



THE CITY OF SAN DIEGO

MEMORANDUM

DATE: February 9, 2012

TO: Independent Rates Oversight Committee Members

FROM: Roger Bailey, Director of Public Utilities

SUBJECT: Summary of Water and Sewer FY2008-FY2011 Rate Case Expenditures

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On February 26, 2007 the City Council approved rate increases for both the water and wastewater systems. These rates were critical for funding infrastructure improvements needed to meet mandated requirements under the Department of Public Health Compliance Order (Water) and the Consent Decree (Wastewater) and to maintain the integrity of the system. The mandates required the replacement of aging pipes, pumps and other infrastructure to reduce the number of water main breaks, sewer spills, pump station, treatment system failures, and violations of regulatory permits. Cost of service studies were prepared for both the water and sewer funds and were the basis of the recommended rate increases.

The Public Utilities Department operates large, complex water and wastewater systems. The Water System consists of over 3,000 miles of pipeline, 129 pressure zones, 50 water pumps stations, 29 potable water reservoirs, and 3 water treatment plants. The water system covers over 404 square miles and serves a population of 1.3 million. Of the more than 3,000 miles of water pipe, approximately 760 miles or 25% are over 50 years old. The overall wastewater system is comprised of the Municipal sub-system and the Metro Sub-system. The Municipal Sub-system is the municipal sewer collection system for the City's residents and consists of over 3,000 miles pipeline and 74 municipal pump stations. Of the more than 3,000 miles of sewer pipeline, approximately 720 miles or 24% are over 50 years old. The Metro Sub-system is a regional sewer treatment and disposal system that serves the City and 11 other cities and public agencies. The Metro Sub-system consists of three wastewater treatment plants a biosolids processing facility, eight large pump stations and two ocean outfalls. The wastewater system covers over 450 square miles and serves a regional population in excess of 2.5 million.

The water rate case focused on the needs of the water treatment system and included the upgrade of the Alvarado, Miramar and Otay Water Treatment Plants to meet new regulatory requirements, the replacement of the Otay 2<sup>nd</sup> Transmission Pipeline and the replacement of 75 miles of old cast iron water pipelines as mandated in the Compliance Order and the Federal Safe Drinking Water Act.

The wastewater rate case focused on the needs of the municipal collection system and included the replacement and rehabilitation of 115 miles of sewer pipelines, trunk sewers and pump station projects as mandated in the Consent Decree. Additionally the rate case included improvements to the Metropolitan Sewerage System treatment plants and pump stations.

### Capital Improvement Project Updates

During Fiscal Years 2008 to 2011, \$393 million in water funds and \$250 million in wastewater funds were expended on critical infrastructure. These projects included, among others, the award of 100 miles of water pipeline replacement, of which 88.5 miles were cast iron pipeline; replacement of 61 miles of sewer pipeline and the rehabilitation of 102 miles of sewer pipeline; upgrades to the Alvarado, Miramar and Otay Water Treatment plants; upgrades to the Otay 2<sup>nd</sup> Water Pipeline and eight trunk sewers; upgrades to nine sewer pump stations projects; and water security upgrades.

Through the end of December 2011, an additional 15 miles of water pipeline were awarded, 4 miles of sewer pipeline were replaced and 19 miles of sewer pipeline were rehabilitated.

While some project schedules have slipped, all of the Compliance Order and Consent Decree projects are projected to be completed by their required deadlines. Some delays in project schedules can be attributed to redesigns which have reduced the scope of work while still maintaining capacity and reliability needs at a lower cost. Some projects have been cancelled due to re-evaluation of operational needs or they have been replaced by other projects.

### Financing

The Water Rate Case assumed a total expenditure of \$585,200,000 and the Wastewater Case assumed a total expenditure of \$585,365,944. The Capital Improvement Program (CIP) for both funds was developed using 2006 dollars and a 4% annual escalation rate. At the time of the planning of the rate case in 2006, construction costs had been increasing and were projected to continue to increase. After the approval of the rate increases, the economy began a downturn and construction costs decreased significantly.

### Variance in Expenditures

The majority of the variance in the expenditures between the rate case and actual, fall into three categories: 1) completed projects, with savings due to favorable bidding conditions or revised designs; 2) projects that were cancelled or put on hold; and 3) additional critical infrastructure needs identified after the rate case as part of our ongoing assessment of the system.

*Completed Projects:* Due to the economic downturn in 2008, there were considerable savings in construction. For example, the water rate case assumed the cost to replace one mile of water pipeline in 2006 dollars was \$2.0 million per mile, versus an actual average cost of \$1.3 million per mile. The estimated savings from the lower water pipeline cost alone is \$38 million. The

wastewater rate case assumed the cost to replace one mile of sewer pipeline in 2006 dollars was \$2.3 million per mile versus an actual average cost of \$1.5 million per mile and the cost to rehabilitate one mile of sewer pipeline was \$800,000 per mile versus an actual average cost of \$500,000 million per mile. The estimated savings from the lower sewer pipeline replacement and rehabilitation cost alone is \$111 million. Additionally, several other projects came in at lower bid prices.

During the rate case period several project were reviewed and their designs were modified to reduce their total construction costs. For example, the design of the East Point Loma Trunk Sewer was modified from open trench replacement to rehabilitation, which resulted in a savings of \$17 million for this project.

*Projects that were cancelled or put on hold:* During the rate case period several projects were reevaluated. Some of these projects are no longer required because of reductions in flow, other projects superseding them, or changes in operational needs. For example, the construction of SD17 Water Pump Station was cancelled following an evaluation of operational needs and life cycle costs, and will be replaced by a gravity pipeline. The cancellation of the SD17 Pump Station project resulted in a savings of \$15 million.

*Additional Critical Projects:* During the rate case period additional critical projects, not previously identified, were added to the CIP. For example, the Customer Information System (CIS) Enterprise Resource Planning implementation was added in Fiscal Year 2011 at a cost of \$14 million.

On an ongoing basis, the Department prepares a rolling Five Year Capital Improvement Program. The Program is based on the Water and Wastewater Facility Master Plans. The master plans identify facility needs based on condition assessment, future capacity demands, regulatory requirements, and system hydraulic performance criteria. The Department has televised over 1,600 miles of sewer pipelines, and has identified over 540 miles needing replacement or rehabilitation. Over 129 miles of old cast iron water main still remain to be replaced.

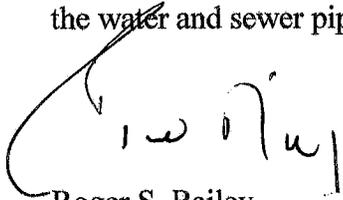
The Department is embarking on a program to assess the condition of the approximately 2,100 miles of asbestos concrete water pipeline to determine what will need to be replaced in the next 10 years. Condition assessments are continuing on water transmission pipelines and trunk sewers. Following these condition assessments, projects will be developed and prioritized using a scoring and ranking method in compliance with Council Policy 800-14.

The Program for Fiscal Years 2012 to 2016 includes the following categories of projects:

- Water and Sewer Pipelines
- Trunk Sewers and Water Transmission Pipelines
- Water and Sewer Pump Stations
- Water and Sewer Treatment Plants

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In summary, the majority of projects proposed in the FY08-FY11 Rate Case, are either complete or in the process of being implemented and will be completed by the end of Fiscal Year 2014 at a cost under that proposed in the FY08-FY11 Rate Case. These cost savings will allow the Department to continue to implement critical infrastructure needs including the acceleration of the water and sewer pipeline replacement with no additional rate increases.



