Volume 5), the following categorization and prioritization process was followed:

- At Consensus Building Workshop #1 the proposed methodology for creating a consolidated CIP was reviewed and revised based on staff input. Much of the discussion focused around the various standards, criteria, goals, and practices that are relevant to the water utility to help develop and bring clarity to project evaluation criteria. These items were defined and form the basis for prioritizing projects. These factors are discussed in detail in Section 4 of Volume 2.
- At Consensus Building Workshop #2, an updated and partially prioritized TWMP list of capital improvements compiled from recommendations in the draft TWMP Update (Volume 5), 2008 Vulnerability Assessment, and the AWWA Qualseve Peer Review was presented to staff. Consultants and staff worked together to select prioritization criteria and weighting factors. The following criteria were agreed to:
  1. Does the project improve health and/or safety concerns?
  2. Does the project provide compliance with regulations?
  3. Does the project improve customer service (water quality, service pressure, etc.), or increase reliability?
  4. Does the project reduce life cycle costs, improve operational efficiency, or improve sustainability? Is it an opportunity to collaborate with other city projects and utility providers?

City staff considered all of the criteria to have equal importance or weighting. At the conclusion of the workshop, it was decided that City staff members would evaluate each of the projects against the four evaluation criteria and provide a funding priority for each project to match the three funding level budget categories detailed above. The funding priorities were defined as:

1 = Fiscally Constrained

2 = Action

3 = Vision

The funding prioritization of projects is a quick means to segregate projects by need and level of importance based on the evaluation criteria. Each project was ranked high, medium and low against each of the four evaluation criteria by City staff representing each of the “stakeholder” departments including treatment, distribution, project management, and water quality to help determine an initial funding priority. The projects in the Source Water Master Plan were prioritized during execution of that planning project and their prioritization was preserved when City staff combined/integrated those projects with the prioritized TWMP projects.

- At Consensus Building Workshop #3, a draft version of the consolidated CIP with initial project prioritization and associated costs was presented for discussion, revision, refinement and consensus approval of the list and project priorities.
- Following Consensus Building Workshop #3, additional information was gathered to fill data gaps including missing projects, project costs, and project prioritizations. Additionally, a number of projects were identified that would be more appropriately funded from utility department operations and maintenance (O&M) budgets rather than the CIP budget. The consolidated project list was updated to include this differentiation of capital and O&M projects.

## 1.4 Water Utility Capital Improvements Plan (CIP)

### 1.4.1 Consolidated Water Utility Projects

Table 6-1 below presents the consolidated water utility projects list (capital and O&M) developed from the workshops and subsequent collaboration with City staff. The table is organized by funding priority and includes the planned funding source and funding year based on the consolidated CIP recommended in Section 1.4.3 below. Many of the O&M projects included in the list have a funding priority and funding source established but the funding year remains to be determined (TBD) pending annual operating budget performance in the upcoming years.

### 1.4.2 Consolidated CIP

A consolidated CIP for each of the fiscally constrained, action, and vision funding level budget categories was developed by City staff in accordance with the following general approach for “fitting” projects within the available funding associated with each funding level budget.

- Projects with a funding priority of “1” were fitted as early as possible in the planning horizon followed by funding priority “2” and “3” projects.
- Large projects and groups of smaller projects were consolidated and grouped into projects that the City plans to issue bonds for. For example, a 10-year bond issuance cycle has been established for each of the Betasso Water Treatment Facility (BWTF) and Boulder Reservoir Water Treatment Facility (BRWTF) to account for anticipated upgrades and renewal/replacement

needs. The 10-year cycle for BWTF includes the years 2016 and 2026 in this planning period while the 10-year cycle for the BRWTF includes the years 2020 and 2030. Funding priority “3” projects were generally pushed to the latter of the two bond projects for each facility.

- Because specific projects identified on the consolidated projects list, regardless of funding priority are generally considered more important than the more generalized renewal/replacement projects coming from the asset management spreadsheets, the specific projects were provided funding in each of the three funding level budgets. As a result “fitting” projects to the three funding level budgets (Fiscally Constrained, Action, and Vision) was accomplished by adjusting the percentage of renewal/replacement project costs included in each funding level budget. As indicated in Section 1.2 above, renewal/replacement project costs were included at 10%, 75%, and 100% of the values derived from the asset management spreadsheets in the Fiscally Constrained, Action, and Vision budgets respectively. Historically, the City has found that the asset management spreadsheets are providing costs for complete replacement of the asset and that renewal and rehabilitation techniques and approaches have allowed the City to manage renewal and replacement of assets in the range of 50%-75% of the costs indicated in the asset management spreadsheets.



**Table 6-2. Consolidated Water Utility Project List**

Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
1	1	Betasso	North lagoon sand replacement	Capital	\$30,000	2005	\$34,857	1	2012	Ongoing Betasso WTF Project	NE has broken underdrain (replacement not included in price). Interim measure until final residuals option is implemented.
2	4	Betasso	Floc/sed inlet baffle	Capital	\$35,000	2005	\$40,667	1	2016	Betasso WTF Bond Proceeds 2016	These improvements are grouped together and are one alternative for obtaining 46 MGD of facility capacity (32 MGD = approx. current capacity limit).
3	5	Betasso	Floc/sed serpentine baffles	Capital	\$2,082,000	2005	\$2,419,076	1	2016	Betasso WTF Bond Proceeds 2016	These improvements are grouped together and are one alternative for obtaining 46 MGD of facility capacity (32 MGD = approx. current capacity limit).
4	6	Betasso	Floc equipment modifications	Capital	\$1,361,000	2005	\$1,581,346	1	2016	Betasso WTF Bond Proceeds 2016	These improvements are grouped together and are one alternative for obtaining 46 MGD of facility capacity (32 MGD = approx. current capacity limit).
5	7	Betasso	Baffles between floc and sed	Capital	\$842,000	2005	\$978,320	1	2016	Betasso WTF Bond Proceeds 2016	These improvements are grouped together and are one alternative for obtaining 46 MGD of facility capacity (32 MGD = approx. current capacity limit).
6	8	Betasso	Sedimentation basin effluent weirs	Capital	\$97,000	2005	\$112,704	1	2016	Betasso WTF Bond Proceeds 2016	These improvements are grouped together and are one alternative for obtaining 46 MGD of facility capacity (32 MGD = approx. current capacity limit).
7	11	Betasso	Floc aid polymer addition	Capital	\$235,000	2005	\$273,047	1	2016	Betasso WTF Bond Proceeds 2016	Not using; currently Alum/PACL only. Jar testing should be commenced as soon as possible (jar test study included #21 below)
8	12	Betasso	Study to optimize pre-treatment and residuals handling	Capital	\$100,000	2010	\$100,000	1	2013	Ongoing Betasso WTF Project	The goal of the study would be to determine the optimized solution for pretreatment improvements to obtain 46 MGD of capacity while resolving the residuals capacity limitations of the facility to eliminate or reduce contract hauling requirements. (Note that this study can be combined with #20 and #21)
9	13	Betasso	North engineered sand drying beds	Capital	\$3,395,000	2005	\$3,944,651	1	N/A	N/A	Preference for residuals dewatering solution in Item #148. Could be re-evaluated as part of pre-treatment/residuals management study.
10	15	Betasso	Filter rehabilitation (media, underdrain, valves etc.)	Capital	\$631,000	2005	\$733,159	1	2016	Betasso WTF Bond Proceeds 2016	Staff also desire the addition of air scour for filter backwash if feasible. Blowers could be located on the south side of the filter building.

Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
11	16	Betasso	Replace/upgrade valves in filter piping gallery	Capital	\$160,200	2010	\$160,200	1	2016	Betasso WTF Bond Proceeds 2016	Valves and actuators are 40 – 45 years old and have reached the end of their useful life. Lots of leaks. 4 valves/filter, 8 filters.
12	17	Betasso	Replace actuators in filter piping gallery with electric actuators	Capital	\$209,600	2010	\$209,600	1	2016	Betasso WTF Bond Proceeds 2016	Valves and actuators are 40 – 45 years old and have reached the end of their useful life. Lots of leaks. 4 valves/filter, 8 filters.
13	20	Betasso	Monitor raw water quality	O&M	\$150,000	2010	\$150,000	1	TBD	Operating Funds	Priority 2 = Basic parameters – turbidity, TOC, ORP; Priority 3 = Sophisticated parameters – emerging contaminants, etc.
14	34	Betasso	Perform stress test on floc/sed basins	O&M	\$50,000	2010	\$50,000	1	TBD	Operating Funds – Project Management	Test needs to be repeated during May/June runoff period – schedule for 2011. (Note that this study can be combined with #12 and #21)
15	35	Betasso	Perform bench/pilot test of cationic polymer	O&M	\$50,000	2010	\$50,000	1	TBD	Operating Funds – Water Treatment	Related to Item #11 above. (Note that this study can be combined with #12 and #21)
16	148	Betasso	Solids Dewatering Facility	Capital	\$2,858,000	2010	\$2,858,000	1	2016	Betasso WTF Bond Proceeds 2016	See tab "OPCC – Solids Dewatering Facility" for detailed cost estimate
17	149	Betasso	Filter surface wash replacement	Capital	\$266,400	2010	\$266,400	1	2016	Betasso WTF Bond Proceeds 2016	MWH cost estimate
18	150	Betasso	Lime feeder replacement	Capital	\$188,500	2010	\$188,500	1	N/A	N/A	More maintenance friendly lime feeder needed. Workshop #3 discussions indicated the existing lime feeder was functioning as well as anything available. Issue will be revisited during 2016 bond project design process.
19	151	Betasso	SCADA upgrades for chemical feed and process control	Capital	\$250,000	2010	\$250,000	1	2016	Betasso WTF Bond Proceeds 2016	SCADA upgrades needed. Should include better to read data formats. Final cost is dependent on scope of work included.
20	36	Betasso/BRWTF	Perform sampling and testing of waste streams flowing into waste impoundments to determine type of impoundment and if impoundment improvements are needed.	O&M	\$30,000	2010	\$30,000	1	TBD	Operating Funds – Water Treatment	Sampling and subsequent study to determine waste impoundment regulation impacts at both Betasso WTF and Boulder Reservoir WTF
21	54	BRWTF	Line old lagoons and evaluate structural integrity and site drainage issues; determine waste impoundment regulation impacts	Capital	\$338,200	2010	\$338,200	1	N/A		Need to study soon in light of new regulations (See Comprehensive List Item #36)
22	169	BRWTF	Evaluate Drinking Water Lab Expansion and Needs	O&M	\$5,000	2010	\$10,000	1	TBD	Operating Funds – Water Quality	
23	170	BRWTF	Evaluate Drinking Water Lab Capabilities, Needs, and Certifications by Constituent	O&M	\$10,000	2010	\$10,000	1	TBD	Operating Funds – Water Quality	
24	78	Distribution System	Treated water reservoir mixing improvements	O&M	\$76,400	2010	\$76,400	1	TBD	Operating Funds – Water Quality	Base further study and necessary improvements on hydraulic modeling results and system water quality monitoring.
25	86	Distribution System	Zone Isolation Valves	Capital	Included in Item #88.	2008	Included in Item #88.	1	TBD	Ongoing Waterline Replacement Project	Work will be funded as part of on-going waterline replacement project..

Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
26	87	Distribution System	Cathodic Protection	Capital	\$25,000	2010	\$25,000	1	TBD	Ongoing Cathodic Protection Project	Develop cathodic protection standards for new transmission pipelines and develop program to add cathodic protection.
27	88	Distribution System	Waterline Replacement	Capital	\$2,100,000	2008	\$2,100,000	1	2011-2032	Ongoing Waterline Replacement Project	No escalation of costs from 2008 – 2013.
28	89	Distribution System	Sunshine Transmission Pipe	Capital	\$999,728	2010	\$999,728	1	2011 and 2013	Sunshine Transmission Pipe Project	\$267,615 for pipe inspection, minor repair work and installation of access manholes in 2011; another \$800,000 in 2013 for manways and lining rehabilitation.
29	93	Distribution System	Boulder Canyon – Orodell to Fourmile	Capital			\$500,000	1	2011	Orodell to Fourmile Project	24" pipeline replacement.
30	94	Distribution System	Automated Meter Reading	Capital	\$500,000	2008	\$530,450	1	2011-2013	Ongoing Automated Meter Reading Project	
31	97	Distribution System	Orodell New I&C Battery Back-Up	O&M	\$10,000	2010	\$10,000	1	TBD	Operating Funds – Water Resources	
32	101	Distribution System	Maxwell Reservoir	O&M	\$10,000	2010	\$10,000	1	TBD	Operating Funds – Utilities Maintenance	Crack/joint repair, recoating
33	102	Distribution System	Maxwell Reservoir Regrading and Erosion Control	O&M	\$5,000	2010	\$5,000	1	TBD	Operating Funds – Utilities Maintenance	Erosion control
34	104	Distribution System	Booton Reservoir	O&M	\$5,000	2010	\$5,000	1	TBD	Operating Funds – Utilities Maintenance	Tanks appear to be in good condition, regular inspections should be continued, but no major costs anticipated at this time. Vegetation control, bird nest removal, and bird screen installation.
35	107	Distribution System	Kohler Reservoir Roof	Capital	\$918,900	2007	\$1,063,443	1	2016	Kohler Storage Tank Project	Kohler roof in poor condition, but not as bad as Chautauqua
36	162	Distribution System	Maxwell Hydroelectric Building Inspection and Repair Plan	O&M	\$10,000	2010	\$10,000	1	TBD	Operating Funds – Water Resources	
37	168	Distribution System	Water Age Modeling	O&M	\$10,000	2010	\$15,000	1	TBD	Operating Funds – Water Quality	Evaluate distribution system water quality parameters such as water age (using results from different operating scenarios in the hydraulic model) and chlorine residual and how these parameters compare to Best Practices. Recommendations for optimized monitoring and sampling plan.
38	109	GIS	Water Valve Location	O&M	\$130,000	2010	\$130,000	1	TBD	Operating Funds – Utilities Maintenance	GPS for accurate and complete locations of valves in the water system
39	154	Sourcewater	Sourcewater Transmission Pipe Inspections	Capital	\$75,408	2010	\$75,408	1	2012	Capital Improvement Program Funds	\$80,000 budgeted in 2012. Silver Lake Pipeline will be due for inspection.

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40	155	Sourcewater	Barker-Kossler Penstock Repair	Capital	\$256,468	2010	\$256,468	1	2012 and 2017	Capital Improvement Program Funds	\$175,000 budgeted in 2012 for emergency valve replacement on Boulder Canyon Hydro Penstock. \$112,551 budgeted in 2017 to evaluate need for replacement or targeted repairs with metallurgy and corrosion experts.
41	156	Sourcewater	Boulder Reservoir	Capital	\$90,000	2008	\$90,000	1	2020	Capital Improvement Program Funds	\$110,689 budgeted in 2020 for security improvements.
42	157	Sourcewater	Lakewood Reservoir	Capital	\$102,500	2008	\$102,500	1	2018	Capital Improvement Program Funds	\$118, 826 budgeted in 2018 for security improvements.
43	158	Sourcewater	Watershed Improvements	Capital	\$440,500	2008	\$440,500	1	2011, 2015, and 2020		Includes Items 120 and 121 above. This project was split into three phases and combined with item 158 below, \$290,500 budgeted in 2011, \$79,568 budgeted in 2015 and \$92,241 budgeted in 2020.
44	159	Sourcewater	In stream flow structures and gaging	Capital	\$48,544	2011	\$50,000	1	2011	Capital Improvement Program Funds	\$50,000 available in the 2011 budget. Installation of a gaging station on Boulder Creek and North Boulder Creek double Parshall flume
45	160	Sourcewater	Sourcewater pressure reducing, pumping and hydroelectric facility rehabilitation	Capital	\$3,920,000	2008	\$3,920,000	1	2017-2032	Capital Improvement Program Funds	From asset management replacement schedule; 1% of replacement value (\$19,603,000) * Asset Value Replacement Percentage (20% fiscally constrained, 60% action plan, 100% vision plan)per year for years 2017-2032
46	141	Sourcewater – Colorado River	Boulder Feeder Canal Stormwater Diversions – Phase 1	Capital	\$287,155	2010	\$287,155	1	2011	Capital Improvement Program Funds	\$81,000 remaining available in the 2011 budget for this project.
47	143	Sourcewater – Colorado River	Carter Lake Pipeline	Capital	\$25,000,000	2010	\$25,000,000	1	2017 and 2018	Capital Improvement Program Funds	\$989,000 available in the 2011 budget for permitting and land acquisition. \$2,608,367 budgeted in 2017 (design) and \$26,083,667 budgeted in 2018 (construction)
48	144	Sourcewater – Colorado River	Carter Lake Pipeline Hydro	Capital	\$5,500,000	2010	\$5,500,000	1	2017 and 2018	Capital Improvement Program Funds	\$500,000 budgeted in 2017 (design) and \$5,000,000 budgeted in 2018 (construction)
49	126	Sourcewater – Middle Boulder Creek	Nederland WWTF Upgrade	Capital	\$300,000	2009	\$316,950	1	2011	Capital Improvement Program Funds	Project in progress. \$370,000 available in 2011.
50	130	Sourcewater – Middle Boulder Creek	Barker Permitting	Capital	\$969,028	2010	\$969,028	1	2011	Capital Improvement Program Funds	Project in progress. \$922,000 available in the 2011 budget.
51	132	Sourcewater – Middle Boulder Creek	Barker Gravity Pipeline Repair – Phase 1	Capital	\$20,000,000	2008	\$20,000,000	1	2011-2031	Capital Improvement Program Funds	\$17,178,572 budgeted through the 20 year planning period.

