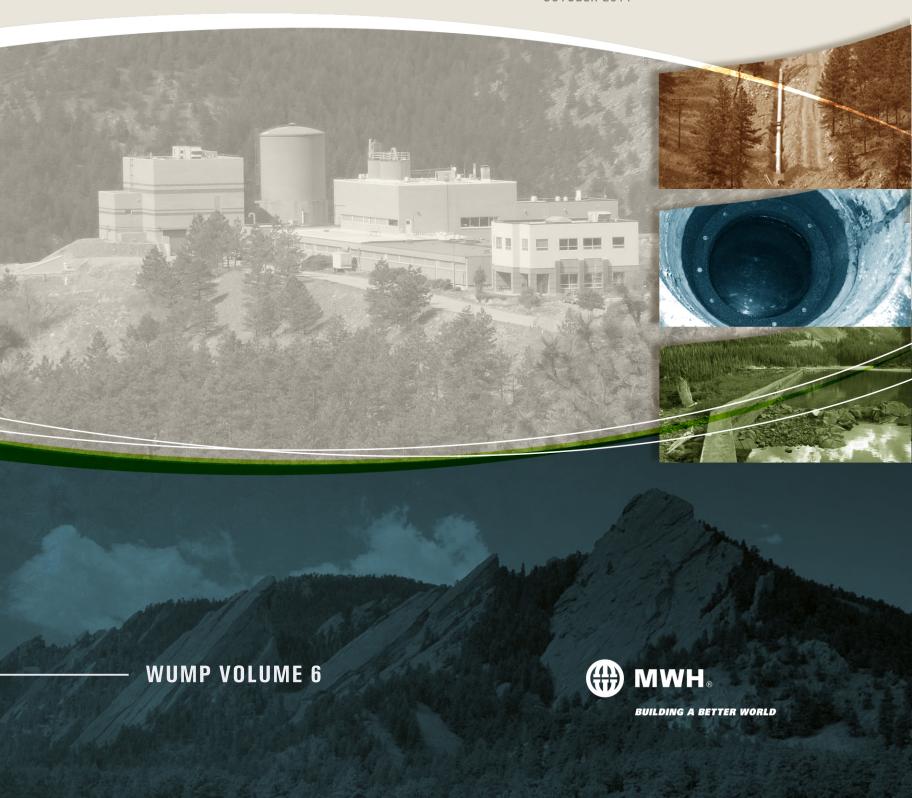




# Consolidated Capital Improvements Plan

OCTOBER 2011



## VolumeSix

## **City of Boulder**

## Consolidated Capital Improvements Plan



October 2011

**FINAL** 



### **Acknowledgements**

#### **City Council**

Susan Osborne – Mayor Ken Wilson – Deputy Mayor Suzy Ageton Matt Appelbaum (former Mayor) KC Becker Macon Cowles Crystal Gray George Karakehian Lisa Morzel

#### Water Resources Advisory Board (WRAB)

William DeOreo – Chair Susan Lott Charles Howe Kate Ryan Vicki Scharnhorst

#### City of Boulder Staff

Jane S. Brautigam, City Manager

Maureen F. Rait, Executive Director of Public Works

Robert E. Williams, Director of Public Works for Utilities

Randy Crittenden, Coordinator of Water Treatment

Carol Ellinghouse, Coordinator of Water Resources and Hydroelectric

Felix Gallo, Coordinator of Transportation & Utilities Maintenance

Robert Harberg, Coordinator of Utilities Planning and Projects

Bret Linenfelser, Coordinator of Water Quality and Environmental Services

Carol Linn, Utilities Financial Manager

Bronwyn Weygandt, Billing Services Supervisor

Erin Kintzle, Financial Analyst

Chris Meschuk, Planner II

Steve Buckbee, Engineering Project Manager

Michelle Wind, Drinking Water Program Supervisor

Steve Folle, Water Treatment Plant Supervisor

Mike Emarine, Water Treatment Plant Supervisor

Vicki Jones, Process Optimization Specialist

Suzanne Givler, Water Quality Project Manager

Russell Sands, Water Quality Inspector

Joe Cowan, Water Maintenance Supervisor

Jake Gesner, Hydroelectric Manager

Joe Taddeucci, Engineering Project Manager

Kim Hutton, Water Resources Specialist

Craig Skeie, Water Resources Facilities Manager

Jim Creek, Water Source Operations Manager





## **Table of Contents**

1 Cons	olidated	d Capital Improvements Plan	6-1
1.1	Conso	olidated CIP Development Approach	6-1
1.2	Budge	et Process and Assumptions	6-2
	1.2.1	Budgeting Process	6-2
	1.2.2	Budgeting Assumptions	6-2
1.3	Catego	orization and Prioritization of Projects	6-7
1.4	Water	Utility Capital Improvements Plan (CIP)	6-8
	1.4.1	Consolidated Water Utility Projects	6-8
	1.4.2	Consolidated CIP	6-8
	1.4.3	CIP Recommendations	6-23
Table 6-1. Table 6-2.	Fu	bles  Inding Sources  Inding Sources  Inding Sources  Inding Sources	
List o	of Fig	gures	
Figure 6-1	Wa	ater Utility Sources of Funds	6-3
Figure 6-2	Wa	ater Utility Uses of Funds	6-4
List o	of Ap	pendices	
Appendix	A Wa	ater Utility Fund and CIP Spreadsheets	A-1

## 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:

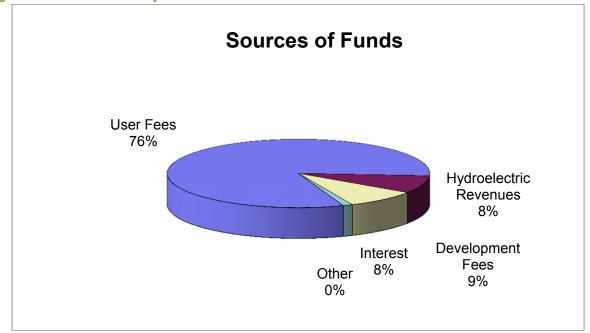


Table 6-1. Funding Sources

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





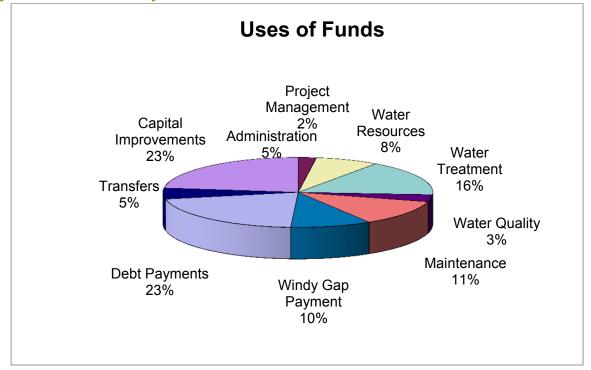


Figure 6-2. Water Utility Uses of Funds

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 Qualserve 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 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 reevaluated as part of pretreatment/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 subesequent 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	Comprehensive			Type (Capital or		Date of Initial		Final Funding	Planned Funding		
No.	List Item No.	Facility	Project Description	O&M)	Cost/Value	Cost	Current Cost (2010)	Priority	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 manholesin 201; 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.

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
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.

				Туре				Final	Planned		
Item No.	Comprehensive List Item No.	Facility	Project Description	(Capital or O&M)	Cost/Value	Date of Initial Cost	Current Cost (2010)	Funding Priority	Funding Year	Funding Source	Comments
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 reinspection 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

				Туре				Final	Planned		
Item	Comprehensive			(Capital or		Date of Initial		Funding	Funding		
No.	List Item No.	Facility	Project Description	O&M)	Cost/Value	Cost	Current Cost (2010)	Priority	Year	Funding Source	Comments
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 CO2 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.

Item	Comprehensive			Type (Capital or		Date of Initial		Final Funding	Planned Funding		
No.	List Item No.	Facility	Project Description	O&M)	Cost/Value	Cost	Current Cost (2010)	Priority	Year	Funding Source	Comments
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. CIO2 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 Rservoir 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 Rservoir 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 Rservoir 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

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
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	Orodell Hydroelectric 12-inch Isolation BFV (downstream)	Capital	\$8,000	2010	\$8,000	2	2011	Orodell 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 determin 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

Item	Comprehensive			Type (Capital or		Date of Initial		Final Funding	Planned Funding		
No.	List Item No.	Facility	Project Description	O&M)	Cost/Value	Cost	Current Cost (2010)	Priority	Year	Funding Source	Comments
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 budgted 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

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
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	and the content planning periods
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) basline 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	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	Communic
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 Rservoir 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 Rservoir 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	Comprehensive			Type (Capital or		Date of Initial		Final Funding	Planned Funding			
No.	List Item No.	Facility	Project Description	O&M)	Cost/Value	Cost	Current Cost (2010)	Priority	Year		Funding Source	Comments
171	118	Sourewater – 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

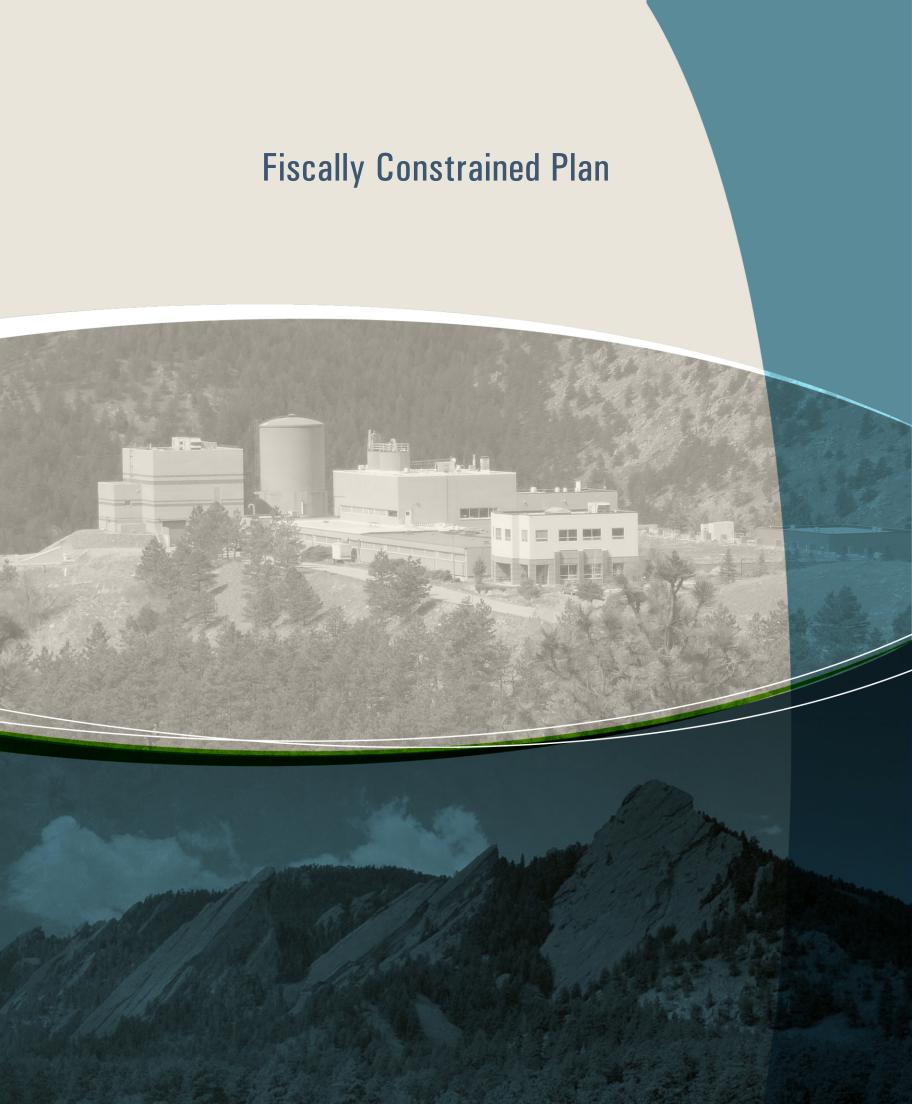
For future CIP planning, MWH recommends that the City of Boulder develop a more formalized and documented capital projects needs identification and evaluation process that provides for a life cycle cost and return on investment analysis of proposed capital projects. The formalized process should include 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 <u>both</u> 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** 





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

2010 2011 2012 2013 2014 2015 REVISED PROPOSED PROJECTED PROJECTED PROJECTED ACTUAL UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance \$42,650,247 \$37.649.542 \$27,191,770 \$27,455,195 \$26.893.077 \$28,494,780 SOURCES OF FUNDS 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 \$585,498 \$604,458 \$643,824 Projected Rate Increase \$623,831 \$664,459 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 TOTAL OPERATING SOURCES OF FUNDS \$21,570,501 \$22,852,806 \$23,221,166 \$24,292,936 \$24,970,381 \$25,680,833 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 \$5,000 Special Assessments \$83,202 \$5,000 \$5,000 \$5,000 \$5.000 State & Federal Grants \$906,882 \$273,118 \$475.856 \$549 104 \$672 327 \$854 843 Interest on Investments \$982 107 \$299 253 Rent, assessments and other misc revenues \$18,500 \$19,000 \$20,500 \$51,050 \$19,500 \$20,000 Sale of Real Estate - Yards Masterplan \$0 \$196,500 \$0 Transfer from General Fund - Fire Training Center \$92,785 \$92,785 \$92,785 \$92,785 \$92,785 \$92,785 Projected Bond Proceeds \$19,171,728 \$0 \$0 TOTAL NON-OPERATING SOURCES OF FUNDS \$3,042,422 \$2,439,141 \$2,316,389 \$2,440,112 \$2,623,128 \$22,144,148 TOTAL SOURCES OF FUNDS \$24.612.923 \$44.996.954 \$25,660,307 \$26,609,325 \$27,410,493 \$28.303.961 LISES OF FUNDS Operating Expenditures--Administration \$738,079 \$836,279 \$827,801 \$852,635 \$878,214 \$904,561 \$486,238 \$1,932,434 Planning and Project Management \$575,925 \$574.850 \$592.096 \$609.858 \$628,154 \$2,074,916 \$2,014,482 Water Resources and Hydroelectric Operations \$2,004,557 \$2,137,164 \$2,201,279 \$4,349,877 \$4,614,785 \$4,753,228 Water Treatment \$4,089,090 \$4,293,920 \$4,480,373 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 \$2,433,538 \$2,553,539 Windy Gap Payment Proposed Additions - Priority Based NPE Increase \$0 \$0 \$100,647 \$103,666 \$106,776 \$109.980 Sick/Vacation Accrual \$100.000 \$100,000 \$103,000 \$106,090 \$109,273 TOTAL OPERATING USES OF FUNDS \$13,456,689 \$14,795,723 \$14,905,141 \$15,290,964 \$15,712,402 \$16,223,640 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 Projected Bond-Betasso WTP Improvements TOTAL DEBT SERVICE \$0 \$5,445,496 \$6,272,311 \$24,697,108 \$5,413,386 \$5,423,509 \$5,437,115 Transfers Out--\$1,153,926 \$1,118,145 \$1,231,239 \$1,354,363 \$1,489,799 \$1.638.779 Cost Allocation Planning & Development Services \$188.860 \$194,526 \$200,362 \$206.373 \$212,564 \$218,941 TOTAL TRANSFERS OUT \$1 348 452 \$1,431,601 \$1,560,736 \$1,702,363 \$1.857.720 \$1,322,005 Capital Improvements Program-\$6,071,864 TOTAL CAPITAL USES OF FUNDS \$8,533,061 \$3,746,754 \$4,999,235 \$3,063,000 \$4.395.537 PROJECTED BOND - BETASSO WTP IMP \$0 \$0 \$0 \$0 \$0 PROJECTED BONDS - ISSUANCE COSTS \$0 \$0 \$0 \$0 \$0 \$0 ENCUMBRANCES, CARRYOVERS & MID-YR ATB's \$8,641,579 \$0 \$0 \$0 \$0 \$0 TOTAL USES OF FUNDS \$29.584.066 \$55.554.726 \$25,496,882 \$27,274,444 \$25,914,880 \$27.922.394 Sick/Vacation Accrual Adjustment (\$29,562) \$100,000 \$100,000 \$103,000 \$106,090 \$109,273 \$27,455,195 \$26,893,077 \$28,985,620 FUND BALANCE - END OF YEAR \$37,649,542 \$27,191,770 \$28,494,780 Designated Reserves -\$3,068,830 \$3,068,830 Bond Reserves \$3,068,830 \$3,068,830 \$3,068,830 \$3,068,830 Lakewood Pipeline Remediation Reserve \$12,813,756 \$14,071,087 \$13,203,498 \$14,965,063 \$15,624,845 \$16,566,081 Lakewood/USFS Damage Claims Reserve \$100,000 \$100,000 \$100,000 \$671 410 \$691 552 \$712 299 Vacation/Sick/Bonus Liability \$614 435 \$632,868 \$651.854 Pay Period 27 - 2013 Reserve \$236,947 \$287,947 \$389,947 \$440,947 \$338,947 **TÓTAL RESERVES** \$16,782,968 \$17,242,143 \$18,179,718 \$19,044,250 \$19,775,174 \$20,788,156 SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES \$9,275,477 \$7,848,826 \$8,719,606 \$20.866.574 \$9.949.627 \$8,197,464 OPERATING RESERVE (Goal: 25% of Operating) \$3,694,674 \$4,036,044 \$4,084,185 \$4,212,925 \$4,353,691 \$4,520,340 CAPITAL RESERVE (Goal: \$2,000,000) \$2,000,000 \$2,000,000 \$2,000,000 \$2,000,000 \$2,000,000 \$2,000,000 SURPLUS/(DEFICIT) vs. ALL RESERVES \$15,171,901 \$3,913,583 \$3,191,292 \$1,635,902 \$2,365,915 \$1,677,124