Roger S. Bailey  
Director of Public Utilities

AS/ah

Attachments: Water and Wastewater Capital Improvement Program, Rate Case vs Planned and Actual

cc: Jay Goldstone, Chief Operating Officer  
Almis Udrys, Deputy Director of IRD an Fiscal Policy

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		FY08	FY09	FY10	FY11	FY12	FY13	FY14	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Additional CIP Projects Not in Rate Case</b>															
AA - Water Main Replacements	Actual					\$6,099,937				\$0					This annual allocation allows for the replacement of water mains at various locations throughout the City.
	Planned					\$58,834,426	\$40,460,803	\$43,929,720			\$58,834,426	\$99,295,229	\$143,224,949		
AA - Groundwater Asset	Actual	\$357	\$14,047	\$340,892	\$243,900	\$248,508	\$0	\$0		\$599,196					
	Planned	\$0	\$0	\$0	\$0	\$200,000	\$500,000	\$500,000			\$799,196	\$1,299,196	\$1,799,196		
AA - North City Reclamation System	Actual	\$47,865	\$71,257	\$281,409	\$2,147,575	\$126,262	\$0	\$0		\$2,548,106					
	Planned	\$0	\$0	\$0	\$0	\$1,971,094	\$4,713,459	\$84,801			\$4,519,200	\$9,232,659	\$9,317,460		
AA - Reclaimed Water Retrofit	Actual	\$270,444	\$206,076	\$572,135	\$230,687	\$0	\$0	\$0		\$1,279,342					
	Planned	\$0	\$0	\$0	\$0	\$0	\$0	\$0			\$1,279,342	\$1,279,342	\$1,279,342		
La Jolla/Pacific Beach Water Main	Actual	(\$158)	\$0	\$0	\$0	\$0	\$0			(\$158)					
	Planned										-\$158	-\$158	-\$158		
La Jolla/Pacific Beach Water Main Accel - AC Overlay	Actual	\$11,468	\$2,427	\$0	\$0	\$0	\$0			\$13,895					
	Planned										\$13,895	\$13,895	\$13,895		
South Bay Reclaimed Water Distribution System	Actual	\$2,896	\$32	\$0	\$0	\$0	\$0			\$2,928					
	Planned										\$2,928	\$2,928	\$2,928		
Alvarado WTP Expansion Phase 2	Actual	\$495,544	\$0	\$0	\$0	\$0	\$0			\$495,544					
	Planned										\$495,544	\$495,544	\$495,544		
Miramar WTP Early Start I	Actual	\$104,079	(\$84,717)	\$0	\$0	\$0	\$0			\$19,362					
	Planned										\$19,362	\$19,362	\$19,362		
Otay 2nd Pipeline Improvements	Actual	\$41	\$1,308	\$0	\$50,929	\$5,378	\$0			\$52,278					
Otay 2nd Pipeline - Emergency Main Repairs	Planned					\$17,500					\$69,778	\$69,778	\$69,778		
Morena Reservoir Outlet Tower Upgrade	Actual	\$0	\$0	\$0	\$10,249	\$7,258	\$0			\$10,249					
	Planned					\$7,258	\$100,000	\$500,000			\$17,507	\$117,507	\$617,507		
Telem Control Sys - SCADA - Phase II	Actual	\$1,248	\$334	\$0	\$0	\$0	\$0			\$1,582					
	Planned										\$1,582	\$1,582	\$1,582		
Alvarado Water Quality Lab Roof Replacement	Actual	\$0	\$169,741	\$6,014	\$0	\$0	\$0			\$175,755					
	Planned										\$175,755	\$175,755	\$175,755		
Dulzura Conduit Concrete Covers	Actual	\$0	\$124,516	\$639,373	\$0	\$0	\$0			\$763,889					
	Planned										\$763,889	\$763,889	\$763,889		
Proctor Valley Off-Highway Vehicle Barrier	Actual	\$0	\$0	\$19,488	\$202,415	\$0	\$0			\$221,903					
	Planned					\$0	\$0				\$221,903	\$221,903	\$221,903		
Pomerado Pipeline No. 2	Actual	\$0	\$0	\$0	\$0	\$0	\$0			\$0					
	Planned					\$0	\$0				\$0	\$0	\$0		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

SBRWS - Mag Meter Assembly Project	Actual	\$0	\$0	\$227	\$10,505	\$16,274	\$0	\$10,732					
	Planned					\$16,274	\$0			\$27,006	\$27,006	\$27,006	
Fluoridation Fac Proj @ Alvarado, Miramar & Otay WTP	Actual	\$0	\$0	\$767,997	\$2,208,837	\$3,767	\$0	\$2,976,834					
	Planned					\$3,767	\$0			\$2,980,601	\$2,980,601	\$2,980,601	
Miramar Pipeline Monitoring	Actual	\$3,228	\$0	\$855	\$59,078	\$3,347	\$0	\$63,161					
	Planned					\$3,347	\$0			\$66,508	\$66,508	\$66,508	
Recycled Water System Upgrades	Actual	\$0	\$0	\$38,260	\$4,897	\$6,246	\$0	\$43,157					
	Planned					\$6,246	\$0			\$49,403	\$49,403	\$49,403	
Barrett Flume Cover	Actual	\$0	\$0	\$0	\$1,116	\$55	\$0	\$1,116					
	Planned					\$55	\$0			\$1,171	\$1,171	\$1,171	
Advanced Water Treatment Demo PI	Actual	\$0	\$0	\$550	\$3,547,885	\$250,293	\$0	\$3,548,435					
	Planned					\$250,293	\$0			\$3,798,728	\$3,798,728	\$3,798,728	
University Ave. Pipeline Replacement	Actual	\$0	\$0	\$0	\$120,960	\$24,815	\$0	\$120,960					
	Planned					\$1,000,000	\$5,000,000	\$9,000,000		\$1,120,960	\$6,120,960	\$15,120,960	
Upas Street Pipeline	Actual	\$0	\$0	\$0	\$104,554	\$29,069	\$0	\$104,554					
	Planned					\$1,136,558	\$2,300,000	\$3,000,000		\$1,241,112	\$3,541,112	\$6,541,112	
Miramar Clearwell Improvements	Actual	\$0	\$0	\$0	\$2,678	\$24,173	\$0	\$2,678					
	Planned					\$100,000	\$500,000	\$4,781,041		\$102,678	\$602,678	\$5,383,719	
Chollas Building	Actual	\$0	\$0	\$0	\$239,648	\$24,945	\$0	\$239,648					
	Planned					\$775,274	\$6,000,000	\$8,000,000		\$1,014,922	\$7,014,922	\$15,014,922	
Mid-City Pipeline - Phase 2 / Montezuma Pipeline	Actual	\$0	\$0	\$0	\$210,886	\$0	\$0	\$210,886					
	Planned					\$0	\$913,080	\$1,000,000		\$210,886	\$1,123,966	\$2,123,966	
Otay 1st / 2nd Pipeline Abandonment - East of Highland	Actual	\$0	\$0	\$0	\$40,613	\$6,490	\$0	\$40,613					
	Planned					\$397,000	\$1,045,022	\$5,244,978		\$437,613	\$1,482,635	\$6,727,613	
Otay Water Treatment Plant Concrete Work	Actual	\$0	\$0	\$0	\$0	\$6,138	\$0	\$0		\$6,138	\$6,138	\$6,138	
	Planned					\$0	\$0	\$0		\$0	\$0	\$0	
CIS ERP Implementation	Actual	\$0	\$0	\$0	\$6,823,578	\$1,875,485	\$0	\$6,823,578					
	Planned					\$1,875,485	\$0	\$0		\$8,699,063	\$8,699,063	\$8,699,063	
Colony Hill Water Main Relocation	Actual	\$0	\$0	\$0	\$0	\$1,578	\$0	\$0					
	Planned					\$979,988	\$326,663	\$0		\$979,988	\$1,306,651	\$1,306,651	
<b>Cancelled Projects</b>													
MOC Building	Actual	\$0	\$0	\$0	\$380	\$0	\$0	\$380		\$380	\$380	\$380	
<b>Completed Projects</b>													
Miramar Pipeline Improvements - Phase III & IV	Actual	\$29,218	\$0	\$0	\$0	\$0	\$0	\$29,218		\$29,218	\$29,218	\$29,218	
Recl Wtr/Retrofit El Camino Business Park Owner's Assoc; Recl Wtr/Retrofit Arden Realty; Recl Wtr/Retrofit SD Poway Bi-directional	Actual	\$171,257	\$22,000	\$0	\$0	\$0	\$0	\$193,257		\$193,257	\$193,257	\$193,257	
Torrey Pines Rd/La Jolla Blvd Main Replacement	Actual	\$0	\$0	\$0	\$0	\$117	\$0	\$0		\$117	\$117	\$117	