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52	134	Sourcewater – Middle Boulder Creek	Kossler Reservoir Main Dam Repairs	Capital	Combined with Item #136	2010	Combined with Item #136	1	2011 and 2013	Capital Improvement Program Funds	Combined with other recommended Kossler Reservoir projects and security improvements. \$285,000 carryover money from 2010 plus \$860,000 available in the 2011 budget. Additional \$300,000 budgeted in 2013 for forebay structure improvements to fix leaks.
53	136	Sourcewater – Middle Boulder Creek	Kossler Outlet Repairs	Capital	\$1,445,000	2010	\$1,445,000	1	2011 and 2013	Capital Improvement Program Funds	Combined with other recommended Kossler Reservoir projects and security improvements. \$285,000 carryover money from 2010 plus \$860,000 available in the 2011 budget. Additional \$300,000 budgeted in 2013 for forebay structure improvements to fix leaks.
54	135	Sourcewater – Middle Boulder Creek	Kossler Reservoir Minor Repairs	Capital	Combined with Item #136	2010	Combined with Item #136	1	2011 and 2013	Capital Improvement Program Funds	Combined with other recommended Kossler Reservoir projects and security improvements. \$285,000 carryover money from 2010 plus \$860,000 available in the 2011 budget. Additional \$300,000 budgeted in 2013 for forebay structure improvements to fix leaks.
55	114	Sourcewater – North Boulder Creek	Green Lake #2 Engineering Evaluation	Capital	\$75,000	2008	\$75,000	1	2013	Capital Improvement Program Funds	
56	119	Sourcewater – North Boulder Creek	Island Dam Minor Repairs (patches)	Capital	\$101,951	2010	\$101,951	1	2010	Capital Improvement Program Funds	Funds available in the 2011 budget for this project.
57	120	Sourcewater – North Boulder Creek	Miscellaneous watershed valve replacement – Phase 1	Capital	See Item #158	2010	See Item #158	1	2011	Capital Improvement Program Funds	See Item #158.
58	122	Sourcewater – North Boulder Creek	Lakewood Pipeline†	Capital	\$250,000	2008	\$250,000	1	2014	Capital Improvement Program Funds	\$257,500 budgeted in 2014 for re-inspection of the Lakewood Pipeline. Based on observations made during the 2009 inspection it is recommended that the frequency of inspections be reduced to one every five years. No funds have been budgeted for pipeline repair costs. Funds would be transferred from the Lakewood Pipeline Remediation Reserve to cover these costs.
59		Sourcewater – North Boulder Creek	Lakewood Hydroelectric/PRV	Capital	\$100,000	2010	\$100,000	1	2014	Capital Improvement Program Funds	Turbine generator overhaul
60		Sourcewater – North Boulder Creek	Lakewood Hydroelectric/PRV	Capital	\$300,000	2010	\$300,000	1	2019	Capital Improvement Program Funds	Rehabilitation of PRV (Mokveld)
61		Sourcewater – North Boulder Creek	Silver Lake Hydroelectric/PRV	Capital	\$100,000	2010	\$100,000	1	2012	Capital Improvement Program Funds	Turbine generator overhaul
62		Sourcewater – North Boulder Creek	Betasso Hydroelectric/PRV	Capital	\$100,000	2010	\$100,000	1	2016	Capital Improvement Program Funds	Turbine generator overhaul



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63	2	Betasso	Pump diffusion flash mixing	Capital	\$100,000	1905	\$116,190	2	N/A	N/A	Note that original '05 Carollo estimate for pumped mixing was \$791,000. New estimate is for study plus minor modifications. Not required based on MWH WUMP analysis/recommendations.
64	3	Betasso	CO <sub>2</sub> feed improvements	Capital	\$294,000	2005	\$341,599	2	TBD	Operating Funds	Step wise improvements will be made based on operations data using annual operating funds.
65	10	Betasso	Pretreatment upgrades – Plate Settlers	Capital	\$6,550,000	2005	\$7,610,445	2	2026	Betasso WTF Bond Proceeds 2026	Plate settler pretreatment improvements are a third alternative for obtaining 46 MGD of facility capacity ( 32 MGD = approx. current capacity limit)
66	21	Betasso	Study of lime and CO <sub>2</sub> addition points for pH and alkalinity control and jar testing for floc aid polymer addition	O&M	\$50,000	2010	\$50,000	2	TBD	Operating Funds	Improvements were made in 2009, but effluent application points and controls need to be studied for optimization.
67	22	Betasso	Replace back-up power generator	Capital	\$253,800	2010	\$253,800	2	2016	Betasso WTF Bond Proceeds 2016	Existing is 250 kW Kohler diesel that is not sufficient for any additional loads. Staff desire new generator to be propane fueled to eliminate fuel storage issues (i.e. double containment).
68	23	Betasso	DAF pilot to determine feasibility for improving residuals handling issues	Capital	\$50,000	2010	\$50,000	2	N/A	N/A	DAF pretreatment improvements were determined to not be cost effective in Workshop #2.
69	24	Betasso	Carbon (PAC) feed system improvements	Capital	\$200,000	2010	\$200,000	2	2016	Betasso WTF Bond Proceeds 2016	During workshop #3 it was determined that MWH estimate (\$9900) was low. More reasonable estimate for the full supersac feeder replacement is \$200k.
70	27	Betasso	Chemical (hypo, alum, fluoride) storage tank replacement	Capital	\$209,700	2010	\$209,700	2	2016	Betasso WTF Bond Proceeds 2016	Planning for replacement needs to begin now.
71	28	Betasso	Sodium hypochlorite feed room needs to be re-piped	Capital	\$6,600	2010	\$6,600	2	2012	Ongoing Betasso WTF Project	Re-piping is needed for better use of space, maintenance access and to accommodate future tank replacement
72	30	Betasso	Combined influent flow metering	Capital	\$38,700	2010	\$38,700	2	2013	Ongoing Betasso WTF Project	Staff desire the addition of a combined (two influent pipelines and recycle) flow meter.
73	31	Betasso	Effluent flow meter replacement	Capital	\$54,500	2010	\$54,500	2	2013	Ongoing Betasso WTF Project	Standardize on magmeters. Current venturi's not accurate or scalable over the plant flow range.
74	32	Betasso	Miscellaneous security improvements	Capital	\$25,000	2010	\$25,000	2	2012	General Fund; \$25,000 allocated in 2012	Improvements identified in the VA; details omitted from Master Plan for security purposes.
75	33	Betasso	Monitor system-wide and Betasso water demand	O&M	\$50,000	2010	\$50,000	2	TBD	Operating Funds – Water Treatment	Test system supply capacity from BRWTP, with new pumps/meters.



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76	37	BRWTF	Pre-oxidation improvements	Capital	\$1,888,000	2008	\$2,101,155	2	2020	Boulder Reservoir WTF Bond Proceeds 2020	Requires further investigation related to pH adjustment, TOC removal, and DBP formation. ClO2 is currently considered overkill by staff. This item is retained to help address taste and odor concerns although specific T&O compounds have not been identified. Currently piloting potassium permanganate which would also help prevent spread of zebra mussels. Expand study to include other options.
77	38	BRWTF	Upgrade effluent flow meter to mag meter	Capital	\$60,000	2008	\$66,774	2	2014	Ongoing Boulder Reservoir WTF Project	City staff repaired existing venturi meter; long term vision includes replacement with magmeter
78	40	BRWTF	Monitor Feeder Canal	Capital	\$183,700	2010	\$183,700	2	TBD	Operating Funds – Water Quality	Priority 2 = Basic parameters – turbidity, TOC, ORP; Priority 3 = Sophisticated parameters – emerging contaminants, etc.
79	41	BRWTF	Canal Intake Improvements	Capital	\$80,000	2000	\$112,800	2	2010/2011	Boulder Feeder Canal Project	Improvements were made to make maintenance somewhat safer, but safety is still a concern. Additional improvements are desired including metal access stair, corrosion control issues, and an automatic trash rack.
80	42	BRWTF	Install VFD's on High Service Pumps	Capital	\$80,000	2000	\$112,800	2	2013	Boulder Reservoir High Service Pump Station Project	Goes with plant automation. Existing estimate of cost appears low.
81	49	BRWTF	Emergency Power	Capital	\$400,000	2003	\$533,880	2	2020	Boulder Reservoir WTF Bond Proceeds 2020	Current system is only sufficient for shutting down the plant in the event of a power failure. Would need this with automation. Estimate of cost seems low.
82	52	BRWTF	High Service Pump Cavitation and Efficiency Study	Capital	\$50,000	2010	\$50,000	2	2012	Operating Funds – Water Treatment	Should be evaluated with replacement or rebuild to get better efficiency equipment
83	56	BRWTF	Filter rehabilitation	Capital	\$2,828,800	2010	\$2,828,800	2	2030	Boulder Reservoir WTF Bond Proceeds 2030	
84	60	BRWTF	Solar energy farm	Capital	N/A	N/A	N/A	2	N/A	N/A	Started up at 75th Street WWTP; considering program expansion. City would not construct or own the facility.
85	62	BRWTF	Electrical power to canal intake location	Capital	\$100,000	2010	\$100,000	2	2010/2011	Water System Security Project	Safety/security issue – lighting
86	65	BRWTF	Combined filter effluent post flume flash mix improvements	Capital	\$80,300	2010	\$80,300	2	2013	Ongoing Boulder Reservoir WTF Project	Existing paddle mixer is not providing adequate mixing for CFE chemicals (caustic, fluoride, chlorine)
87	68	BRWTF	Upgrade filter controls	Capital	\$53,300	2010	\$53,300	2	2014	Ongoing Boulder Reservoir WTF Project	For improvement of reliability and update to current technology
88	70	BRWTF	Improved TOC removal	Capital	See Comprehensive List Item #37	See Comprehensive List Item #37	See Comprehensive List Item #37	2	2020	Boulder Reservoir WTF Bond Proceeds 2020	See preoxidation item (#37) above

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89	71	BRWTF	Security improvements	Capital	\$25,000	2010	\$25,000	2	2013	Ongoing Boulder Reservoir WTF Project; \$25,000 allocated in 2013	ID specific projects from VA.
90	153	BRWTF	Emergency Power Alternative Study	Capital	\$30,000	2010	\$30,000	2	2013		Determine options for emergency power for BRWTF
91	172	BRWTF	Replace filter valves and actuators	Capital		2010		2	2020	Boulder Reservoir WTF Bond Proceeds 2020	
92	74	Distribution System	Replace differential pressure sensors in system storage tanks with level sensors	O&M	\$16,400	2010	\$16,400	2	TBD	Operating Funds – Project Management	Chautauqua, Devils Thumb tanks currently use DP sensors translated to a level which introduces inaccuracies
93	75	Distribution System	Add WQ stations	Capital	\$100,000	2010	\$100,000	2	2011	Water System Security Project or Distribution System Water Quality Improvement Project	Cost is dependent on number of WQ monitoring stations
94	79	Distribution System	Miscellaneous security improvements	Capital	\$25,000	2010	\$25,000	2	TBD	Ongoing Water System Security Project	ID specific projects from VA.
95	83	Distribution System	Chautauqua Storage Tank	Capital	\$870,000	2010	\$870,000	2	2011	Chautauqua Storage Tank Project 2011	Structural evaluation of double T shear tabs, seal shrinkage cracks, coat roof vents, evaluate internal lining (previous lining estimate was \$213,000 in 2002)
96	84	Distribution System	Betasso Storage Tank	Capital	\$250,000	2008	\$265,225	2	2017	Capital Improvement Program Funds	Paint outside and possible cathodic protection. \$281,377 in 2017
97	85	Distribution System	Gunbarrel Storage Tank	Capital	\$250,000	2008	\$250,000	2	2013	Capital Improvement Program Funds	Paint interior and possible cathodic protection \$250,000 in 2013
98	95	Distribution System	Maxwell Tank Improvements	Capital	\$920,000	2008	\$920,000	2	2020	Maxwell Storage Tank Project	Roof replacement.
99	96	Distribution System	Orodel Hydroelectric 12-inch Isolation BFV (downstream)	Capital	\$8,000	2010	\$8,000	2	2011	Orodel to Fourmile Project	
100	106	Distribution System	Further Investigation of Low Pressure and Potential Insufficient Fire Flow Capacities	O&M	\$30,000	2010	\$30,000	2	TBD	Operating Funds – Water Treatment	2010 TWMP modeling results indicate some areas with these potential issues. Further investigation (study) is required to confirm and define extent.
101	108	Distribution System	Chautauqua Reservoir Roof	Capital	\$619,020	2007	\$716,392	2	2011	Chautauqua Storage Tank Project 2011	Chautauqua roof is in extremely poor condition
102	161	Distribution System	Chautauqa Reservoir Lining	Capital	\$267,600	2010	\$267,600	2	2022	Capital Improvement Program Funds	
103	163	Distribution System	101 Pearl Street PRV Site Grading and Parking Turn Area Improvements	O&M	\$5,000	2010	\$5,000	2	TBD	Operating Funds – Water Resources	
104	164	Distribution System	Evaluate SO4 Tracer Study	O&M	\$7,000	2010	\$7,000	2	TBD	Operating Funds – Project Management	Evaluate conducting an SO4 tracer study to confirm zone boundaries, mixing zone characteristics, and to determine origin of treated water at a given location in the system.
105	166	Distribution System	DBP Formation Potential Study	O&M	\$50,000	2010	\$5,000	2	TBD	Operating Funds – Water Quality	
106	167	Distribution System	Evaluate Value of HPC Monitoring	O&M	\$5,000	2010	\$8,000	2	TBD	Operating Funds – Water Quality	
107	110	GIS	GIS Integration with UMMS	O&M	\$10,000	2010	\$10,000	2	TBD	Operating Funds – Utilities Maintenance	Two-way process to allow more detailed and complete maintenance information in GIS

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108	146	Sourcewater – Colorado River	Wittemyer Ponds	Capital	\$4,058,600	2010	\$4,058,600	2	2028 and 2029	Capital Improvement Program Funds	\$577,694 budgeted in 2028 (design) and \$5,776,943 budgeted in 2029 (construction)
109	127	Sourcewater – Middle Boulder Creek	Barker Dam Hydro	Capital	\$3,300,000	2008	\$3,300,000	2	2017 and 2018	Barker Hydro Project Bond	\$344,304 budgeted in 2017 (design) and \$3,443,044 in 2018 (construction).
110	128	Sourcewater – Middle Boulder Creek	Barker Dam Outlet Works Replacement	Capital	\$7,055,000	2008	\$7,055,000	2	2017 and 2018	Barker Dam Outlet Project Bond	\$736,081 budgeted in 2017 (design) and \$7,360,811 budgeted in 2018.
111	131	Sourcewater – Middle Boulder Creek	Barker Gravity Line Land Exchange	Capital		2008		2	2011-2031	Capital Improvement Program Funds	Combined with Barker Gravity Pipeline Repair project, Items 132 and 133 below. \$20,000,000 budgeted through the 20 year planning period.
112	133	Sourcewater – Middle Boulder Creek	Barker Gravity Pipeline Repair – Phase 2	Capital		2008	\$-	2	2011-2031	Capital Improvement Program Funds	\$17,178,572 budgeted through the 20 year planning period. See Item 132.
113	138	Sourcewater – Middle Boulder Creek	Barker-Kossler Penstock Repair	Capital	\$100,000	2008	\$100,000	2	2017	Capital Improvement Program Funds	This project is referred to as Barker-Kossler Penstock Repair. \$112,551 budgeted in 2017.
114	115	Sourcewater – North Boulder Creek	Green Lake #2 Structural Maintenance	Capital	\$3,800,000	2008	\$3,800,000	2	2018 and 2019	Capital Improvement Program Funds	\$408,366 budgeted in 2018 (design) \$4,083,659 budgeted in 2019 (construction)
115	116	Sourcewater – North Boulder Creek	Albion Dam Engineering Evaluation	Capital	\$75,000	2008	\$75,000	2	2015	Capital Improvement Program Funds	\$79,568 budgeted in 2015
116	117	Sourcewater – North Boulder Creek	Albion Dam Liner, Crest and Spillway Repair	Capital	\$3,000,000	2008	\$3,000,000	2	2022 and 2023	Capital Improvement Program Funds	\$362,857 budgeted in 2022 (design) \$3,628,574 budgeted in 2023 (construction) Budget is for crest, spillway repair and liner but no raising of the existing structure.
117	121	Sourcewater – North Boulder Creek Water Source	Miscellaneous watershed valve replacement – Phase 2	Capital	See Item #158	2010	See Item #158	2	2015	Capital Improvement Program Funds	See Item #158.
118	123	Sourcewater- Middle Boulder Creek	Skyscraper Dam Evaluation and Gate Replacement	Capital	\$125,000	2008	\$125,000	2	2018	Capital Improvement Program Funds	\$144,909 budgeted in 2018
119	140	Sourewater- Middle Boulder Creek	Boulder Canyon Hydro Replacement	Capital	\$5,155,000	2010	\$5,155,000	2	2011	Capital Improvement Program Funds	The City received federal stimulus funds for this project in 2009. \$5,155,000 available in the 2011 budget.
120	111	UMMS	Work Order Tools	O&M	\$10,000	2010	\$10,000	2	TBD	Operating Funds – Utilities Maintenance	New tools to improve effectiveness of maintenance program
121	112	UMMS	Cost Reporting	O&M	\$10,000	2010	\$10,000	2	TBD	Operating Funds – Utilities Maintenance	UMMS upgrade to allow for cost reporting
122	113	UMMS	Street Patching Database Integration	O&M	\$5,000	2010	\$5,000	2	TBD	Operating Funds – Utilities Maintenance	Currently two separate databases are used. This would merge cost of street patching with repairs
123	14	Betasso	Clearwell No. 2 Baffle Wall	Capital	\$209,000	2005	\$242,837	3	2026	Betasso WTF Bond Proceeds 2026	Disinfection contact time issue; limited 10 approx. 10 MGD if Clearwell #1 off-line.
124	18	Betasso	UV disinfection	Capital	\$631,000	2005	\$733,159	3	N/A	N/A	Consider in future, if needed for regulatory compliance

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125	19	Betasso	Membranes	Capital	\$10,000,000	2005	\$11,619,000	3	N/A	N/A	Long-term option not considered necessary in the current planning period.
126	25	Betasso	Pipe gallery cleaning/repainting	Capital	\$23,300	2010	\$23,300	3	TBD	Operating Funds	
127	26	Betasso	Chlorine scrubber demolition	Capital	\$14,600	2010	\$14,600	3	2012	Ongoing Betasso WTF Project	Create more need storage space.
128	29	Betasso	Miscellaneous energy efficiency improvements	Capital	\$25,000	2010	\$25,000	3	2012	Ongoing Betasso WTF Project	Improvements to be identified by McKynstre energy audit were minimal. During Workshop #3, COB stated that another study is required. (\$25,000 is reserved for each WTF)
129	165	Betasso/BRWTF	Evaluate Rapid Toxicity Test	O&M	\$5,000	2010	\$100,000	3	TBD	Operating Funds – Water Quality	Evaluate conducting a rapid toxicity test (bioluminescent assay) baseline and clibration to enable determination of contamination of treated water.
130	39	BRWTF	Automate Chemical Feed and Process Controls Tuning	Capital	\$20,800	2010	\$20,800	3	2013	Ongoing Boulder Rservoir WTF Project	Flow-pacing of 6-10 chemicals (caustic, alum, acid (new), fluoride, SumaClear,...); replace/upgrade instrumentation, resolve sampling issues and flow metering
131	43	BRWTF	Washwater Pretreatment	Capital	\$617,000	2007	\$686,659	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	Cost includes only 1st phase, according to MWH 2003. Requires bigger tank; 10% recycle currently. Item #43 is a new facility alternative to these upgrades.
132	44	BRWTF	Filter to Waste Capability	Capital	\$250,000	2000	\$352,500	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	Likely tied to plant automation
133	45	BRWTF	Plant Recycle Pretreatment Facility	Capital	\$1,500,000	2000	\$2,115,000	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	Same as item #41, but new facility that includes decant water from lagoons
134	46	BRWTF	New Online Floc Monitoring Equipment	Capital	\$35,000	2003	\$46,715	3	N/A	N/A	Determined at Workshop #3 that cost outweighs any benefits. Therefore no funding planned.
135	47	BRWTF	Presedimentation	Capital	\$1,076,000	2003	\$1,436,137	3	N/A	N/A	Only necessary if raw water quality degrades and/or Carter Lake Pipeline is not constructed. Should be considered with preoxidation item above (Item #40).
136	48	BRWTF	UV Disinfection	Capital	\$2,145,000	2003	\$2,862,932	3	N/A	N/A	Would require new/upgraded electrical service. Could move up in priority if <i>Crypto</i> increases. Not anticipated in 20-year CIP.
137	50	BRWTF	Membranes	Capital	\$8,995,000	2003	\$12,005,627	3	N/A	N/A	Suggested in AWWA Peer Review. Potential long-term improvement. Not anticipated in 20-year CIP.
138	51	BRWTF	Granular Activated Carbon Filter Cap	Capital	\$250,000	2003	\$333,675	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	Should be studied along with preoxidation (Item #40). Price seems low.
139	53	BRWTF	Facility Automation	Capital	\$4,300,000	2010	\$4,300,000	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	Includes \$20.8K from #42
140	55	BRWTF	Filter rehabilitation planning	Capital	\$50,000	2010	\$50,000	3	2014	Ongoing Boulder Rservoir WTF Project	Includes filter controls upgrades and evaluation of enclosing filters (similar to Betasso). May need rehab within 10 yrs.

Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
141	57	BRWTF	Raw water pump VFDs	Capital	\$75,000	2010	\$75,000	3	TBD	Ongoing Boulder Reservoir Intake and Pumping Project	
142	58	BRWTF	Fiber optic line to RWPS and PLC	Capital	N/A	2010	N/A	3	2011	Boulder Reservoir WTF Mid-Term Improvements Project	Security issue. Project will be completed in 2011 as part of the Mid-Term Improvements RWPS upgrades project.
143	59	BRWTF	Miscellaneous energy efficiency improvements	Capital	\$25,000	2010	\$25,000	3	2012	Ongoing Boulder Reservoir WTF Project	Improvements to be identified by McKynstre energy audit were minimal. During Workshop #3, COB stated that another study is required. (\$25,000 is reserved for each WTF)
144	61	BRWTF	Washwater recovery tank expansion	Capital	\$500,000	2010	\$500,000	3	2030	Boulder Reservoir WTF Bond Proceeds 2030	
145	63	BRWTF	Upgrade/replace all pressure and flow instruments	Capital	\$150,000	2010	\$150,000	3	2020	Boulder Reservoir WTF Bond Proceeds 2020	Standardize on Rosemount
146	64	BRWTF	Curb and gutter and drainage improvements around plant	Capital	\$100,000	2010	\$100,000	3	2020	Boulder Reservoir WTF Bond Proceeds 2020	
147	66	BRWTF	Additional chemical storage	Capital	\$167,000	2010	\$167,000	3	2020	Boulder Reservoir WTF Bond Proceeds 2020	As it currently stands, we need to make sure we have 3 empty tanks before we can accept a load of hypo. Right now that doesn't pose much of a problem but if we ramp up and start treating more than 8-12 MGD, we could run into a problem with having enough hypo to get us through an unexpected delivery problem.
148	67	BRWTF	Demo scrubber room equipment	Capital	\$14,600	2010	\$14,600	3	2013	Ongoing Boulder Reservoir WTF Project	This could facilitate additional chemical storage
149	69	BRWTF	Cover filters	Capital	\$460,800	2010	\$460,800	3	N/A	N/A	Energy conservation during winter. Low priority. Not anticipated in 20-year CIP.
150	71	BRWTF	Upgrade polymer feed system (dry batching capability)	Capital	\$100,000	2010	\$100,000	3	2020	Boulder Reservoir WTF Bond Proceeds 2020	
151	76	Distribution System	Add flow meter and controls to Sunshine hydro facility 30" pipeline Flow meter and feedback control loop for control of bypass valves during hydro shutdown	Capital	\$3,000	2010	\$3,000	3	2017	Sunshine Transmission Pipe Project	Sunshine shut down or significant changes in flow causes back-up into Betasso clear well, and bypass valve must be manually opened. Flow meter would allow for proactive adjustments to be made.
152	77	Distribution System	Rehabilitation/Replacement of control system at Sunshine PRV	Capital	\$192,400	2010	\$192,400	3	2017	Sunshine Transmission Pipe Project	
153	80	Distribution System	Cherryvale Pump Station	Capital	N/A	2010	N/A	3	N/A	N/A	Cherryvale pump station project complete – no further upgrades needed for current planning period.
154	81	Distribution System	Iris Pump Station	Capital	N/A	2010	N/A	3	N/A	N/A	Iris pump station project complete – no further upgrades needed for current planning period.
155	82	Distribution System	Kohler Storage Tank	Capital	\$920,000	2010	\$920,000	3	2015-2016	N/A	\$1,100,000 to Reroof Kohler in 2016-2017



Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
156	90	Distribution System	Zone 1 Transmission Facilities	Capital	See asset management spreadsheets	N/A	See asset management spreadsheets	3	See asset management spreadsheets	Zone 1-3 Transmission Projects	Modeling indicates no large capital improvements required. Improvements and funding based on asset management spreadsheets.
157	91	Distribution System	Zone 2 Transmission Facilities	Capital	See asset management spreadsheets	N/A	See asset management spreadsheets	3	See asset management spreadsheets	Zone 1-3 Transmission Projects	Modeling indicates no large capital improvements required. Improvements and funding based on asset management spreadsheets.
158	92	Distribution System	Zone 3 Transmission Facilities	Capital	See asset management spreadsheets	N/A	See asset management spreadsheets	3	See asset management spreadsheets	Zone 1-3 Transmission Projects	Modeling indicates no large capital improvements required. Improvements and funding based on asset management spreadsheets.
159	98	Distribution System	101 Pearl Street Turbine Generator Improvements	Capital	\$200,000	2008	\$200,000	3	2019	Turbine Generator Project	
160	103	Distribution System	Devils Thumb Reservoir	Capital	\$814,161	2010	\$814,161	3	2022	General Fund	Paint inside and outside. \$1,250,542 budgeted in 2022 from asset management spreadsheet.
161	171	Distribution System	Test Drinking Water in Areas of Groundwater Contamination	O&M	\$5,000	2010	\$5,000	3	TBD	Operating Funds – Water Quality	
162		Distribution System	Mountain Transmission Facilities	Capital	See asset management spreadsheets	N/A	See asset management spreadsheets	3	See asset management spreadsheets	Mountain Transmission Projects	Modeling indicates no large capital improvements required. Improvements and funding based on asset management spreadsheets.
163	142	Sourcewater – Colorado River	Boulder Feeder Canal Stormwater Diversions – Phase 2	Capital	TBD		TBD	3	N/A	N/A	No money budgeted in the 20 year CIP for this project contemplating Carter Lake Pipeline.
164	145	Sourcewater – Colorado River	Farmer's Ditch Exchange Potential Pipeline	Capital	\$25,000,000	2008	\$25,000,000	3	N/A	N/A	No money budgeted in the 20 year CIP for this project.
165	147	Sourcewater – Colorado River	Farmers Ditch Capacity Restoration	Capital	\$1,950,000	2010	\$1,950,000	3	2019	Capital Improvement Program Funds	\$106,090 budgeted in 2019 for evaluation. No other money budgeted in the 20 year CIP for this project.
166	124	Sourcewater – Middle Boulder Creek	Skyscraper Reservoir Lining and Spillway Repair	Capital	\$450,000	2008	\$500,805	3	N/A	N/A	Lining not recommended in SWMP until beyond 20-years. No money currently budgeted in 20-year CIP.
167	125	Sourcewater – Middle Boulder Creek	Barker Residence	Capital	TBD		TBD	3	N/A	N/A	No money currently budgetd in 20-year CIP.
168	129	Sourcewater – Middle Boulder Creek	Barker Dam anchor grout repair	Capital	\$71,600	2010	\$71,600	3	N/A		No money budgeted in the 20 year CIP for this project. Grout repairs have recently been made (non-engineered). Grout condition currently appears adequate. If inspection required, suggested random checks on a few.
169	137	Sourcewater – Middle Boulder Creek	Kossler Bypass	Capital	\$1,105,910	2010	\$1,105,910	3	N/A	N/A	No money budgeted in the 20 year CIP for this project.
170	139	Sourcewater – Middle Boulder Creek	Boulder Canyon Hydro Penstock Replacement	Capital	\$8,600,000	2008	\$8,600,000	3	N/A	Capital Improvement Program Funds	No money budgeted in the 20-year CIP for this project.



Item No.	Comprehensive List Item No.	Facility	Project Description	Type (Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Final Funding Priority	Planned Funding Year	Funding Source	Comments
171	118	Souewater – North Boulder Creek	Albion Dam Raise and Liner	Capital	\$7,800,000	2008	\$8,680,620	3	N/A	N/A	No money currently budgeted for raising of the existing structure since it is not a priority. Keep on the list to evaluate potential funds and water rights changes.
172	9	Betasso	Pretreatment upgrades – DAF	Capital	\$7,501,000	2005	\$8,715,412	N/A	N/A	N/A	DAF pretreatment improvements were determined to not be cost effective in Workshop #2.
173	152	Betasso	Laser turbidity meters on filter effluent	Capital	\$60,000	2010	\$60,000	N/A	N/A	N/A	Workshop No 3 – Decided new turbidity meters were not required (cost was \$5k each x 8 filters + \$20k for install). No funding in planning period.
174	73	BRWTF	Miscellaneous security improvements	Capital	N/A	N/A	N/A	N/A	N/A	N/A	Repeat of Comprehensive List Item #71.
175	105	Distribution System	Pipeline Replacement Program	Capital	N/A	N/A	N/A	N/A	N/A	N/A	Duplication of Comprehensive List Item #88.
176	100	Note: Item #100 was a duplicate of Item #78, refer to Item #78, line item remains here for document consistency		N/A	N/A	N/A	N/A				
177	99	Note: Item #99 was a duplicate of Item #76, refer to Item #76, line item remains here for document consistency		N/A	N/A	N/A	N/A				

Output from the spreadsheets used by City staff to develop each of the funding level budgets and corresponding CIP is included in Appendix A of this volume. A spreadsheet tab is designated for each of the following calculations and includes the calculations for each year of the planning period:

**Revenues** – Annual revenue projections are calculated using the assumptions for water sales, hydroelectric generation revenue, miscellaneous operating revenue, plant investment fees, connection charges, special assessments, grants and loans, sale of real estate, water rent/lease revenue, transfer from the general fund, and bond proceeds indicated in Sections 1.2.2.1 through 1.2.2.3 above.

**Capital Improvement Program Project Costs** – Annual capital improvement program project costs are calculated using the assumptions for inflation, percentage of renewal/replacement project costs from asset management spreadsheets incorporated in the CIP as indicated in Sections 1.2.2.1 through 1.2.2.3 above, and manual “fitting” of projects throughout the planning period to maintain the desired levels of designated (i.e., Lakewood Pipeline Remediation) and undesignated reserves. Capital improvement project costs are budgetary estimates (Association for Advancement of Cost Engineering (AACE) Class 5 estimates) based on limited scope descriptions. These estimates are checked and refined with each master plan update and are adjusted for the assumed inflation rate for the planning period

**Lakewood Pipeline Remediation Reserve** – Due to the magnitude and duration of the Lakewood Pipeline rehabilitation project, a separate designated reserve fund was established to manage the funds needed to complete this project. The reserve fund was established by the City in 2006 with an initial funding of \$15 million. This designated reserve fund is used to track project expenditures and reserve fund interest separate from the general fund.

**Fund Balance** – The water utility fund balance and reserve fund projections are calculated using the previous year ending balances and the annual revenues, CIP project costs, and the Lakewood Pipeline Remediation Reserve fund balances obtained from the spreadsheet outputs described above. Adjustments are made to the Revenues and CIP Project Cost tabs (assumptions and scheduling of projects) to maintain the desired levels of designated and undesignated reserves.

### 1.4.3 CIP Recommendations

#### 1.4.3.1 Current WUMP

Based on the consolidated spreadsheet output for each of the funding level categories, MWH and City Staff recommend adoption of the Action Plan CIP budget. The Action Plan funding level strikes a balance between undesirable rate increases and having sufficient funding to maintain the City’s high service standards and reliability criteria in existing areas of service while planning for and accommodating regulatory driven and growth related service requirements. The Action Plan CIP funds nearly all of the projects identified throughout the master planning process in the 20-year planning period in accordance with their current funding priority while providing an adequate level of funding for asset renewal/replacement in accordance with the City’s historical experience. Project funding priorities should continue to be evaluated on an annual basis to ensure funding priorities continue to be aligned with actual needs throughout the duration of the planning period. City staff will continue to monitor and refine asset replacement analysis and adjust the actual replacement rate within a 60%-75% range as part of the annual budget process. Asset replacement at 75% of the predicted level has been used to formulate the 2012-2017 CIP budget.

### **1.4.3.2 Future CIP Planning**

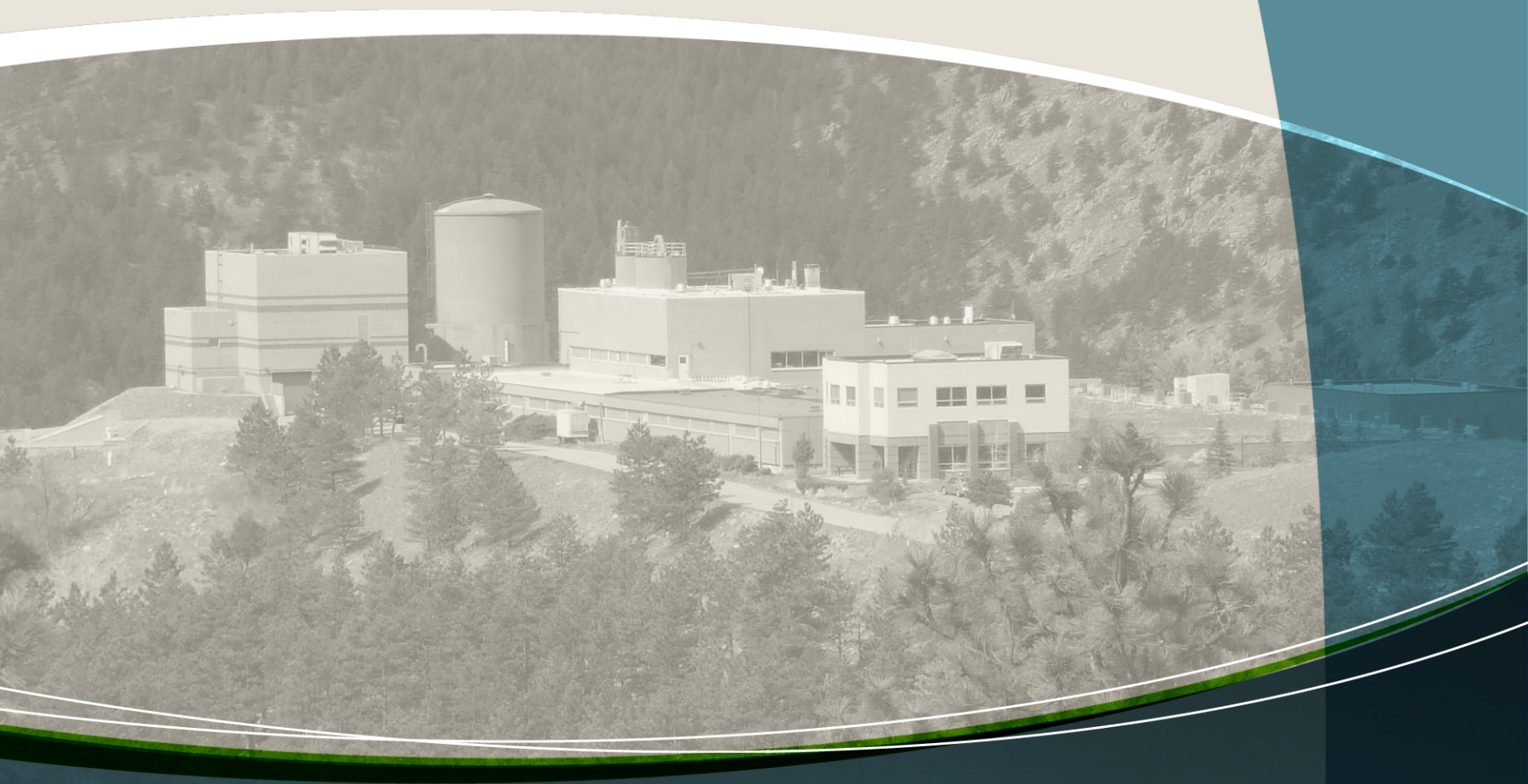
For future CIP planning, MWH recommends that the City of Boulder develop a more formalized and documented capital projects needs identification and evaluation process that provides for a life cycle cost and return on investment analysis of proposed capital projects. The formalized process should include a needs identification/capital project request form with data fields linked to a CIP database that should be included as a component of the City's overall asset management program. The process framework should also include a "fast track" or higher priority ranking for projects identified as having short return on investment periods (i.e., < 5-years).

MWH further recommends that the City of Boulder begin to implement a risk based methodology that incorporates both condition analysis and criticality assessments to assist in quantifying capital project prioritization. Such a quantifiable prioritization process will help move from a top down CIP process toward more of a bottom up CIP process. The data from the risk based condition and criticality evaluation also facilitates additional proactive O&M processes. This risk based methodology should be incorporated into the standard capital project request form process as condition and criticality data are acquired.

## Appendix A:

### Water Utility Fund and CIP Spreadsheets

# Fiscally Constrained Plan





**CITY OF BOULDER  
2012 FUND FINANCIAL  
WATER UTILITY FUND  
FISCALLY CONSTRAINED PLAN**

	2010 ACTUAL	2011 REVISED	2012 PROPOSED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$42,650,247	\$37,649,542	\$27,191,770	\$27,455,195	\$26,893,077	\$28,494,780
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$18,816,163	\$19,516,608	\$20,148,607	\$20,794,356	\$21,460,807	\$22,148,624
Projected Rate Increase	\$0 0%	\$585,498 3%	\$604,458 3%	\$623,831 3%	\$643,824 3%	\$664,459 3%
Bulk/Irrigation Water Sales	\$171,058	\$120,700	\$150,100	\$138,750	\$129,750	\$131,750
Hydroelectric Revenue	\$2,464,973	\$2,605,000	\$2,293,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$118,307	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$21,570,501</b>	<b>\$22,852,806</b>	<b>\$23,221,166</b>	<b>\$24,292,936</b>	<b>\$24,970,381</b>	<b>\$25,680,833</b>
Non-Operating--						
Plant Investment Fees	\$1,373,109	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$187,051	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$83,202	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$273,118	\$906,882	\$0	\$0	\$0	\$0
Interest on Investments	\$982,107	\$299,253	\$475,856	\$549,104	\$672,327	\$854,843
Rent, assessments and other misc revenues	\$51,050	\$18,500	\$19,000	\$19,500	\$20,000	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$196,500	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$0	\$19,171,728	\$0	\$0	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,042,422</b>	<b>\$22,144,148</b>	<b>\$2,439,141</b>	<b>\$2,316,389</b>	<b>\$2,440,112</b>	<b>\$2,623,128</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$24,612,923</b>	<b>\$44,996,954</b>	<b>\$25,660,307</b>	<b>\$26,609,325</b>	<b>\$27,410,493</b>	<b>\$28,303,961</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$738,079	\$836,279	\$827,801	\$852,635	\$878,214	\$904,561
Planning and Project Management	\$486,238	\$575,925	\$574,850	\$592,096	\$609,858	\$628,154
Water Resources and Hydroelectric Operations	\$1,932,434	\$2,004,557	\$2,014,482	\$2,074,916	\$2,137,164	\$2,201,279
Water Treatment	\$4,089,090	\$4,293,920	\$4,349,877	\$4,480,373	\$4,614,785	\$4,753,228
Water Quality & Environmental Svcs	\$782,365	\$873,887	\$894,284	\$921,113	\$948,746	\$977,208
Water Conservation	\$263,543	\$443,829	\$436,332	\$449,422	\$462,905	\$476,792
System Maintenance	\$2,760,964	\$3,113,787	\$3,064,958	\$3,156,907	\$3,251,614	\$3,349,162
Windy Gap Payment	\$2,433,538	\$2,553,539	\$2,541,910	\$2,556,836	\$2,596,250	\$2,714,004
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,647</b>	<b>\$103,666</b>	<b>\$106,776</b>	<b>\$109,980</b>
Sick/Vacation Accrual	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$13,456,689</b>	<b>\$14,795,723</b>	<b>\$14,905,141</b>	<b>\$15,290,964</b>	<b>\$15,712,402</b>	<b>\$16,223,640</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$844,505	\$848,752	\$854,690	\$854,438	\$856,594	\$857,709
Refunding of the 1999 and 2000 Revenue Bonds	\$3,253,354	\$2,507,921	\$2,506,088	\$2,511,421	\$2,523,521	\$2,522,054
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,174,452	\$21,340,435	\$2,052,608	\$2,057,650	\$2,057,650	\$2,065,733
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL DEBT SERVICE</b>	<b>\$6,272,311</b>	<b>\$24,697,108</b>	<b>\$5,413,386</b>	<b>\$5,423,509</b>	<b>\$5,437,115</b>	<b>\$5,445,496</b>
Transfers Out--						
Cost Allocation	\$1,118,145	\$1,153,926	\$1,231,239	\$1,354,363	\$1,489,799	\$1,638,779
Planning & Development Services	\$188,860	\$194,526	\$200,362	\$206,373	\$212,564	\$218,941
Other Transfers	\$15,000	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$1,322,005</b>	<b>\$1,348,452</b>	<b>\$1,431,601</b>	<b>\$1,560,736</b>	<b>\$1,702,363</b>	<b>\$1,857,720</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$8,533,061</b>	<b>\$6,071,864</b>	<b>\$3,746,754</b>	<b>\$4,999,235</b>	<b>\$3,063,000</b>	<b>\$4,395,537</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$8,641,579	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$29,584,066</b>	<b>\$55,554,726</b>	<b>\$25,496,882</b>	<b>\$27,274,444</b>	<b>\$25,914,880</b>	<b>\$27,922,394</b>
Sick/Vacation Accrual Adjustment	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>FUND BALANCE - END OF YEAR</b>	<b>\$37,649,542</b>	<b>\$27,191,770</b>	<b>\$27,455,195</b>	<b>\$26,893,077</b>	<b>\$28,494,780</b>	<b>\$28,985,620</b>
<b>Designated Reserves -</b>						
Bond Reserves	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830
Lakewood Pipeline Remediation Reserve	\$12,813,756	\$13,203,498	\$14,071,087	\$14,965,063	\$15,624,845	\$16,566,081
Lakewood/USFS Damage Claims Reserve	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$614,435	\$632,868	\$651,854	\$671,410	\$691,552	\$712,299
Pay Period 27 - 2013 Reserve	\$185,947	\$236,947	\$287,947	\$338,947	\$389,947	\$440,947
<b>TOTAL RESERVES</b>	<b>\$16,782,968</b>	<b>\$17,242,143</b>	<b>\$18,179,718</b>	<b>\$19,044,250</b>	<b>\$19,775,174</b>	<b>\$20,788,156</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$20,866,574</b>	<b>\$9,949,627</b>	<b>\$9,275,477</b>	<b>\$7,848,826</b>	<b>\$8,719,606</b>	<b>\$8,197,464</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$3,694,674</b>	<b>\$4,036,044</b>	<b>\$4,084,185</b>	<b>\$4,212,925</b>	<b>\$4,353,691</b>	<b>\$4,520,340</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$15,171,901</b>	<b>\$3,913,583</b>	<b>\$3,191,292</b>	<b>\$1,635,902</b>	<b>\$2,365,915</b>	<b>\$1,677,124</b>