<sup>\*</sup> 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 utilit

	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED	2020 PROJECTED	2021 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$28,985,620	\$29,325,663	\$27,344,086	\$30,830,614	\$26,042,315	\$27,634,073
SOURCES OF FUNDS						
Operating						
Sale of Water to General Cust	\$22,858,493	\$23,591,121 3% \$707,734	\$24,347,236 3% \$730,417	\$25,127,592 <b>3%</b> \$753,828	\$25,932,967 <b>3%</b> \$777,989	\$26,764,162 3% \$802,925 3%
Projected Rate Increase Bulk/Irrigation Water Sales	\$685,755 \$131,750	3% \$707,734 \$131,750	\$131,750	\$131,750	3% \$777,989 \$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
TOTAL OPERATING SOURCES OF FUNDS	\$26,411,998	\$27,166,604	\$27,945,403	\$28,749,170	\$29,578,706	\$30,434,837
Non-Operating-	¢4 500 000	¢1 500 000	<b>#1</b> F00 000	<b>\$1</b> 500 000	\$1 F00 000	<b>\$4</b> 500 000
Plant Investment Fees Connection Charges	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$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 Sale of Real Estate - Yards Masterplan	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$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_
TOTAL NON-OPERATING SOURCES OF FUNDS	\$15,547,854	\$2,648,055	\$43,368,608	\$8,258,203	\$7,399,554	\$2,597,307
TOTAL SOURCES OF FUNDS	\$41,959,852	\$29,814,659	\$71,314,010	\$37,007,373	\$36,978,260	\$33,032,144
USES OF FUNDS						
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 Water Conservation	\$1,006,525	\$1,036,720	\$1,067,822	\$1,099,857 \$536.633	\$1,132,852	\$1,166,838
System Maintenance	\$491,096 \$3,449,637	\$505,828 \$3,553,126	\$521,003 \$3,659,720	\$3,769,512	\$552,732 \$3,882,597	\$569,314 \$3,999,075
Windy Gap Payment	\$2,776,959	\$2,341,075	\$336,000	\$341,000	\$346,000	\$356,380
Proposed Additions - Priority Based NPE Increase		\$116,677	\$120,178	\$123,783	\$127,497	\$131,322
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$112,551 \$16,691,884	\$115,927 \$16,673,448	\$119,405 \$15,098,344	\$122,987 \$15,546,215	\$126,677 \$16,007,371	\$130,477 \$16,487,592
	\$10,031,004	\$10,073,440	\$15,090,344	\$15,540,215	\$10,007,371	φ10,407,392
Debt	\$858,531	ФО.	\$0	\$0	\$0	\$0
BRWTP 1996 Revenue Bond; Refunding in 2005 Refunding of the 1999 and 2000 Revenue Bonds	\$2,517,388	\$0 \$2,524,233	\$0 \$2,524,650	\$1,375,102	\$0 \$0	\$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 TOTAL DEBT SERVICE	\$1,125,410 \$6,567,279	\$1,125,410 \$5,714,976	\$1,125,410 \$9,277,198	\$1,125,410 \$8,621,589	\$1,125,410 \$7,669,867	\$1,125,410 \$7,677,383
TOTAL DEBT SERVICE	φ0,307,279	φ5,714,976	φ9,277,190	φο,021,309	φ1,009,001	φ1,011,303
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	\$1,802,657	\$1,982,923 \$232,274	\$2,181,215 \$239,242	\$2,399,336 \$246,420	\$2,639,270 \$253,812	\$2,903,197 \$261,427
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL TRANSFERS OUT	\$2,028,166	\$2,215,197	\$2,420,457	\$2,645,756	\$2,893,082	\$3,164,624
Capital Improvements Program						
TOTAL CAPITAL USES OF FUNDS	\$4,666,515	\$7,308,542	\$3,913,367	\$12,530,100	\$4,520,211	\$4,965,358
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$125,000 \$0	\$0 \$0	\$350,000 \$0	\$75,000 \$0	\$75,000 \$0	\$0 \$0
TOTAL USES OF FUNDS	\$41,732,360	\$31,912,163	\$67,946,888	\$41,918,660	\$35,513,179	\$32,294,957
Sick/Vacation Accrual Adjustment	\$112,551	\$115,927	\$119,405	\$122,987	\$126,677	\$130,477
FUND BALANCE - END OF YEAR	\$29,325,663	\$27,344,086	\$30,830,614	\$26,042,315	\$27,634,073	\$28,501,736
	Ψ29,323,003	Ψ21,344,000	<b>\$50,030,014</b>	Ψ20,042,313	Ψ21,034,013	\$20,301,730
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	\$4,194,240 \$17,535,945	\$3,340,873 \$18,535,309	\$19,565,069	\$20,323,132	\$21,407,271	\$7,803,973 \$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 TOTAL RESERVES	\$491,947	\$542,947	\$593,947	\$644,947	\$695,947 \$30,732,940	\$746,947
IOTAL RESERVES	\$22,955,800	\$23,174,806	\$27,833,302	\$29,150,920	<b></b> გა∪,/3∠,940	\$31,925,826
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES		\$4,169,280	\$2,997,311	(\$3,108,606)	(\$3,098,867)	(\$3,424,090)
OPERATING RESERVE (Goal: 25% of Operating)	\$4,680,013	\$4,722,161	\$4,379,700	\$4,547,993	\$4,725,113	\$4,913,054 \$2,000,000
CAPITAL RESERVE (Goal: \$2,000,000) SURPLUS/(DEFICIT) vs. ALL RESERVES	\$2,000,000 (\$310,149)	\$2,000,000 (\$2,552,881)	\$2,000,000 (\$3,382,389)	\$2,000,000 (\$9,656,599)	\$2,000,000 (\$9,823,981)	\$2,000,000 (\$10,337,144)
SS.II ESSADEL IOIT, 18. ALE ILILEITES	(ψο 10, 149)	(ΨΣ,33Σ,001)	(40,002,009)	(40,000,009)	(40,020,001)	(ψ.ιο,οοι, ιττ)

 $<sup>\</sup>ensuremath{^{\star}}$  Reserve levels are based on industry standards and ary.

	2022 PROJECTED	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED	2026 PROJECTED	2027 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$28,501,736	\$29,893,628	\$29,844,389	\$33,604,034	\$37.662.628	\$41,542,667
SOURCES OF FUNDS	<del>+</del> _=,==,,==	*,,	<b>4</b> _0,0 1 1,000	***************************************	***,***,***	¥ · · · , • · = , • • ·
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	3% \$855,221 ***********************************	3% \$882,632 \$104,750	3% \$910,923 \$101,750	3% \$940,121	3% \$970,255 <b>3</b> %
Bulk/Irrigation Water Sales Hydroelectric Revenue	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
TOTAL OPERATING SOURCES OF FUNDS	\$31,318,415	\$32,230,321	\$33,171,462	\$34,142,777	\$35,145,232	\$36,179,825
Non-Operating	A4 500 000	<b>#4 500 000</b>	<b>#4 500 000</b>	<b>#4 500 000</b>	<b>#4 500 000</b>	<b>#4 500 000</b>
Plant Investment Fees Connection Charges	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$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 Sale of Real Estate - Yards Masterplan	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0	\$20,500 \$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$0 \$0	\$0 \$0	\$0	\$0 \$0
Projected Bond Proceeds	\$0	\$0	\$0	\$0	\$16,365,000	\$0
TOTAL NON-OPERATING SOURCES OF FUNDS	\$2,623,337	\$2,665,094	\$2,570,832	\$2,683,621	\$19,170,379	\$2,921,780
TOTAL SOURCES OF FUNDS	\$33,941,752	\$34,895,415	\$35,742,294	\$36,826,398	\$54,315,611	\$39,101,605
USES OF FUNDS 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 Water Conservation	\$1,201,843 \$586,394	\$1,237,898 \$603.986	\$1,275,035 \$622,105	\$1,313,286 \$640,768	\$1,352,685 \$659,991	\$1,393,265 \$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
Proposed Additions - Priority Based NPE Increase		\$139,319	\$143,499	\$147,804	\$152,238	\$156,805
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$134,392 \$16,982,220	\$138,423 \$17,491,687	\$142,576 \$18,016,437	\$146,853 \$18,556,930	\$151,259 \$19,113,638	\$155,797 \$19,687,047
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	\$0 \$0	\$0 \$0	\$0 \$0
Lakewood 2001 Rev Bond; Refunded in 2011 Arbitrage Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$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
TOTAL DEBT SERVICE	\$5,588,500	\$5,588,500	\$5,588,500	\$5,588,500	\$7,015,210	\$7,015,210
Transfers Out	00 100 517	<b>#0.540.000</b>	00.004.455	A4 050 574	#4.07F.000	ΦΕ 140 101
Cost Allocation Planning & Development Services	\$3,193,517 \$269,269	\$3,512,869 \$277,348	\$3,864,155 \$285,668	\$4,250,571 \$294,238	\$4,675,628 \$303,065	\$5,143,191 \$312,157
Other Transfers	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL TRANSFERS OUT	\$3,462,786	\$3,790,216	\$4,149,823	\$4,544,809	\$4,978,693	\$5,455,348
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$6.650.745	\$8,212,675	\$4,370,464	\$4,224,418	\$4,545,754	\$4,214,153
	* - / /					
PROJECTED BOND - BETASSO WTP IMP PROJECTED BONDS - ISSUANCE COSTS	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$14,808,534 \$125,000	\$0 \$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL USES OF FUNDS	\$32,684,252	\$35,083,077	\$32,125,225	\$32,914,658	\$50,586,830	\$36,371,759
Sick/Vacation Accrual Adjustment	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
FUND BALANCE - END OF YEAR	\$29,893,628	\$29,844,389	\$33,604,034	\$37,662,628	\$41,542,667	\$44,428,311
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 Vacation/Sick/Bonus Liability	\$0 \$876,037	\$0 \$902,319	\$0 \$929,388	\$0 \$957,270	\$0 \$985,988	\$0 \$1,015,567
Pay Period 27 - 2013 Reserve	\$797,947	\$848,947	\$899,947	\$950,947	\$1,001,947	\$1,052,947
TOTAL RESERVES	\$30,471,980	\$31,255,200	\$33,857,048	\$34,674,780	\$35,515,822	\$36,380,882
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES		(\$1,410,811)	(\$253,014)	\$2,987,847	\$6,026,845	\$8,047,429
OPERATING RESERVE (Goal: 25% of Operating) CAPITAL RESERVE (Goal: \$2,000,000)	\$5,111,252 \$2,000,000	\$5,320,476 \$2,000,000	\$5,541,565 \$2,000,000	\$5,775,435 \$2,000,000	\$6,023,083 \$2,000,000	\$6,285,599 \$2,000,000
SURPLUS/(DEFICIT) vs. ALL RESERVES	(\$7,689,603)	(\$8,731,286)	(\$7,794,579)	(\$4,787,588)	(\$1,996,237)	(\$238,170)

<sup>\*</sup> Reserve levels are based on industry standards and ar

	2028 PROJECTED	2029 PROJECTED	2030 PROJECTED	2031 PROJECTED	2032 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$44,428,311	\$46,149,842	\$48.397.929	\$44,453,247	\$43,332,698
	ψ. 1, 120,011	ψ10,110,012	φ 10,007,020	ψ···, 100,2··	ψ 10,002,000
SOURCES OF FUNDS 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	3% \$1,033,451	3% \$1,066,577	3% \$1,100,765	3% \$1,136,049 3%
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 TOTAL OPERATING SOURCES OF FUNDS	\$25,000 \$37,247,588	\$25,000 \$38,349,583	\$25,000 \$39,486,908	\$25,000 \$40,660,696	\$25,000 \$41,872,115
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 State & Federal Grants	\$5,000 \$0	\$5,000 \$0	\$5,000 \$0	\$5,000 \$0	\$5,000 \$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 Projected Bond Proceeds	\$0 \$0	\$0 \$0	\$0 \$19,935,000	\$0 \$0	\$0 \$0
TOTAL NON-OPERATING SOURCES OF FUNDS		\$3,059,995	\$23,062,438	\$3,009,097	\$2,975,481
TOTAL SOURCES OF FUNDS	\$40,255,937	\$41,409,578	\$62,549,346	\$43,669,793	\$44,847,596
USES OF FUNDS					
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 System Maintenance	\$700,185 \$4,918,358	\$721,190 \$5,065,909	\$742,826 \$5,217,886	\$765,111 \$5,374,422	\$788,064 \$5,535,655
Windy Gap Payment	\$438,302	\$451,452	\$464,995	\$478,945	\$493,313
Proposed Additions - Priority Based NPE Increase	se \$161,509	\$166,354	\$171,345	\$176,485	\$181,780
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$160,471 \$20,277,659	\$165,285 \$20,885,989	\$170,243 \$21,512,568	\$175,351 \$22,157,945	\$180,611 \$22,822,684
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 Arbitrage Payment	\$0 \$0	\$0 \$0	\$0 \$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
TOTAL DEBT SERVICE	\$7,015,210	\$7,015,210	\$8,753,185	\$8,753,185	\$8,753,185
Transfers Out					
Cost Allocation	\$5,657,510	\$6,223,261	\$6,845,587	\$7,530,146	\$8,283,160
Planning & Development Services Other Transfers	\$321,522 \$0	\$331,167 \$0	\$341,103 \$0	\$351,336 \$0	\$361,876 \$0
TOTAL TRANSFERS OUT	\$5,979,032	\$6,554,428	\$7,186,690	\$7,881,481	\$8,645,036
Capital Improvements Program					
TOTAL CAPITAL USES OF FUNDS	\$5,422,976	\$4,871,149	\$11,018,296	\$6,173,081	\$6,244,425
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0 \$0	\$0 \$0	\$150,000 \$0	\$0 \$0	\$0 \$0
TOTAL USES OF FUNDS	\$38,694,876	\$39,326,776	\$66,664,271	\$44,965,693	\$46,465,329
Sick/Vacation Accrual Adjustment	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
FUND BALANCE - END OF YEAR	\$46,149,842	\$48,397,929	\$44,453,247	\$43,332,698	\$41,895,576
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 \$1,046,034	\$0 \$1,077,415	\$0 \$1,109,738	\$0 \$1,142,020	\$0 \$1,177,221
Vacation/Sick/Bonus Liability Pay Period 27 - 2013 Reserve	\$1,046,034 \$1,103,947	\$1,077,415 \$1,154,947	\$1,109,738 \$1,205,947	\$1,143,030 \$1,256,947	\$1,177,321 \$1,307,947
TOTAL RESERVES	\$37,270,689	\$37,778,766	\$38,707,963	\$39,663,859	\$40,647,264
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVI OPERATING RESERVE (Goal: 25% of Operating	E\$ \$8,879,153	\$10,619,163 \$6,860,104	\$5,745,284 \$7,174,814	\$3,668,840 \$7,509,857	\$1,248,313 \$7,866,930
CAPITAL RESERVE (Goal: \$2,000,000) SURPLUS/(DEFICIT) vs. ALL RESERVES	\$2,000,000 \$314,980	\$2,000,000 \$1,759,059	\$2,000,000 (\$3,429,531)	\$2,000,000 (\$5,841,017)	\$2,000,000 (\$8,618,617)