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

Torrey Pines Rd/La Jolla Blvd - Phase 2	Actual	\$4,178	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,178	\$4,178	\$4,178	\$4,178		
State Route 56; Black Mtn Ranch Reclaim; Black Mtn Ranch Reclaimed Water Storage Tank; Black Mtn Rd Gap Proj	Actual	(\$229,670)	\$0	\$1,259	\$0	\$0	\$0	\$0	\$0	(\$228,411)	(\$228,411)	(\$228,411)	(\$228,411)		
SBWS - Plant to Plant Piping (IBWC & Otay RW)	Actual	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$210	\$210	\$210	\$210		
BLF - Barrett Reservoir, El Capitan, Hodges Reservoir, Miramar Reservoir, Lower Otay Reservoir, San Vicente Reservoir	Actual	(\$129)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$129)	(\$129)	(\$129)	(\$129)		
South San Diego Pipeline #2	Actual	(\$13,021)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$13,021)	(\$13,021)	(\$13,021)	(\$13,021)		
Otay WTP Clearwell Storage	Actual	\$67,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67,418	\$67,418	\$67,418	\$67,418		
Alvarado WTP Upgrade/Expansion	Actual	\$851	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$851	\$851	\$851	\$851		
Alvarado WTP- Earl Thomas	Actual	(\$10)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$10)	(\$10)	(\$10)	(\$10)		
Otay 2nd Pipeline - Cathodic Protection Phase	Actual	\$1,635	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$1,665	\$1,665	\$1,665	\$1,665		
El Capitan Pipeline Corrosion	Actual	(\$187)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$187)	(\$187)	(\$187)	(\$187)		
Black Mountain Rd. Pipeline (Potable Segment)	Actual	\$41	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41	\$41	\$41	\$41		
Reclaimed Water Distribution Master Plan	Actual	(\$8)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$8)	(\$8)	(\$8)	(\$8)		
Groundwater Management Plan	Actual	\$41,432	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,432	\$41,432	\$41,432	\$41,432		
AA - System Optimization	Actual	(\$696)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$696)	(\$696)	(\$696)	(\$696)		
<b>NON- RATE CASE PROJECTS TOTAL</b>		<b>\$1,009,531</b>	<b>\$527,051</b>	<b>\$2,668,459</b>	<b>\$16,261,370</b>	<b>\$67,574,682</b>	<b>\$61,859,027</b>	<b>\$76,040,540</b>		<b>\$20,466,411</b>	<b>\$88,047,231</b>	<b>\$149,906,258</b>	<b>\$225,946,798</b>		

Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		FY08	FY09	FY10	FY11	FY12	FY13	FY14	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Additional CIP Projects Not in Rate Case</b>															
ANNUAL ALLOCATION - PIPELINE REHABILITATION	Actual									\$0					This project consists of the trenchless rehabilitation of sewer pipelines and manholes.
	Planned					\$13,226,418	\$21,995,138	\$18,430,600			\$13,226,418	\$35,221,556	\$53,652,156		
ANNUAL ALLOCATION - SEWER MAIN REPLACEMENTS	Actual					\$7,429,363				\$0					This project consists of the replacement of deteriorating sewer pipelines and manholes.
	Planned					\$37,985,533	\$25,407,838	\$36,440,520			\$37,985,533	\$63,393,371	\$99,833,891		
ANNUAL ALLOCATION - UNSCHEDULED PROJECTS	Actual					\$30,876				\$0				SEWER GROUP JOB 785A - In construction FALSE BAY RR TRUNK SEWER - In design MANNING CANYON - In planning  In FY10, we combined several AAs into one, currently known as the AA Unscheduled Projects.	This annual allocation is used to fund emergency CIP projects that are identified by Wastewater Collections crews as needing immediate repair or replacement.
	Planned					\$1,760,543	\$100,000	\$200,000			\$1,760,543	\$1,860,543	\$2,060,543		
ANNUAL ALLOCATION - SEWER PUMP STATION RESTORATIONS	Actual					\$60,171				\$0				SEWER PS #27 PHASE 2 - In construction SPS 13 REHAB - In design	This project consists of the upgrades of forcemains, pumps, generators, and electrical equipment.
	Planned					\$1,626,791	\$1,591,452	\$700,000			\$1,626,791	\$3,218,243	\$3,918,243		
ANNUAL ALLOCATION - PS 64, 65, PENASQUITOS & E. MISSION GORGE	Actual	\$0	\$0	\$0	\$901,601					\$901,601				Pump Station 64 Force Main Emergency repair - In Construction, project to be completed by 9/2012.	This annual allocation provides for upgrades, renovation or replacement of major equipment, such as pumps, valves, tanks, controls, and odor control systems at the prump stations. These improvements will allowthe pump stations to be run more efficiently. Projects are scheduled on a priority basis.
	Planned						\$598,399	\$0			\$901,601	\$1,500,000	\$1,500,000		
CIS ERP IMPLEMENTAION	Actual	\$0	\$0	\$0	\$7,142,387	\$1,971,541				\$7,142,387				This project provides for the establishment of an integrated, real-time enterprise customer service information and billing system.	
	Planned					\$1,971,541	\$0	\$0			\$9,113,928	\$9,113,928	\$9,113,928		
BEACH AREA LOW FLOW STORM DRAIN DIVERSION	Actual	\$20,380	\$2,292	\$3,969	\$601	\$0				\$27,242	\$27,242	\$27,242	\$27,242	This project will allow for the sewer overflow and low flow storm runoff to return to the sewer, preventing pollution in the beach areas.	This project and Storm Water Department's Beach Area Low Flow Storm Drain Diversion project, S-00603, provide for diversion of low flow storm runoff and sewer overflows.
	Planned														
<b>Completed</b>															
HOME AVENUE TRUNK SEWER	Actual	\$3,677	\$0	\$0	\$0					\$3,677	\$3,677	\$3,677	\$3,677		
N. MISSION VALLEY INTER	Actual	\$1,371	\$0	\$0	\$0					\$1,371	\$1,371	\$1,371	\$1,371		
CARMEL VALLEY TRUNK SEWER	Actual	\$15,508	\$677,700	\$2,788	\$2,843	\$2,493				\$698,839	\$701,332	\$701,332	\$701,332		
CHOLLAS VALLEY TRUNK SWR	Actual	\$53	\$0	\$0						\$53	\$53	\$53	\$53		
LA JOLLA/PACIFIC BEACH TS	Actual	\$54,609	\$21,037	\$0	\$0					\$75,646	\$75,646	\$75,646	\$75,646		
SEWER PUMP STATION 30A	Actual	\$154,049	(\$48,504)	\$0	\$0					\$105,545	\$105,545	\$105,545	\$105,545		
SORRENTO VLLY TRNK SEWER	Actual	\$143,641	\$43,173	\$0	\$0					\$186,814	\$186,814	\$186,814	\$186,814		
SOUTH PACIFIC HIGHWAY	Actual	(\$72)	\$0	\$0	\$0					(\$72)	(\$72)	(\$72)	(\$72)		
<b>NON- RATE CASE PROJECTS TOTAL</b>		<b>\$393,216</b>	<b>\$695,698</b>	<b>\$6,757</b>	<b>\$8,047,432</b>	<b>\$56,573,319</b>	<b>\$49,692,827</b>	<b>\$55,771,120</b>		<b>\$9,143,103</b>	<b>\$65,716,422</b>	<b>\$115,409,249</b>	<b>\$171,180,369</b>		