\* Reserve levels are based on industry standards and are maintained for revenue bonds, revenue fluctuations (weather and water usage impacts) and the capital intensive nature of the utility



05-Oct-11  
- Draft -

	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED	2020 PROJECTED	2021 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$28,985,620	\$29,325,663	\$27,344,086	\$30,830,614	\$26,042,315	\$27,634,073
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$22,858,493	\$23,591,121	\$24,347,236	\$25,127,592	\$25,932,967	\$26,764,162
Projected Rate Increase	\$685,755 3%	\$707,734 3%	\$730,417 3%	\$753,828 3%	\$777,989 3%	\$802,925 3%
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$26,411,998</b>	<b>\$27,166,604</b>	<b>\$27,945,403</b>	<b>\$28,749,170</b>	<b>\$29,578,706</b>	<b>\$30,434,837</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$869,569	\$879,770	\$820,323	\$924,918	\$781,269	\$829,022
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$12,910,000	\$0	\$40,780,000	\$5,565,000	\$4,850,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$15,547,854</b>	<b>\$2,648,055</b>	<b>\$43,368,608</b>	<b>\$8,258,203</b>	<b>\$7,399,554</b>	<b>\$2,597,307</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$41,959,852</b>	<b>\$29,814,659</b>	<b>\$71,314,010</b>	<b>\$37,007,373</b>	<b>\$36,978,260</b>	<b>\$33,032,144</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$931,697	\$959,648	\$988,438	\$1,018,091	\$1,048,634	\$1,080,093
Planning and Project Management	\$646,999	\$666,409	\$686,401	\$706,993	\$728,203	\$750,049
Water Resources and Hydroelectric Operations	\$2,267,317	\$2,335,337	\$2,405,397	\$2,477,559	\$2,551,886	\$2,628,442
Water Treatment	\$4,895,825	\$5,042,700	\$5,193,981	\$5,349,800	\$5,510,294	\$5,675,603
Water Quality & Environmental Svcs	\$1,006,525	\$1,036,720	\$1,067,822	\$1,099,857	\$1,132,852	\$1,166,838
Water Conservation	\$491,096	\$505,828	\$521,003	\$536,633	\$552,732	\$569,314
System Maintenance	\$3,449,637	\$3,553,126	\$3,659,720	\$3,769,512	\$3,882,597	\$3,999,075
Windy Gap Payment	\$2,776,959	\$2,341,075	\$336,000	\$341,000	\$346,000	\$356,380
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$113,279</b>	<b>\$116,677</b>	<b>\$120,178</b>	<b>\$123,783</b>	<b>\$127,497</b>	<b>\$131,322</b>
Sick/Vacation Accrual	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,691,884</b>	<b>\$16,673,448</b>	<b>\$15,098,344</b>	<b>\$15,546,215</b>	<b>\$16,007,371</b>	<b>\$16,487,592</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$858,531	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$2,517,388	\$2,524,233	\$2,524,650	\$1,375,102	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,065,950	\$2,065,333	\$2,072,083	\$2,080,817	\$2,081,367	\$2,088,883
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410
<b>TOTAL DEBT SERVICE</b>	<b>\$6,567,279</b>	<b>\$5,714,976</b>	<b>\$9,277,198</b>	<b>\$8,621,589</b>	<b>\$7,669,867</b>	<b>\$7,677,383</b>
Transfers Out--						
Cost Allocation	\$1,802,657	\$1,982,923	\$2,181,215	\$2,399,336	\$2,639,270	\$2,903,197
Planning & Development Services	\$225,509	\$232,274	\$239,242	\$246,420	\$253,812	\$261,427
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$2,028,166</b>	<b>\$2,215,197</b>	<b>\$2,420,457</b>	<b>\$2,645,756</b>	<b>\$2,893,082</b>	<b>\$3,164,624</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$4,666,515</b>	<b>\$7,308,542</b>	<b>\$3,913,367</b>	<b>\$12,530,100</b>	<b>\$4,520,211</b>	<b>\$4,965,358</b>
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$125,000	\$0	\$350,000	\$75,000	\$75,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$41,732,360</b>	<b>\$31,912,163</b>	<b>\$67,946,888</b>	<b>\$41,918,660</b>	<b>\$35,513,179</b>	<b>\$32,294,957</b>
Sick/Vacation Accrual Adjustment	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>FUND BALANCE - END OF YEAR</b>	<b>\$29,325,663</b>	<b>\$27,344,086</b>	<b>\$30,830,614</b>	<b>\$26,042,315</b>	<b>\$27,634,073</b>	<b>\$28,501,736</b>
Designated Reserves -						
Bond Reserves	\$4,194,240	\$3,340,873	\$6,895,938	\$7,381,143	\$7,803,973	\$7,803,973
Lakewood Pipeline Remediation Reserve	\$17,535,945	\$18,535,309	\$19,565,069	\$20,323,132	\$21,407,271	\$22,524,385
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$733,668	\$755,678	\$778,348	\$801,698	\$825,749	\$850,522
Pay Period 27 - 2013 Reserve	\$491,947	\$542,947	\$593,947	\$644,947	\$695,947	\$746,947
<b>TOTAL RESERVES</b>	<b>\$22,955,800</b>	<b>\$23,174,806</b>	<b>\$27,833,302</b>	<b>\$29,150,920</b>	<b>\$30,732,940</b>	<b>\$31,925,826</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVE</b>	<b>\$6,369,863</b>	<b>\$4,169,280</b>	<b>\$2,997,311</b>	<b>(\$3,108,606)</b>	<b>(\$3,098,867)</b>	<b>(\$3,424,090)</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$4,680,013</b>	<b>\$4,722,161</b>	<b>\$4,379,700</b>	<b>\$4,547,993</b>	<b>\$4,725,113</b>	<b>\$4,913,054</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>(\$310,149)</b>	<b>(\$2,552,881)</b>	<b>(\$3,382,389)</b>	<b>(\$9,656,599)</b>	<b>(\$9,823,981)</b>	<b>(\$10,337,144)</b>

\* Reserve levels are based on industry standards and vary.

	2022	2023	2024	2025	2026	2027
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$28,501,736	\$29,893,628	\$29,844,389	\$33,604,034	\$37,662,628	\$41,542,667
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$27,622,005	\$28,507,350	\$29,421,080	\$30,364,104	\$31,337,361	\$32,341,821
Projected Rate Increase	\$828,660	\$855,221	\$882,632	\$910,923	\$940,121	\$970,255
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$31,318,415</b>	<b>\$32,230,321</b>	<b>\$33,171,462</b>	<b>\$34,142,777</b>	<b>\$35,145,232</b>	<b>\$36,179,825</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$855,052	\$896,809	\$895,332	\$1,008,121	\$1,129,879	\$1,246,280
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$0	\$0	\$16,365,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$2,623,337</b>	<b>\$2,665,094</b>	<b>\$2,570,832</b>	<b>\$2,683,621</b>	<b>\$19,170,379</b>	<b>\$2,921,780</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$33,941,752</b>	<b>\$34,895,415</b>	<b>\$35,742,294</b>	<b>\$36,826,398</b>	<b>\$54,315,611</b>	<b>\$39,101,605</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$1,112,495	\$1,145,870	\$1,180,246	\$1,215,654	\$1,252,123	\$1,289,687
Planning and Project Management	\$772,550	\$795,727	\$819,599	\$844,187	\$869,512	\$895,598
Water Resources and Hydroelectric Operations	\$2,707,295	\$2,788,514	\$2,872,170	\$2,958,335	\$3,047,085	\$3,138,497
Water Treatment	\$5,845,871	\$6,021,247	\$6,201,884	\$6,387,941	\$6,579,579	\$6,776,967
Water Quality & Environmental Svcs	\$1,201,843	\$1,237,898	\$1,275,035	\$1,313,286	\$1,352,685	\$1,393,265
Water Conservation	\$586,394	\$603,986	\$622,105	\$640,768	\$659,991	\$679,791
System Maintenance	\$4,119,047	\$4,242,619	\$4,369,897	\$4,500,994	\$4,636,024	\$4,775,105
Windy Gap Payment	\$367,071	\$378,084	\$389,426	\$401,109	\$413,142	\$425,536
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$135,261</b>	<b>\$139,319</b>	<b>\$143,499</b>	<b>\$147,804</b>	<b>\$152,238</b>	<b>\$156,805</b>
Sick/Vacation Accrual	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,982,220</b>	<b>\$17,491,687</b>	<b>\$18,016,437</b>	<b>\$18,556,930</b>	<b>\$19,113,638</b>	<b>\$19,687,047</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>
Transfers Out--						
Cost Allocation	\$3,193,517	\$3,512,869	\$3,864,155	\$4,250,571	\$4,675,628	\$5,143,191
Planning & Development Services	\$269,269	\$277,348	\$285,668	\$294,238	\$303,065	\$312,157
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$3,462,786</b>	<b>\$3,790,216</b>	<b>\$4,149,823</b>	<b>\$4,544,809</b>	<b>\$4,978,693</b>	<b>\$5,455,348</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$6,650,745</b>	<b>\$8,212,675</b>	<b>\$4,370,464</b>	<b>\$4,224,418</b>	<b>\$4,545,754</b>	<b>\$4,214,153</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$14,808,534	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$125,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$32,684,252</b>	<b>\$35,083,077</b>	<b>\$32,125,225</b>	<b>\$32,914,658</b>	<b>\$50,586,830</b>	<b>\$36,371,759</b>
Sick/Vacation Accrual Adjustment	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>FUND BALANCE - END OF YEAR</b>	<b>\$29,893,628</b>	<b>\$29,844,389</b>	<b>\$33,604,034</b>	<b>\$37,662,628</b>	<b>\$41,542,667</b>	<b>\$44,428,311</b>
<b>Designated Reserves -</b>						
Bond Reserves	\$5,588,510	\$5,588,510	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$23,209,485	\$23,915,424	\$24,291,553	\$25,030,403	\$25,791,727	\$26,576,207
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$876,037	\$902,319	\$929,388	\$957,270	\$985,988	\$1,015,567
Pay Period 27 - 2013 Reserve	\$797,947	\$848,947	\$899,947	\$950,947	\$1,001,947	\$1,052,947
<b>TOTAL RESERVES</b>	<b>\$30,471,980</b>	<b>\$31,255,200</b>	<b>\$33,857,048</b>	<b>\$34,674,780</b>	<b>\$35,515,822</b>	<b>\$36,380,882</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>(\$578,351)</b>	<b>(\$1,410,811)</b>	<b>(\$253,014)</b>	<b>\$2,987,847</b>	<b>\$6,026,845</b>	<b>\$8,047,429</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$5,111,252</b>	<b>\$5,320,476</b>	<b>\$5,541,565</b>	<b>\$5,775,435</b>	<b>\$6,023,083</b>	<b>\$6,285,599</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>(\$7,689,603)</b>	<b>(\$8,731,286)</b>	<b>(\$7,794,579)</b>	<b>(\$4,787,588)</b>	<b>(\$1,996,237)</b>	<b>(\$238,170)</b>

\* Reserve levels are based on industry standards and are

	2028	2029	2030	2031	2032
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>					
Beginning of Year Fund Balance	\$44,428,311	\$46,149,842	\$48,397,929	\$44,453,247	\$43,332,698
<b>SOURCES OF FUNDS</b>					
Operating--					
Sale of Water to General Cust	\$33,378,483	\$34,448,382	\$35,552,581	\$36,692,180	\$37,868,316
Projected Rate Increase	\$1,001,355	\$1,033,451	\$1,066,577	\$1,100,765	\$1,136,049
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$37,247,588</b>	<b>\$38,349,583</b>	<b>\$39,486,908</b>	<b>\$40,660,696</b>	<b>\$41,872,115</b>
Non-Operating--					
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$1,332,849	\$1,384,495	\$1,451,938	\$1,333,597	\$1,299,981
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$0	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$19,935,000	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,008,349</b>	<b>\$3,059,995</b>	<b>\$23,062,438</b>	<b>\$3,009,097</b>	<b>\$2,975,481</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$40,255,937</b>	<b>\$41,409,578</b>	<b>\$62,549,346</b>	<b>\$43,669,793</b>	<b>\$44,847,596</b>
<b>USES OF FUNDS</b>					
Operating Expenditures--					
Administration	\$1,328,378	\$1,368,229	\$1,409,276	\$1,451,554	\$1,495,101
Planning and Project Management	\$922,465	\$950,139	\$978,644	\$1,008,003	\$1,038,243
Water Resources and Hydroelectric Operations	\$3,232,652	\$3,329,632	\$3,429,521	\$3,532,406	\$3,638,379
Water Treatment	\$6,980,276	\$7,189,684	\$7,405,374	\$7,627,536	\$7,856,362
Water Quality & Environmental Svcs	\$1,435,063	\$1,478,115	\$1,522,459	\$1,568,132	\$1,615,176
Water Conservation	\$700,185	\$721,190	\$742,826	\$765,111	\$788,064
System Maintenance	\$4,918,358	\$5,065,909	\$5,217,886	\$5,374,422	\$5,535,655
Windy Gap Payment	\$438,302	\$451,452	\$464,995	\$478,945	\$493,313
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$161,509</b>	<b>\$166,354</b>	<b>\$171,345</b>	<b>\$176,485</b>	<b>\$181,780</b>
Sick/Vacation Accrual	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$20,277,659</b>	<b>\$20,885,989</b>	<b>\$21,512,568</b>	<b>\$22,157,945</b>	<b>\$22,822,684</b>
Debt--					
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>
Transfers Out--					
Cost Allocation	\$5,657,510	\$6,223,261	\$6,845,587	\$7,530,146	\$8,283,160
Planning & Development Services	\$321,522	\$331,167	\$341,103	\$351,336	\$361,876
Other Transfers	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$5,979,032</b>	<b>\$6,554,428</b>	<b>\$7,186,690</b>	<b>\$7,881,481</b>	<b>\$8,645,036</b>
Capital Improvements Program--					
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$5,422,976</b>	<b>\$4,871,149</b>	<b>\$11,018,296</b>	<b>\$6,173,081</b>	<b>\$6,244,425</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$150,000	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$38,694,876</b>	<b>\$39,326,776</b>	<b>\$66,664,271</b>	<b>\$44,965,693</b>	<b>\$46,465,329</b>
Sick/Vacation Accrual Adjustment	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>FUND BALANCE - END OF YEAR</b>	<b>\$46,149,842</b>	<b>\$48,397,929</b>	<b>\$44,453,247</b>	<b>\$43,332,698</b>	<b>\$41,895,576</b>
Designated Reserves -					
Bond Reserves	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$27,384,548	\$27,810,243	\$28,656,118	\$29,527,722	\$30,425,836
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$1,046,034	\$1,077,415	\$1,109,738	\$1,143,030	\$1,177,321
Pay Period 27 - 2013 Reserve	\$1,103,947	\$1,154,947	\$1,205,947	\$1,256,947	\$1,307,947
<b>TOTAL RESERVES</b>	<b>\$37,270,689</b>	<b>\$37,778,766</b>	<b>\$38,707,963</b>	<b>\$39,663,859</b>	<b>\$40,647,264</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$8,879,153</b>	<b>\$10,619,163</b>	<b>\$5,745,284</b>	<b>\$3,668,840</b>	<b>\$1,248,313</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$6,564,173</b>	<b>\$6,860,104</b>	<b>\$7,174,814</b>	<b>\$7,509,857</b>	<b>\$7,866,930</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$314,980</b>	<b>\$1,759,059</b>	<b>(\$3,429,531)</b>	<b>(\$5,841,017)</b>	<b>(\$8,618,617)</b>

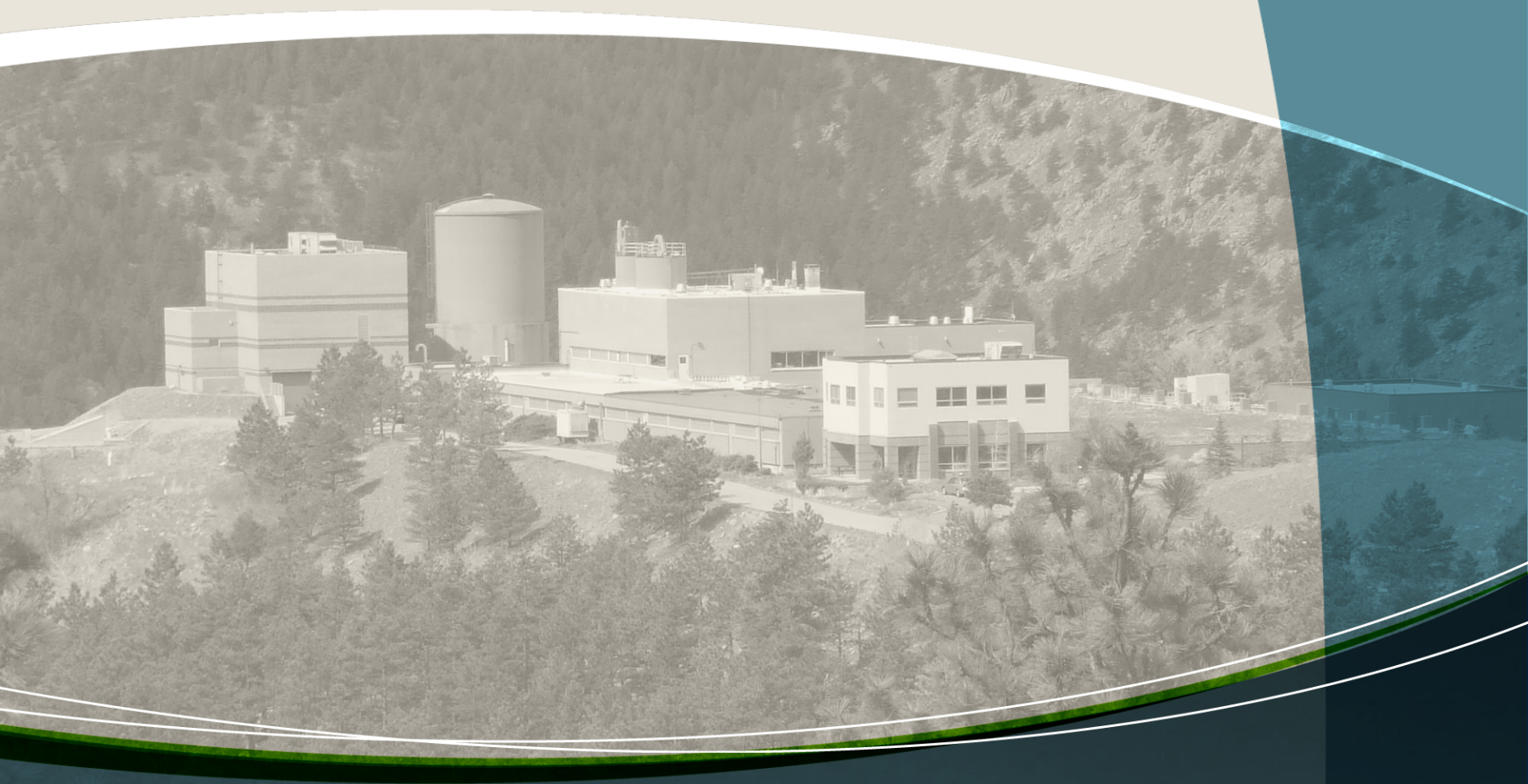
\* Reserve levels are based on industry standards and are