<sup>\*</sup> Reserve levels are based on industry standards and ar

	l A I	В	С	D	Е	F	G	Н	1 1		К	1	М	N	0	P
1	^	В	C		CITY OF BO	OULDER		- 11	05-Oct-11	3	K		IVI	IN	O	
3					WATER UTIL	ITY FUND										
5 6	Assumed Inflation Rate	3.00%	ESTIMATED	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
8	PROJECT NAME		2010 COST	ACTUAL	REVISED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
10		411376	1	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0
11	Orodell Hydro/PRV Station	411342 411331		\$0 \$0	\$0 \$0	\$0 \$0	\$50,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
13 14	101 Pearl Street Hydro/PRV Station	411347	\$232,400 \$200,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$261,568 \$0	\$0 \$23,185	\$231,855	\$0 \$0	\$0 \$0	\$2,370 \$0
15 16 17				\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$261,568	\$23,185	\$231,855	\$0	\$0	\$2,370
18	Betasso WTP	411947		\$74,789 \$0	\$325,211 \$0	\$149,000 \$0	\$200,000 \$0	\$100,000 \$0	\$1,165,352 \$0	\$466,671 \$11,653,516	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$804,661 \$0	\$0 \$0
20	Bond Issuance Costs	411652		\$0 \$2,243,791	\$0 \$0 \$47,678	\$0 \$80,000	\$0 \$0 \$116,000	\$0 \$82,000	\$0 \$0	\$125,000 \$164,000	\$0 \$0	\$350,000 \$0	\$75,000	\$75,000 \$34,436	\$0 \$0	\$0 \$0
22	Boulder Res WTP - Bond Proceeds Subtotal - Water Treatment Facilities	111002		\$0 \$2,318,580	\$0 \$372,889	\$229,000	\$0 \$316,000	\$0 \$182,000	\$0	\$0	\$0 \$0	\$0 \$350,000	\$0 \$75,000	\$4,347,647 \$4,457,083	\$0 \$804,661	\$0 \$0
24	Treated Water Pump Stations			4-10.01000	70.2,000	722,675	40.0,000	<b>Q</b> .02,000	<b>V</b> 1,100,000	41-,100,101	-	7000,000	4.0,000	41,101,000	400.1,000	7.2
26 27	Cherryvale Pump Station  Boulder Reservoir WTP High Service Pump Stat	411010 411011		\$322,532 \$0	\$0 \$0	\$0 \$50,000	\$0 \$112,800	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
28 29	Iris Pump Stations Subtotal - Treated Water Pump Stations	411012		\$61,152 \$383,684	\$0 \$0	\$0 \$50,000	\$0 \$112,800	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
30 31	Treated Water Storage Tanks															
32 33		411670 411673		\$32,136 \$0	\$15,950 \$0	\$0 \$0	\$265,798 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
34 35 36	Booten Storage Tank Devil's Thumb Storage Tank	411674		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
37	Chautaugua Storage Tank	411671 411672	\$920,000 \$785,000	\$0 \$0	\$0 \$870,779	\$0 \$0	\$0 \$0	\$0 \$0	\$100,531 \$0	\$1,005,309 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$2,000,000
38 39 40			\$250,000	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0 \$100 531	\$0 \$0 \$1,005,309	\$281,377 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0 \$2,000,000
40 41 42	, and the second			\$32,136	\$886,729	\$0	\$265,798	\$0	\$100,531	φ1,000,309	\$281,377	\$0	\$0	\$0	\$0	\$2,000,000
42 43 44	Zone Isolation Valves  Cathodic Protection	411390 411387		\$0 \$18,569	\$0 \$113,501	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
45 46	Waterline Replacement	411389		\$3,074,412 \$3,092,981	\$2,458,289 \$2,571,790	\$2,100,000	\$2,100,000	\$2,163,000 \$2,163,000	\$2,227,890 \$2,227,890	\$2,294,727 \$2,294,727	\$2,363,569 \$2,363,569	\$2,434,476 \$2,434,476	\$2,507,510	\$3,314,510 \$3,314,510	\$3,413,945 \$3,413,945	\$3,516,364 \$3,516,364
47 48				, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	. , ,55,500	. ,,555	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. , 5.,0	. ,,0.0	, , ,		, , , , , , , , , , , , , , , , , , , ,
49 50	Sunshine Transmission Pipe Boulder Canyon - Orodell to Fourmile Pipe	411006 411007		\$0 \$0	\$0 \$500,000	\$0 \$0	\$800,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
51 52	Mountain Transmission Pipes Zone 1 Transmission Pipes	411007 411002		\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$243,334 \$0	\$0 \$0	\$0 \$0
53 54	Zone 3 Transmission Pipes	411004 411005		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
55 56	Subtotal - Treated Water Transmission System			\$0	\$500,000	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$243,334	\$0	\$0
57 58	Lakewood Pipeline	411780		\$216,490	\$0	\$0	\$0	\$257,500	\$0	\$0	\$0	\$0		\$0	\$0	\$0
59 60 61	Source Water Transmission Pipe Inspections	411640 411775		\$0 \$0	\$0 \$0	\$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
62				\$216,490	\$0	\$80,000	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0
64 65	Barker Gravity Pipeline Repair	411106 411107	\$20,000,000 \$100,000	\$107,639 \$0	\$733,639 \$0	\$350,000 \$175,000	\$350,000 \$0	\$360,500 \$0	\$371,315 \$0	\$382,454 \$0	\$78,661 \$112,551	\$81,021 \$0	\$83,452 \$0	\$85,955 \$0	\$88,534 \$0	\$91,190 \$0
66 67		411109	\$7,055,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$736,081 \$0	\$0 \$7,360,811		\$0 \$0	\$0 \$0	\$0 \$0
68 69	Barker Dam and Reservoir Barker Hydro System Integration	411110 411111	\$350,000	\$0 \$16	\$120,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$371,315 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
70 71	Barker Instream Flow Release	411112 411114		\$47,826 \$8,645	\$570,000 \$139,359	\$0 \$0		\$0 \$0	\$0 \$0	\$253,354 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
72 73	Kossler Reservoir	411940 411119		\$253,465 \$70,626	\$0 \$864,712	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
74 75	,			\$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
76 77	Albion Dam		\$3,075,000	\$0	\$0	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$0	\$0	\$0	\$362,857
78 79 80		411626		\$13,002 \$0	\$0 \$148,892	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$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	\$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$408,366 \$0	\$4,083,659	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
82 83 84	Goose Lake Dam  Boulder Reservoir	411612	\$90,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$110,689	\$0 \$0 \$0	\$0 \$0
85 86	Lakewood Reservoir Skyscraper Dam	411981	\$102,500 125,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$118,826 \$144,909	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
87 88	Wittemyer Ponds		4,000,000	\$0 \$13,002	\$0 \$148,892	\$0 \$0	\$0	\$0 \$0	\$0 \$79,568	\$0 \$0	\$0 \$0	\$429,859	\$4,298,588	\$0 \$110,689	\$0 \$0	\$0 \$362,857
89 90	Other Raw Water Facilities															
91 92	Farmer's Ditch Anderson Ditch	411550 411883		\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
93 94	Nederland WWTP	411770 411565	\$440,500	\$0 \$0	\$290,500 \$370,000	\$0 \$0	\$0 \$0	\$0 \$0	\$79,568 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$92,241 \$0	\$0 \$0	\$0 \$0
95 96 97	Instream Flow Structures and Gaging Como Creek Diversion Structure	411549 411548		\$0 \$0	\$50,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
97 98 99	Silver Lake Diversion Structure	A11E10		\$0 \$0	\$0 \$0 \$92.468	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
100 101	NCWCD Conveyance - Carter Lake Pipeline	411546 411547	\$25,000,000	\$0 \$3,531 \$0	\$92,468 \$989,455 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$2,608,367 \$0	\$0 \$0 \$26,083,667		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
	Subtotal - Other Raw Water Facilities		ψ=0,000,000	\$3,531	\$1,792,423	\$0	\$0	\$0	\$79,568	\$0	\$2,608,367		\$106,090	\$92,241	\$0	\$0
104	Source Water Pressure Reducing, Pumping and Lakewood Hydroelectric/PRV	Hydroelectric 411801	;	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0
106	Silver Lake Hydroelectric/PRV	411970 411655		\$0 \$29,819	\$0 \$197,583	\$100,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0
108 109	Betasso Hydro PRV Station Barker Dam Hydro	411974		\$215,286 \$0	\$28,967 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$100,000 \$0	\$0 \$344,304	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
110 111	Barker Dam Hydro - Bond Proceeds Boulder Canyon Hydro	411975	\$3,300,000	\$0 \$262,960	\$0 \$3,711,240	\$0 \$0	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> \$0	\$0 \$0	\$3,443,044 \$0	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>
112 113	Boulder Canyon Hydro - Grant Carter Lake Hydro	411976		\$273,118 \$0	\$907,681 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$250,000	\$0	\$0 \$0	\$0 \$0	\$0 \$0
114 115	Source Water Pressure Reducing, Pumping and		Facility Rehab	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	<b>\$0</b> \$0	\$0 \$0	\$0 \$22,063	\$0 \$22,725	\$2,500,000 \$23,407	\$0 \$24,109	\$0 \$24,832	\$0 \$25,577
116 117	, , , , , , , , , , , , , , , , , , ,	0		\$781,183	\$4,845,471	\$100,000	\$0	\$100,000	\$0	\$100,000	\$366,368	\$3,715,769	\$2,823,407	\$24,109	\$24,832	\$25,577
119		411433		\$375,474	\$149,155	\$0		\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0
120	Subtotal - Water Distribution System Expansion			\$375,474	\$149,155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
123	Water System Monitoring and Metering Automated Meter Reading	411454	\$500,000	\$530,450	\$546,364	\$562,754		\$0	\$0	\$0	\$0	\$0		\$614,937	\$633,385	\$652,387
124 125 126	Water System Security Upgrades Distribution System Water Quality	411440 411425		\$93,200 \$200,696	\$107,315 \$148,646	\$100,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0
126 127 128	Data Communications System Yards Master Plan Implementation Utility Billing Computer System Replacement	411435 411039 411453		\$0 \$3,104 \$333	\$100,000 \$28,771	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$500,000	\$0 \$0 \$0	\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
128 129 130	Subtotal - Water System Monitoring and Metering			\$827,783	\$28,771 \$931,096	\$662,754		\$0 \$0	\$0 \$0	\$0 \$0	\$500,000 \$500,000	\$0 \$0		\$0 \$614,937	\$633,385	\$652,387
	TOTAL CAPITAL USES OF FUNDS			\$8,533,061 (\$2,461,197)	\$14,626,155 (\$10,879,401)	\$3,746,754 \$1,252,481	\$4,999,235 (\$1,936,235)	\$3,063,000 \$1,332,537	\$4,395,537 \$395,977	\$16,445,031 (\$9,136,489)	\$7,308,542 \$33,842,347	\$41,150,889 (\$26,045,789)		\$8,942,858 (\$3,977,500)	\$4,965,358 \$1,685,387	\$6,650,745 \$1,561,929
133	Asset Value Replacement Percentage	10%		(φε,401,19/)	(\$10,879,401)	φι,∠5∠,481	(φ1,930,235)	φ1,332,53/	φ395,977	(φυ, ιυο,489)	φυυ,842,34/	(φευ,υ40,/89)	(φυ, 10∠,241)	(φο,θ77,500)	φ1,085,387	φ1,301,929

	A	В	Q	R	S	Т	U	l v	w	Х	Y	Z	AA
2		_											
3 4 5													
6 7 8	Assumed Inflation Rate PROJECT NAME	3.00%	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED	2026 PROJECTED	2027 PROJECTED	2028 PROJECTED	2029 PROJECTED	2030 PROJECTED	2031 PROJECTED	2032 PROJECTED	TOTAL
9	Treated Water Pressure Reducing and Hydroelec Kohler Hydro/PRV Station	411376	\$0	\$0	\$0	\$0	\$0	\$79,881	\$0	\$9,491	\$0	\$0	\$139,372
11 12 13	Maxwell Hydro/PRV Station Orodell Hydro/PRV Station Sunshine Hydro/PRV Station	411342 411331 411347	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$41,472 \$0 \$0	\$0 \$0 \$0	\$4,015 \$0 \$0	\$0 \$0 \$0	\$6,128 \$0 \$0	\$930 \$0 \$0	\$0 \$0 \$37,710	\$102,544 \$0 \$263,938
14 15	101 Pearl Street Hydro/PRV Station Subtotal - Treated Water PRV and Hydro		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$41,472	\$0 \$0	\$0 \$83,896	\$0 \$0	\$0 \$15,619	\$0 \$930	\$0 \$37,710	\$255,040 \$760,895
16 17 18	Water Treatment Facilities Betasso WTP	411947	\$170,017	\$170,017	\$108,548	\$33,412	\$0	\$628,046	\$0	\$1,498,313	\$6,871	\$0	\$5,900,908
19 20	Betasso WTP - Bond Proceeds Bond Issuance Costs		\$0 \$0	\$0 \$0	\$0 \$0	\$14,808,534 \$125,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$150,000	\$0 \$0	\$0 \$0	\$26,462,051 \$900,000
21 22 23	Boulder Reservoir WTP  Boulder Res WTP - Bond Proceeds  Subtotal - Water Treatment Facilities	411652	\$0 \$0 \$170,017	\$0 \$0 \$170,017	\$0 \$0 \$108,548	\$0 \$0 \$14,966,946	\$2,358 \$0 \$2,358	\$312,549 \$0 \$940,595	\$1,679 \$0 \$1,679	\$615,709 \$18,043,533 \$20,307,555	\$4,092 \$0 \$10,963	\$0 \$0 \$0	\$3,704,293 \$22,391,180 \$59,358,431
24 25	Treated Water Pump Stations						<del>1</del> -1000						
26 27 28	Cherryvale Pump Station  Boulder Reservoir WTP High Service Pump Sta  Iris Pump Stations	411010 411011 411012	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$24,829 \$0 \$32,816	\$0 \$0 \$0	\$0 \$0 \$0	\$347,361 \$162,800 \$93,968
29 30	Subtotal - Treated Water Pump Stations	411012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$57,645	\$0	\$0	\$604,129
31 32 33	Treated Water Storage Tanks Gunbarrel Storage Tank Maxwell Storage Tank	411670 411673	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$65,134	\$0 \$0	\$60,336 \$0	\$0 \$0	\$0 \$0	\$16,269 \$0	\$0 \$0	\$390,488 \$65,134
34 35	Booten Storage Tank  Devil's Thumb Storage Tank	411674	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$316,615	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$05,134 \$0 \$316,615
36 37 38	Kohler Storage Tank Chautauqua Storage Tank	411671 411672	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$1,105,840 \$2,870,779 \$281,377
39 40	Betasso Storage Tank Boulder Reservoir Storage Tank Subtotal - Treated Water Storage Tanks		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$381,749	\$0 \$0 \$0	\$0 \$0,336	\$0 \$0 \$0	\$0 \$0	\$0 \$16,269	\$0 \$0 \$0	\$0 \$5,030,233
41 42 43	Treated Water Distribution System Zone Isolation Valves	411390	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44 45	Cathodic Protection Waterline Replacement	411387 411389	\$0 \$3,621,855	\$0 \$3,730,510	\$0 \$3,842,426	\$0 \$3,957,698	\$0 \$4,076,429	\$0 \$4,198,722	\$0 \$4,324,684	\$0 \$5,818,024	\$0 \$5,992,564	\$0 \$6,172,341	\$132,070 \$73,531,603
	Subtotal - Treated Water Distribution System  Treated Water Transmission System		\$3,621,855	\$3,730,510	\$3,842,426	\$3,957,698	\$4,076,429	\$4,198,722	\$4,324,684	\$5,818,024	\$5,992,564	\$6,172,341	\$73,663,673
49 50	Sunshine Transmission Pipe  Boulder Canyon - Orodell to Fourmile Pipe	411006 411007	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$800,000 \$500,000
51 52 53	Mountain Transmission Pipes Zone 1 Transmission Pipes Zone 2 Transmission Pipes	411007 411002 411004	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$145,850	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$780,060 \$881,798 \$236,058	\$0 \$0 \$0	\$0 \$0 \$0	\$1,023,394 \$1,027,648 \$236,058
54 55	Zone 2 Transmission Pipes Zone 3 Transmission Pipes Subtotal - Treated Water Transmission System	411004	\$0 \$0	\$0 \$0	\$0 \$0 \$145,850	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$967,152 \$2,865,068	\$0 \$0	\$0 \$0 \$0	\$967,152 \$4,554,251
56 57 58	Source Water Transmission System Lakewood Pipeline	411780	\$0	\$346,058	\$0	\$0	\$0	\$0	\$401,177	\$0	\$0	99	\$1,519,738
59 60	Silver Lake Pipeline Source Water Transmission Pipe Inspections	411640 411775	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0,000
61 62	Subtotal - Source Water Transmission System		\$0	\$346,058	\$0	\$0	\$0	\$0	\$401,177	\$0	\$0	\$0	\$1,599,738
64	Barker Water System  Barker Gravity Pipeline Repair  Barker-Kossler Penstock Repair	411106 411107	\$93,926 \$0	\$96,744 \$0	\$99,646 \$0	\$102,635 \$0	\$105,714 \$0	\$108,886 \$0	\$112,152 \$0	\$115,517 \$0	\$118,983 \$0	\$0 \$0	\$4,118,565 \$287,551
66 67 68	Barker Dam Outlet  Barker Dam Outlet - Bond Proceeds	411109	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$736,081 \$7,360,811
69 70	Barker Dam and Reservoir Barker Hydro System Integration Barker Relicensing	411110 411111 411112	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$491,315 \$16 \$871,180
71 72	Barker Instream Flow Release Betasso Penstock	411114 411940	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$148,004 \$253,465
73 74 75	Kossler Reservoir Subtotal - Barker Water System	411119	\$93,926	\$96,744	\$99,646	\$0 \$102,635	\$0 \$105,714	\$0 \$108,886	\$0 \$112,152	\$0 \$115,517	\$0 \$118,983	\$0 \$0	\$1,235,338 \$15,502,326
77	Raw Water Storage Reservoirs Albion Dam		\$3,628,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,070,999
78 79 80	Silver Lake Dam Island Lake Dam Green Lake 1 Dam	411626	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$161,894 \$0
81 82	Green Lake 2 Dam Green Lake 3 Dam	411627	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$4,567,025 \$0
83 84 85	Goose Lake Dam  Boulder Reservoir  Lakewood Reservoir	411612	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$110,689 \$118,826
86 87	Skyscraper Dam Wittemyer Ponds		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$144,909 \$4,728,447
88 89 90	Subtotal - Raw Water Storage Reservoirs  Other Raw Water Facilities		\$3,628,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,902,788
91 92	Farmer's Ditch Anderson Ditch	411550 411883	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$106,090 \$0
93 94 95	Watershed Improvements Nederland WWTP Instream Flow Structures and Gaging	411770 411565 411549	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$462,308 \$370,000 \$50,000
96 97	Como Creek Diversion Structure Lakewood Diversion Structure	411548	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
98 99 100	Silver Lake Diversion Structure  NCWCD Conveyance - Boulder Feeder Canal  NCWCD Conveyance - Carter Lake Pipeline	411546 411547	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$92,468 \$3,601,353
101 102	NCWCD Conveyance - Bond Proceeds		<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> \$0	<b>\$0</b> <b>\$0</b>	\$26,083,667 \$30,765,885
103 104 105	Source Water Pressure Reducing, Pumping and Lakewood Hydroelectric/PRV	Hydroelectric 411801	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000
106 107	Silver Lake Hydroelectric/PRV Boulder Reservoir Intake and Pumping	411970 411655	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$227,402
108 109 110	Betasso Hydro PRV Station  Barker Dam Hydro  Bar	411974	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$344,253 \$344,304
111 112	Boulder Canyon Hydro Boulder Canyon Hydro - Grant	411975 411976	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$3,443,044 \$3,974,200 \$1,180,799
113 114 115		Hudroolootrio	\$0 \$0 \$26,345	\$0 \$0 \$27,135	\$0 \$0 \$27,949	\$0 \$0 \$28,788	\$0 \$0 \$29.651	\$0 \$0 \$30,541	\$0 \$0 \$31,457	\$0 \$0 \$32,401	\$0 \$0 \$33,373	\$0 \$0 \$34,374	\$250,000 \$2,500,000
116 117	Source Water Pressure Reducing, Pumping and Subtotal - Source Water PRV, Pumping and Hydr		\$26,345	\$27,135 \$27,135	\$27,949 \$27,949	\$28,788 \$28,788	\$29,651 \$29,651	\$30,541	\$31,457 \$31,457	\$32,401 \$32,401	\$33,373	\$34,374	\$410,354 \$8,833,203
119		411433	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524,629
121	Subtotal - Water Distribution System Expansion  Water System Monitoring and Metering		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524,629
123 124	Automated Meter Reading Water System Security Upgrades	411454 411440	\$671,958 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$5,388,898 \$300,515
125 126 127	Distribution System Water Quality Data Communications System Yards Master Plan Implementation	411425 411435 411039	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$349,342 \$0 \$103,104
128 129	Utility Billing Computer System Replacement Subtotal - Water System Monitoring and Metering	411453	\$0 \$0 \$671,958	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$529,104 \$6,670,963
130 131 132	TOTAL CAPITAL USES OF FUNDS		\$8,212,675 (\$3,842,210)	\$4,370,464 (\$146,046)	\$4,224,418 \$446,335	\$19,479,288 (\$15,265,135)	\$4,214,153 \$1,208,822	\$5,422,976 (\$551,826)	\$4,871,149 \$24,340,679	\$29,211,828 (\$23,038,747)	\$6,173,081 \$71,344	\$6,244,425 (\$6,244,425)	\$221,771,146
133	Asset Value Replacement Percentage	10%	(\\U,\U+\L,\L\I\)	(ψ140,040)	ψ <del>-11</del> 0,333	(\$.0,200,100)	ψ1,200,022	(ψοσ1,020)	ψ <u>-</u> -τ,υ <del>-</del> τυ,0/3	(\$20,000,747)	ψ11,344	(40,44,420)	