Wastewater (Metro) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		FY08	FY09	FY10	FY11	FY12	FY13	FY14	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Additional CIP Projects Not in Rate Case</b>															
ANNUAL ALLOCATION-METRO TREATMENT PLANTS	Actual					\$314,863				\$0				MBC Water Systems Improvements (D/B) - ongoing	This annual allocation provides for minor renovation or replacement of facilities at the treatment plant and associated
	Planned					\$2,961,398	\$7,700,000	\$5,550,000			\$2,961,398	\$10,661,398	\$16,211,398		
ANNUAL ALLOCATION MWWD TRUNK SEWERS (METRO)	Actual	\$0	\$0	\$0	\$23,059	\$34,361				\$23,059				The projected expenditures are for PS 2 FM 1 siphon and WPLIS repair and Rose Canyon TS Joint repair.	This annual allocation provides for the replacement of trunk sewers and sewer mains at various locations, including canyons within the City.
	Planned						\$100,000	\$1,500,000			\$23,059	\$123,059	\$1,623,059		
<b>Cancelled</b>															
NCWRP-EDR UPGRADE	Actual	\$0	\$0	\$0	\$0	\$0				\$0	\$0	\$0	\$0	This work to be performed by O&M staff.	This project provides for the upgrade of the electro dialysis reversal (EDR) equipment at the North City Water Reclamation Plant including piping, pumps, chemical feed system, and automatic backwash prefiltration.
<b>Completed</b>															
ALVARADO WATER QUALITY LAB ROOF	Actual	\$0	\$315,357	\$20,666	\$0	\$0				\$336,023	\$336,023	\$336,023	\$336,023	Completed	This project provided for the removal and replacement of approximately 58,000 square feet of roofing, installation of California Title 24 roof coating, the removal and installation of HVAC ductwork at the water chemistry and industrial waste unit offices and the installation of miscellaneous sheet metal and flashing.
NCWRP-EDR ENCLOSURE	Actual	\$0	\$0	\$72,042	\$0	\$0				\$72,042	\$72,042	\$72,042	\$72,042	Completed	This project will provide an enclosure around the Electro Dialysis Reversal (EDR) at the North City Water Reclamation Plant (NCWRP) to prevent harmful ultraviolet rays and coastal high salinity environmental levels from attacking existing equipment.
MBC CENTRATE COLLECTION UPGRADES	Actual	\$15,560	\$182,353	\$264,379	\$1,603,135	\$53,632				\$2,065,426	\$2,119,058	\$2,119,058	\$2,119,058	This project is anticipated to be completed in FY12.	This project will convert the existing foul air ducting at the centrifuges into dual-use headers for centrate and foul air collection. The improvement will prevent on-going centrate backups into the foul air duct headers and damage to the centrifuges.
SOUTH BAY WATER RECL. PLANT	Actual	\$19,403	\$0	\$0	\$0	\$0				\$19,403	\$19,403	\$19,403	\$19,403		This project provides for the construction of the South Bay Water Reclamation Plant, a 15 million gallon per day plant that will treat raw sewage and produce reclaimed water for beneficial use in the South Bay area.
ENVIRONMENTAL MONITORING AND TECH. SERVICES LAB	Actual	\$73,258	\$6,145	\$0	\$0	\$0				\$79,403	\$79,403	\$79,403	\$79,403		This project provides for a laboratory facility for the Department.
<b>NON- RATE CASE PROJECTS TOTAL</b>		<b>\$108,221</b>	<b>\$503,855</b>	<b>\$357,087</b>	<b>\$1,626,194</b>	<b>\$3,015,030</b>	<b>\$7,800,000</b>	<b>\$7,050,000</b>		<b>\$2,595,356</b>	<b>\$5,610,386</b>	<b>\$13,410,386</b>	<b>\$20,460,386</b>		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
<b>Rate Case - Ongoing</b>							
AA - Water Pump Station Rehabilitations	Rate Case	\$2,000,000				Delayed due to a rebid for the Scripps Ranch PS Upgrade (D/B). This project is in design and construction is expected to be completed by 12/2013.	This project provides for replacing deteriorated pumping equipment and appurtenances or expanding pumping capacities to meet present and future water demands.
	Actual		\$281,160				
	Planned			\$2,649,344	\$15,404,113		
Tierrasanta (Via Dominique) Pump Station	Rate Case	\$200,000				Delayed due to design change to include keeping the existing Via Dominique Pump Station as a back-up, and integrating the Instrumentation and Controls system of the existing PS into the new Tierrasanta Pump Station. Construction is expected to be completed by 3/2015.	Construction of a dual purpose pump station and approximately 2,300 linear feet of new distribution main. One half of the pump station will get suction of the 712 zone and pump it to the 752 zone. The second half of the pump station will get suction of the 752 zone and pump to the 900 zone.
	Actual		\$80,174				
	Planned			\$630,174	\$5,156,658		
AA - Dams And Reservoirs	Rate Case	\$1,200,000				Delayed due to the environmental permitting process for the Scripps Ranch Res Slope Repair & Bracket Replacement. This project is in design and construction is expected to be completed by 3/2014.	This project provides for rehabilitating and reconstructing improvement projects at reservoirs and dams. Projects include resurfacing access roads, reconstructing berms, installing lighting around dams, and sandblasting and shotcreting all exposed surfaces of the dams.
	Actual		\$105,752				
	Planned			\$298,863	\$320,320		
AA - Standpipes & Reservoirs	Rate Case	\$2,000,000				La Jolla Country Club Reservoir Emergency Repair - Completed Dulzura Conduit Flume 22 - In construction	This project provides for reconstructing standpipes and reservoirs to improve operations and extend their useful life
	Actual		\$1,286,479				
	Planned			\$2,530,081	\$3,808,512		
San Carlos Reservoir Interior Enhancement	Rate Case	\$500,000				Delayed due to a rebid. The cost increase includes structural repair. Construction is anticipated to be completed by 4/2012.	This project will install a synthetic membrane lining system to prevent leakage from the 5.0 MG prestressed wire-wrapped concrete circular potable water tank located at the intersection of Wing Span Drive and Tommy Drive in the San Carlos community.
	Actual		\$205,033				
	Planned			\$1,086,154	\$1,183,862		
Catalina Standpipe Renovation	Rate Case	\$3,000,000				Delayed due to a rebid. Construction is anticipated to start 4/2012 and to be completed by 9/2013.	The Catalina Standpipe was built in 1954. This project is to build a new 2.0 MG steel standpipe.
	Actual		\$125,804				
	Planned			\$630,804	\$1,946,378		
Pomerado Park Reservoir Upgrade	Rate Case	\$100,000				Project delayed 2 years because it's ranked low on the priority list.	Project includes both exterior and interior surface restoration, seismic cathodic protection, and structural improvements
	Actual		\$0				
	Planned			\$0	\$50,033		
AA - Reclaimed Water Extension	Rate Case	\$2,000,000				Delayed due to the customer's readiness to retrofit their sites or obtaining the proper recycled water permits.	This project provides for extensions of the North City reclaimed water distribution pipeline network beyond the sphere of influence of the existing North City Reclaimed Water distribution pipelines. This project also improves the reclaimed water distribution system as the demands for reclaimed water increases.
	Actual		\$310,566				
	Planned			\$310,566	\$310,566		
AA - Corrosion Control	Rate Case	\$400,000				No new projects were identified.	This Annual Allocation will fund the installation of corrosion protection (such as "anode beds" and "deep well anodes") to extend the service life of existing facilities.
	Actual		\$0				
	Planned			\$0	\$0		
AA - Pressure Reduction Facility	Rate Case	\$900,000				Currently there are no projects identified under this annual allocation. All current pressure reduction facility improvements are being completed as part of related pipeline projects.	This annual allocation will install new pressure reduction facilities, and replace of upgrade existing pressure reduction facilities to meet present and future water demands. Individual sub-projects will be created as required.
	Actual		\$0				
	Planned			\$0	\$0		
AA - Freeway Relocations	Rate Case	\$200,000					This project provides for relocation of water lines in conflict with California Department of Transportation (Caltrans) highway construction program.
	Actual		\$296,665				
	Planned			\$296,665	\$346,665		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
Pacific Highlands Ranch RWP (Participation Agreement)	Rate Case	\$1,500,000					Project delayed due to a slow development activity caused by market conditions	This project constructs approximately 11,800 lineal feet of new 12-inch and 16-inch diameter PVC pipe, beginning East of Santa Fe Farms Road moving westerly along Carmel Valley Rd to the intersection of SR 56.
	Actual		\$102,372					
	Planned			\$102,372	\$102,372	\$102,372		
La Jolla Shores Drive 16 Inch	Rate Case	\$700,000					Construction is scheduled to be completed by 7/2012.	This project is the 3rd phase of the Torrey Pines Blvd Pipeline. It replaces approximately 4,400 lineal feet of 16-inch Cast Iron Water Main in the La Jolla Area.
	Actual		\$347,729					
	Planned			\$1,766,227	\$2,010,245	\$2,016,550		
Harbor Drive Pipeline	Rate Case	\$800,000					Construction is anticipated to start 7/2012 and complete by 11/2013.	This project replaces 4.4 miles of 16" Cast Iron water pipeline from Harbor Drive Bridge to the Point Loma Reservoir
	Actual		\$733,199					
	Planned			\$1,333,199	\$6,936,841	\$11,430,593		
Miramar Water Treatment Plant - Landscape & Sitework- Contract D	Rate Case	\$4,700,000					Project delayed due to the Miramar Clearwell Improvements project. Construction is anticipated to be completed by 2/2013 (FY13).	Miramar WTP landscaping & irrigation, portion of the plant perimeter fence upgrade, Bulk chemical storage retaining wall slope stabilization, and System Urban Stormwater Mitigation Plan, Weather station upgrade.
	Actual		\$263,165					
	Planned			\$1,528,479	\$2,428,908	\$2,428,908		
Lower Otay Reservoir	Rate Case	\$5,700,000					Project delayed due to San Vicente Dam Raise Construction by CWA in order to maintain adequate storage levels to meet projected demands. Construction is scheduled to begin at the end of 2013.	The existing Savage Dam creates the Lower Otay Reservoir. At the present time, 56 days are required to achieve a 10% drawdown of the reservoir through the existing 40-inch outlet pipe. State regulation requires 10% drawdown in a maximum of 10 days. This project will increase the drawdown rate by installing dual 48-inch drain pipes through the existing auxiliary spillway (in addition to existing 40-inch described above). Installation will include two 48-inch butterfly valves and 48-inch flap gates on the spillway bulkheads and intake screens on the upstream end. Length of each pipe will be 70-feet. This project will also include the seismic retrofit of the outlet tower.
	Actual		\$340,637					
	Planned			\$1,465,979	\$1,713,118	\$1,713,118		
Water Dept Security Upgrade	Rate Case	\$200,000					Includes all other subprojects not called out separately in the rate case.	This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons.
	Actual		\$1,222,681					
	Planned			\$6,074,825	\$9,736,832	\$11,088,101		
Wtr Dept Security Upgrade - Miramar	Rate Case	\$100,000						This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons.
	Actual		\$487,111					
	Planned			\$487,111	\$487,111	\$487,111		
Wtr Dept Security Upgrade - Regulators	Rate Case	\$700,000						This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons.
	Actual		\$11,542					
	Planned			\$11,542	\$11,542	\$11,542		
Wtr Dept Security Upgrade - Reservoirs & Dams	Rate Case	\$1,400,000						This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons.
	Actual		\$134,455					
	Planned			\$282,980	\$1,075,114	\$1,124,622		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
South County Raw Water Reservoir Intertie Study	Rate Case \$800,000					Project scheduling relies on 1) Finalizing an agreement with Sweetwater Authority (SWA) to conduct as a joint agency study, 2) Securing grant funding for the study, and 3) Completing the consultant selection process. SWA has the lead on all three of the above items. Joint study pending.	A study to examine connecting San Vicente Reservoir to El Capitan Reservoir to Sweetwater Reservoir and to Loveland Reservoir to improve reservoir management and to better utilize the storage capacity of all four (4) reservoirs. By being connected, it can store additional water and transfer water from one reservoir to another.
	Actual	\$0					
	Planned		\$0	\$0	\$0		
El Capitan Pipeline No. 2	Rate Case \$7,700,000					Project delayed pending the completion of condition assessment. Condition assessment is scheduled for FY13.	This project provides for a pipeline parallel to the existing 48-inch El Capitan Pipeline with 41,490 linear feet of new 54-inch pipeline.
	Actual	\$84,406					
	Planned		\$304,843	\$525,280	\$745,717		
El Monte Pipeline No. 2	Rate Case \$8,100,000					Project delayed pending the completion of condition assessment. Condition assessment projected to start in FY12.	This project would build a new 60-inch pipeline with a capacity of 150 million gallons per day (MGD) between the Lakeside Pump Station and the Alvarado Water Treatment Plant.
	Actual	\$12,553					
	Planned		\$12,553	\$2,612,553	\$3,500,000		
Kearny Mesa Pipeline Upgrade	Rate Case \$600,000					Project delayed pending the completion of condition assessment. Condition assessment is scheduled in FY14.	This project provides for the replacement of the Kearny Mesa Pipeline. There will be 49,000 linear feet of 36 inch and 30 inch pipeline replaced.
	Actual	\$3,396					
	Planned		\$3,396	\$3,396	\$1,203,396		
Lindbergh Field 16-inch Cast Iron Replacement	Rate Case \$200,000					Construction is anticipated to start 7/2012 and complete by 11/2013.	This project relocates the transmission main from underneath the tarmac (landing strip) at Lindbergh Field to a location that is more accessible for operation and maintenance.
	Actual	\$363,988					
	Planned		\$870,988	\$6,245,613	\$6,642,880		
Kensington Pressure Regulator	Rate Case \$100,000					During the Water Master Planning Project prioritization effort it was determined to put this project on-hold.	This project will install two pressure regulating stations at the Kensington Park Villas in order to provide more consistent water pressure throughout the community.
	Actual	\$0					
	Planned		\$0	\$41,169	\$343,076		