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1									05-Oct-11								
2					CITY OF BOULDER												
3					2012-2017 CAPITAL IMPROVEMENT PROGRAM												
4					WATER UTILITY FUND												
5					FISCALLY CONSTRAINED PLAN												
6	Assumed Inflation Rate	3.00%	ESTIMATED	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
7	PROJECT NAME		2010 COST	ACTUAL	REVISED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	
8																	
9	Treated Water Pressure Reducing and Hydroelectric Facilities																
10	Kohler Hydro/PRV Station	411376		\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
11	Maxwell Hydro/PRV Station	411342		\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
12	Orodel Hydro/PRV Station	411331		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Sunshine Hydro/PRV Station	411347	\$232,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$261,568	\$0	\$0	\$0	\$0	\$2,370	
14	101 Pearl Street Hydro/PRV Station		\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,185	\$231,855	\$0	\$0	
15	Subtotal - Treated Water PRV and Hydro			\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$261,568	\$23,185	\$231,855	\$0	\$0	\$2,370	
16																	
17	Water Treatment Facilities																
18	Betasso WTP	411947		\$74,789	\$325,211	\$149,000	\$200,000	\$100,000	\$1,165,352	\$466,671	\$0	\$0	\$0	\$0	\$804,661	\$0	
19	Betasso WTP - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0	\$11,653,516	\$0	\$0	\$0	\$0	\$0	\$0	
20	Bond Issuance Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$0	\$350,000	\$75,000	\$75,000	\$0	\$0	
21	Boulder Reservoir WTP	411652		\$2,243,791	\$47,678	\$80,000	\$116,000	\$82,000	\$0	\$164,000	\$0	\$0	\$0	\$34,436	\$0	\$0	
22	Boulder Res WTP - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,347,647	\$0	\$0	
23	Subtotal - Water Treatment Facilities			\$2,318,580	\$372,889	\$229,000	\$316,000	\$182,000	\$1,165,352	\$12,409,187	\$0	\$350,000	\$75,000	\$4,457,083	\$804,661	\$0	
24																	
25	Treated Water Pump Stations																
26	Cherryvale Pump Station	411010		\$322,532	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
27	Boulder Reservoir WTP High Service Pump Sta	411011		\$0	\$0	\$50,000	\$112,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
28	Iris Pump Stations	411012		\$61,152	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
29	Subtotal - Treated Water Pump Stations			\$383,684	\$0	\$50,000	\$112,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
30																	
31	Treated Water Storage Tanks																
32	Gunbarrel Storage Tank	411670		\$32,136	\$15,950	\$0	\$265,798	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
33	Maxwell Storage Tank	411673		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
34	Booten Storage Tank			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
35	Devil's Thumb Storage Tank	411674		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
36	Kohler Storage Tank	411671	\$920,000	\$0	\$0	\$0	\$0	\$0	\$100,531	\$1,005,309	\$0	\$0	\$0	\$0	\$0	\$0	
37	Chautauqua Storage Tank	411672	\$785,000	\$0	\$870,779	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000	
38	Betasso Storage Tank		\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$281,377	\$0	\$0	\$0	\$0	\$0	
39	Boulder Reservoir Storage Tank			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
40	Subtotal - Treated Water Storage Tanks			\$32,136	\$886,729	\$0	\$265,798	\$0	\$100,531	\$1,005,309	\$281,377	\$0	\$0	\$0	\$0	\$2,000,000	
41																	
42	Treated Water Distribution System																
43	Zone Isolation Valves	411390		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
44	Cathodic Protection	411387		\$18,569	\$113,501	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
45	Waterline Replacement	411389		\$3,074,412	\$2,458,289	\$2,100,000	\$2,100,000	\$2,163,000	\$2,227,890	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$3,314,510	\$3,413,945	\$3,516,364	
46	Subtotal - Treated Water Distribution System			\$3,092,981	\$2,571,790	\$2,100,000	\$2,100,000	\$2,163,000	\$2,227,890	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$3,314,510	\$3,413,945	\$3,516,364	
47																	
48	Treated Water Transmission System																
49	Sunshine Transmission Pipe	411006		\$0	\$0	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
50	Boulder Canyon - Orodel to Fourmile Pipe	411007		\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
51	Mountain Transmission Pipes	411007		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$243,334	\$0	\$0	
52	Zone 1 Transmission Pipes	411002		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
53	Zone 2 Transmission Pipes	411004		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
54	Zone 3 Transmission Pipes	411005		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
55	Subtotal - Treated Water Transmission System			\$0	\$500,000	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$243,334	\$0	\$0	
56																	
57	Source Water Transmission System																
58	Lakewood Pipeline	411780		\$216,490	\$0	\$0	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0	
59	Silver Lake Pipeline	411640		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
60	Source Water Transmission Pipe Inspections	411775		\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
61	Subtotal - Source Water Transmission System			\$216,490	\$0	\$80,000	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0	
62																	
63	Barker Water System																
64	Barker Gravity Pipeline Repair	411106	\$200,000	\$107,639	\$733,639	\$350,000	\$350,000	\$360,500	\$371,315	\$382,454	\$78,661	\$81,021	\$83,452	\$85,955	\$88,534	\$91,190	
65	Barker-Kossler Penstock Repair	411107	\$100,000	\$0	\$0	\$175,000	\$0	\$0	\$0	\$0	\$112,551	\$0	\$0	\$0	\$0	\$0	
66	Barker Dam Outlet	411109		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$736,081	\$0	\$0	\$0	\$0	\$0	
67	Barker Dam Outlet - Bond Proceeds		\$7,055,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,360,811	\$0	\$0	\$0	\$0	
68	Barker Dam and Reservoir	411110	\$350,000	\$0	\$120,000	\$0	\$0	\$0	\$371,315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
69	Barker Hydro System Integration	411111		\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
70	Barker Relicensing	411112		\$47,826	\$570,000	\$0	\$0	\$0	\$0	\$253,354	\$0	\$0	\$0	\$0	\$0	\$0	
71	Barker Instream Flow Release	411114		\$8,645	\$139,359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
72	Betasso Penstock	411940		\$253,465	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
73	Kossler Reservoir	411119		\$70,626	\$864,712	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
74	Subtotal - Barker Water System			\$488,217	\$2,427,710	\$525,000	\$650,000	\$360,500	\$742,630	\$635,808	\$927,293	\$7,441,832	\$83,452	\$85,955	\$88,534	\$91,190	
75																	
76	Raw Water Storage Reservoirs																
77	Albion Dam		\$3,075,000	\$0	\$0	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$0	\$0	\$0	\$362,857	
78	Silver Lake Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
79	Island Lake Dam	411626		\$13,002	\$148,892	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
80	Green Lake 1 Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
81	Green Lake 2 Dam	411627	\$3,875,000	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$408,366	\$4,083,659	\$0	\$0	\$0	
82	Green Lake 3 Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
83	Goose Lake Dam	411612		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
84	Boulder Reservoir		\$90,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,689	\$0	\$0	
85	Lakewood Reservoir	411981	\$102,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$118,826	\$0	\$0	\$0	\$0	
86	Skyscraper Dam		\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$144,909	\$0	\$0	\$0	\$0	
87	Wittmyer Ponds		\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$429,659	\$4,298,568	\$0	\$0	\$0	
88	Subtotal - Raw Water Storage Reservoirs			\$13,002	\$148,892	\$0	\$75,000	\$0	\$79,568	\$0	\$0	\$1,101,960	\$8,382,247	\$110,689	\$0	\$362,857	
89																	
90	Other Raw Water Facilities																
91	Farmer's Ditch	411550		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$106,090	\$0	\$0	\$0	
92	Anderson Ditch	411883		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
93	Watershed Improvements	411770	\$440,500	\$0	\$290,500	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$0	\$92,241	\$0	\$0	
94	Nederland WWTP	411565		\$0	\$370,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
95	Instream Flow Structures and Gaging	411549		\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
96	Como Creek Diversion Structure	411548		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
97	Lakewood Diversion Structure																





# Action Plan





**CITY OF BOULDER  
2012 FUND FINANCIAL  
WATER UTILITY FUND**

	2010 ACTUAL	2011 REVISED	2012 PROPOSED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$42,650,247	\$37,649,542	\$27,191,770	\$27,508,090	\$27,313,428	\$29,630,273
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$18,816,163	\$19,516,608	\$20,148,607	\$20,794,356	\$21,773,346	\$22,798,437
Projected Rate Increase	\$0 0%	\$585,498 3%	\$604,458 3%	\$935,746 4.5%	\$979,801 4.5%	\$1,025,930 4.5%
Bulk/Irrigation Water Sales	\$171,058	\$120,700	\$150,100	\$138,750	\$129,750	\$131,750
Hydroelectric Revenue	\$2,464,973	\$2,605,000	\$2,293,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$118,307	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$21,570,501</b>	<b>\$22,852,806</b>	<b>\$23,221,166</b>	<b>\$24,604,852</b>	<b>\$25,618,897</b>	<b>\$26,692,117</b>
Non-Operating--						
Plant Investment Fees	\$1,373,109	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$187,051	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$83,202	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$273,118	\$906,882	\$0	\$0	\$0	\$0
Interest on Investments	\$982,107	\$299,253	\$475,856	\$550,162	\$682,836	\$888,908
Rent, assessments and other misc revenues	\$51,050	\$18,500	\$19,000	\$19,500	\$20,000	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$196,500	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$0	\$19,171,728	\$0	\$0	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,042,422</b>	<b>\$22,144,148</b>	<b>\$2,439,141</b>	<b>\$2,317,447</b>	<b>\$2,450,621</b>	<b>\$2,657,193</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$24,612,923</b>	<b>\$44,996,954</b>	<b>\$25,660,307</b>	<b>\$26,922,299</b>	<b>\$28,069,517</b>	<b>\$29,349,310</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$738,079	\$836,279	\$819,491	\$844,076	\$869,398	\$895,480
Planning and Project Management	\$486,238	\$575,925	\$574,183	\$591,408	\$609,151	\$627,425
Water Resources and Hydroelectric Operations	\$1,932,434	\$2,004,557	\$2,010,807	\$2,071,131	\$2,133,265	\$2,197,263
Water Treatment	\$4,089,090	\$4,293,920	\$4,329,482	\$4,459,366	\$4,593,147	\$4,730,942
Water Quality & Environmental Svcs	\$782,365	\$873,887	\$890,599	\$917,317	\$944,836	\$973,182
Water Conservation	\$263,543	\$443,829	\$436,419	\$449,512	\$462,997	\$476,887
System Maintenance	\$2,760,964	\$3,113,787	\$3,048,707	\$3,140,168	\$3,234,373	\$3,331,404
Windy Gap Payment	\$2,433,538	\$2,553,539	\$2,541,910	\$2,556,836	\$2,596,250	\$2,714,004
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,647</b>	<b>\$103,666</b>	<b>\$106,776</b>	<b>\$109,980</b>
Sick/Vacation Accrual	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$13,456,689</b>	<b>\$14,795,723</b>	<b>\$14,852,245</b>	<b>\$15,236,481</b>	<b>\$15,656,284</b>	<b>\$16,165,839</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$844,505	\$848,752	\$854,690	\$854,438	\$856,594	\$857,709
Refunding of the 1999 and 2000 Revenue Bonds	\$3,253,354	\$2,507,921	\$2,506,088	\$2,511,421	\$2,523,521	\$2,522,054
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,174,452	\$21,340,435	\$2,052,608	\$2,057,650	\$2,057,000	\$2,065,733
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL DEBT SERVICE</b>	<b>\$6,272,311</b>	<b>\$24,697,108</b>	<b>\$5,413,386</b>	<b>\$5,423,509</b>	<b>\$5,437,115</b>	<b>\$5,445,496</b>
Transfers Out--						
Cost Allocation	\$1,118,145	\$1,153,926	\$1,231,239	\$1,354,363	\$1,489,799	\$1,638,779
Planning & Development Services	\$188,860	\$194,526	\$200,362	\$206,373	\$212,564	\$218,941
Other Transfers	\$15,000	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$1,322,005</b>	<b>\$1,348,452</b>	<b>\$1,431,601</b>	<b>\$1,560,736</b>	<b>\$1,702,363</b>	<b>\$1,857,720</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$8,533,061</b>	<b>\$6,071,864</b>	<b>\$3,746,754</b>	<b>\$4,999,235</b>	<b>\$3,063,000</b>	<b>\$4,395,537</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$8,641,579	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$29,584,066</b>	<b>\$55,554,726</b>	<b>\$25,443,986</b>	<b>\$27,219,961</b>	<b>\$25,858,763</b>	<b>\$27,864,593</b>
Sick/Vacation Accrual Adjustment	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>FUND BALANCE - END OF YEAR</b>	<b>\$37,649,542</b>	<b>\$27,191,770</b>	<b>\$27,508,090</b>	<b>\$27,313,428</b>	<b>\$29,630,273</b>	<b>\$31,224,262</b>
<b>Designated Reserves -</b>						
Bond Reserves	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830
Lakewood Pipeline Remediation Reserve	\$12,813,756	\$13,203,498	\$14,071,087	\$14,965,063	\$15,624,845	\$16,566,081
Lakewood/USFS Damage Claims Reserve	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$614,435	\$632,868	\$651,854	\$671,410	\$691,552	\$712,299
Pay Period 27 - 2013 Reserve	\$185,947	\$236,947	\$287,947	\$338,947	\$389,947	\$440,947
<b>TOTAL RESERVES</b>	<b>\$16,782,968</b>	<b>\$17,242,143</b>	<b>\$18,179,718</b>	<b>\$19,044,250</b>	<b>\$19,775,174</b>	<b>\$20,788,156</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$20,866,574</b>	<b>\$9,949,627</b>	<b>\$9,328,373</b>	<b>\$8,269,178</b>	<b>\$9,855,099</b>	<b>\$10,436,106</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$3,694,674</b>	<b>\$4,036,044</b>	<b>\$4,070,962</b>	<b>\$4,199,304</b>	<b>\$4,339,662</b>	<b>\$4,505,890</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$15,171,901</b>	<b>\$3,913,583</b>	<b>\$3,257,411</b>	<b>\$2,069,874</b>	<b>\$3,515,437</b>	<b>\$3,930,216</b>

\* Reserve levels are based on industry standards and are maintained for revenue bonds, revenue fluctuations (weather and water usage impacts) and the capital intensive nature of the utility.

05-Oct-11  
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	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED	2020 PROJECTED	2021 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$31,224,262	\$30,059,421	\$29,328,126	\$34,535,632	\$31,985,538	\$32,618,481
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$23,871,799	\$24,995,706	\$26,172,538	\$27,404,787	\$28,695,062	\$30,046,097
Projected Rate Increase	\$1,074,231	\$1,124,807	\$1,177,764	\$1,233,215	\$1,291,278	\$1,352,074
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$27,813,780</b>	<b>\$28,988,263</b>	<b>\$30,218,052</b>	<b>\$31,505,752</b>	<b>\$32,854,090</b>	<b>\$34,265,921</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$936,728	\$901,783	\$879,844	\$1,036,069	\$959,566	\$978,554
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$12,910,000	\$0	\$40,780,000	\$5,565,000	\$4,850,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$15,615,013</b>	<b>\$2,670,068</b>	<b>\$43,428,129</b>	<b>\$8,369,354</b>	<b>\$7,577,851</b>	<b>\$2,746,839</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$43,428,793</b>	<b>\$31,658,331</b>	<b>\$73,646,181</b>	<b>\$39,875,106</b>	<b>\$40,431,941</b>	<b>\$37,012,761</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$922,344	\$950,015	\$978,515	\$1,007,871	\$1,038,107	\$1,069,250
Planning and Project Management	\$646,248	\$665,635	\$685,605	\$706,173	\$727,358	\$749,179
Water Resources and Hydroelectric Operations	\$2,263,181	\$2,331,076	\$2,401,009	\$2,473,039	\$2,547,230	\$2,623,647
Water Treatment	\$4,872,870	\$5,019,056	\$5,169,628	\$5,324,717	\$5,484,458	\$5,648,992
Water Quality & Environmental Svcs	\$1,002,377	\$1,032,448	\$1,063,422	\$1,095,324	\$1,128,184	\$1,162,030
Water Conservation	\$491,193	\$505,929	\$521,107	\$536,740	\$552,843	\$569,428
System Maintenance	\$3,431,347	\$3,534,287	\$3,640,316	\$3,749,525	\$3,862,011	\$3,977,871
Windy Gap Payment	\$2,776,959	\$2,341,075	\$336,000	\$341,000	\$346,000	\$356,380
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$113,279</b>	<b>\$116,677</b>	<b>\$120,178</b>	<b>\$123,783</b>	<b>\$127,497</b>	<b>\$131,322</b>
Sick/Vacation Accrual	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,632,349</b>	<b>\$16,612,127</b>	<b>\$15,035,184</b>	<b>\$15,481,159</b>	<b>\$15,940,364</b>	<b>\$16,418,575</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$858,531	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$2,517,388	\$2,524,233	\$2,524,650	\$1,375,102	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,065,950	\$2,065,333	\$2,072,083	\$2,080,817	\$2,081,367	\$2,088,883
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410
<b>TOTAL DEBT SERVICE</b>	<b>\$6,567,279</b>	<b>\$5,714,976</b>	<b>\$9,277,198</b>	<b>\$8,621,589</b>	<b>\$7,669,867</b>	<b>\$7,677,383</b>
Transfers Out--						
Cost Allocation	\$1,802,657	\$1,982,923	\$2,181,215	\$2,399,336	\$2,639,270	\$2,903,197
Planning & Development Services	\$225,509	\$232,274	\$239,243	\$246,420	\$253,813	\$261,427
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$2,028,166</b>	<b>\$2,215,197</b>	<b>\$2,420,458</b>	<b>\$2,645,756</b>	<b>\$2,893,083</b>	<b>\$3,164,624</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$7,699,874</b>	<b>\$7,963,253</b>	<b>\$4,587,720</b>	<b>\$13,224,683</b>	<b>\$8,999,714</b>	<b>\$12,949,871</b>
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$125,000	\$0	\$350,000	\$75,000	\$75,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$44,706,185</b>	<b>\$32,505,553</b>	<b>\$68,558,081</b>	<b>\$42,548,188</b>	<b>\$39,925,675</b>	<b>\$40,210,453</b>
Sick/Vacation Accrual Adjustment	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>FUND BALANCE - END OF YEAR</b>	<b>\$30,059,421</b>	<b>\$29,328,126</b>	<b>\$34,535,632</b>	<b>\$31,985,538</b>	<b>\$32,618,481</b>	<b>\$29,551,267</b>
Designated Reserves -						
Bond Reserves	\$4,194,240	\$3,340,873	\$6,895,938	\$7,381,143	\$7,803,973	\$7,803,973
Lakewood Pipeline Remediation Reserve	\$17,535,945	\$18,535,309	\$19,565,069	\$20,323,132	\$21,407,271	\$22,524,385
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$733,668	\$755,678	\$778,348	\$801,698	\$825,749	\$850,522
Pay Period 27 - 2013 Reserve	\$491,947	\$542,947	\$593,947	\$644,947	\$695,947	\$746,947
<b>TOTAL RESERVES</b>	<b>\$22,955,800</b>	<b>\$23,174,806</b>	<b>\$27,833,302</b>	<b>\$29,150,920</b>	<b>\$30,732,940</b>	<b>\$31,925,826</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$7,103,622</b>	<b>\$6,153,320</b>	<b>\$6,702,330</b>	<b>\$2,834,617</b>	<b>\$1,885,541</b>	<b>(\$2,374,560)</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$4,665,129</b>	<b>\$4,706,831</b>	<b>\$4,363,910</b>	<b>\$4,531,729</b>	<b>\$4,708,362</b>	<b>\$4,895,800</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$438,493</b>	<b>(\$553,511)</b>	<b>\$338,419</b>	<b>(\$3,697,112)</b>	<b>(\$4,822,820)</b>	<b>(\$9,270,360)</b>