## **Action Plan**

## CITY OF BOULDER 2012 FUND FINANCIAL WATER UTILITY FUND

	2010 ACTUAL		2011 REVISED		2012 PROPOSED		2013 PROJECTED		2014 PROJECTED		2015 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$42,650,247		\$37,649,542		\$27,191,770		\$27,508,090		\$27,313,428		\$29,630,273
SOURCES OF FUNDS											
Operating											
Sale of Water to General Cust Projected Rate Increase	\$18,816,163	00/	\$19,516,608	3%	\$20,148,607	3%	\$20,794,356	4 E0/	\$21,773,346	4 E0/	\$22,798,437
Bulk/Irrigation Water Sales	\$0 \$171,058	0%	\$585,498 \$120,700	3%	\$604,458 \$150,100	3%	\$935,746 \$138,750	4.5%	\$979,801 \$129,750	4.5%	\$1,025,930 <b>4.5%</b> \$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 TOTAL OPERATING SOURCES OF FUNDS	\$118,307 \$21,570,501		\$25,000 \$22,852,806		\$25,000 \$23,221,166		\$25,000 \$24,604,852		\$25,000 \$25,618,897		\$25,000 \$26,692,117
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 State & Federal Grants	\$83,202 \$273,118		\$5,000 \$906,882		\$5,000 \$0		\$5,000 \$0		\$5,000 \$0		\$5,000 \$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 Transfer from General Fund - Fire Training Center	\$0 \$92,785		\$0 \$92,785		\$196,500 \$92,785		\$0 \$92,785		\$0 \$92,785		\$0 \$92,785
Projected Bond Proceeds	\$0		\$19,171,728		\$0		\$0		\$0		\$0
TOTAL NON-OPERATING SOURCES OF FUNDS	\$3,042,422		\$22,144,148		\$2,439,141		\$2,317,447		\$2,450,621		\$2,657,193
TOTAL SOURCES OF FUNDS	\$24,612,923		\$44,996,954		\$25,660,307		\$26,922,299		\$28,069,517		\$29,349,310
USES OF FUNDS											
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 Water Quality & Environmental Svcs	\$4,089,090 \$782,365		\$4,293,920 \$873,887		\$4,329,482 \$890.599		\$4,459,366 \$917,317		\$4,593,147 \$944,836		\$4,730,942 \$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 Proposed Additions - Priority Based NPE Increase	\$2,433,538 <b>\$0</b>		\$2,553,539 <b>\$0</b>		\$2,541,910 \$100,647		\$2,556,836 \$103,666		\$2,596,250 \$106,776		\$2,714,004 \$109,980
Sick/Vacation Accrual	(\$29,562)		\$100,000		\$100,000		\$103,000		\$106,090		\$109,273
TOTAL OPERATING USES OF FUNDS	\$13,456,689		\$14,795,723		\$14,852,245		\$15,236,481		\$15,656,284		\$16,165,839
Debt	0044 505		4040.750		<b>***</b> *********************************		<b>#054 400</b>		0050 504		4057 700
BRWTP 1996 Revenue Bond; Refunding in 2005 Refunding of the 1999 and 2000 Revenue Bonds	\$844,505 \$3,253,354		\$848,752 \$2,507,921		\$854,690 \$2,506,088		\$854,438 \$2,511,421		\$856,594 \$2,523,521		\$857,709 \$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 TOTAL DEBT SERVICE	\$6,272,311		\$0 \$24,697,108		\$5,413,386		\$5,423,509		\$5,437,115		\$0 \$5,445,496
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 Other Transfers	\$188,860		\$194,526 \$0		\$200,362		\$206,373 \$0		\$212,564 \$0		\$218,941
TOTAL TRANSFERS OUT	\$15,000 \$1,322,005		\$1,348,452		\$0 \$1,431,601		\$1,560,736		\$1,702,363		\$0 \$1,857,720
Capital Improvements Program											
TOTAL CAPITAL USES OF FUNDS	\$8,533,061		\$6,071,864		\$3,746,754		\$4,999,235		\$3,063,000		\$4,395,537
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
TOTAL USES OF FUNDS	\$29,584,066		\$55,554,726		\$25,443,986		\$27,219,961		\$25,858,763		\$27,864,593
Sick/Vacation Accrual Adjustment	(\$29,562)		\$100,000		\$100,000		\$103,000		\$106,090		\$109,273
FUND BALANCE - END OF YEAR	\$37,649,542		\$27,191,770		\$27,508,090		\$27,313,428		\$29,630,273		\$31,224,262
Designated Reserves -			*****		****				** ***		
Bond Reserves Lakewood Pipeline Remediation Reserve	\$3,068,830 \$12,813,756		\$3,068,830 \$13,203,498		\$3,068,830 \$14,071,087		\$3,068,830 \$14,965,063		\$3,068,830 \$15,624,845		\$3,068,830 \$16,566,081
Lakewood/USFS Damage Claims Reserve	\$100,000		\$100,000		\$100,000		\$14,965,065		\$15,624,645		\$10,500,001
Vacation/Sick/Bonus Liability	\$614,435		\$632,868		\$651,854		\$671,410		\$691,552		\$712,299
Pay Period 27 - 2013 Reserve TOTAL RESERVES	\$185,947 \$16,782,968		\$236,947 \$17,242,143		\$287,947 \$18,179,718		\$338,947 \$19,044,250		\$389,947 \$19,775,174		\$440,947 \$20,788,156
TOTAL HEDERVED	ψ10,102,300		ψ11,2+2,143		ψιυ,ι/3,/10		ψισ,υ44,230		ψ10,110,114		ψ <b>∠</b> 0,700,100
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES			\$9,949,627		\$9,328,373		\$8,269,178		\$9,855,099		\$10,436,106
OPERATING RESERVE (Goal: 25% of Operating)  CAPITAL RESERVE (Goal: \$2,000,000)	\$3,694,674 \$2,000,000		\$4,036,044 \$2,000,000		\$4,070,962 \$2,000,000		\$4,199,304 \$2,000,000		\$4,339,662 \$2,000,000		\$4,505,890 \$2,000,000
SURPLUS/(DEFICIT) vs. ALL RESERVES	\$15,171,901		\$3,913,583		\$3,257,411		\$2,069,874		\$3,515,437		\$3,930,216

<sup>\*</sup> 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.

	2016 PROJECTED		2017 PROJECTED		2018 PROJECTED		2019 PROJECTED		2020 PROJECTED		2021 PROJECTED	
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$31,224,262		\$30,059,421		\$29,328,126		\$34,535,632		\$31,985,538		\$32,618,481	
SOURCES OF FUNDS												
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	4.5%		4.5%		4.5%		4.5%		4.5%
Bulk/Irrigation Water Sales	\$131,750		\$131,750		\$131,750 \$2,711,000		\$131,750 \$2,711,000		\$131,750		\$131,750	
Hydroelectric Revenue Miscellaneous Operating Revenues	\$2,711,000 \$25,000		\$2,711,000 \$25,000		\$2,711,000		\$2,711,000		\$2,711,000 \$25,000		\$2,711,000 \$25,000	
TOTAL OPERATING SOURCES OF FUNDS	\$27,813,780		\$28,988,263	•	\$30,218,052		\$31,505,752		\$32,854,090		\$34,265,921	-
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 \$5,000		\$150,000		\$150,000 \$5,000		\$150,000		\$150,000		\$150,000	
Special Assessments State & Federal Grants	\$5,000 \$0		\$5,000 \$0		\$5,000 \$0		\$5,000 \$0		\$5,000 \$0		\$5,000 \$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 TOTAL NON-OPERATING SOURCES OF FUNDS	\$12,910,000 \$15,615,013		\$0 \$2,670,068		\$40,780,000 \$43,428,129		\$5,565,000 \$8,369,354		\$4,850,000 \$7,577,851		\$0 \$2,746,839	-
TOTAL SOURCES OF FUNDS	\$43,428,793		\$31,658,331		\$73,646,181		\$39,875,106		\$40,431,941		\$37,012,761	
USES OF FUNDS												
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 Water Conservation	\$1,002,377 \$491,193		\$1,032,448 \$505,929		\$1,063,422 \$521,107		\$1,095,324 \$536,740		\$1,128,184 \$552,843		\$1,162,030 \$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	
Proposed Additions - Priority Based NPE Increase			\$116,677		\$120,178		\$123,783		\$127,497		\$131,322	
Sick/Vacation Accrual	\$112,551		\$115,927		\$119,405		\$122,987		\$126,677		\$130,477	_
TOTAL OPERATING USES OF FUNDS	\$16,632,349		\$16,612,127		\$15,035,184		\$15,481,159		\$15,940,364		\$16,418,575	
Debt												
BRWTP 1996 Revenue Bond; Refunding in 2005	\$858,531		\$0 \$2,524,233		\$0 \$2,524,650		\$0		\$0		\$0	
Refunding of the 1999 and 2000 Revenue Bonds Lakewood 2001 Rev Bond; Refunded in 2011	\$2,517,388 \$2,065,950		\$2,065,333		\$2,072,083		\$1,375,102 \$2,080,817		\$0 \$2,081,367		\$0 \$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	
TÓTAL DEBT SERVICE	\$6,567,279		\$5,714,976		\$9,277,198		\$8,621,589		\$7,669,867		\$7,677,383	
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	
TOTAL TRANSFERS OUT	\$2,028,166		\$2,215,197		\$2,420,458		\$2,645,756		\$2,893,083		\$3,164,624	
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$7,699,874		\$7,963,253		\$4,587,720		\$13,224,683		\$8,999,714		\$12,949,871	
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516		\$0		\$0		\$0		\$0		\$0	
PROJECTED BONDS - ISSUANCE COSTS	\$125,000		\$0 \$0		\$350,000		\$75.000		\$75,000		\$0 \$0	
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0		\$0		\$0		\$0		\$0		\$0	
TOTAL USES OF FUNDS	\$44,706,185		\$32,505,553		\$68,558,081		\$42,548,188		\$39,925,675		\$40,210,453	
Sick/Vacation Accrual Adjustment	\$112,551		\$115,927		\$119,405		\$122,987		\$126,677		\$130,477	
FUND BALANCE - END OF YEAR	\$30,059,421		\$29,328,126		\$34,535,632		\$31,985,538		\$32,618,481		\$29,551,267	
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	-
TOTAL RESERVES	\$22,955,800		\$23,174,806		\$27,833,302		\$29,150,920		\$30,732,940		\$31,925,826	
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES			\$6,153,320		\$6,702,330		\$2,834,617		\$1,885,541		(\$2,374,560)	
OPERATING RESERVE (Goal: 25% of Operating)	\$4,665,129		\$4,706,831		\$4,363,910		\$4,531,729		\$4,708,362		\$4,895,800	
CAPITAL RESERVE (Goal: \$2,000,000) SURPLUS/(DEFICIT) vs. ALL RESERVES	\$2,000,000 \$438,493		\$2,000,000		\$2,000,000 \$338,419		\$2,000,000 (\$3,697,112)		\$2,000,000 (\$4,822,820)		\$2,000,000	-
SUMPLUS/(DEFICIT) VS. ALL RESERVES	<b>\$438,493</b>		(\$553,511)		<b></b> ФЭЗВ,419		(\$3,097,112)		(\$4,022,820)		(\$9,270,360)	

 $<sup>^{\</sup>star}$  Reserve levels are based on industry standards and ar

	2022 PROJECTED	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED	2026 PROJECTED	2027 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$29,551,267	\$32,619,307	\$33,759,845	\$39,339,178	\$45.361.378	\$50,633,349
	Ψ20,001,207	ψ02,010,001	ψου, 700,040	φοσ,σσσ,17σ	ψ40,001,070	ψου,οου,ο+ο
SOURCES OF FUNDS 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		4.5% \$1,552,187		4.5% \$1,701,794	
Bulk/Irrigation Water Sales Hydroelectric Revenue	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000	\$131,750 \$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
TOTAL OPERATING SOURCES OF FUNDS	\$35,744,235	\$37,292,163	\$38,912,983	\$40,610,128	\$42,387,190	\$44,247,935
Non-Operating			4	4	*. ===	
Plant Investment Fees Connection Charges	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$150,000	\$1,500,000 \$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 Rent, assessments and other misc revenues	\$886,538 \$20,500	\$978,579 \$20,500	\$1,012,795 \$20,500	\$1,180,175 \$20,500	\$1,360,841 \$20,500	\$1,519,000 \$20,500
Sale of Real Estate - Yards Masterplan	\$20,500	\$20,500 \$0	\$20,500	\$0,500	\$0	\$0,500
Transfer from General Fund - Fire Training Center	\$92,785	\$92,785	\$0	\$0	\$0	\$0
Projected Bond Proceeds TOTAL NON-OPERATING SOURCES OF FUNDS	\$0 \$2,654,823	\$0 \$2,746,864	\$0 \$2,688,295	\$0 \$2,855,675	\$16,365,000 \$19,401,341	\$0 \$3,194,500
TOTAL SOURCES OF FUNDS	\$38,399,058	\$40,039,028	\$41,601,279	\$43,465,803	\$61,788,532	\$47,442,436
USES OF FUNDS	, , ,	,,.	, , , -	,,	, , , , , , , , , , , , , , , , , , , ,	, , , ==
Operating Expenditures						
Administration Planning and Project Management	\$1,101,327 \$771.654	\$1,134,367 \$794.804	\$1,168,398 \$818,648	\$1,203,450 \$843,207	\$1,239,554 \$868,503	\$1,276,740 \$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 \$586.511	\$1,232,797 \$604.106	\$1,269,781	\$1,307,875	\$1,347,111	\$1,387,524
Water Conservation System Maintenance	\$4,097,207	\$4,220,123	\$622,229 \$4,346,727	\$640,896 \$4,477,129	\$660,123 \$4,611,443	\$679,927 \$4,749,786
Windy Gap Payment	\$367,071	\$378,084	\$389,426	\$401,109	\$413,142	\$425,536
Proposed Additions - Priority Based NPE Increase		\$139,319	\$143,499	\$147,804	\$152,238	\$156,805
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$134,392 \$16,911,132	\$138,423 \$17,418,466	\$142,576 \$17,941,020	\$146,853 \$18,479,251	\$151,259 \$19,033,628	\$155,797 \$19,604,637
Debt						
BRWTP 1996 Revenue Bond; Refunding in 2005	\$0	\$0	\$0	\$0	\$0	\$0
Refunding of the 1999 and 2000 Revenue Bonds Lakewood 2001 Rev Bond; Refunded in 2011	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Arbitrage Payment	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
Projected Bond-Betasso WTP Improvements TOTAL DEBT SERVICE	\$1,125,410 \$5,588,500	\$1,125,410 \$5,588,500	\$1,125,410 \$5,588,500	\$1,125,410 \$5,588,500	\$2,552,120 \$7,015,210	\$2,552,120 \$7,015,210
	φυ,υου,υυ	φ3,366,300	φ3,366,300	φ3,386,300	\$7,013,210	\$7,013,210
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
TOTAL TRANSFERS OUT	\$3,462,787	\$3,790,216	\$4,149,824	\$4,544,809	\$4,978,694	\$5,455,348
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$9,502,991	\$12,239,730	\$8,485,178	\$8,977,896	\$10,706,753	\$7,518,158
DDO JECTED DOND, DETACCO WITH IMP	<b>.</b>	Φ0	Φ0		\$14,000 F04	Φ0
PROJECTED BOND - BETASSO WTP IMP PROJECTED BONDS - ISSUANCE COSTS	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$14,808,534 \$125,000	\$0 \$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL USES OF FUNDS	\$35,465,410	\$39,036,913	\$36,164,522	\$37,590,456	\$56,667,820	\$39,593,353
Sick/Vacation Accrual Adjustment	\$134,392	\$138,423	\$142,576	\$146,853	\$151,259	\$155,797
FUND BALANCE - END OF YEAR	\$32,619,307	\$33,759,845	\$39,339,178	\$45,361,378	\$50,633,349	\$58,638,228
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 Lakewood/USFS Damage Claims Reserve	\$23,209,485 \$0	\$23,915,424 \$0	\$24,291,553 \$0	\$25,030,403 \$0	\$25,791,727 \$0	\$26,576,207 \$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
TOTAL RESERVES	\$30,471,980	\$31,255,200	\$33,857,048	\$34,674,780	\$35,515,822	\$36,380,882
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES		\$2,504,646	\$5,482,130	\$10,686,597	\$15,117,527	\$22,257,346
OPERATING RESERVE (Goal: 25% of Operating) CAPITAL RESERVE (Goal: \$2,000,000)	\$5,093,480 \$2,000,000	\$5,302,171 \$2,000,000	\$5,522,711 \$2,000,000	\$5,756,015 \$2,000,000	\$6,003,080 \$2,000,000	\$6,264,996 \$2,000,000
SURPLUS/(DEFICIT) vs. ALL RESERVES	(\$4,946,152)	(\$4,797,525)	(\$2,040,581)	\$2,930,582	\$7,114,446	\$2,000,000 \$13,992,350