Lake Hodges Dam Modification	Rate Case \$300,000					Construction is anticipated to be completed by FY15.	Construction of a parapet wall on top of the Hodges dam. The geotechnical study of the dam foundation determined that dam overtopping flows could potentially erode the left abutment of the dam during a Probable Maximum Flood event and compromise the stability of the dam. The parapet wall will protect the dam and mitigate the possible overtopping.
	Actual	\$0					
	Planned		\$0	\$74,304	\$192,709		
<b>Subtotal (Ongoing)</b>	<b>\$46,100,000</b>	<b>\$6,798,867</b>	<b>\$22,677,145</b>	<b>\$62,531,505</b>	<b>\$81,467,080</b>		
<b>Rate Case - Completed</b>							
AA - Water Main Replacements	Rate Case \$153,900,000					A total of 88.5 Cast Iron water main replacement miles have been awarded between FY08-FY11.	This annual allocation allows for the replacement of water mains at various locations throughout the City. A total of 75 replacement miles was projected in the Rate Case.
	Actual	\$115,894,707	\$115,894,707	\$115,894,707	\$115,894,707		
AA - Meter Boxes	Rate Case \$2,000,000					Bid came in lower than estimated. Backlog of meter boxes has been completed. The remaining work to be funded out of O&M	This annual allocation provides for the upgrade and replacement of water meter boxes.
	Actual	\$519,055	\$519,055	\$519,055	\$519,055		
Alvarado Water Treatment Plant-Ozone Improv	Rate Case \$65,800,000					Bid came in lower than the Engineer's estimate.	This project consists of the installation of ozone generation and pumping facilities. Ozone generation facilities necessary to meet new Federal Drinking Water Standards and State of California Department of Health Services
	Actual	\$56,704,738	\$57,011,207	\$57,011,207	\$57,011,207		
Alvarado Water Treatment Plant Rehab Floc/Sed Basins	Rate Case \$19,800,000					Bid came in lower than the Engineer's estimate.	This project rehabilitates the existing Flocculation / Sedimentation basins 1 and 2.
	Actual	\$15,695,760	\$15,738,443	\$15,738,443	\$15,738,443		
Barrett Reservoir Outlet Tower Upgrade	Rate Case \$900,000						The Barrett Reservoir dam is a concrete gravity structure with a 120 foot high outlet tower with 26 automatic flash gates located in the spillway. The project includes replacing valves and bulkheads, improving ventilation and repairing concrete surfaces.
	Actual	\$1,912,938	\$1,912,938	\$1,912,938	\$1,912,938		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
CALTRANS - Carroll Canyon Bridge	Rate Case	\$2,000,000						Caltrans is widening the Carrol Canyon Bridge crossing I-15. They will replace the water main and the two recycled water mains in the new bridge. The City will pay for that cost.
	Actual		\$1,645,938	\$1,645,938	\$1,645,938	\$1,645,938		
CIP Program Management	Rate Case	\$16,000,000					All future work will be funded by O&M budget.	This project augments the Water Department CIP Program team with engineers and other specialized personnel and services to complete the implementation of projects on schedule.
	Actual		\$1,591,563	\$1,591,563	\$1,591,563	\$1,591,563		
Fault Crossing Retrofit to Large Pipelines	Rate Case	\$1,000,000					Bid came in higher than expected.	There are six large diameter pipelines that cross the Rose Canyon Fault that have been determined vulnerable. It is recommended to retrofit the pipelines using new fault tolerant pipelines and/or install manual isolation valves on either side of the fault.
	Actual		\$1,790,946	\$1,790,946	\$1,790,946	\$1,790,946		
Landslide Liquefaction Pipelines Mitigation	Rate Case	\$2,300,000					Change in project scope	Install 40 pipeline manifold and isolation valve sets at critical backbone pipeline locations that traverse high liquefaction and high landslide zones.
	Actual		\$3,627,967	\$3,627,967	\$3,627,967	\$3,627,967		
Miramar Water Treatment Plant - Contract A	Rate Case	\$2,600,000						This project includes rehabilitation of existing components and construction of new components for future plant capacity expansion from 140 mgd to 215 mgd. The expansion work will involve: new plant Influent Structure, new control system, new Deaeration/Pre-Ozonation Basin, new main switchgear building, new chemical Rapid Mix, new chlorine building, new Splitter Box, new bulk chemical, new Ozone Contactors, new chemical feed building, 12 new filters, new administration building, new Equalization Basin for Filter Backwash and Filter-to-Waste flow Yard Piping, including 120-inch filter effluent pipe with connection to existing clearwells #1 and 2; 54-inch pipe connection from the splitter box to existing Floc/Sed Basins 1, 2 and 3; 54-inch Backwash Waste pipe from the Filter to the Equalization Basin; Two 30-inch Filter-to-Waste pipes from the Filter to the Equalization Basin; and 84-inch overflow pipe from the ozone contactors to join the 108-inch plant overflow pipe constructed in ESIP-II, new Administration Building with pedestrian bridge, new Chemical Feed System (bulk chemical and day tank buildings), new Electrical Substation, demolition of temporary Raw and Finished Chemical Feed System constructed in ESIP-II and demolition of existing Flocculation/Sedimentation Basin #4.
	Actual		\$5,232,506	\$5,232,506	\$5,232,506	\$5,232,506		
Miramar Water Treatment Plant Floc & Sedime - Contract B	Rate Case	\$71,100,000					Bid came in lower than expected.	This project will expand the plant capacity from 140 mgd to 215 mgd. The work will involve: Construction of 4 new Flocculation and Sedimentation basins 5, 6, 7 and 8 inclusive of associated piping, Demolition of the twelve existing filters, the existing backwash water tank and associated piping, existing Flocculation and Sedimentation basins 3 and 4, and the existing Operations Building, Construction of 60 inch influent pipelines to the New Flocculation Basins, and Construction of 108 inch & 120 inch settled water pipelines.
	Actual		\$56,515,543	\$56,515,543	\$56,515,543	\$56,515,543		
Miramar Water Treatment Plant Ozone - Contract C	Rate Case	\$28,600,000					Bid came in lower than expected.	This project consists of installation of Ozone equipment and Liquid Oxygen delivery and storage facilities. Three Ozone generators will be provided to generate ozone for supply and distribution of ozonated feed gas to four ozone contactors. Once this project is completed, ozone will replace chlorine as primary disinfectant.
	Actual		\$23,856,996	\$23,856,246	\$23,856,246	\$23,856,246		
Otay Second Pipeline - Cast Iron Main Replacement	Rate Case	\$14,900,000					Bid came in lower than the Engineer's estimate.	Install 1.3 miles of new 42-inch welded steel pipe in 54th Street between El Cajon Blvd and Chollas Station Road. This segment includes flow meters, pressure control valves, and connections to the Trojan Pipeline at Trojan Avenue.
	Actual		\$11,370,481	\$11,371,557	\$11,371,557	\$11,371,557		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
Otay Second Pipeline - North Encanto Replacement	Rate Case	\$7,900,000					Bid came in lower than the Engineer's estimate.	The North Encanto Replacement is one of the City's oldest pipelines with sections of 36-inch diameter cast iron pipe that are more than 75 years old. To provide the reliability needed in the City's water distribution system, this project will replace approximately 7,000 feet of deteriorated or inaccessible pipe between State Route 94 and the 65th and Herrick Pump Station. The project alignment extends from the intersection of Tooley and 60th Streets, traversing south along 60th Street to Brooklyn Avenue, where it turns eastward and extends along Brooklyn Avenue to Otay Street, turning southeast and extending along Otay Street to the intersection of Herrick and 65th Streets.
	Actual		\$6,697,589	\$6,697,589	\$6,697,589	\$6,697,589		
Otay Water Treatment Plant - Phase 1	Rate Case	\$19,000,000						This project will construct a new flocculation and sedimentation basin and make improvements to the sixteen existing filters. The filter improvements include providing a pumped backwash system, a filter to waste system, replacing the filter under drains and increasing the media depth.
	Actual		\$21,740,065	\$21,759,830	\$21,759,830	\$21,759,830		
Otay Water Treatment Plant - Phase 2 (CLO2)	Rate Case	\$15,300,000					Bid came in lower than the Engineer's estimate.	The Otay WTP upgrades Phase 2 project will construct a Chlorine Dioxide system.
	Actual		\$13,613,102	\$13,641,664	\$13,641,664	\$13,641,664		
Rancho Bernardo Reservoir Rehabilitation	Rate Case	\$6,700,000						The project provides for the rehabilitation of the 10-million gallon, trapezoidal-shaped concrete reservoir. Work will include improvements of the beam connections, repairs of the roof slab and columns and a seismic retrofit to bring the reservoir up to code compliance mandate by Water Department and State Department of Health Service standards.
	Actual		\$7,900,774	\$7,900,774	\$7,900,774	\$7,900,774		
Rancho Penasquitos Pump Station	Rate Case	\$10,400,000						Project includes construction of a new pump station adjacent to the existing station, and demolition of the existing structure. The replacement station includes a 25-foot x 88-foot CMU building, housing three 8.3 mgd duty pumps and one 8.3 mgd standby pump initially, with the capability of being expanded in the future. The project also includes replacement of site piping and installation of a new Del Mar Heights Pressure Reducing Station concurrently with the pump station construction.
	Actual		\$11,657,571	\$11,657,571	\$11,657,571	\$11,657,571		
San Pasqual Brackish Groundwater Desal Demo Ph III	Rate Case	\$2,500,000						The project entails extracting and desalinating groundwater, resulting in the production of 1,700 AFY of desalinated water and 300 AFY of concentrate.
	Actual		\$2,843,873	\$2,843,873	\$2,843,873	\$2,843,873		
Wtr Dept Security Upgrade - Enclosed Pump Stations	Rate Case	\$2,400,000						This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons. The VA recommended \$20,430,000 in upgrades on existing water facilities. Individual sub-projects may be created, as required.
	Actual		\$1,861,396	\$1,926,673	\$1,926,673	\$1,926,673		
Wtr Dept Security Upgrade - Tank Standpipe Res	Rate Case	\$1,900,000						This CIP project was created in compliance with the Vulnerability Assessment Report (VA), dated December 31, 2002. Thus, it will design and install miscellaneous security systems at various facilities to improve security, control entry and reduce opportunities for intrusion of unauthorized persons.
	Actual		\$2,054,282	\$2,063,009	\$2,063,009	\$2,063,009		
<b>Subtotal (Completed)</b>		<b>\$447,000,000</b>	<b>\$364,727,790</b>	<b>\$365,199,599</b>	<b>\$365,199,599</b>	<b>\$365,199,599</b>		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
<b>Rate Case - On Hold</b>								
Alvarado Water Treatment Plant Upgrade/Exp - SDFCF 12	Rate Case	\$4,500,000					Onhold due to decreased demands. Project will be re-initiated when demands increase and exceed current facility capacities.	In order to meet capacity of the Alvarado WTP Upgrade and Expansion (AWTP) project from 120 MGD to 200 MGD, it is necessary to upgrade CWA's existing flow control facility (SD12) to increase capacity of raw water to AWTP.
	Actual		\$323	\$323	\$323	\$323		
Camino Del Sur RW Project - E&CP Road Improvement Pipeline	Rate Case	\$800,000					Due to the presence of a vernal pool plant species, the project was enjoined during the vernal pool litigation.	This proposed recycled water pipeline is part of the Camino Del Sur Road extension project. This pipeline includes the construction of approximately 2,600 linear feet of 24-inch diameter steel recycled water pipeline, to occur concurrently with the construction of the road extension. This will provide a vital connection to serve recycled water to the Rhodes Crossing Development, Torrey Highlands (Subarea IV), Fairbanks Highlands, Pacific Highlands, Carmel Valley and future customers in the 500 Zone. This proposed project is an integral part of the City's reclaimed distribution network since it is the piece needed to charge the system to serve SR-56 and customers in Pacific Highlands.
	Actual		\$2,265	\$2,265	\$2,265	\$2,265		
Camino Del Sur RW Pipeline - Participation Agreement	Rate Case	\$1,500,000					Due to the presence of a vernal pool plant species, the project was enjoined during the vernal pool litigation.	The Camino Del Sur RWP (Participation Agreement) is located in the Rancho Penasquitos/Torrey Highlands area of the City of San Diego. A portion of which lies within the North City Planned Urbanizing Area (NCPUA) Subarea IV and along State Route 56 as it crosses the southern extensions of Carmel Mountain Road and Camino del Sur within Subarea IV. The proposed project is a 24-inch recycled water transmission main on Camino del Sur. The City will enter into a participation agreement with the developer to construct the pipeline concurrently with the construction of Camino del Sur.
	Actual		\$0	\$0	\$0	\$0		
Otay Second Pipeline - Cathodic Protect Otay Ranch	Rate Case	\$400,000					Project delayed because it's ranked low on the Water Master Plan Priority List.	17,000 feet of existing pipeline between the South San Diego Reservoir and Olympic Parkway require installation of cathodic protection.
	Actual		\$0	\$0	\$0	\$0		
El Capitan Reservoir Road Improvements	Rate Case	\$3,300,000					Construction has been re-scheduled to begin in Fiscal Year 2014	This project provides for repairing and widening the access road to El Capitan Reservoir.
	Actual		\$0	\$0	\$0	\$0		
San Pasqual Groundwater Desalination	Rate Case	\$27,700,000					Onhold pending the completion of the San Pasqual Brackish Groundwater Desalination Demonstration project to determine the project scope.	This project component entails extracting 5,800 AFY of groundwater from the western portion of the basin and desalinating it by means of a RO water treatment plant. The water supply produced will be approximately 5,000 AFY.
	Actual		\$0	\$0	\$0	\$0		
San Diego Flow Control Facilities 24, 25, 26	Rate Case	\$3,800,000					Onhold due to decreased demands. Project will be re-initiated when demands increase and exceed current facility capacities.	In order to meet capacity of the Miramar WTP Upgrade and Expansion (MWTP) project from 140 MGD to 215 MGD, it is necessary to upgrade CWA's existing flow control facility (5A/5B/5C) to increase capacity of raw water to MWTP.
	Actual		\$35,074	\$35,074	\$35,074	\$35,074		
<b>Subtotal (On Hold)</b>		<b>\$42,000,000</b>	<b>\$37,662</b>	<b>\$37,662</b>	<b>\$37,662</b>	<b>\$37,662</b>		