\* Reserve levels are based on industry standards and ar

	2022	2023	2024	2025	2026	2027
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$29,551,267	\$32,619,307	\$33,759,845	\$39,339,178	\$45,361,378	\$50,633,349
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$31,460,752	\$32,942,022	\$34,493,046	\$36,117,108	\$37,817,646	\$39,598,263
Projected Rate Increase	\$1,415,734	\$1,482,391	\$1,552,187	\$1,625,270	\$1,701,794	\$1,781,922
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$35,744,235</b>	<b>\$37,292,163</b>	<b>\$38,912,983</b>	<b>\$40,610,128</b>	<b>\$42,387,190</b>	<b>\$44,247,935</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$886,538	\$978,579	\$1,012,795	\$1,180,175	\$1,360,841	\$1,519,000
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$0	\$0	\$16,365,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$2,654,823</b>	<b>\$2,746,864</b>	<b>\$2,688,295</b>	<b>\$2,855,675</b>	<b>\$19,401,341</b>	<b>\$3,194,500</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$38,399,058</b>	<b>\$40,039,028</b>	<b>\$41,601,279</b>	<b>\$43,465,803</b>	<b>\$61,788,532</b>	<b>\$47,442,436</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$1,101,327	\$1,134,367	\$1,168,398	\$1,203,450	\$1,239,554	\$1,276,740
Planning and Project Management	\$771,654	\$794,804	\$818,648	\$843,207	\$868,503	\$894,558
Water Resources and Hydroelectric Operations	\$2,702,356	\$2,783,427	\$2,866,930	\$2,952,938	\$3,041,526	\$3,132,772
Water Treatment	\$5,818,462	\$5,993,016	\$6,172,806	\$6,357,990	\$6,548,730	\$6,745,192
Water Quality & Environmental Svcs	\$1,196,891	\$1,232,797	\$1,269,781	\$1,307,875	\$1,347,111	\$1,387,524
Water Conservation	\$586,511	\$604,106	\$622,229	\$640,896	\$660,123	\$679,927
System Maintenance	\$4,097,207	\$4,220,123	\$4,346,727	\$4,477,129	\$4,611,443	\$4,749,786
Windy Gap Payment	\$367,071	\$378,084	\$389,426	\$401,109	\$413,142	\$425,536
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$135,261</b>	<b>\$139,319</b>	<b>\$143,499</b>	<b>\$147,804</b>	<b>\$152,238</b>	<b>\$156,805</b>
Sick/Vacation Accrual	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,911,132</b>	<b>\$17,418,466</b>	<b>\$17,941,020</b>	<b>\$18,479,251</b>	<b>\$19,033,628</b>	<b>\$19,604,637</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>
Transfers Out--						
Cost Allocation	\$3,193,517	\$3,512,869	\$3,864,155	\$4,250,571	\$4,675,628	\$5,143,191
Planning & Development Services	\$269,270	\$277,348	\$285,668	\$294,238	\$303,066	\$312,157
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$3,462,787</b>	<b>\$3,790,216</b>	<b>\$4,149,824</b>	<b>\$4,544,809</b>	<b>\$4,978,694</b>	<b>\$5,455,348</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$9,502,991</b>	<b>\$12,239,730</b>	<b>\$8,485,178</b>	<b>\$8,977,896</b>	<b>\$10,706,753</b>	<b>\$7,518,158</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$14,808,534	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$125,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$35,465,410</b>	<b>\$39,036,913</b>	<b>\$36,164,522</b>	<b>\$37,590,456</b>	<b>\$56,667,820</b>	<b>\$39,593,353</b>
Sick/Vacation Accrual Adjustment	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>FUND BALANCE - END OF YEAR</b>	<b>\$32,619,307</b>	<b>\$33,759,845</b>	<b>\$39,339,178</b>	<b>\$45,361,378</b>	<b>\$50,633,349</b>	<b>\$58,638,228</b>
<b>Designated Reserves -</b>						
Bond Reserves	\$5,588,510	\$5,588,510	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$23,209,485	\$23,915,424	\$24,291,553	\$25,030,403	\$25,791,727	\$26,576,207
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$876,037	\$902,319	\$929,388	\$957,270	\$985,988	\$1,015,567
Pay Period 27 - 2013 Reserve	\$797,947	\$848,947	\$899,947	\$950,947	\$1,001,947	\$1,052,947
<b>TOTAL RESERVES</b>	<b>\$30,471,980</b>	<b>\$31,255,200</b>	<b>\$33,857,048</b>	<b>\$34,674,780</b>	<b>\$35,515,822</b>	<b>\$36,380,882</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$2,147,327</b>	<b>\$2,504,646</b>	<b>\$5,482,130</b>	<b>\$10,686,597</b>	<b>\$15,117,527</b>	<b>\$22,257,346</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$5,093,480</b>	<b>\$5,302,171</b>	<b>\$5,522,711</b>	<b>\$5,756,015</b>	<b>\$6,003,080</b>	<b>\$6,264,996</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>(\$4,946,152)</b>	<b>(\$4,797,525)</b>	<b>(\$2,040,581)</b>	<b>\$2,930,582</b>	<b>\$7,114,446</b>	<b>\$13,992,350</b>

\* Reserve levels are based on industry standards and are

	2028	2029	2030	2031	2032
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>					
Beginning of Year Fund Balance	\$58,638,228	\$59,380,943	\$68,500,354	\$38,894,800	\$44,934,516
<b>SOURCES OF FUNDS</b>					
Operating--					
Sale of Water to General Cust	\$41,462,729	\$43,414,993	\$45,459,189	\$47,599,647	\$49,840,898
Projected Rate Increase	\$1,865,823 4.5%	\$1,953,675 4.5%	\$2,045,664 4.5%	\$2,141,984 4.5%	\$2,242,840 4.5%
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$46,196,302</b>	<b>\$48,236,418</b>	<b>\$50,372,603</b>	<b>\$52,609,381</b>	<b>\$54,951,488</b>
Non-Operating--					
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$1,759,147	\$1,781,428	\$2,055,011	\$1,166,844	\$1,348,035
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$0	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$19,935,000	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,434,647</b>	<b>\$3,456,928</b>	<b>\$23,665,511</b>	<b>\$2,842,344</b>	<b>\$3,023,535</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$49,630,949</b>	<b>\$51,693,346</b>	<b>\$74,038,114</b>	<b>\$55,451,725</b>	<b>\$57,975,024</b>
<b>USES OF FUNDS</b>					
Operating Expenditures--					
Administration	\$1,315,042	\$1,354,494	\$1,395,129	\$1,436,982	\$1,480,092
Planning and Project Management	\$921,395	\$949,037	\$977,508	\$1,006,833	\$1,037,038
Water Resources and Hydroelectric Operations	\$3,226,755	\$3,323,558	\$3,423,264	\$3,525,962	\$3,631,741
Water Treatment	\$6,947,548	\$7,155,974	\$7,370,653	\$7,591,773	\$7,819,526
Water Quality & Environmental Svcs	\$1,429,150	\$1,472,024	\$1,516,185	\$1,561,671	\$1,608,521
Water Conservation	\$700,324	\$721,334	\$742,974	\$765,263	\$788,221
System Maintenance	\$4,892,280	\$5,039,048	\$5,190,220	\$5,345,926	\$5,506,304
Windy Gap Payment	\$438,302	\$451,452	\$464,995	\$478,945	\$493,313
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$161,509</b>	<b>\$166,354</b>	<b>\$171,345</b>	<b>\$176,485</b>	<b>\$181,780</b>
Sick/Vacation Accrual	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$20,192,776</b>	<b>\$20,798,560</b>	<b>\$21,422,516</b>	<b>\$22,065,192</b>	<b>\$22,727,148</b>
Debt--					
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>
Transfers Out--					
Cost Allocation	\$5,657,510	\$6,223,261	\$6,845,587	\$7,530,146	\$8,283,160
Planning & Development Services	\$321,522	\$331,168	\$341,103	\$351,336	\$361,876
Other Transfers	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$5,979,032</b>	<b>\$6,554,429</b>	<b>\$7,186,690</b>	<b>\$7,881,482</b>	<b>\$8,645,036</b>
Capital Improvements Program--					
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$15,861,686</b>	<b>\$8,371,021</b>	<b>\$48,257,987</b>	<b>\$10,887,501</b>	<b>\$10,360,260</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$150,000	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$49,048,705</b>	<b>\$42,739,220</b>	<b>\$103,813,911</b>	<b>\$49,587,360</b>	<b>\$50,485,629</b>
Sick/Vacation Accrual Adjustment	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>FUND BALANCE - END OF YEAR</b>	<b>\$59,380,943</b>	<b>\$68,500,354</b>	<b>\$38,894,800</b>	<b>\$44,934,516</b>	<b>\$52,604,522</b>
Designated Reserves -					
Bond Reserves	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$27,384,548	\$27,810,243	\$28,656,118	\$29,527,722	\$30,425,836
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$1,046,034	\$1,077,415	\$1,109,738	\$1,143,030	\$1,177,321
Pay Period 27 - 2013 Reserve	\$1,103,947	\$1,154,947	\$1,205,947	\$1,256,947	\$1,307,947
<b>TOTAL RESERVES</b>	<b>\$37,270,689</b>	<b>\$37,778,766</b>	<b>\$38,707,963</b>	<b>\$39,663,859</b>	<b>\$40,647,264</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$22,110,253</b>	<b>\$30,721,588</b>	<b>\$186,837</b>	<b>\$5,270,657</b>	<b>\$11,957,258</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$6,542,952</b>	<b>\$6,838,247</b>	<b>\$7,152,302</b>	<b>\$7,486,668</b>	<b>\$7,843,046</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$13,567,301</b>	<b>\$21,883,341</b>	<b>(\$8,965,465)</b>	<b>(\$4,216,012)</b>	<b>\$2,114,212</b>

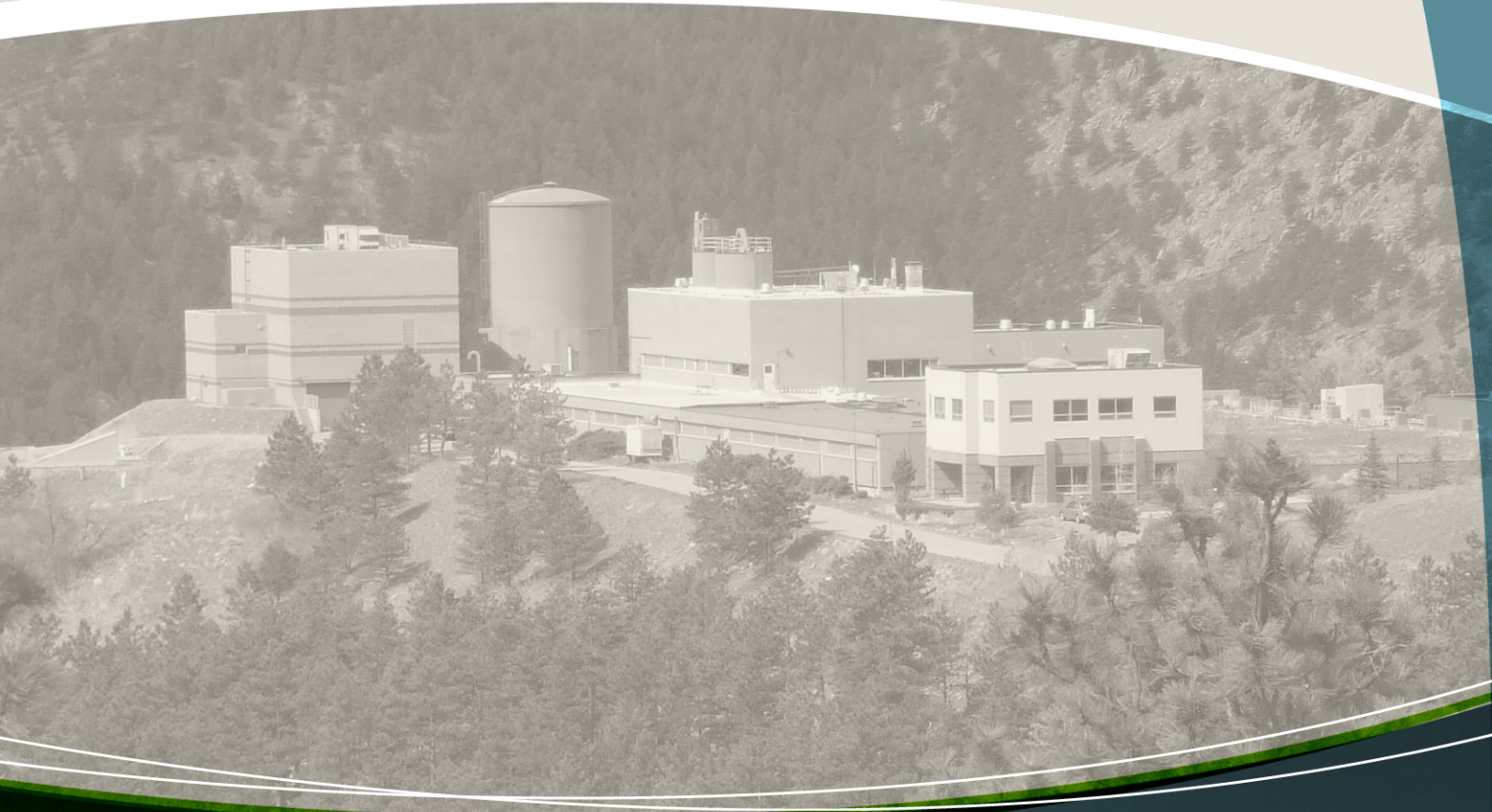
\* Reserve levels are based on industry standards and are

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CITY OF BOULDER										05-Oct-11						
2	2012-2017 CAPITAL IMPROVEMENT PROGRAM																
3	WATER UTILITY FUND																
4																	
5	Assumed Inflation Rate	3.00%	ESTIMATED	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
6	PROJECT NAME		2010 COST	ACTUAL	REVISED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
7	Treated Water Pressure Reducing and Hydroelectric Facilities																
8	Kohler Hydro/PRV Station	411376		\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Maxwell Hydro/PRV Station	411342		\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Orodel Hydro/PRV Station	411331		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Sunshine Hydro/PRV Station	411347	\$232,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$261,568	\$0	\$0	\$0	\$0	\$17,774	\$0
12	101 Pearl Street Hydro/PRV Station		\$200,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,185	\$231,855	\$0	\$0	\$0	\$0
13	Subtotal - Treated Water PRV and Hydro			\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$261,568	\$23,185	\$231,855	\$0	\$0	\$17,774	\$0
14	Water Treatment Facilities																
15	Betasso WTP	411947		\$74,789	\$325,211	\$149,000	\$200,000	\$100,000	\$1,165,352	\$3,500,030	\$0	\$0	\$0	\$0	\$6,034,959	\$0	\$1,275,126
16	Betasso WTP - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0	\$11,653,516	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Bond Issuance Costs			\$0	\$0	\$0	\$0	\$0	\$0	\$125,000	\$0	\$350,000	\$75,000	\$75,000	\$0	\$0	\$0
18	Boulder Reservoir WTP	411652		\$2,243,791	\$47,678	\$80,000	\$116,000	\$82,000	\$0	\$164,000	\$0	\$0	\$0	\$258,272	\$0	\$0	\$0
19	Boulder Res WTP - Bond Proceeds			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,347,647	\$0	\$0	\$0
20	Subtotal - Water Treatment Facilities			\$2,318,580	\$372,889	\$229,000	\$316,000	\$182,000	\$1,165,352	\$15,442,546	\$0	\$350,000	\$75,000	\$4,680,919	\$6,034,959	\$0	\$1,275,126
21	Treated Water Pump Stations																
22	Cherryvale Pump Station	411010		\$322,532	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Boulder Reservoir WTP High Service Pump Sta	411011		\$0	\$0	\$50,000	\$112,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Iris Pump Stations	411012		\$61,152	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	Subtotal - Treated Water Pump Stations			\$383,684	\$0	\$50,000	\$112,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	Treated Water Storage Tanks																
27	Gunbarrel Storage Tank	411670		\$32,136	\$15,950	\$0	\$265,798	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Maxwell Storage Tank	411673		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Booten Storage Tank			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	Devil's Thumb Storage Tank	411674		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	Kohler Storage Tank	411671	\$920,000	\$0	\$0	\$0	\$0	\$0	\$100,531	\$1,005,309	\$0	\$0	\$0	\$0	\$0	\$0	\$0
32	Chautauqua Storage Tank	411672	\$785,000	\$0	\$870,779	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$0
33	Betasso Storage Tank		\$250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$281,377	\$0	\$0	\$0	\$0	\$0	\$0
34	Boulder Reservoir Storage Tank			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Subtotal - Treated Water Storage Tanks			\$32,136	\$886,729	\$0	\$265,798	\$0	\$100,531	\$1,005,309	\$281,377	\$0	\$0	\$0	\$0	\$2,000,000	\$0
36	Treated Water Distribution System																
37	Zone Isolation Valves	411390		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Cathodic Protection	411387		\$18,569	\$113,501	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
39	Waterline Replacement	411389		\$3,074,412	\$2,458,289	\$2,100,000	\$2,100,000	\$2,163,000	\$2,227,890	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$5,273,084	\$5,431,277	\$5,594,215	\$5,762,041
40	Subtotal - Treated Water Distribution System			\$3,092,981	\$2,571,790	\$2,100,000	\$2,100,000	\$2,163,000	\$2,227,890	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$5,273,084	\$5,431,277	\$5,594,215	\$5,762,041
41	Treated Water Transmission System																
42	Sunshine Transmission Pipe	411006		\$0	\$0	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
43	Boulder Canyon - Orodel to Fourmile Pipe	411007		\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	Mountain Transmission Pipes	411007		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,825,006	\$0	\$0	\$0
45	Zone 1 Transmission Pipes	411002		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
46	Zone 2 Transmission Pipes	411004		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
47	Zone 3 Transmission Pipes	411005		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
48	Subtotal - Treated Water Transmission System			\$0	\$500,000	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,825,006	\$0	\$0	\$0
49	Source Water Transmission System																
50	Lakewood Pipeline	411780		\$216,490	\$0	\$0	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0	\$0
51	Silver Lake Pipeline	411640		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
52	Source Water Transmission Pipe Inspections	411775		\$0	\$0	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
53	Subtotal - Source Water Transmission System			\$216,490	\$0	\$80,000	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0	\$0
54	Barker Water System																
55	Barker Gravity Pipeline Repair	411106	\$200,000	\$107,639	\$733,639	\$350,000	\$350,000	\$360,500	\$371,315	\$382,454	\$589,961	\$607,660	\$625,890	\$644,666	\$664,006	\$683,926	\$704,444
56	Barker-Kossler Penstock Repair	411107	\$100,000	\$0	\$0	\$175,000	\$0	\$0	\$0	\$0	\$112,551	\$0	\$0	\$0	\$0	\$0	\$0
57	Barker Dam Outlet	411109		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$736,081	\$0	\$0	\$0	\$0	\$0	\$0
58	Barker Dam Outlet - Bond Proceeds		\$7,055,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,360,811	\$0	\$0	\$0	\$0	\$0
59	Barker Dam and Reservoir	411110	\$350,000	\$0	\$120,000	\$0	\$0	\$0	\$371,315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60	Barker Hydro System Integration	411111		\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
61	Barker Relicensing	411112		\$47,826	\$570,000	\$0	\$0	\$0	\$0	\$253,354	\$0	\$0	\$0	\$0	\$0	\$0	\$0
62	Barker Instream Flow Release	411114		\$8,645	\$139,359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63	Betasso Penstock	411940		\$253,465	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	Kossler Reservoir	411119		\$70,626	\$864,712	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	Subtotal - Barker Water System			\$488,217	\$2,427,710	\$525,000	\$650,000	\$360,500	\$742,630	\$635,808	\$1,438,593	\$7,968,470	\$625,890	\$644,666	\$664,006	\$683,926	\$704,444
66	Raw Water Storage Reservoirs																
67	Albion Dam		\$3,075,000	\$0	\$0	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$0	\$0	\$362,857	\$3,628,574	\$0
68	Silver Lake Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
69	Island Lake Dam	411626		\$13,002	\$148,892	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70	Green Lake 1 Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
71	Green Lake 2 Dam	411627	\$3,875,000	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$408,366	\$4,083,659	\$0	\$0	\$0	\$0
72	Green Lake 3 Dam			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
73	Goose Lake Dam	411612		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
74	Boulder Reservoir			\$90,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,689	\$0	\$0	\$0
75	Lakewood Reservoir	411981		\$102,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$118,826	\$0	\$0	\$0	\$0	\$0
76	Skyscraper Dam			\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$144,909	\$0	\$0	\$0	\$0	\$0
77	Wittemyer Ponds		\$4,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$429,859	\$4,298,586	\$0	\$0	\$0	\$0
78	Subtotal - Raw Water Storage Reservoirs			\$13,002	\$148,892	\$0	\$75,000	\$0	\$79,568	\$0	\$0	\$1,101,960	\$8,382,247	\$110,689	\$0	\$362,857	\$3,628,574
79	Other Raw Water Facilities																
80	Farmer's Ditch	411550		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$106,090	\$0	\$0	\$0	\$0
81	Anderson Ditch	411883		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82	Watershed Improvements	411770	\$440,500	\$0	\$290,500	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$92,241	\$0	\$0	\$0	\$0
83	Nederland WWTP	411565		\$0	\$370,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
84	Instream Flow Structures and Gaging	411549		\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85	Como Creek Diversion Structure	411548		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
86	Lakewood Diversion Structure			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
87	Silver Lake Diversion Structure			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
88	NCWCD Conveyance - Boulder Feeder Canal	411546		\$0	\$92,468	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
89	NCWCD Conveyance - Carter Lake Pipeline	411547		\$													