<sup>\*</sup> Reserve levels are based on industry standards and ar

-	2028 PROJECTED		2029 PROJECTED		2030 PROJECTED		2031 PROJECTED		2032 PROJECTED	
UNAPPROPRIATED FUND BALANCE	THOULDILD		THOULDILD		THOOLOTED		THOOLOTED		THOOLOTED	
Beginning of Year Fund Balance	\$58,638,228		\$59,380,943		\$68,500,354		\$38,894,800		\$44,934,516	
SOURCES OF FUNDS										
Operating										
Sale of Water to General Cust	\$41,462,729	4.50/	\$43,414,993	4.50/	\$45,459,189	4.50/	\$47,599,647	4.50/	\$49,840,898	4.50/
Projected Rate Increase Bulk/Irrigation Water Sales	\$1,865,823 \$131,750	4.5%	\$1,953,675 \$131,750	4.5%	\$2,045,664 \$131,750	4.5%	\$2,141,984 \$131,750	4.5%	\$2,242,840 \$131,750	4.5%
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	_
TOTAL OPERATING SOURCES OF FUNDS	\$46,196,302		\$48,236,418		\$50,372,603		\$52,609,381		\$54,951,488	
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 State & Federal Grants	\$5,000 \$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		\$0 \$0		\$0 \$0	
Transfer from General Fund - Fire Training Center Projected Bond Proceeds	\$0 \$0		\$0 \$0		\$0 \$19,935,000		\$0 \$0		\$0 \$0	
TOTAL NON-OPERATING SOURCES OF FUNDS	\$3,434,647		\$3,456,928		\$23,665,511	-	\$2,842,344		\$3,023,535	-
TOTAL SOURCES OF FUNDS	#40 COO O40		<b>654 COO OAC</b>		<b>674 000 114</b>		AFE 454 705		<b>#F7.075.004</b>	
TOTAL SOURCES OF FUNDS	\$49,630,949		\$51,693,346		\$74,038,114		\$55,451,725		\$57,975,024	
USES OF FUNDS										
Operating Expenditures										
Administration Planning and Project Management	\$1,315,042 \$921,395		\$1,354,494 \$949,037		\$1,395,129 \$977,508		\$1,436,982 \$1,006,833		\$1,480,092 \$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 \$765,263		\$1,608,521	
Water Conservation System Maintenance	\$700,324 \$4,892,280		\$721,334 \$5,039,048		\$742,974 \$5,190,220		\$5,345,926		\$788,221 \$5,506,304	
Windy Gap Payment	\$438,302		\$451,452		\$464,995		\$478,945		\$493,313	
Proposed Additions - Priority Based NPE Increase	\$161,509		\$166,354		\$171,345		\$176,485		\$181,780	
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$160,471 \$20,192,776		\$165,285 \$20,798,560		\$170,243 \$21,422,516	-	\$175,351 \$22,065,192		\$180,611 \$22,727,148	-
TOTAL OF ENATING OSES OF TONDS	Ψ20,132,770		Ψ20,730,300		Ψ21,422,510		Ψ22,000,102		Ψ22,727,140	
Debt										
BRWTP 1996 Revenue Bond; Refunding in 2005 Refunding of the 1999 and 2000 Revenue Bonds	\$0 \$0									
Lakewood 2001 Rev Bond; Refunded in 2011	\$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	
TOTAL DEBT SERVICE	\$7,015,210		\$7,015,210		\$8,753,185		\$8,753,185		\$8,753,185	
Transfers Out										
Cost Allocation	\$5,657,510		\$6,223,261		\$6,845,587		\$7,530,146		\$8,283,160	
Planning & Development Services Other Transfers	\$321,522 \$0		\$331,168 \$0		\$341,103 \$0		\$351,336 \$0		\$361,876 \$0	
TOTAL TRANSFERS OUT	\$5,979,032		\$6,554,429		\$7,186,690		\$7,881,482		\$8,645,036	-
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$15,861,686		\$8,371,021		\$48,257,987		\$10,887,501		\$10,360,260	
TOTAL GALTIAL GOLD OF TONDO	ψ13,001,000		ψ0,571,021		ψ40,237,307		ψ10,007,501		φ10,300,200	
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	
TOTAL USES OF FUNDS	\$49,048,705		\$42,739,220		\$103,813,911		\$49,587,360		\$50,485,629	
Sick/Vacation Accrual Adjustment	\$160,471		\$165,285		\$170,243		\$175,351		\$180,611	
FUND BALANCE - END OF YEAR	\$59,380,943		\$68,500,354		\$38,894,800		\$44,934,516		\$52,604,522	
B. Carlott B. Carlott										
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 \$1,154,047		\$1,109,738		\$1,143,030		\$1,177,321	
Pay Period 27 - 2013 Reserve TOTAL RESERVES	\$1,103,947 \$37,270,689		\$1,154,947 \$37,778,766		\$1,205,947 \$38,707,963	-	\$1,256,947 \$39,663,859	-	\$1,307,947 \$40,647,264	-
			, , . , . , . , . 00		, , ,		,,0,000			
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES			\$30,721,588		\$186,837		\$5,270,657		\$11,957,258	
OPERATING RESERVE (Goal: 25% of Operating) CAPITAL RESERVE (Goal: \$2,000,000)	\$6,542,952 \$2,000,000		\$6,838,247 \$2,000,000		\$7,152,302 \$2,000,000		\$7,486,668 \$2,000,000		\$7,843,046 \$2,000,000	
SURPLUS/(DEFICIT) vs. ALL RESERVES	\$13,567,301		\$2,000,000		(\$8,965,465)	-	(\$4,216,012)	•	\$2,000,000	-
	,,		, ,,		(,,		(. ,, <b>-</b> )		. ,,	

<sup>\*</sup> Reserve levels are based on industry standards and ar

1	A	В	С	D	E CITY OF B	F OULDER	G	Н	 05-Oct-11	J	K	L	М	N	0	Р	Q
3				2012-2017 (		ROVEMENT P	ROGRAM										
5 6	Assumed Inflation Rate	3.00%	ESTIMATED	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
7 8 9	PROJECT NAME  Treated Water Pressure Reducing and Hydroelec	tric Facilities	2010 COST	ACTUAL	REVISED	PROJECTEDI	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
10 11	Kohler Hydro/PRV Station Maxwell Hydro/PRV Station	411376 411342		\$0 \$0	\$0 \$0	\$0 \$0	\$50,000 \$50,000	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
12 13 14	Orodell Hydro/PRV Station Sunshine Hydro/PRV Station 101 Pearl Street Hydro/PRV Station	411331 411347	\$232,400 \$200,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$261,568	\$0 \$0 \$23,185	\$0 \$0 \$231,855	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$17,774 \$0	\$0 \$0 \$0
16	Subtotal - Treated Water PRV and Hydro  Water Treatment Facilities			\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$261,568	\$23,185	\$231,855	\$0	\$0	\$17,774	\$0
18 19	Betasso WTP - Bond Proceeds	411947		\$74,789 \$0	\$325,211 \$0	\$149,000 \$0	\$200,000 \$0	\$100,000 \$0		\$3,500,030 \$11,653,516	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$6,034,959 \$0	\$0 \$0	\$1,275,126 \$0
20 21 22	Bond Issuance Costs Boulder Reservoir WTP	411652		\$0 \$2,243,791	\$0 \$47,678	\$0 \$80,000	\$0 \$116,000		\$0 \$0 \$0		\$0 \$0	\$350,000 \$0	\$75,000 \$0 \$0	\$75,000 \$258,272	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
	Boulder Res WTP - Bond Proceeds Subtotal - Water Treatment Facilities			\$2,318,580	\$0 \$372,889	\$0 \$229,000	\$0 \$316,000	\$182,000		\$15,442,546	<b>\$0</b> <b>\$0</b>	\$0 \$350,000	\$75,000	\$4,347,647 \$4,680,919	\$6,034,959	\$0	\$1,275,126
25 26	Treated Water Pump Stations Cherryvale Pump Station	411010		\$322,532	\$0	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0	\$0
27 28 29	Boulder Reservoir WTP High Service Pump Sta Iris Pump Stations Subtotal - Treated Water Pump Stations	411011 411012		\$0 \$61,152 \$383,684	\$0 \$0 \$0	\$50,000 \$0 \$50,000	\$112,800 \$0 \$112,800	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
30 31	Treated Water Storage Tanks	444070		200 400	045.050	40		40	40						40		
32 33 34	Gunbarrel Storage Tank Maxwell Storage Tank Booten Storage Tank	411670 411673		\$32,136 \$0 \$0	\$15,950 \$0 \$0	\$0 \$0 \$0	\$265,798 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
35 36 37	Devil's Thumb Storage Tank Kohler Storage Tank	411674 411671	\$920,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$100,531	\$0 \$1,005,309	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
38 39	Chautauqua Storage Tank Betasso Storage Tank Boulder Reservoir Storage Tank	411672	\$785,000 \$250,000	\$0 \$0 \$0	\$870,779 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$2,000,000 \$0 \$0	\$0 \$0 \$0
40 41	Subtotal - Treated Water Storage Tanks			\$32,136	\$886,729	\$0	\$265,798	\$0		\$1,005,309		\$0	\$0	\$0	\$0		\$0
43 44	Treated Water Distribution System Zone Isolation Valves Cathodic Protection	411390 411387		\$0 \$18,569	\$0 \$113,501	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
45 46 47	Waterline Replacement Subtotal - Treated Water Distribution System	411389		\$3,074,412 \$3,092,981	\$2,458,289	\$2,100,000 \$2,100,000	\$2,100,000 \$2,100,000	\$2,163,000 \$2,163,000	\$2,227,890 \$2,227,890		\$2,363,569 \$2,363,569	\$2,434,476 \$2,434,476	\$2,507,510 \$2,507,510	\$5,273,084 \$5,273,084	\$5,431,277 \$5,431,277	\$5,594,215	\$5,762,041 \$5,762,041
48 49	Treated Water Transmission System Sunshine Transmission Pipe	411006		\$0	\$0	\$0	\$800,000	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0
50 51 52	Boulder Canyon - Orodell to Fourmile Pipe Mountain Transmission Pipes Zone 1 Transmission Pipes	411007 411007 411002		\$0 \$0 \$0	\$500,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$1,825,006 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
53 54	Zone 2 Transmission Pipes Zone 3 Transmission Pipes Zone 3 Transmission Pipes	411002 411004 411005		\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0
55 56	Subtotal - Treated Water Transmission System  Source Water Transmission System			\$0	\$500,000	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,825,006	\$0	\$0	\$0
58 59	Lakewood Pipeline Silver Lake Pipeline	411780 411640		\$216,490 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$257,500 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$298,513 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
60 61 62	Source Water Transmission Pipe Inspections Subtotal - Source Water Transmission System	411775		\$0 \$216,490	\$0 \$0	\$80,000 \$80,000	\$0 \$0	\$0 \$257,500	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$298,513	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
63 64 65	Barker Water System Barker Gravity Pipeline Repair Barker-Kossler Penstock Repair	411106 411107	\$20,000,000 \$100,000	\$107,639 \$0	\$733,639 \$0	\$350,000 \$175,000	\$350,000 \$0	\$360,500 \$0	\$371,315 \$0	\$382,454 \$0	\$589,961 \$112,551	\$607,660 \$0	\$625,890 \$0	\$644,666 \$0	\$664,006 \$0	\$683,926 \$0	\$704,444 \$0
66 67	Barker Dam Outlet - Bond Proceeds	411109	\$7,055,000	\$0 \$0	\$0 \$0	\$0 <b>\$0</b>	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$7,360,811	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 <b>\$0</b>
68 69 70	Barker Dam and Reservoir Barker Hydro System Integration Barker Relicensing	411110 411111 411112	\$350,000	\$0 \$16 \$47,826	\$120,000 \$0 \$570,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$371,315 \$0 \$0	\$0 \$0 \$253,354	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
71 72 73	Barker Instream Flow Release Betasso Penstock	411114 411940		\$8,645 \$253,465	\$139,359 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
	Kossler Reservoir Subtotal - Barker Water System	411119		\$70,626 \$488,217	\$864,712 \$2,427,710	\$0 \$525,000	\$300,000 \$650,000	\$0 \$360,500	\$0 \$742,630		\$0 \$1,438,593	\$0 \$7,968,470	\$0 \$625,890	\$0 \$644,666	\$0 \$664,006	\$0 \$683,926	\$0 \$704,444
77	Raw Water Storage Reservoirs Albion Dam		\$3,075,000	\$0	\$0	\$0	\$0	\$0	\$79,568	\$0		\$0	\$0	\$0	\$0	\$362,857	\$3,628,574
78 79 80	Silver Lake Dam Island Lake Dam Green Lake 1 Dam	411626		\$0 \$13,002 \$0	\$0 \$148,892 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
81 82	Green Lake 2 Dam Green Lake 3 Dam	411627	\$3,875,000	\$0 \$0	\$0 \$0	\$0 \$0	\$75,000 \$0	\$0 \$0	\$0 \$0	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	\$408,366 \$0	\$4,083,659 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
83 84 85	Goose Lake Dam  Boulder Reservoir  Lakewood Reservoir	411612 411981	\$90,000 \$102,500	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0	\$0 \$0 \$118,826	\$0 \$0 \$0	\$0 \$110,689 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
86 87	Skyscraper Dam Wittemyer Ponds		125,000 4,000,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$144,909 \$429,859	\$0 \$4,298,588	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
89	Subtotal - Raw Water Storage Reservoirs  Other Raw Water Facilities			\$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
91 92	Farmer's Ditch Anderson Ditch	411550 411883		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$106,090 \$0	\$0 \$0	\$0 \$0		\$0 \$0
93 94 95	Watershed Improvements Nederland WWTP Instream Flow Structures and Gaging	411770 411565 411549	\$440,500	\$0 \$0 \$0	\$290,500 \$370,000 \$50,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$79,568 \$0 \$0	\$0 \$0 \$0	\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$92,241 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
95 96 97	Como Creek Diversion Structure  Lakewood Diversion Structure	411549		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
98 99 100	Silver Lake Diversion Structure  NCWCD Conveyance - Boulder Feeder Canal  NCWCD Conveyance - Carter Lake Pipeline	411546 411547		\$0 \$0 \$3,531	\$0 \$92,468 \$989,455	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
101 102	NCWCD Conveyance - Carter Lake Pipeline NCWCD Conveyance - Bond Proceeds Subtotal - Other Raw Water Facilities	-1104/	\$25,000,000	\$3,531 \$0 \$3,531	\$989,455 \$0 \$1,792,423	\$0 \$0	\$0 <b>\$0</b> \$0	\$0	\$0	\$0	\$2,608,367 \$0 \$2,608,367	\$26,083,667	\$0 \$106,090	\$0 \$0 \$92,241	\$0 <b>\$0</b> \$0	\$0	\$0 \$0 \$0
103 104 105			:	***	00	00	•	\$100 CCC	0.0	00	0.0	60	<b>\$200.000</b>	00	**	***	
106 107	Lakewood Hydroelectric/PRV Silver Lake Hydroelectric/PRV Boulder Reservoir Intake and Pumping	411801 411970 411655		\$0 \$0 \$29,819	\$0 \$0 \$197,583	\$0 \$100,000 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0	\$0 \$0 \$0	\$300,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
108 109 110	Betasso Hydro PRV Station Barker Dam Hydro	411974	<b>\$0.000.000</b>	\$215,286 \$0	\$28,967 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$0	\$0 \$344,304	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
111 112	Barker Dam Hydro - Bond Proceeds Boulder Canyon Hydro Boulder Canyon Hydro - Grant	411975 411976	\$3,300,000	\$0 \$262,960 \$273,118	\$0 \$3,711,240 \$907,681	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$3,443,044 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
113 114 115	Carter Lake Hydro Carter Lake Hydro - Bond Proceeds		Facility Debath	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$250,000 \$0 \$170,439	\$0 \$2,500,000 \$175,553	\$0 \$0 \$180.819	\$0 \$0 \$186,244	\$0 \$0 \$191.831	\$0 \$0 \$197,586
116 117	Source Water Pressure Reducing, Pumping and Subtotal - Source Water PRV, Pumping and Hydr		acmy nenab	\$0 \$781,183	\$0 \$4,845,471	\$0 \$100,000	\$0 \$0		\$0			\$1,70,439 \$3,863,483	\$1/5,553 \$2,975,553	\$180,819 \$180,819	\$186,244 \$186,244	\$191,831 \$191,831	\$197,586 \$197,586
119	Water Distribution System Expansion Annexation Related Water System Expansion	411433		\$375,474	\$149,155	\$0	\$0	\$0	\$0			\$0	\$0	\$0	\$0	\$0	\$0
120 121 122	Subtotal - Water Distribution System Expansion  Water System Monitoring and Metering			\$375,474	\$149,155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
123 124	Automated Meter Reading Water System Security Upgrades	411454 411440	\$500,000	\$530,450 \$93,200	\$546,364 \$107,315	\$562,754 \$100,000	\$579,637 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0 \$0	\$597,026 \$0	\$614,937 \$0	\$633,385 \$0	\$652,387 \$0	\$671,958 \$0
125 126 127	Distribution System Water Quality Data Communications System Yards Master Plan Implementation	411425 411435 411039		\$200,696 \$0 \$3,104	\$148,646 \$0 \$100,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0		\$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
128 129	Utility Billing Computer System Replacement Subtotal - Water System Monitoring and Metering	411453		\$3,104 \$333 \$827,783	\$28,771 \$931,096	\$0 \$0 \$662,754	\$0 \$0 \$579,637	\$0 \$0 \$0	\$0 \$0 \$0		\$500,000	\$0 \$0 \$0	\$0 \$597,026	\$0 \$0 \$614,937	\$0 \$0 \$633,385	\$0 \$652,387	\$0 \$0 \$671,958
130 131	TOTAL CAPITAL USES OF FUNDS			\$8,533,061	\$14,626,155	\$3,746,754	\$4,999,235	\$3,063,000	\$4,395,537	\$19,478,390	\$7,963,253	\$41,825,241	\$15,799,683	\$13,422,361	\$12,949,871	\$9,502,991	\$12,239,730