Water Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	COMMENTS	PROJECT DESCRIPTION
<b>Rate Case - Cancelled</b>								
AA - Air Valve Adjustment	Rate Case	\$1,200,000						This annual allocation includes raising or rehabilitating existing air and vacuum release valve vents and air release valves from below grade to above grade, and enclosing the vents in 3/16 inch steel cylinders mounted on concrete pads (in accordance with City of San Diego Standard Drawing No. SDW-117).
	Actual		\$0	\$0	\$0	\$0		
Alvarado Water Treatment Plant Ph 5 Sitewrk	Rate Case	\$100,000					This work is completed under Alvarado WTP Phases 3 and 4.	This phase includes landscaping of shoreline, addition of Ozone Generator #4 and Ozone Propeller Pump #4.
	Actual		\$0	\$0	\$0	\$0		
San Diego 17 Flow Control Facility	Rate Case	\$15,100,000					Mid-City Pipeline Phase 2 will provide redundancy for the Trojan Pipeline, which the new SD17 was going to provide.	This project provides for the installation of a new flow control facility and a water pump station at the Alvarado Water Treatment Plant to pump potable water into the County Water Authority's pipeline.
	Actual		\$882,277	\$882,277	\$882,277	\$882,277		
Alvarado Service Area Improvements	Rate Case	\$5,000,000					Future projects will be evaluated as demands increase	Unidentified projects that require funding per master planning study.
	Actual		\$0	\$0	\$0	\$0		
Otay Service Area Improvements	Rate Case	\$5,000,000					Future projects will be evaluated as demands increase	Unidentified projects that require funding per master planning study.
	Actual		\$0	\$0	\$0	\$0		
Miramar Service Area Improvements	Rate Case	\$5,000,000					Future projects will be evaluated as demands increase	Unidentified projects that require funding per master planning study.
	Actual		\$0	\$0	\$0	\$0		
<b>Subtotal (Cancelled)</b>		<b>\$31,400,000</b>	<b>\$882,277</b>	<b>\$882,277</b>	<b>\$882,277</b>	<b>\$882,277</b>		
<b>Rate Case - Contingency</b>								
AA - CIP Pooled Contingencies	Rate Case	\$16,700,000					Funds are not expended within the AA. They are moved to the actual projects authorized by Council to use Pooled Contingency funds.	This annual allocation provides for Capital Improvement Program contingency needs.
	Actual		\$0	\$0	\$0	\$0		
AA - Pooled Contingencies - RWDS	Rate Case	\$2,000,000					Funds are not expended within the AA. They are moved to the actual projects authorized by Council to use Pooled Contingency funds.	This annual allocation provides for Capital Improvement Program contingency needs.
	Actual		\$0	\$0	\$0	\$0		
<b>Subtotal (Contingency)</b>		<b>\$18,700,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>RATE CASE PROJECTS TOTAL</b>		<b>\$585,200,000</b>	<b>\$372,446,596</b>	<b>\$388,796,683</b>	<b>\$428,651,043</b>	<b>\$447,586,618</b>		
<b>Additional CIP Projects Not in Rate Case</b>								
<b>NON- RATE CASE PROJECTS TOTAL</b>			<b>\$20,466,411</b>	<b>\$88,041,093</b>	<b>\$149,900,120</b>	<b>\$225,940,660</b>		
<b>TOTAL</b>		<b>\$585,200,000</b>	<b>\$392,913,007</b>	<b>\$476,837,776</b>	<b>\$578,551,163</b>	<b>\$673,527,278</b>		