	A	B	R	S	T	U	V	W	X	Y	Z	AA
1												
2												
3												
4												
5												
6	Assumed Inflation Rate	3.00%	2024	2025	2026	2027	2028	2029	2030	2031	2032	
7	PROJECT NAME		PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	TOTAL
8												
9	<b>Treated Water Pressure Reducing and Hydroelectric Facilities</b>											
10	Kohler Hydro/PRV Station	411376	\$0	\$0	\$0	\$0	\$599,111	\$0	\$71,181	\$0	\$0	\$720,292
11	Maxwell Hydro/PRV Station	411342	\$0	\$0	\$311,040	\$0	\$30,110	\$0	\$45,961	\$6,971	\$0	\$444,082
12	Orodel Hydro/PRV Station	411331	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Sunshine Hydro/PRV Station	411347	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$282,821	\$279,342
14	101 Pearl Street Hydro/PRV Station		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255,040
15	<b>Subtotal - Treated Water PRV and Hydro</b>		\$0	\$0	\$311,040	\$0	\$629,220	\$0	\$117,142	\$6,971	\$282,821	\$1,698,756
16												
17	<b>Water Treatment Facilities</b>											
18	Betasso WTP	411947	\$1,275,126	\$814,109	\$250,586	\$0	\$4,710,347	\$0	\$11,237,351	\$51,536	\$0	\$31,163,521
19	Betasso WTP - Bond Proceeds		\$0	\$0	\$14,808,534	\$0	\$0	\$0	\$0	\$0	\$0	\$26,462,051
20	Bond Issuance Costs		\$0	\$0	\$125,000	\$0	\$0	\$0	\$150,000	\$0	\$0	\$900,000
21	Boulder Reservoir WTP	411652	\$0	\$0	\$0	\$17,687	\$2,344,117	\$12,595	\$4,617,819	\$30,689	\$0	\$10,014,648
22	Boulder Res WTP - Bond Proceeds		\$0	\$0	\$0	\$0	\$0	\$0	\$18,043,533	\$0	\$0	\$22,391,180
23	<b>Subtotal - Water Treatment Facilities</b>		\$1,275,126	\$814,109	\$15,184,121	\$17,687	\$7,054,463	\$12,595	\$34,048,702	\$82,225	\$0	\$90,931,399
24												
25	<b>Treated Water Pump Stations</b>											
26	Cherryvale Pump Station	411010	\$0	\$0	\$0	\$0	\$0	\$0	\$186,220	\$0	\$0	\$508,752
27	Boulder Reservoir WTP High Service Pump Sta	411011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$162,800
28	Iris Pump Stations	411012	\$0	\$0	\$0	\$0	\$0	\$0	\$246,120	\$0	\$0	\$307,272
29	<b>Subtotal - Treated Water Pump Stations</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$432,340	\$0	\$0	\$978,824
30												
31	<b>Treated Water Storage Tanks</b>											
32	Gunbarrel Storage Tank	411670	\$0	\$0	\$0	\$0	\$452,518	\$0	\$0	\$122,015	\$0	\$888,417
33	Maxwell Storage Tank	411673	\$0	\$0	\$488,507	\$0	\$0	\$0	\$0	\$0	\$0	\$488,507
34	Booten Storage Tank		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Devil's Thumb Storage Tank	411674	\$0	\$0	\$2,374,610	\$0	\$0	\$0	\$0	\$0	\$0	\$2,374,610
36	Kohler Storage Tank	411671	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,105,840
37	Chautauqua Storage Tank	411672	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,870,779
38	Betasso Storage Tank		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$281,377
39	Boulder Reservoir Storage Tank		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	<b>Subtotal - Treated Water Storage Tanks</b>		\$0	\$0	\$2,863,116	\$0	\$452,518	\$0	\$0	\$122,015	\$0	\$8,009,529
41												
42	<b>Treated Water Distribution System</b>											
43	Zone Isolation Valves	411390	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	Cathodic Protection	411387	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$132,070
45	Waterline Replacement	411389	\$5,934,903	\$6,112,950	\$6,296,338	\$6,485,228	\$6,679,785	\$6,880,179	\$9,255,947	\$9,533,625	\$9,819,634	\$102,963,444
46	<b>Subtotal - Treated Water Distribution System</b>		\$5,934,903	\$6,112,950	\$6,296,338	\$6,485,228	\$6,679,785	\$6,880,179	\$9,255,947	\$9,533,625	\$9,819,634	\$103,095,514
47												
48	<b>Treated Water Transmission System</b>											
49	Sunshine Transmission Pipe	411006	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800,000
50	Boulder Canyon - Orodel to Fourmile Pipe	411007	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
51	Mountain Transmission Pipes	411007	\$0	\$0	\$0	\$0	\$0	\$0	\$5,850,447	\$0	\$0	\$7,675,453
52	Zone 1 Transmission Pipes	411002	\$0	\$1,093,874	\$0	\$0	\$0	\$0	\$6,613,485	\$0	\$0	\$7,707,359
53	Zone 2 Transmission Pipes	411004	\$0	\$0	\$0	\$0	\$0	\$0	\$1,770,436	\$0	\$0	\$1,770,436
54	Zone 3 Transmission Pipes	411005	\$0	\$0	\$0	\$0	\$0	\$0	\$7,253,639	\$0	\$0	\$7,253,639
55	<b>Subtotal - Treated Water Transmission System</b>		\$0	\$1,093,874	\$0	\$0	\$0	\$0	\$21,488,006	\$0	\$0	\$25,706,886
56												
57	<b>Source Water Transmission System</b>											
58	Lakewood Pipeline	411780	\$346,058	\$0	\$0	\$0	\$0	\$401,177	\$0	\$0	\$0	\$1,519,738
59	Silver Lake Pipeline	411640	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60	Source Water Transmission Pipe Inspections	411775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80,000
61	<b>Subtotal - Source Water Transmission System</b>		\$346,058	\$0	\$0	\$0	\$0	\$401,177	\$0	\$0	\$0	\$1,599,738
62												
63	<b>Barker Water System</b>											
64	Barker Gravity Pipeline Repair	411106	\$725,578	\$747,345	\$769,765	\$792,858	\$816,644	\$841,143	\$866,377	\$892,369	\$0	\$13,628,180
65	Barker-Kossler Penstock Repair	411107	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$287,551
66	Barker Dam Outlet	411109	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$736,081
67	<b>Barker Dam Outlet - Bond Proceeds</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,360,811
68	Barker Dam and Reservoir	411110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$491,315
69	Barker Hydro System Integration	411111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16
70	Barker Relicensing	411112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$871,180
71	Barker Instream Flow Release	411114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$148,004
72	Betasso Penstock	411940	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$253,465
73	Kossler Reservoir	411119	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,235,338
74	<b>Subtotal - Barker Water System</b>		\$725,578	\$747,345	\$769,765	\$792,858	\$816,644	\$841,143	\$866,377	\$892,369	\$0	\$25,011,940
75												
76	<b>Raw Water Storage Reservoirs</b>											
77	Albion Dam		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,070,999
78	Silver Lake Dam		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
79	Island Lake Dam	411626	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$161,894
80	Green Lake 1 Dam		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
81	Green Lake 2 Dam	411627	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,567,025
82	Green Lake 3 Dam		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
83	Goose Lake Dam	411612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
84	Boulder Reservoir		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110,689
85	Lakewood Reservoir	411981	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$118,826
86	Skyscraper Dam		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$144,909
87	Wittemyer Ponds		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,728,447
88	<b>Subtotal - Raw Water Storage Reservoirs</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,902,788
89												
90	<b>Other Raw Water Facilities</b>											
91	Farmer's Ditch	411550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$106,090
92	Anderson Ditch	411883	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
93	Watershed Improvements	411770	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$462,308
94	Nederland WWTP	411565	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$370,000
95	Instream Flow Structures and Gaging	411549	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
96	Como Creek Diversion Structure	411548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
97	Lakewood Diversion Structure		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
98	Silver Lake Diversion Structure		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
99	NCWCD Conveyance - Boulder Feeder Canal	411546	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$92,468
100	NCWCD Conveyance - Carter Lake Pipeline	411547	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,601,353
101	<b>NCWCD Conveyance - Bond Proceeds</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,083,667
102	<b>Subtotal - Other Raw Water Facilities</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,765,885
103												
104	<b>Source Water Pressure Reducing, Pumping and Hydroelectric</b>											
105	Lakewood Hydroelectric/PRV	411801	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000
106	Silver Lake Hydroelectric/PRV	411970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
107	Boulder Reservoir Intake and Pumping	411655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$227,402
108	Betasso Hydro PRV Station	411974	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$344,253
109	Barker Dam Hydro		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$344,304
110	<b>Barker Dam Hydro - Bond Proceeds</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,443,044
111	Boulder Canyon Hydro	411975	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,974,200
112	Boulder Canyon Hydro - Grant	411976	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,180,799
113	<b>Carter Lake Hydro</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
114	<b>Carter Lake Hydro - Bond Proceeds</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
115	Source Water Pressure Reducing, Pumping and Hydroelectric		\$203,514	\$209,619	\$215,907	\$222,385	\$229,056	\$235,928	\$243,006	\$250,296	\$257,805	\$3,077,657
116	<b>Subtotal - Source Water PRV, Pumping and Hydro</b>		\$203,514	\$209,619	\$215,907	\$222,385	\$229,056	\$235,928	\$243,006	\$250,296	\$257,805	\$8,833,203
117												
118	<b>Water Distribution System Expansion</b>											
119	Annexation Related Water System Expansion	411433	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524,629
120	<b>Subtotal - Water Distribution System Expansion</b>		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524,629
121												
122	<b>Water System Monitoring and Metering</b>											
123	Automated Meter Reading	411454	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,388,898
124	Water System Security Upgrades	411440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,515
125	Distribution System Water Quality	411425	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$349,342
126	Data Communications System	411435	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
127	Yards Master Plan Implementation	411039	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$103,104
128	Utility Billing Computer System Replacement	411453	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$529,104
129	<b>Subtotal - Water System Monitoring and Metering</b>											

# Vision Plan



**CITY OF BOULDER  
2012 FUND FINANCIAL  
WATER UTILITY FUND  
VISION PLAN**

	2010 ACTUAL	2011 REVISED	2012 PROPOSED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$42,650,247	\$37,649,542	\$27,191,770	\$27,455,195	\$26,893,077	\$28,923,996
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$18,816,163	\$19,516,608	\$20,148,607	\$20,794,356	\$21,460,807	\$22,578,699
Projected Rate Increase	\$0 0%	\$585,498 3%	\$604,458 3%	\$623,831 3%	\$1,073,040 5.0%	\$1,128,935 5.0%
Bulk/Irrigation Water Sales	\$171,058	\$120,700	\$150,100	\$138,750	\$129,750	\$131,750
Hydroelectric Revenue	\$2,464,973	\$2,605,000	\$2,293,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$118,307	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$21,570,501</b>	<b>\$22,852,806</b>	<b>\$23,221,166</b>	<b>\$24,292,936</b>	<b>\$25,399,597</b>	<b>\$26,575,384</b>
Non-Operating--						
Plant Investment Fees	\$1,373,109	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$187,051	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$83,202	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$273,118	\$906,882	\$0	\$0	\$0	\$0
Interest on Investments	\$982,107	\$299,253	\$475,856	\$549,104	\$672,327	\$867,720
Rent, assessments and other misc revenues	\$51,050	\$18,500	\$19,000	\$19,500	\$20,000	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$196,500	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$0	\$19,171,728	\$0	\$0	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,042,422</b>	<b>\$22,144,148</b>	<b>\$2,439,141</b>	<b>\$2,316,389</b>	<b>\$2,440,112</b>	<b>\$2,636,005</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$24,612,923</b>	<b>\$44,996,954</b>	<b>\$25,660,307</b>	<b>\$26,609,325</b>	<b>\$27,839,709</b>	<b>\$29,211,389</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$738,079	\$836,279	\$827,801	\$852,635	\$878,214	\$904,561
Planning and Project Management	\$486,238	\$575,925	\$574,850	\$592,096	\$609,858	\$628,154
Water Resources and Hydroelectric Operations	\$1,932,434	\$2,004,557	\$2,014,482	\$2,074,916	\$2,137,164	\$2,201,279
Water Treatment	\$4,089,090	\$4,293,920	\$4,349,877	\$4,480,373	\$4,614,785	\$4,753,228
Water Quality & Environmental Svcs	\$782,365	\$873,887	\$894,284	\$921,113	\$948,746	\$977,208
Water Conservation	\$263,543	\$443,829	\$436,332	\$449,422	\$462,905	\$476,792
System Maintenance	\$2,760,964	\$3,113,787	\$3,064,958	\$3,156,907	\$3,251,614	\$3,349,162
Windy Gap Payment	\$2,433,538	\$2,553,539	\$2,541,910	\$2,556,836	\$2,596,250	\$2,714,004
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$0</b>	<b>\$0</b>	<b>\$100,647</b>	<b>\$103,666</b>	<b>\$106,776</b>	<b>\$109,980</b>
Sick/Vacation Accrual	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$13,456,689</b>	<b>\$14,795,723</b>	<b>\$14,905,141</b>	<b>\$15,290,964</b>	<b>\$15,712,402</b>	<b>\$16,223,640</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$844,505	\$848,752	\$854,690	\$854,438	\$856,594	\$857,709
Refunding of the 1999 and 2000 Revenue Bonds	\$3,253,354	\$2,507,921	\$2,506,088	\$2,511,421	\$2,523,521	\$2,522,054
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,174,452	\$21,340,435	\$2,052,608	\$2,057,650	\$2,057,000	\$2,065,733
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL DEBT SERVICE</b>	<b>\$6,272,311</b>	<b>\$24,697,108</b>	<b>\$5,413,386</b>	<b>\$5,423,509</b>	<b>\$5,437,115</b>	<b>\$5,445,496</b>
Transfers Out--						
Cost Allocation	\$1,118,145	\$1,153,926	\$1,231,239	\$1,354,363	\$1,489,799	\$1,638,779
Planning & Development Services	\$188,860	\$194,526	\$200,362	\$206,373	\$212,564	\$218,941
Other Transfers	\$15,000	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$1,322,005</b>	<b>\$1,348,452</b>	<b>\$1,431,601</b>	<b>\$1,560,736</b>	<b>\$1,702,363</b>	<b>\$1,857,720</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$8,533,061</b>	<b>\$6,071,864</b>	<b>\$3,746,754</b>	<b>\$4,999,235</b>	<b>\$3,063,000</b>	<b>\$4,395,537</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$8,641,579	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$29,584,066</b>	<b>\$55,554,726</b>	<b>\$25,496,882</b>	<b>\$27,274,444</b>	<b>\$25,914,880</b>	<b>\$27,922,394</b>
Sick/Vacation Accrual Adjustment	(\$29,562)	\$100,000	\$100,000	\$103,000	\$106,090	\$109,273
<b>FUND BALANCE - END OF YEAR</b>	<b>\$37,649,542</b>	<b>\$27,191,770</b>	<b>\$27,455,195</b>	<b>\$26,893,077</b>	<b>\$28,923,996</b>	<b>\$30,322,264</b>
Designated Reserves -						
Bond Reserves	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830	\$3,068,830
Lakewood Pipeline Remediation Reserve	\$12,813,756	\$13,203,498	\$14,071,087	\$14,965,063	\$15,624,845	\$16,566,081
Lakewood/USFS Damage Claims Reserve	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$614,435	\$632,868	\$651,854	\$671,410	\$691,552	\$712,299
Pay Period 27 - 2013 Reserve	\$185,947	\$236,947	\$287,947	\$338,947	\$389,947	\$440,947
<b>TOTAL RESERVES</b>	<b>\$16,782,968</b>	<b>\$17,242,143</b>	<b>\$18,179,718</b>	<b>\$19,044,250</b>	<b>\$19,775,174</b>	<b>\$20,788,156</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$20,866,574</b>	<b>\$9,949,627</b>	<b>\$9,275,477</b>	<b>\$7,848,826</b>	<b>\$9,148,822</b>	<b>\$9,534,108</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$3,694,674</b>	<b>\$4,036,044</b>	<b>\$4,084,185</b>	<b>\$4,212,925</b>	<b>\$4,353,691</b>	<b>\$4,520,340</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$15,171,901</b>	<b>\$3,913,583</b>	<b>\$3,191,292</b>	<b>\$1,635,902</b>	<b>\$2,795,131</b>	<b>\$3,013,768</b>

\* Reserve levels are based on industry standards and are maintained for revenue bonds, revenue fluctuations (weather and water usage impacts) and the capital intensive nature of the utility