Second Content   Seco			-	-	0	-		.,,				-	
Property of the control of the con		A	В	н	5	l	U	V	VV	X	Y	Ζ	AA
March   Marc	3												
Section   Property	5	Accumed Inflation Data	2 000/	2024	2025	2026	2027	2020	2020	2020	2021	2022	
Section   Company   Comp	7		3.00%										TOTAL
March Angelet Class	9				40	0.9	\$0	¢500 111	0.9	¢71 101	0.9	***	\$720,202
Section   Communication   Co	11	Maxwell Hydro/PRV Station	411342	\$0	\$0	\$311,040	\$0	\$30,110	\$0	\$45,961	\$6,971	\$0	\$444,082
Second   Property   Second	13	Sunshine Hydro/PRV Station		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$282,821	\$279,342
Secret Number   Secret Numbe	15												
Section	17		111017	01.075.100	0011100	4050 500	40	04.740.047		#11 007 0F1	054.500	40	001 100 501
Security Property of the Company o	19	Betasso WTP - Bond Proceeds	411947	\$0	\$0	\$14,808,534	\$0	\$0	\$0	\$0	\$0	\$0	\$26,462,051
20   Professor Number Professor   20	21	Boulder Reservoir WTP	411652	\$0	\$0	\$0	\$17,687	\$2,344,117	\$12,595	\$4,617,819	\$30,689	\$0	\$10,014,648
Transfer Service   1	23												
25	25												
Comparison   Com	27	Boulder Reservoir WTP High Service Pump Sta	411011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$162,800
	29		411012										
State   Property   P	31												
Section   Company   Comp	33	Maxwell Storage Tank		\$0	\$0	\$488,507	\$0	\$0	\$0	\$0	\$0	\$0	\$488,507
2000   100	35	Devil's Thumb Storage Tank		\$0	\$0	\$2,374,610	\$0	\$0	\$0	\$0	\$0	\$0	\$2,374,610
1982   December Recognition   1992   1992   1993   1994   1995	37	Chautauqua Storage Tank		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,870,779
Company   Comp	39	Boulder Reservoir Storage Tank		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Color	41			\$0	\$0	\$2,863,116	\$0	\$452,518	\$0	\$0	\$122,015	\$0	\$8,009,529
State   Stat	43	Zone Isolation Valves											
27	45	Waterline Replacement		\$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
40	47			\$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
State   Continue   C	49	Sunshine Transmission Pipe											
State   Continue Property   Continue Propert	51	Mountain Transmission Pipes	411007	\$0	\$0	\$0	\$0	\$0	\$0	\$5,850,447	\$0	\$0	\$7,675,453
Second Francisco Pyrems	53	Zone 2 Transmission Pipes	411004	\$0	\$0	\$0	\$0	\$0	\$0	\$1,770,436	\$0	\$0	\$1,770,436
Section   Sect	55		411005										
Separate Processing	57			****			-						4.5.0
Selection   Source Water Transmission System   SS46656   50   30   30   30   4501,177   50   50   50   31,987,387	59	Silver Lake Pipeline	411640	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
State   Stat	61		4117/5										
Sear   Comment   Comment	63		444400	A705 570	<b>A747.045</b>	A700 705	#700.0F0	2010 011	0044.440	*************	#000 000		\$40,000,400
Fig.   Beric Cart Culter - Double - D	65	Barker-Kossler Penstock Repair	411107	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$287,551
60   Barke Hydro System Integration	67	Barker Dam Outlet - Bond Proceeds		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,360,811
The Basic Internation   From Pelacese   41114    50   50   50   50   50   50   50	69	Barker Hydro System Integration	411111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16
	71	Barker Instream Flow Release	411114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$148,004
Part	73	Kossler Reservoir		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,235,338
77   Albon Dam	75	•		4: ==,0:0	***************************************	<b>V</b> . <b>S</b>	*:,			***************************************	, , , , , , , , , , , , , , , , , , ,	-	*==,=::,=:=
The first of the	77	Albion Dam											
Bit   Green Lake 2 Dam	79	Island Lake Dam	411626	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$161,894
A	81	Green Lake 2 Dam	411627	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,567,025
All-bewood Reservoir	83	Goose Lake Dam	411612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Wiltemyer Ponds   Subtotal - New Water Storage Reservoirs   Su   Su   Su   Su   Su   Su   Su   S	85	Lakewood Reservoir	411981	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$118,826
89   Other Raw Water Facilities	87	Wittemyer Ponds		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,728,447
91 Farmer's Ditch 91 Farmer's Ditch 91 Farmer's Ditch 92 Andreanon Ditch 93 Watershed Improvements 94 11770 S0	89			ΨΟ	Ψ	ΨΟ	ΨΟ	ψ	ΨΟ	ΨΟ	ψ	ΨΟ	Ţ.2,002,700
Matershed Improvements	91	Farmer's Ditch											
Second   S	93	Watershed Improvements	411770	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$462,308
Second Diversion Structure	95	Instream Flow Structures and Gaging	411549	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
99 NCWCD Conveyance - Boulder Feeder Canal 411546	97	Lakewood Diversion Structure	+11048	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NCWCD Conveyance - Bond Proceeds	99	NCWCD Conveyance - Boulder Feeder Canal		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$92,468
103	101	NCWCD Conveyance - Bond Proceeds	71104/	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,083,667
105   Lakewood Hydroelectric/PRV	103		Uvdraalaatri		ΨΟ	ΨΟ	ΨΟ	φυ	φυ	ΨΟ	φυ	ΨΟ	ψου,700,000
107   Boulder Reservoir Intake and Pumping	105	Lakewood Hydroelectric/PRV	411801	\$0									\$400,000
109   Barker Dam Hydro   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$	107	Boulder Reservoir Intake and Pumping	411655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$227,402
Substitution   System Expansion   System Expansio	109	Barker Dam Hydro	4119/4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$344,304
113	111	Boulder Canyon Hydro		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,974,200
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	113	Carter Lake Hydro	711370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
117	115	Source Water Pressure Reducing, Pumping and		\$203,514	\$209,619	\$215,907	\$222,385	\$229,056	\$235,928	\$243,006	\$250,296	\$257,805	\$3,077,657
119	117			Ψ200,014	Ψ203,013	Ψ210,007	ΨΕΕΕ,000	ΨΣΕΟ,000	Ψ200,320	Ψ240,000	ΨΕΟΟ,ΕΟΟ	Ψ207,000	ψ0,000,200
121	119	Annexation Related Water System Expansion	411433										
123	121			ΦU	\$0	ΦU	ΦU	\$0	\$0	ΦU	\$0	ΦU	φυ24,029
125         Distribution System Water Quality         411425         \$0         \$0         \$0         \$0         \$0         \$0         \$349,342           126         Data Communications System         411435         \$0	123	Automated Meter Reading											
127     Yards Master Plan Implementation     411039     \$0     \$0     \$0     \$0     \$0     \$0     \$0     \$103,104       128     Utility Billing Computer System Replacement     411453     \$0	125	Distribution System Water Quality	411425	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$349,342
129 Subtotal - Water System Monitoring and Metering \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$6,670,963	127	Yards Master Plan Implementation	411039	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$103,104
	129												
		TOTAL CAPITAL USES OF FUNDS		\$8,485,178	\$8,977,896	\$25,640,288	\$7,518,158	\$15,861,686	\$8,371,021	\$66,451,520	\$10,887,501	\$10,360,260	\$317,730,055

## Vision Plan

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

_							VISION PLAN					
	2010		2011		2012		2013		2014		2015	
<u> </u>	ACTUAL		REVISED		PROPOSED		PROJECTED		PROJECTED		PROJECTED	
UNAPPROPRIATED FUND BALANCE												
Beginning of Year Fund Balance	\$42,650,247		\$37,649,542		\$27,191,770		\$27,455,195		\$26,893,077		\$28,923,996	
00110000 05 511100												
SOURCES OF FUNDS Operating												
-1	<b>010 010 100</b>		£10 E10 000		¢00 140 C07		<b>\$00.704.050</b>		CO1 400 007		<b>\$00 F70 C00</b>	
Sale of Water to General Cust	\$18,816,163	0%	\$19,516,608 \$585,498	00/	\$20,148,607	00/	\$20,794,356	00/	\$21,460,807	00/	\$22,578,699	E 00/
Projected Rate Increase	\$0 \$171.050	0%	\$585,498 \$120,700	3%	\$604,458 \$150,100	3%	\$623,831 \$138,750	3%	\$1,073,040	1.0%	\$1,128,935 \$131,750	5.0%
Bulk/Irrigation Water Sales	\$171,058 \$2,464,973		\$2,605,000				\$2,711,000		\$129,750 \$2,711,000		\$2,711,000	
Hydroelectric Revenue Miscellaneous Operating Revenues			\$2,605,000		\$2,293,000 \$25,000		\$2,711,000		\$25,000		\$2,711,000	
TOTAL OPERATING SOURCES OF FUNDS	\$118,307 \$21,570,501		\$22,852,806		\$23,221,166		\$24,292,936		\$25,399,597		\$26,575,384	
TOTAL OF LATING SOUNCES OF TONDS	φ21,370,301		φ22,032,000		φ23,221,100		\$24,232,330		φ25,599,597		φ20,575,364	
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	
TOTAL NON-OPERATING SOURCES OF FUNDS	\$3,042,422		\$22,144,148		\$2,439,141		\$2,316,389		\$2,440,112		\$2,636,005	
TOTAL SOURCES OF FUNDS	\$24,612,923		\$44,996,954		\$25,660,307		\$26,609,325		\$27,839,709		\$29,211,389	
TOTAL SOUNCES OF FUNDS	\$24,012,923		<b>444,330,334</b>		\$25,000,307		\$20,009,323		\$21,039,109		\$29,211,309	
USES OF FUNDS												
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	
Proposed Additions - Priority Based NPE Increase	\$0		\$0		\$100,647		\$103,666		\$106,776		\$109,980	
Sick/Vacation Accrual	(\$29,562)		\$100,000		\$100,000		\$103,000		\$106,090		\$109,273	
TOTAL OPERATING USES OF FUNDS	\$13,456,689		\$14,795,723		\$14,905,141		\$15,290,964		\$15,712,402		\$16,223,640	
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 \$0		\$0 \$0		\$0	
TOTAL DEBT SERVICE	\$6,272,311		\$24,697,108		\$5,413,386		\$5,423,509		\$5,437,115		\$5,445,496	
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	
TOTAL TRANSFERS OUT	\$1,322,005		\$1,348,452		\$1,431,601		\$1,560,736		\$1,702,363		\$1,857,720	
Conital Improvements Brogram												
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$8,533,061		\$6,071,864		\$3,746,754		\$4,999,235		\$3.063.000		\$4,395,537	
TOTAL DALTTAL DOLD OF TONDO	ψ0,000,001		ψ0,071,004		ψ5,7 +0,7 5+		ψ+,333,233		ψ5,005,000		ψ+,000,007	
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	
TOTAL HOES OF FUNDS	*** ***		AFF FF4 700		405 400 000		****		405.044.000		****	
TOTAL USES OF FUNDS	\$29,584,066		\$55,554,726		\$25,496,882		\$27,274,444		\$25,914,880		\$27,922,394	
Sick/Vacation Accrual Adjustment	(\$29,562)		\$100,000		\$100,000		\$103,000		\$106,090		\$109,273	
FUND BALANCE - END OF YEAR	\$37,649,542		\$27,191,770		\$27,455,195		\$26,893,077		\$28,923,996		\$30,322,264	
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		\$10,500,081	
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	
TOTAL RESERVES	\$16,782,968		\$17,242,143		\$18,179,718		\$19,044,250		\$19,775,174		\$20,788,156	
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES			\$9,949,627		\$9,275,477		\$7,848,826		\$9,148,822		\$9,534,108	
OPERATING RESERVE (Goal: 25% of Operating)	\$3,694,674		\$4,036,044		\$4,084,185		\$4,212,925		\$4,353,691		\$4,520,340	
CAPITAL RESERVE (Goal: \$2,000,000)	\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000	
SURPLUS/(DEFICIT) vs. ALL RESERVES	\$15,171,901		\$3,913,583		\$3,191,292		\$1,635,902		\$2,795,131		\$3,013,768	

<sup>\*</sup> 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

	2016		2017	1	2018		2019		2020		2021	
UNAPPROPRIATED FUND BALANCE	PROJECTED		PROJECTED	J	PROJECTED		PROJECTED		PROJECTED		PROJECTED	
Beginning of Year Fund Balance	\$30,322,264		\$27,900,696		\$26,912,849		\$31,983,898		\$29,434,070		\$28,774,383	
SOURCES OF FUNDS												
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	5.0%		5.0%		5.0%		5.0%	* / - /	5.0%
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 TOTAL OPERATING SOURCES OF FUNDS	\$25,000 \$27,810,325		\$25,000 \$29,109,606	-	\$25,000 \$30,476,580		\$25,000 \$31,914,773		\$25,000 \$33,427,896	,	\$25,000 \$35,019,853	-
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 Interest on Investments	\$0 \$909,668		\$0 \$837,021		\$0 \$807,385		\$0 \$959,517		\$0 \$883,022		\$0 \$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 Projected Bond Proceeds	\$92,785 \$12,910,000		\$92,785 \$0		\$92,785 \$40,780,000		\$92,785 \$5,565,000		\$92,785 \$4,850,000		\$92,785 \$0	
TOTAL NON-OPERATING SOURCES OF FUNDS	\$15,587,953		\$2,605,306	-	\$43,355,670		\$8,292,802		\$7,501,307	,	\$2,631,516	-
TOTAL SOURCES OF FUNDS	\$43,398,278		\$31,714,912		\$73,832,250		\$40,207,575		\$40,929,203		\$37,651,370	
USES OF FUNDS												
Operating Expenditures	000: 00=		00=0 01=		<b>A022 12</b>		<b>44.0</b> 4.0.00		<b>A.</b> A :		A4 000 000	
Administration Planning and Project Management	\$931,697 \$646,999		\$959,648 \$666.409		\$988,438 \$686,401		\$1,018,091 \$706,993		\$1,048,634 \$728,203		\$1,080,093 \$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 System Maintenance	\$491,096 \$3,449,637		\$505,828 \$3,553,126		\$521,003 \$3,659,720		\$536,633 \$3,769,512		\$552,732 \$3,882,597		\$569,314 \$3,999,075	
Windy Gap Payment	\$2,776,959		\$2,341,075		\$336,000		\$341,000		\$346,000		\$356,380	
Proposed Additions - Priority Based NPE Increase			\$116,677		\$120,178		\$123,783		\$127,497		\$131,322	
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$112,551 \$16,691,884		\$115,927 \$16,673,448	-	\$119,405 \$15,098,344		\$122,987 \$15,546,215		\$126,677 \$16,007,371		\$130,477 \$16,487,592	-
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 Projected Bond-Betasso WTP Improvements	\$0 \$1,125,410		\$0 \$1,125,410		\$0 \$1,125,410		\$0 \$1,125,410		\$0 \$1,125,410		\$0 \$1,125,410	
TOTAL DEBT SERVICE	\$6,567,279		\$5,714,976	-	\$9,277,198		\$8,621,589		\$7,669,867		\$7,677,383	
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 Other Transfers	\$225,509		\$232,274		\$239,242		\$246,420		\$253,812		\$261,427	
TOTAL TRANSFERS OUT	\$2,028,166		\$0 \$2,215,197	-	\$2,420,457		\$0 \$2,645,756		\$0 \$2,893,082		\$0 \$3,164,624	
Capital Improvements Program												
TOTAL CAPITAL USES OF FUNDS	\$8,866,551		\$8,215,065		\$4,847,086		\$13,491,830		\$10,722,599		\$16,020,837	
PROJECTED BOND - BETASSO WTP IMP	\$11,653,516		\$0		\$0		\$0		\$0		\$0	
PROJECTED BONDS - ISSUANCE COSTS ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$125,000 \$0		\$0 \$0		\$350,000 \$0		\$75,000 \$0		\$75,000 \$0		\$0 \$0	
TOTAL USES OF FUNDS	\$45,932,396		\$32,818,686		\$68,880,607		\$42,880,390		\$41,715,567		\$43,350,436	
Sick/Vacation Accrual Adjustment	\$112,551		\$115,927		\$119,405		\$122,987		\$126,677		\$130,477	
FUND BALANCE - END OF YEAR	\$27,900,696		\$26,912,849		\$31,983,898		\$29,434,070		\$28,774,383		\$23,205,794	
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 Vacation/Sick/Bonus Liability	\$0		\$0 \$755.679		\$0 \$778,348		\$0		\$0 \$825,749		\$0	
Pay Period 27 - 2013 Reserve	\$733,668 \$491,947		\$755,678 \$542,947		\$778,348 \$593,947		\$801,698 \$644,947		\$825,749 \$695,947		\$850,522 \$746,947	
TOTAL RESERVES	\$22,955,800		\$23,174,806	-	\$27,833,302		\$29,150,920		\$30,732,940		\$31,925,826	•
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES	\$4,944,896		\$3,738,043		\$4,150,595		\$283,149		(\$1,958,557)		(\$8,720,032)	
OPERATING RESERVE (Goal: 25% of Operating)	\$4,680,013		\$4,722,161		\$4,379,700		\$4,547,993		\$4,725,113		\$4,913,054	
CAPITAL RESERVE (Goal: \$2,000,000)	\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000		\$2,000,000	-
SURPLUS/(DEFICIT) vs. ALL RESERVES	(\$1,735,116)		(\$2,984,119)		(\$2,229,105)		(\$6,264,843)		(\$8,683,670)		(\$15,633,086)	

<sup>\*</sup> Reserve levels are based on industry standards and ar.

	2022 PROJECTED	2023 PROJECTE	2024 D PROJECTE	2025 D PROJECTED	2026 PROJECTED	2027 PROJECTED
UNAPPROPRIATED FUND BALANCE Beginning of Year Fund Balance	\$23,205,794	\$25,865,88			\$36,974,001	\$41,471,160
	Ψ20,200,704	Ψ20,000,00	Ψ20,040,477	ψο 1,4-40,000	ψου,σ74,001	ψτ1,τ71,100
SOURCES OF FUNDS Operating						
Sale of Water to General Cust	\$32,216,191	\$33,894,43			\$39,472,261	\$41,528,550
Projected Rate Increase	\$1,610,810					
Bulk/Irrigation Water Sales Hydroelectric Revenue	\$131,750 \$2,711,000	\$131,75 \$2,711,00			\$131,750 \$2,711,000	\$131,750 \$2,711,000
Miscellaneous Operating Revenues	\$25,000	\$25,00			\$25,000	\$25,000
TOTAL OPERATING SOURCES OF FUNDS	\$36,694,751	\$38,456,91	1 \$40,310,879	\$42,261,440	\$44,313,624	\$46,472,727
Non-Operating	A4 500 000	<b>#4 500 00</b>		A4 500 000	<b>#4 500 000</b>	<b>#4 500 000</b>
Plant Investment Fees Connection Charges	\$1,500,000 \$150,000	\$1,500,00 \$150,00			\$1,500,000 \$150,000	\$1,500,000 \$150,000
Special Assessments	\$5,000	\$5,00			\$5,000	\$5,000
State & Federal Grants	\$0	\$			\$0	\$0
Interest on Investments	\$696,174	\$775,97		* /	\$1,109,220	\$1,244,135
Rent, assessments and other misc revenues Sale of Real Estate - Yards Masterplan	\$20,500 \$0	\$20,50 \$			\$20,500 \$0	\$20,500 \$0
Transfer from General Fund - Fire Training Center	\$92,785	\$92,78			\$0	\$0
Projected Bond Proceeds	\$0		0 \$0		\$16,365,000	\$0
TOTAL NON-OPERATING SOURCES OF FUNDS	\$2,464,459	\$2,544,26	1 \$2,465,894	\$2,618,799	\$19,149,720	\$2,919,635
TOTAL SOURCES OF FUNDS	\$39,159,210	\$41,001,17	2 \$42,776,774	\$44,880,239	\$63,463,344	\$49,392,362
USES OF FUNDS Operating Expenditures						
Administration	\$1,112,495	\$1,145,87	0 \$1,180,246	\$1,215,654	\$1,252,123	\$1,289,687
Planning and Project Management	\$772,550	\$795,72			\$869,512	\$895,598
Water Resources and Hydroelectric Operations	\$2,707,295	\$2,788,51			\$3,047,085	\$3,138,497
Water Treatment Water Quality & Environmental Svcs	\$5,845,871 \$1,201,843	\$6,021,24 \$1,237,89			\$6,579,579 \$1,352,685	\$6,776,967 \$1,393,265
Water Conservation	\$586,394	\$603,98			\$659,991	\$679,791
System Maintenance	\$4,119,047	\$4,242,61			\$4,636,024	\$4,775,105
Windy Gap Payment	\$367,071	\$378,08			\$413,142 \$152.238	\$425,536
Proposed Additions - Priority Based NPE Increase Sick/Vacation Accrual	\$135,261 \$134,392	\$139,31 \$138,42			\$152,238 \$151,259	\$156,805 \$155,797
TOTAL OPERATING USES OF FUNDS	\$16,982,220	\$17,491,68				\$19,687,047
Debt-	<b>#</b> 0	<b>.</b>	0 0		<b>#</b> 0	Φ0
BRWTP 1996 Revenue Bond; Refunding in 2005 Refunding of the 1999 and 2000 Revenue Bonds	\$0 \$0	\$ \$			\$0 \$0	\$0 \$0
Lakewood 2001 Rev Bond; Refunded in 2011	\$0	\$			\$0	\$0
Arbitrage Payment	\$0	\$			\$0	\$0
Projected Bond-Betasso WTP Improvements TOTAL DEBT SERVICE	\$1,125,410 \$5,588,500	\$1,125,41 \$5,588,50			\$2,552,120 \$7,015,210	\$2,552,120 \$7,015,210
Transfers Out						
Cost Allocation	\$3,193,517	\$3,512,86	9 \$3,864,155	\$4,250,571	\$4,675,628	\$5,143,191
Planning & Development Services	\$269,269	\$277,34			\$303,065	\$312,157
Other Transfers TOTAL TRANSFERS OUT	\$0 \$3,462,786	\$3.790.21			\$0 \$4,978,693	\$0 \$5,455,348
	φο, ιου, ιου	ψο,,, σο,,Σ.	ψ.,ο,οΣο	ψ 1,0 1 1,000	ψ 1,07 0,000	φο, 100,010
Capital Improvements Program TOTAL CAPITAL USES OF FUNDS	\$10,600,008	\$13,788,59	8 \$10,067,760	\$10,806,157	\$13,076,368	\$8,788,929
PROJECTED BOND - BETASSO WTP IMP	\$0	\$	0 \$0	\$0	\$14,808,534	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$			\$125,000	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$	0 \$0	\$0	\$0	\$0
TOTAL USES OF FUNDS	\$36,633,515	\$40,659,00	0 \$37,822,521	\$39,496,396	\$59,117,444	\$40,946,534
Sick/Vacation Accrual Adjustment	\$134,392	\$138,42	3 \$142,576	\$146,853	\$151,259	\$155,797
FUND BALANCE - END OF YEAR	\$25,865,881	\$26,346,47	7 \$31,443,305	\$36,974,001	\$41,471,160	\$50,072,784
Designated Reserves -	A	A			<b>_</b>	<b>A. .</b>
Bond Reserves	\$5,588,510	\$5,588,51 \$23,915,42			\$7,736,160 \$25,701,727	\$7,736,160 \$26,576,207
Lakewood Pipeline Remediation Reserve Lakewood/USFS Damage Claims Reserve	\$23,209,485 \$0		4 \$24,291,553 0 \$0		\$25,791,727 \$0	\$26,576,207 \$0
Vacation/Sick/Bonus Liability	\$876,037	\$902,31	9 \$929,388	\$957,270	\$985,988	\$1,015,567
Pay Period 27 - 2013 Reserve	\$797,947	\$848,94				\$1,052,947
TOTAL RESERVES	\$30,471,980	\$31,255,20	0 \$33,857,048	\$34,674,780	\$35,515,822	\$36,380,882
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES OPERATING RESERVE (Goal: 25% of Operating)	\$5,111,252	(\$4,908,72 \$5,320,47	6 \$5,541,565	\$5,775,435	\$5,955,338 \$6,023,083	\$13,691,903 \$6,285,599
CAPITAL RESERVE (Goal: \$2,000,000) SURPLUS/(DEFICIT) vs. ALL RESERVES	\$2,000,000 (\$11,717,350)	\$2,000,00 (\$12,229,19				\$2,000,000 \$5,406,304

<sup>\*</sup> Reserve levels are based on industry standards and ar

	2028	2029	2030	2031	2032
UNAPPROPRIATED FUND BALANCE	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
Beginning of Year Fund Balance	\$50,072,784	\$49,006,782	\$59,279,280	\$18,260,201	\$25,459,689
3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*,- , -	, .,,	*, -,	, ,, ,, ,	, ,, ,,,,,,
SOURCES OF FUNDS					
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				
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
TOTAL OPERATING SOURCES OF FUNDS	\$48,744,320	\$51,134,262	\$53,648,721	\$56,294,183	\$59,077,473
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 State & Federal Grants	\$5,000 \$0	\$5,000 \$0	* - /	\$5,000 \$0	\$5,000 \$0
Interest on Investments	\$1,502,184	\$1,470,203		\$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
Projected Bond Proceeds TOTAL NON-OPERATING SOURCES OF FUNDS	\$3,177,684	\$0 \$3,145,703		\$0 \$2,223,306	\$0 \$2,439,291
TOTAL SOURCES OF FUNDS	\$51,922,003	\$54,279,966	\$77,037,599	\$58,517,489	\$61,516,764
USES OF FUNDS					
Operating Expenditures		4	<u>.</u> .	4	<b>.</b>
Administration	\$1,328,378	\$1,368,229	\$1,409,276	\$1,451,554	\$1,495,101
Planning and Project Management Water Resources and Hydroelectric Operations	\$922,465 \$3,232,652	\$950,139 \$3,329,632	\$978,644 \$3,429,521	\$1,008,003 \$3,532,406	\$1,038,243 \$3,638,379
Water Treatment	\$6,980,276	\$7,189,684		\$7,627,536	\$7,856,362
Water Quality & Environmental Svcs	\$1,435,063	\$1,478,115		\$1,568,132	\$1,615,176
Water Conservation	\$700,185	\$721,190		\$765,111	\$788,064
System Maintenance	\$4,918,358	\$5,065,909		\$5,374,422	\$5,535,655
Windy Gap Payment	\$438,302	\$451,452	\$464,995	\$478,945	\$493,313
Proposed Additions - Priority Based NPE Increase		\$166,354	\$171,345	\$176,485	\$181,780
Sick/Vacation Accrual TOTAL OPERATING USES OF FUNDS	\$160,471 \$20,277,659	\$165,285 \$20,885,989		\$175,351 \$22,157,945	\$180,611 \$22,822,684
5.1.					
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	\$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
TOTAL DEBT SERVICE	\$7,015,210	\$7,015,210	\$8,753,185	\$8,753,185	\$8,753,185
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 TOTAL TRANSFERS OUT	\$0	\$0	\$0	\$0	\$0
TOTAL TRANSFERS OUT	\$5,979,032	\$6,554,428	\$7,186,690	\$7,881,481	\$8,645,036
Capital Improvements Program			*** ***	*	4
TOTAL CAPITAL USES OF FUNDS	\$19,876,575	\$9,717,126	\$62,580,946	\$12,700,740	\$11,943,274
PROJECTED BOND - BETASSO WTP IMP	\$0	\$0	\$0	\$0	\$0
PROJECTED BONDS - ISSUANCE COSTS	\$0	\$0	,	\$0	\$0
ENCUMBRANCES, CARRYOVERS & MID-YR ATB's	\$0	\$0	\$0	\$0	\$0
TOTAL USES OF FUNDS	\$53,148,476	\$44,172,753	\$118,226,921	\$51,493,351	\$52,164,178
Sick/Vacation Accrual Adjustment	\$160,471	\$165,285	\$170,243	\$175,351	\$180,611
•					
FUND BALANCE - END OF YEAR	\$49,006,782	\$59,279,280	\$18,260,201	\$25,459,689	\$34,992,886
Designated Reserves -					
Bond Reserves	\$7,736,160	\$7,736,160		\$7,736,160	\$7,736,160
Lakewood Pipeline Remediation Reserve Lakewood/USFS Damage Claims Reserve	\$27,384,548 \$0	\$27,810,243 \$0		\$29,527,722	\$30,425,836 \$0
Vacation/Sick/Bonus Liability	\$0 \$1,046,034	\$0 \$1,077,415		\$0 \$1,143,030	\$0 \$1,177,321
Pay Period 27 - 2013 Reserve	\$1,103,947	\$1,077,413		\$1,256,947	\$1,307,947
TOTAL RESERVES	\$37,270,689	\$37,778,766			\$40,647,264
CURRI HOWREIGHT AND REGIONATED RECEIVED	644 700 000	<b>604 500 5</b> : -	(000 447 700)	(64 4 00 4 4 5 5	(OF CE 4 070)
SURPLUS/(DEFICIT) vs. DESIGNATED RESERVES OPERATING RESERVE (Goal: 25% of Operating)	\$11,736,093 \$6,564,173	\$21,500,514 \$6,860,104		(\$14,204,169) \$7,509,857	(\$5,654,378) \$7,866,930
CAPITAL RESERVE (Goal: \$2,000,000)	\$2,000,000	\$5,860,104			\$7,866,930 \$2,000,000
SURPLUS/(DEFICIT) vs. ALL RESERVES	\$3,171,920	\$12,640,410			
• • • • •	. , ,	. ,,	,- ,,	, ,,	, ,,