05-Oct-11  
- Draft -

	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED	2020 PROJECTED	2021 PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$30,322,264	\$27,900,696	\$26,912,849	\$31,983,898	\$29,434,070	\$28,774,383
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$23,754,833	\$24,992,244	\$26,294,124	\$27,663,832	\$29,104,901	\$30,621,051
Projected Rate Increase	\$1,187,742	\$1,249,612	\$1,314,706	\$1,383,192	\$1,455,245	\$1,531,053
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$27,810,325</b>	<b>\$29,109,606</b>	<b>\$30,476,580</b>	<b>\$31,914,773</b>	<b>\$33,427,896</b>	<b>\$35,019,853</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$909,668	\$837,021	\$807,385	\$959,517	\$883,022	\$863,231
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785	\$92,785
Projected Bond Proceeds	\$12,910,000	\$0	\$40,780,000	\$5,565,000	\$4,850,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$15,587,953</b>	<b>\$2,605,306</b>	<b>\$43,355,670</b>	<b>\$8,292,802</b>	<b>\$7,501,307</b>	<b>\$2,631,516</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$43,398,278</b>	<b>\$31,714,912</b>	<b>\$73,832,250</b>	<b>\$40,207,575</b>	<b>\$40,929,203</b>	<b>\$37,651,370</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$931,697	\$959,648	\$988,438	\$1,018,091	\$1,048,634	\$1,080,093
Planning and Project Management	\$646,999	\$666,409	\$686,401	\$706,993	\$728,203	\$750,049
Water Resources and Hydroelectric Operations	\$2,267,317	\$2,335,337	\$2,405,397	\$2,477,559	\$2,551,886	\$2,628,442
Water Treatment	\$4,895,825	\$5,042,700	\$5,193,981	\$5,349,800	\$5,510,294	\$5,675,603
Water Quality & Environmental Svcs	\$1,006,525	\$1,036,720	\$1,067,822	\$1,099,857	\$1,132,852	\$1,166,838
Water Conservation	\$491,096	\$505,828	\$521,003	\$536,633	\$552,732	\$569,314
System Maintenance	\$3,449,637	\$3,553,126	\$3,659,720	\$3,769,512	\$3,882,597	\$3,999,075
Windy Gap Payment	\$2,776,959	\$2,341,075	\$336,000	\$341,000	\$346,000	\$356,380
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$113,279</b>	<b>\$116,677</b>	<b>\$120,178</b>	<b>\$123,783</b>	<b>\$127,497</b>	<b>\$131,322</b>
Sick/Vacation Accrual	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,691,884</b>	<b>\$16,673,448</b>	<b>\$15,098,344</b>	<b>\$15,546,215</b>	<b>\$16,007,371</b>	<b>\$16,487,592</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$858,531	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$2,517,388	\$2,524,233	\$2,524,650	\$1,375,102	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$2,065,950	\$2,065,333	\$2,072,083	\$2,080,817	\$2,081,367	\$2,088,883
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410
<b>TOTAL DEBT SERVICE</b>	<b>\$6,567,279</b>	<b>\$5,714,976</b>	<b>\$9,277,198</b>	<b>\$8,621,589</b>	<b>\$7,669,867</b>	<b>\$7,677,383</b>
Transfers Out--						
Cost Allocation	\$1,802,657	\$1,982,923	\$2,181,215	\$2,399,336	\$2,639,270	\$2,903,197
Planning & Development Services	\$225,509	\$232,274	\$239,242	\$246,420	\$253,812	\$261,427
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$2,028,166</b>	<b>\$2,215,197</b>	<b>\$2,420,457</b>	<b>\$2,645,756</b>	<b>\$2,893,082</b>	<b>\$3,164,624</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$8,866,551</b>	<b>\$8,215,065</b>	<b>\$4,847,086</b>	<b>\$13,491,830</b>	<b>\$10,722,599</b>	<b>\$16,020,837</b>
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$125,000	\$0	\$350,000	\$75,000	\$75,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$45,932,396</b>	<b>\$32,818,686</b>	<b>\$68,880,607</b>	<b>\$42,880,390</b>	<b>\$41,715,567</b>	<b>\$43,350,436</b>
Sick/Vacation Accrual Adjustment	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
<b>FUND BALANCE - END OF YEAR</b>	<b>\$27,900,696</b>	<b>\$26,912,849</b>	<b>\$31,983,898</b>	<b>\$29,434,070</b>	<b>\$28,774,383</b>	<b>\$23,205,794</b>
Designated Reserves -						
Bond Reserves	\$4,194,240	\$3,340,873	\$6,895,938	\$7,381,143	\$7,803,973	\$7,803,973
Lakewood Pipeline Remediation Reserve	\$17,535,945	\$18,535,309	\$19,565,069	\$20,323,132	\$21,407,271	\$22,524,385
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$733,668	\$755,678	\$778,348	\$801,698	\$825,749	\$850,522
Pay Period 27 - 2013 Reserve	\$491,947	\$542,947	\$593,947	\$644,947	\$695,947	\$746,947
<b>TOTAL RESERVES</b>	<b>\$22,955,800</b>	<b>\$23,174,806</b>	<b>\$27,833,302</b>	<b>\$29,150,920</b>	<b>\$30,732,940</b>	<b>\$31,925,826</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$4,944,896</b>	<b>\$3,738,043</b>	<b>\$4,150,595</b>	<b>\$283,149</b>	<b>(\$1,958,557)</b>	<b>(\$8,720,032)</b>
<b>OPERATING RESERVE (Goal: 25% of Operating) *</b>	<b>\$4,680,013</b>	<b>\$4,722,161</b>	<b>\$4,379,700</b>	<b>\$4,547,993</b>	<b>\$4,725,113</b>	<b>\$4,913,054</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>(\$1,735,116)</b>	<b>(\$2,984,119)</b>	<b>(\$2,229,105)</b>	<b>(\$6,264,843)</b>	<b>(\$8,683,670)</b>	<b>(\$15,633,086)</b>

\* Reserve levels are based on industry standards and are

	2022	2023	2024	2025	2026	2027
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>						
Beginning of Year Fund Balance	\$23,205,794	\$25,865,881	\$26,346,477	\$31,443,305	\$36,974,001	\$41,471,160
<b>SOURCES OF FUNDS</b>						
Operating--						
Sale of Water to General Cust	\$32,216,191	\$33,894,439	\$35,660,123	\$37,517,800	\$39,472,261	\$41,528,550
Projected Rate Increase	\$1,610,810	\$1,694,722	\$1,783,006	\$1,875,890	\$1,973,613	\$2,076,427
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$36,694,751</b>	<b>\$38,456,911</b>	<b>\$40,310,879</b>	<b>\$42,261,440</b>	<b>\$44,313,624</b>	<b>\$46,472,727</b>
Non-Operating--						
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$696,174	\$775,976	\$790,394	\$943,299	\$1,109,220	\$1,244,135
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$0	\$0	\$16,365,000	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$2,464,459</b>	<b>\$2,544,261</b>	<b>\$2,465,894</b>	<b>\$2,618,799</b>	<b>\$19,149,720</b>	<b>\$2,919,635</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$39,159,210</b>	<b>\$41,001,172</b>	<b>\$42,776,774</b>	<b>\$44,880,239</b>	<b>\$63,463,344</b>	<b>\$49,392,362</b>
<b>USES OF FUNDS</b>						
Operating Expenditures--						
Administration	\$1,112,495	\$1,145,870	\$1,180,246	\$1,215,654	\$1,252,123	\$1,289,687
Planning and Project Management	\$772,550	\$795,727	\$819,599	\$844,187	\$869,512	\$895,598
Water Resources and Hydroelectric Operations	\$2,707,295	\$2,788,514	\$2,872,170	\$2,958,335	\$3,047,085	\$3,138,497
Water Treatment	\$5,845,871	\$6,021,247	\$6,201,884	\$6,387,941	\$6,579,579	\$6,776,967
Water Quality & Environmental Svcs	\$1,201,843	\$1,237,898	\$1,275,035	\$1,313,286	\$1,352,685	\$1,393,265
Water Conservation	\$586,394	\$603,986	\$622,105	\$640,768	\$659,991	\$679,791
System Maintenance	\$4,119,047	\$4,242,619	\$4,369,897	\$4,500,994	\$4,636,024	\$4,775,105
Windy Gap Payment	\$367,071	\$378,084	\$389,426	\$401,109	\$413,142	\$425,536
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$135,261</b>	<b>\$139,319</b>	<b>\$143,499</b>	<b>\$147,804</b>	<b>\$152,238</b>	<b>\$156,805</b>
Sick/Vacation Accrual	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$16,982,220</b>	<b>\$17,491,687</b>	<b>\$18,016,437</b>	<b>\$18,556,930</b>	<b>\$19,113,638</b>	<b>\$19,687,047</b>
Debt--						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$1,125,410	\$1,125,410	\$1,125,410	\$1,125,410	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$5,588,500</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>
Transfers Out--						
Cost Allocation	\$3,193,517	\$3,512,869	\$3,864,155	\$4,250,571	\$4,675,628	\$5,143,191
Planning & Development Services	\$269,269	\$277,348	\$285,668	\$294,238	\$303,065	\$312,157
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$3,462,786</b>	<b>\$3,790,216</b>	<b>\$4,149,823</b>	<b>\$4,544,809</b>	<b>\$4,978,693</b>	<b>\$5,455,348</b>
Capital Improvements Program--						
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$10,600,008</b>	<b>\$13,788,598</b>	<b>\$10,067,760</b>	<b>\$10,806,157</b>	<b>\$13,076,368</b>	<b>\$8,788,929</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$14,808,534	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$0	\$0	\$125,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$36,633,515</b>	<b>\$40,659,000</b>	<b>\$37,822,521</b>	<b>\$39,496,396</b>	<b>\$59,117,444</b>	<b>\$40,946,534</b>
Sick/Vacation Accrual Adjustment	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
<b>FUND BALANCE - END OF YEAR</b>	<b>\$25,865,881</b>	<b>\$26,346,477</b>	<b>\$31,443,305</b>	<b>\$36,974,001</b>	<b>\$41,471,160</b>	<b>\$50,072,784</b>
Designated Reserves -						
Bond Reserves	\$5,588,510	\$5,588,510	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$23,209,485	\$23,915,424	\$24,291,553	\$25,030,403	\$25,791,727	\$26,576,207
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$876,037	\$902,319	\$929,388	\$957,270	\$985,988	\$1,015,567
Pay Period 27 - 2013 Reserve	\$797,947	\$848,947	\$899,947	\$950,947	\$1,001,947	\$1,052,947
<b>TOTAL RESERVES</b>	<b>\$30,471,980</b>	<b>\$31,255,200</b>	<b>\$33,857,048</b>	<b>\$34,674,780</b>	<b>\$35,515,822</b>	<b>\$36,380,882</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVE</b>	<b>(\$4,606,099)</b>	<b>(\$4,908,723)</b>	<b>(\$2,413,743)</b>	<b>\$2,299,221</b>	<b>\$5,955,338</b>	<b>\$13,691,903</b>
<b>OPERATING RESERVE (Goal: 25% of Operating)</b>	<b>\$5,111,252</b>	<b>\$5,320,476</b>	<b>\$5,541,565</b>	<b>\$5,775,435</b>	<b>\$6,023,083</b>	<b>\$6,285,599</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>(\$11,717,350)</b>	<b>(\$12,229,199)</b>	<b>(\$9,955,308)</b>	<b>(\$5,476,214)</b>	<b>(\$2,067,745)</b>	<b>\$5,406,304</b>

\* Reserve levels are based on industry standards and are



	2028	2029	2030	2031	2032
	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
<b>UNAPPROPRIATED FUND BALANCE</b>					
Beginning of Year Fund Balance	\$50,072,784	\$49,006,782	\$59,279,280	\$18,260,201	\$25,459,689
<b>SOURCES OF FUNDS</b>					
Operating--					
Sale of Water to General Cust	\$43,691,971	\$45,968,107	\$48,362,829	\$50,882,317	\$53,533,069
Projected Rate Increase	\$2,184,599	\$2,298,405	\$2,418,141	\$2,544,116	\$2,676,653
Bulk/Irrigation Water Sales	\$131,750	\$131,750	\$131,750	\$131,750	\$131,750
Hydroelectric Revenue	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000	\$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
<b>TOTAL OPERATING SOURCES OF FUNDS</b>	<b>\$48,744,320</b>	<b>\$51,134,262</b>	<b>\$53,648,721</b>	<b>\$56,294,183</b>	<b>\$59,077,473</b>
Non-Operating--					
Plant Investment Fees	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Connection Charges	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Special Assessments	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
State & Federal Grants	\$0	\$0	\$0	\$0	\$0
Interest on Investments	\$1,502,184	\$1,470,203	\$1,778,378	\$547,806	\$763,791
Rent, assessments and other misc revenues	\$20,500	\$20,500	\$20,500	\$20,500	\$20,500
Sale of Real Estate - Yards Masterplan	\$0	\$0	\$0	\$0	\$0
Transfer from General Fund - Fire Training Center	\$0	\$0	\$0	\$0	\$0
Projected Bond Proceeds	\$0	\$0	\$19,935,000	\$0	\$0
<b>TOTAL NON-OPERATING SOURCES OF FUNDS</b>	<b>\$3,177,684</b>	<b>\$3,145,703</b>	<b>\$23,388,878</b>	<b>\$2,223,306</b>	<b>\$2,439,291</b>
<b>TOTAL SOURCES OF FUNDS</b>	<b>\$51,922,003</b>	<b>\$54,279,966</b>	<b>\$77,037,599</b>	<b>\$58,517,489</b>	<b>\$61,516,764</b>
<b>USES OF FUNDS</b>					
Operating Expenditures--					
Administration	\$1,328,378	\$1,368,229	\$1,409,276	\$1,451,554	\$1,495,101
Planning and Project Management	\$922,465	\$950,139	\$978,644	\$1,008,003	\$1,038,243
Water Resources and Hydroelectric Operations	\$3,232,652	\$3,329,632	\$3,429,521	\$3,532,406	\$3,638,379
Water Treatment	\$6,980,276	\$7,189,684	\$7,405,374	\$7,627,536	\$7,856,362
Water Quality & Environmental Svcs	\$1,435,063	\$1,478,115	\$1,522,459	\$1,568,132	\$1,615,176
Water Conservation	\$700,185	\$721,190	\$742,826	\$765,111	\$788,064
System Maintenance	\$4,918,358	\$5,065,909	\$5,217,886	\$5,374,422	\$5,535,655
Windy Gap Payment	\$438,302	\$451,452	\$464,995	\$478,945	\$493,313
<b>Proposed Additions - Priority Based NPE Increase</b>	<b>\$161,509</b>	<b>\$166,354</b>	<b>\$171,345</b>	<b>\$176,485</b>	<b>\$181,780</b>
Sick/Vacation Accrual	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>TOTAL OPERATING USES OF FUNDS</b>	<b>\$20,277,659</b>	<b>\$20,885,989</b>	<b>\$21,512,568</b>	<b>\$22,157,945</b>	<b>\$22,822,684</b>
Debt--					
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds	\$0	\$0	\$0	\$0	\$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$0	\$0	\$0	\$0
Arbitrage Payment	\$0	\$0	\$0	\$0	\$0
Projected Bond-Betasso WTP Improvements	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120	\$2,552,120
<b>TOTAL DEBT SERVICE</b>	<b>\$7,015,210</b>	<b>\$7,015,210</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>	<b>\$8,753,185</b>
Transfers Out--					
Cost Allocation	\$5,657,510	\$6,223,261	\$6,845,587	\$7,530,146	\$8,283,160
Planning & Development Services	\$321,522	\$331,167	\$341,103	\$351,336	\$361,876
Other Transfers	\$0	\$0	\$0	\$0	\$0
<b>TOTAL TRANSFERS OUT</b>	<b>\$5,979,032</b>	<b>\$6,554,428</b>	<b>\$7,186,690</b>	<b>\$7,881,481</b>	<b>\$8,645,036</b>
Capital Improvements Program--					
<b>TOTAL CAPITAL USES OF FUNDS</b>	<b>\$19,876,575</b>	<b>\$9,717,126</b>	<b>\$62,580,946</b>	<b>\$12,700,740</b>	<b>\$11,943,274</b>
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	\$150,000	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0
<b>TOTAL USES OF FUNDS</b>	<b>\$53,148,476</b>	<b>\$44,172,753</b>	<b>\$118,226,921</b>	<b>\$51,493,351</b>	<b>\$52,164,178</b>
Sick/Vacation Accrual Adjustment	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
<b>FUND BALANCE - END OF YEAR</b>	<b>\$49,006,782</b>	<b>\$59,279,280</b>	<b>\$18,260,201</b>	<b>\$25,459,689</b>	<b>\$34,992,886</b>
Designated Reserves -					
Bond Reserves	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve	\$27,384,548	\$27,810,243	\$28,656,118	\$29,527,722	\$30,425,836
Lakewood/USFS Damage Claims Reserve	\$0	\$0	\$0	\$0	\$0
Vacation/Sick/Bonus Liability	\$1,046,034	\$1,077,415	\$1,109,738	\$1,143,030	\$1,177,321
Pay Period 27 - 2013 Reserve	\$1,103,947	\$1,154,947	\$1,205,947	\$1,256,947	\$1,307,947
<b>TOTAL RESERVES</b>	<b>\$37,270,689</b>	<b>\$37,778,766</b>	<b>\$38,707,963</b>	<b>\$39,663,859</b>	<b>\$40,647,264</b>
<b>SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES</b>	<b>\$11,736,093</b>	<b>\$21,500,514</b>	<b>(\$20,447,762)</b>	<b>(\$14,204,169)</b>	<b>(\$5,654,378)</b>
<b>OPERATING RESERVE (Goal: 25% of Operating) *</b>	<b>\$6,564,173</b>	<b>\$6,860,104</b>	<b>\$7,174,814</b>	<b>\$7,509,857</b>	<b>\$7,866,930</b>
<b>CAPITAL RESERVE (Goal: \$2,000,000)</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>	<b>\$2,000,000</b>
<b>SURPLUS/(DEFICIT) vs. ALL RESERVES</b>	<b>\$3,171,920</b>	<b>\$12,640,410</b>	<b>(\$29,622,576)</b>	<b>(\$23,714,026)</b>	<b>(\$15,521,308)</b>

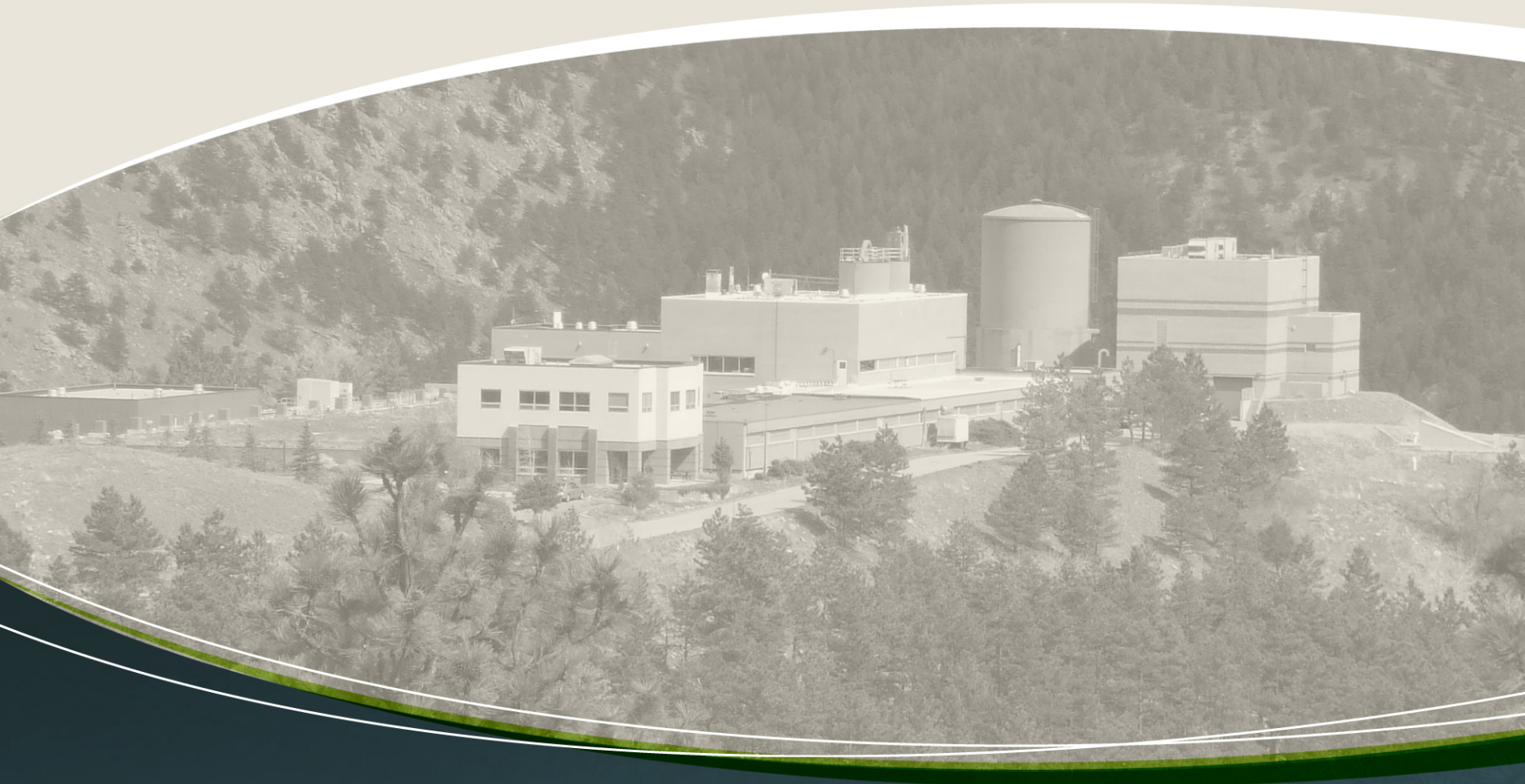
\* Reserve levels are based on industry standards and are







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