<sup>\*</sup> Reserve levels are based on industry standards and ar

1	A	В	С	D	E CITY OF BO	F	G	Н	 05-Oct-11	J	K	L	M	N	0	Р
3				2012-2017	CAPITAL IMPR	OVEMENT PR	ROGRAM		05-001-11							
5					VISION								2212			2000
6 7 8	Assumed Inflation Rate PROJECT NAME	3.00%	2010 COST	2010 ACTUAL	2011 REVISED	2012 PROJECTED	2013 PROJECTED	2014 PROJECTED	2015 PROJECTED	2016 PROJECTED	2017 PROJECTED	2018 PROJECTED	2019 PROJECTED	2020 PROJECTED	2021 PROJECTED	2022 PROJECTED
9 10	Treated Water Pressure Reducing and Hydroelect Kohler Hydro/PRV Station	411376	ities	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11 12 13	Maxwell Hydro/PRV Station Orodell Hydro/PRV Station Sunshine Hydro/PRV Station	411342 411331 411347	\$232.400	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$50,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$261,568	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$23,699
14 15	101 Pearl Street Hydro/PRV Station Subtotal - Treated Water PRV and Hydro		\$200,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$100,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$261,568	\$23,185 \$23,185	\$231,855 \$231,855	\$0 \$0	\$0 \$0	\$0 \$23,699
16 17 18	Water Treatment Facilities  Betasso WTP	411947		\$74,789	\$325,211	\$149,000	\$200,000	\$100,000	\$1,165,352	\$4,666,707	\$0	\$0	\$0	\$0	\$8,046,612	\$0
19 20	Betasso WTP - Bond Proceeds Bond Issuance Costs	411347		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$11,653,516 \$125,000	\$0 \$0	\$0 \$350,000	\$0 \$0 \$75,000	\$0 \$0 \$75,000	\$0 \$0 \$0	\$0 \$0
21 22 23	Boulder Reservoir WTP  Boulder Res WTP - Bond Proceeds  Subtotal - Water Treatment Facilities	411652		\$2,243,791 \$0	\$47,678 \$0	\$80,000 \$0	\$116,000 \$0	\$82,000 \$0	\$0 \$0	\$164,000 \$0 \$16,609,223	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$344,363 \$4,347,647	\$0 \$0	\$0 \$0 \$0
24	Treated Water Pump Stations			\$2,318,580	\$372,889	\$229,000	\$316,000	\$182,000	\$1,165,352	\$16,609,223	\$0	\$350,000	\$75,000	\$4,767,010	\$8,046,612	\$0
26 27	Cherryvale Pump Station Boulder Reservoir WTP High Service Pump Stat			\$322,532 \$0	\$0 \$0	\$0 \$50,000	\$0 \$112,800	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0		\$0 \$0	\$0 \$0	\$0 \$0
28 29 30	Iris Pump Stations Subtotal - Treated Water Pump Stations	411012		\$61,152 \$383,684	\$0 \$0	\$0 \$50,000	\$0 \$112,800	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
31 32	Treated Water Storage Tanks Gunbarrel Storage Tank	411670		\$32,136	\$15,950	\$0	\$265,798	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
33 34	Maxwell Storage Tank Booten Storage Tank	411673		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
35 36 37	Devil's Thumb Storage Tank Kohler Storage Tank Chautauqua Storage Tank	411674 411671 411672	\$920,000 \$785,000	\$0 \$0 \$0	\$0 \$0 \$870,779	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$100,531 \$0	\$0 \$1,005,309 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$2,000,000
38 39	Betasso Storage Tank Boulder Reservoir Storage Tank	111072	\$250,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$281,377 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
40 41	Subtotal - Treated Water Storage Tanks  Treated Water Distribution System			\$32,136	\$886,729	\$0	\$265,798	\$0	\$100,531	\$1,005,309	\$281,377	\$0	\$0	\$0	\$0	\$2,000,000
42 43 44	Treated Water Distribution System  Zone Isolation Valves  Cathodic Protection	411390 411387		\$0 \$18,569	\$0 \$113,501	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
45 46	Waterline Replacement Subtotal - Treated Water Distribution System	411389		\$3,074,412 \$3,092,981	\$2,458,289		\$2,100,000	\$2,163,000	\$2,227,890 \$2,227,890	\$2,294,727 \$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$6,026,382	\$6,207,173 \$6,207,173	\$6,393,389
47 48 49	Treated Water Transmission System Sunshine Transmission Pipe	411006		\$0	\$0	\$0	\$800,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50 51	Boulder Canyon - Orodell to Fourmile Pipe  Mountain Transmission Pipes	411006 411007 411007		\$0 \$0 \$0	\$500,000 \$500,000	\$0 \$0 \$0	\$800,000 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$2,433,341	\$0 \$0 \$0	\$0 \$0 \$0
52 53	Zone 1 Transmission Pipes Zone 2 Transmission Pipes	411002 411004		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	<b>\$0</b> <b>\$0</b>	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
54 55 56	Zone 3 Transmission Pipes Subtotal - Treated Water Transmission System	411005		\$0 \$0	\$0 \$500,000	\$0 \$0	\$0 \$800,000	<b>\$0</b> <b>\$0</b>	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$2,433,341	\$0 \$0	\$0 \$0
57 58	Source Water Transmission System Lakewood Pipeline	411780		\$216,490	\$0	\$0	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0
59 60	Silver Lake Pipeline Source Water Transmission Pipe Inspections	411640 411775		\$0 \$0	\$0 \$0	\$0 \$80,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
61 62 63	Subtotal - Source Water Transmission System  Barker Water System			\$216,490	\$0	\$80,000	\$0	\$257,500	\$0	\$0	\$0	\$0	\$298,513	\$0	\$0	\$0
64	Barker Gravity Pipeline Repair Barker-Kossler Penstock Repair	411106 411107	\$20,000,000 \$100,000	\$107,639 \$0	\$733,639 \$0	\$350,000 \$175,000	\$350,000 \$0	\$360,500 \$0	\$371,315 \$0	\$382,454 \$0	\$786,615 \$112,551	\$810,213 \$0	\$834,519 \$0	\$859,555 \$0	\$885,342 \$0	\$911,902 \$0
66 67	Barker Dam Outlet  Barker Dam Outlet - Bond Proceeds	411109	\$7,055,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$736,081 \$0	\$0 \$7,360,811	\$0 \$0	\$0 \$0	\$0 \$0	\$0 <b>\$0</b>
68 69 70	Barker Dam and Reservoir Barker Hydro System Integration Barker Relicensing	411110 411111 411112	\$350,000	\$0 \$16 \$47,826	\$120,000 \$0 \$570,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$371,315 \$0 \$0	\$0 \$0 \$253,354	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
71 72	Barker Instream Flow Release Betasso Penstock	411114 411940		\$8,645 \$253,465	\$139,359 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
73 74	Kossler Reservoir Subtotal - Barker Water System	411119		\$70,626 \$488,217	\$864,712 \$2,427,710	\$0 \$525,000	\$300,000 \$650,000	\$0 \$360,500	\$0 \$742,630	\$0 \$635,808	\$0 \$1,635,247	\$0 \$8,171,024	\$0 \$834,519	\$0 \$859,555	\$0 \$885,342	\$0 \$911,902
75 76 77	Raw Water Storage Reservoirs  Albion Dam		\$3,075,000	\$0	\$0	\$0	\$0	\$0	\$79,568	\$0	\$0	\$0	\$0	\$0	\$0	\$362,857
78 79	Silver Lake Dam Island Lake Dam	411626	ψ3,073,000	\$0 \$13,002	\$0 \$148,892	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
80 81	Green Lake 1 Dam Green Lake 2 Dam	411627	\$3,875,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$75,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$408,366	\$4,083,659	\$0 \$0	\$0 \$0	\$0 \$0
82 83 84	Green Lake 3 Dam Goose Lake Dam Boulder Reservoir	411612	\$90,000	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$110,689	\$0 \$0 \$0	\$0 \$0 \$0
85 86	Lakewood Reservoir Skyscraper Dam	411981	\$102,500 125,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$118,826	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
87 88	Wittemyer Ponds Subtotal - Raw Water Storage Reservoirs		4,000,000	\$0 \$13,002	\$0 \$148,892	\$0 \$0	\$0 \$75,000	\$0 \$0	\$0 \$79,568	\$0 \$0	\$0 \$0	\$429,859 \$1,101,960	\$4,298,588 \$8,382,247	\$0 \$110,689	<b>\$0</b> <b>\$0</b>	\$0 \$362,857
90 91	Other Raw Water Facilities Farmer's Ditch	411550		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$106,090	\$0	\$0	\$0
92 93	Anderson Ditch Watershed Improvements	411883 411770	\$440,500	\$0 \$0	\$0 \$290,500	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$79,568	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$92,241	\$0 \$0	\$0 \$0
94 95	Nederland WWTP Instream Flow Structures and Gaging	411565 411549		\$0 \$0	\$370,000 \$50,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
96 97 98	Como Creek Diversion Structure  Lakewood Diversion Structure  Silver Lake Diversion Structure	411548		\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
99 100	NCWCD Conveyance - Boulder Feeder Canal NCWCD Conveyance - Carter Lake Pipeline	411546 411547		\$0 \$3,531	\$92,468 \$989,455	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$2,608,367	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
101 102 103	NCWCD Conveyance - Bond Proceeds Subtotal - Other Raw Water Facilities		\$25,000,000	\$0 \$3,531	\$1,792,423	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	\$0 \$79,568	<b>\$0</b> <b>\$0</b>	\$2,608,367	\$26,083,667 \$26,083,667	\$0 \$106,090	\$0 \$92,241	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>
103 104 105	Source Water Pressure Reducing, Pumping and F Lakewood Hydroelectric/PRV	Hydroelec 411801	ctric	\$0	\$0	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0	\$0
106 107	Silver Lake Hydroelectric/PRV Boulder Reservoir Intake and Pumping	411970 411655		\$0 \$29,819	\$0 \$197,583	\$100,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
108 109 110	Betasso Hydro PRV Station Barker Dam Hydro Barker Dam Hydro - Road Proceeds	411974	\$2,200,000	\$215,286 \$0	\$28,967 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$100,000 \$0	\$0 \$344,304	\$0 \$0 \$3,443,044	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
110 111 112	Barker Dam Hydro - Bond Proceeds Boulder Canyon Hydro Boulder Canyon Hydro - Grant	411975 411976	\$3,300,000	\$0 \$262,960 \$273,118	\$0 \$3,711,240 \$907,681	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$3,443,044 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
113 114	Carter Lake Hydro Carter Lake Hydro - Bond Proceeds			\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$250,000 \$0	\$0 \$2,500,000	\$0 \$0	\$0 \$0	\$0 \$0
115 116 117	Source Water Pressure Reducing, Pumping and Subtotal - Source Water PRV, Pumping and Hydro		ectric Facility Re	\$0 \$781,183	\$0 \$4,845,471	\$0 \$100,000	\$0 \$0	\$0 \$100,000	\$0 \$0	\$0 \$100,000	\$220,633 \$564,938	\$227,252 \$3,920,296	\$234,070 \$3,034,070	\$241,092 \$241,092	\$248,325 \$248,325	\$255,775 \$255,775
117 118 119	Water Distribution System Expansion Annexation Related Water System Expansion	411433		\$375,474	\$149,155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
120 121	Subtotal - Water Distribution System Expansion	700		\$375,474	\$149,155	\$0	\$0	\$0	\$0	\$0		\$0		\$0	\$0	\$0
122	Water System Monitoring and Metering Automated Meter Reading	411454	\$500,000	\$530,450	\$546,364	\$562,754	\$579,637	\$0	\$0	\$0	\$0	\$0		\$614,937	\$633,385	\$652,387
124 125 126	Water System Security Upgrades Distribution System Water Quality Data Communications System	411440 411425 411435		\$93,200 \$200,696 \$0	\$107,315 \$148,646 \$0	\$100,000 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
127 128	Yards Master Plan Implementation Utility Billing Computer System Replacement	411039 411453		\$3,104 \$333	\$100,000 \$28,771	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$500,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
129 130	Subtotal - Water System Monitoring and Metering			\$827,783	\$931,096	\$662,754	\$579,637	\$0	\$0	\$0	\$500,000	\$0	\$597,026	\$614,937	\$633,385	\$652,387
132	TOTAL CAPITAL USES OF FUNDS				\$14,626,155 (\$10,879,401)											\$10,600,008 \$3,188,589
133	Asset Value Replacement Percentage	100%				<u> </u>	<u> </u>									

	A	В	Q	R	S	Т	U	V	W	Х	Y	Z	AA
2													
4													
6 7	Assumed Inflation Rate PROJECT NAME	3.00%	2023 PROJECTED	2024 PROJECTED	2025 PROJECTED	2026 PROJECTED	2027 PROJECTED	2028 PROJECTED	2029 PROJECTED	2030 PROJECTED	2031 PROJECTED	2032 PROJECTED	TOTAL
9	Treated Water Pressure Reducing and Hydroelect												
10	Kohler Hydro/PRV Station  Maxwell Hydro/PRV Station	411376	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$414,720	\$0 \$0	\$798,814 \$40,146	\$0 \$0	\$94,908 \$61,281	\$0 \$9,295	\$0 \$0	\$943,722 \$575,442
12 13 14	Orodell Hydro/PRV Station Sunshine Hydro/PRV Station 101 Pearl Street Hydro/PRV Station	411331 411347	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$377,095 \$0	\$0 \$285,267 \$255,040
15	Subtotal - Treated Water PRV and Hydro		\$0	\$0	\$0	\$414,720	\$0	\$838,960	\$0	\$156,189	\$9,295	\$377,095	\$2,059,472
17 18	Water Treatment Facilities  Betasso WTP	411947	\$1,700,168	\$1,700,168	\$1,085,479	\$334,115	\$0	\$6,280,462	\$0	\$14,983,134	\$68,714	\$0	\$40,879,911
19	Betasso WTP - Bond Proceeds Bond Issuance Costs		\$0 \$0	\$0 \$0	\$0 \$0	\$14,808,534 \$125,000	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$150,000	\$0 \$0	\$0 \$0	\$26,462,051 \$900,000
22	Boulder Res WTP - Bond Proceeds	411652	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$23,582 \$0	\$3,125,489 \$0	\$16,793 \$0	\$6,157,092 \$18,043,533	\$40,919 \$0	\$0 \$0	\$12,441,707 \$22,391,180
23	Subtotal - Water Treatment Facilities		\$1,700,168	\$1,700,168	\$1,085,479	\$15,267,649	\$23,582	\$9,405,951	\$16,793	\$39,333,759	\$109,633	\$0	\$103,074,848
25 26 27	Treated Water Pump Stations Cherryvale Pump Station Boulder Reservoir WTP High Service Pump Stat	411010	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$248,293 \$0	\$0 \$0	\$0 \$0	\$570,825 \$162,800
28	Iris Pump Stations Subtotal - Treated Water Pump Stations	411012	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$328,160 \$576,453	\$0 \$0	\$0 \$0	\$389,312 \$1,122,937
30	Treated Water Storage Tanks		•										* / / / / / / / / / / / / / / / / / / /
33	Gunbarrel Storage Tank Maxwell Storage Tank	411670 411673	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$651,342	\$0 \$0	\$603,357 \$0	\$0 \$0	\$0 \$0	\$162,687 \$0	\$0 \$0	\$1,079,928 \$651,342
34 35	Booten Storage Tank  Devil's Thumb Storage Tank	411674	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$3,166,146	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$3,166,146
36 37 38	Kohler Storage Tank Chautauqua Storage Tank Betasso Storage Tank	411671 411672	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$1,105,840 \$2,870,779 \$281,377
39 40	Boulder Reservoir Storage Tank  Subtotal - Treated Water Storage Tanks		\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$3,817,488	\$0 \$0	\$0 \$0 \$603,357	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$162,687	\$0 \$0 \$0	\$9,155,412
41 42	Treated Water Distribution System		— <del>43</del>	Ψ3			<b>43</b>				, 12,007	<del></del>	,,112
43 44	Zone Isolation Valves Cathodic Protection	411390 411387	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$132,070
45 46	Waterline Replacement Subtotal - Treated Water Distribution System	411389	\$6,585,190 \$6,585,190	\$6,782,746 \$6,782,746	\$6,986,228 \$6,986,228	\$7,195,815 \$7,195,815	<b>\$7,411,690</b> <b>\$7,411,690</b>	\$7,634,040 \$7,634,040	<b>\$7,863,062</b> <b>\$7,863,062</b>	\$10,578,225 \$10,578,225	\$10,895,572 \$10,895,572		\$114,283,383 \$114,415,453
47 48 49	Treated Water Transmission System	411000	<b></b>	40	Φ0	60	00	Φ0	<b>*</b>	60	0.0	\$0	¢200.000
50 51	Sunshine Transmission Pipe  Boulder Canyon - Orodell to Fourmile Pipe  Mountain Transmission Pipes	411006 411007 411007	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$7,800,596	\$0 \$0 \$0	\$0 \$0 \$0	\$800,000 \$500,000 \$10,233,937
52 53	Zone 1 Transmission Pipes Zone 2 Transmission Pipes Zone 2 Transmission Pipes	411007 411002 411004	\$0 \$0 \$0	\$0 \$0 \$0	\$1,458,498 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$8,817,980 \$2,360,581	\$0 \$0 \$0	\$0 \$0 \$0	\$10,233,937 \$10,276,478 \$2,360,581
54 55	Zone 3 Transmission Pipes Subtotal - Treated Water Transmission System	411005	\$0 \$0	\$0 \$0	\$0 \$1,458,498	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$9,671,518 \$28,650,675	\$0 \$0	\$0 \$0	\$9,671,518 \$33,842,514
56 57	Source Water Transmission System							-				•	
58 59	Lakewood Pipeline Silver Lake Pipeline	411780 411640	\$0 \$0	\$346,058 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$401,177 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,519,738 \$0
60 61 62	Source Water Transmission Pipe Inspections Subtotal - Source Water Transmission System	411775	\$0 \$0	\$0 \$346,058	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$401,177	\$0 \$0	\$0 \$0	\$0 \$0	\$80,000 \$1,599,738
63	Barker Water System Barker Gravity Pipeline Repair	411106	\$939,259	\$967,437	\$996,460	\$1,026,354	\$1,057,144	\$1,088,858	\$1,121,524	\$1,155,170	\$1,189,825	\$0	\$17,285,724
65 66	Barker-Kossler Penstock Repair Barker Dam Outlet	411107 411109	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$287,551 \$736,081
67 68	Barker Dam Outlet - Bond Proceeds  Barker Dam and Reservoir	411110	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$7,360,811 \$491,315
69 70	Barker Hydro System Integration Barker Relicensing	411111 411112	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$16 \$871,180
71	Barker Instream Flow Release Betasso Penstock	411114 411940	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$148,004 \$253,465
73 74 75	Kossler Reservoir Subtotal - Barker Water System	411119	\$0 \$939,259	\$0 \$967,437	\$0 \$996,460	\$0 \$1,026,354	\$0 \$1,057,144	\$0 \$1,088,858	\$0 \$1,121,524	\$0 \$1,155,170	\$0 \$1,189,825	\$0 \$0	\$1,235,338 \$28,669,484
76 77	Raw Water Storage Reservoirs Albion Dam		\$3,628,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,070,999
78 79	Silver Lake Dam Island Lake Dam	411626	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$4,070,999 \$0 \$161,894
80	Green Lake 1 Dam Green Lake 2 Dam	411627	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$4,567,025
82 83	Green Lake 3 Dam Goose Lake Dam	411612	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
84 85	Boulder Reservoir  Lakewood Reservoir	411981	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$110,689 \$118,826
86 87	Skyscraper Dam Wittemyer Ponds		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$144,909 \$4,728,447
88 89 90	Subtotal - Raw Water Storage Reservoirs Other Paw Water Excilities		\$3,628,574	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,902,788
90 91 92	Other Raw Water Facilities Farmer's Ditch Anderson Ditch	411550 411883	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$106,090 \$0
93 94	Watershed Improvements Nederland WWTP	411770 411565	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$462,308 \$370,000
95 96	Instream Flow Structures and Gaging Como Creek Diversion Structure	411549 411548	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$50,000 \$0
97 98	Lakewood Diversion Structure Silver Lake Diversion Structure		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
99 100	NCWCD Conveyance - Boulder Feeder Canal NCWCD Conveyance - Carter Lake Pipeline	411546 411547	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$92,468 \$3,601,353
101 102 103	NCWCD Conveyance - Bond Proceeds Subtotal - Other Raw Water Facilities		<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	\$0 \$0	<b>\$0</b> <b>\$0</b>	\$26,083,667 \$30,765,885
103 104 105	Source Water Pressure Reducing, Pumping and H		A.C.	ne.	<b>A</b> C	0.0	ne.	<b>A</b> C	60	0.0	60	<b>Ac</b>	¢400.000
105 106 107	Lakewood Hydroelectric/PRV Silver Lake Hydroelectric/PRV Boulder Reservoir Intake and Pumping	411801 411970 411655	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$400,000 \$100,000 \$227,402
108	Betasso Hydro PRV Station  Barker Dam Hydro	411974	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$344,253 \$344,304
110 111	Barker Dam Hydro - Bond Proceeds Boulder Canyon Hydro	411975	\$0 \$0	\$0 \$0	<b>\$0</b> <b>\$0</b>	\$0 \$0	\$0 \$0	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	<b>\$0</b> <b>\$0</b>	\$0 \$0	\$0 \$0	\$3,443,044 \$3,974,200
112 113	Boulder Canyon Hydro - Grant Carter Lake Hydro	411976	\$0 <b>\$</b> 0	\$0 <b>\$</b> 0	\$0 <b>\$0</b>	\$0 <b>\$</b> 0	\$0 \$0	\$0 <b>\$0</b>	\$0 <b>\$0</b>	\$0 \$0	\$0 \$0	\$0 \$0	\$1,180,799 \$250,000
114 115	Source Water Pressure Reducing, Pumping and		\$0 \$263,448	\$0 \$271,351	\$0 \$279,492	\$0 \$287,877	\$0 \$296,513	\$0 \$305,408	\$0 \$314,571	\$0 \$324,008	\$0 \$333,728	\$0 \$343,740	\$2,500,000 \$4,103,543
116 117	, , , ,	)	\$263,448	\$271,351	\$279,492	\$287,877	\$296,513	\$305,408	\$314,571	\$324,008	\$333,728	\$343,740	\$8,833,203
119	Water Distribution System Expansion  Annexation Related Water System Expansion Subtatal - Water Distribution System Expansion	411433	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$524,629 \$524,629
120 121	Subtotal - Water Distribution System Expansion  Water System Manitaring and Matering		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524,629
122 123 124	Water System Monitoring and Metering Automated Meter Reading Water System Security Upgrades	411454 411440	\$671,958 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$5,388,898 \$300,515
125 126	Distribution System Water Quality  Data Communications System	411425 411435	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$349,342 \$0
127 128	Yards Master Plan Implementation Utility Billing Computer System Replacement	411039 411453	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$103,104 \$529,104
129 130	Subtotal - Water System Monitoring and Metering		\$671,958	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,670,963
132			\$13,788,598 (\$3,720,837)	\$10,067,760 \$738,397			\$8,788,929 \$11,087,646				\$12,700,740 (\$757,466)	\$11,943,274 (\$11,943,274)	\$354,637,328
133	Asset Value Replacement Percentage	100%											