Sources:  
FY08 GPSR; FY09 GPSR; FY10 (Period 12) SAP Budget to Actual run 10-12-11;  
FY11 (Period 12) SAP Budget to Actual run 7/12/11;  
FY12 (Period 3) SAP Budget to Actual run 10/7/11.  
SAP Budget to Actuals do not include Grant Fund expenditures  
Figures have been rounded to nearest dollar.

Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Rate Case - Ongoing</b>								
ANNUAL ALLOCATION - PIPELINE REHABILITATION	Rate Case	\$106,829,769					A total of 102.1 miles have been completed between FY08-11.	This project consists of the trenchless rehabilitation of sewer pipelines and manholes. The Rate Case included 30 miles in FY08, 35 miles in FY09 and 25 miles each in FY10 and FY11 for a total of 115 miles.
	Actual		\$46,876,905					
	Planned			\$50,211,042	\$50,211,042	\$50,211,042		
ANNUAL ALLOCATION - MWWD TRUNK SEWERS (MUNI)	Rate Case	\$11,285,965					54TH & MARKET - Completed 6300 Alvarado Channel Pipe Crossing - Completed 7TH & BROOKES ST. ACCEL.-Completed OLD ROSE CYN TS RELOCATION - Completed SR-905 OTAY MESA - Utility Agreement w/Caltrans	Replacement or relocation of various trunk sewers that have reached their useful life.
	Actual		\$18,244,789					
	Planned			\$29,184,134	\$43,517,899	\$43,817,899		
ANNUAL ALLOCATION - PS 64, 65, PENASQUITOS & E. MISSION GORGE	Rate Case	\$1,668,146					Pump Station 65 Capacity Upgrade - In design, construction to be completed by 3/2014.	This annual allocation provides for upgrades, renovation or replacement of major equipment, such as pumps, valves, tanks, controls, and odor control systems at the prump stations. These improvements will allowthe pump stations to be run more efficiently. Projects are scheduled on a priority basis.
	Actual		\$539,810					
	Planned			\$639,810	\$3,541,411	\$6,000,000		
EAST MISSION GORGE FORCE MAIN REHABILITATIONS	Rate Case	\$3,852,103					Delayed due to the re-evaluation of project scope (lining versus sliplining with a smaller diameter pipe).	This project will line sections of the Force main that are exposed to corrosive gases. CCTV inspection has determined that these sections are substantially deteriorated due to corrosion .
	Actual		(\$265,664)					
	Planned			(\$265,664)	(\$265,664)	(\$215,664)		
EAST POINT LOMA TRUNK SEWER	Rate Case	\$20,629,313					Delayed due to scope change from pipe replacement to rehabilitation. This scope change reduced the project cost from \$20.6M to \$3M. Construction was completed in 12/2011.	This project consists of the rehabilitation of approximately 4,932 LF of 27-inch trunk sewer and 3,229 LF of 30-inch trunk sewer, sewer manholes rehabilitations, sewer lateral connections. <b>Original scope:</b> This project consists of replacing of 1.6 miles of existing 27 and 30 inch pipe with a 36 inch pipeline in Cushing Road.
	Actual		\$579,732					
	Planned			\$2,079,732	\$3,280,973	\$3,280,973		
HARBOR DRIVE TRUNK SEWER REPLACEMENT	Rate Case	\$13,422,358					Construction to be completed by 11/2012.	This project consists of upgrading portions of the existing Harbor Drive Trunk Sewer with 15-inch, 18-inch, 48-inch and 54-inch pipe. The trunk sewer starting 225 feet downstream of manhole #52 up to manhole #205 will be replaced or lined. The new pipeline will remain in the existing alignment.
	Actual		\$337,530					
	Planned			\$4,212,530	\$12,398,748	\$12,398,748		

**Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual**

PROJECT TITLE		Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
MONTEZUMA TRUNK SEWER	Rate Case	\$2,418,682					Project originally anticipated to be funded FY08-FY12. Delayed due to a redesign to reduce the amount of tunnelling work and acquisition of a Caltrans permit. Construction will start 7/2012 and be completed by 3/2013.	This project consists of replacing 7,740 feet of existing 12, 15, 21, and 27-inch pipe.
	Actual		\$294,466					
	Planned			\$394,466	\$4,007,578	\$5,736,198		
PUMP STATION 84 UPGRADE & PUMP STATION 62 ABANDONMENT	Rate Case	\$2,010,816					Project originally anticipated to be funded FY11-FY12. Delayed by contracting issues with the existing design contract with HDR. Construction will start 6/2012 and be completed by 4/2013.	This project provides for the elimination of Sewer Pump Station 62 through the installation of various pipelines and the upsizing of Sewer Pump Station 84.
	Actual		\$950,628					
	Planned			\$1,450,628	\$9,265,500	\$13,265,500		
PUMP STATION UPGRADES	Rate Case	\$10,828,711					PS UPGRADES GROUP I - Completed PS GROUP IV - Completed PS GROUP II - City Wide SPS - In Construction, project to be completed by 10/2012 PS GROUP III - Sewer Force Mains - In Construction, project to be completed by 8/2012	This project consists of the upgrade to 23 pump stations. The upgrades will be broken into four construction packages. Upgrades consist of forcemains, pumps, generators, and electrical equipment.
	Actual		\$7,807,352					
	Planned			\$11,937,159	\$13,887,159	\$13,887,159		
USIU TRUNK SEWER	Rate Case	\$4,223,636					Higher project cost due to tunneling work (trenchless) to minimize construction impacts and the acquisition of an easement for the new alignment. Construction to be completed by 4/2012.	This project consists of replacing the existing 2.2-mile long, 12-inch to 15-inch diameter trunk sewer with a new, larger 18-inch to 24-inch trunk sewer.
	Actual		\$1,124,667					
	Planned			\$2,940,298	\$7,030,478	\$7,030,478		
<b>Subtotal (Ongoing)</b>		<b>\$177,169,499</b>	<b>\$76,490,214</b>	<b>\$102,784,134</b>	<b>\$146,875,123</b>	<b>\$155,412,332</b>		
<b>Rate Case - Completed</b>								
ANNUAL ALLOCATION - SEWER MAIN REPLACEMENTS	Rate Case	\$134,825,047					A total of 61 miles have been completed between FY08-11.	This project consists of the replacement of deteriorating sewer pipelines and manholes. The Rate Case included 10 miles in FY 09 and 20 miles each in FY10 and FY11 for a total of 50 miles.
	Actual		\$80,116,239	\$80,116,239	\$80,116,239	\$80,116,239		
ANNUAL ALLOCATION - ACCELERATED PROJECTS (This Annual merged with Annual Allocation Unscheduled in FY10)	Rate Case	\$1,403,332					More projects were completed than anticipated. 60TH STREET T.S. - Completed BAYSIDE/CAPISTRANO SWR - Completed DAKOTA CANYON ACCELERATED - Completed FAMOSA ACCELERATED - Completed HILLCREST & MISSION HILLS - Completed PALM AVE. ACCEL. SEWER - Completed  This Annual Allocation was closed in FY10 and merged into AA-Unscheduled.	This project provides for construction of urgent and accelerated projects necessary to reduce potential spills and costly operation and maintenance expenses.
	Actual		\$6,015,790	\$6,015,790	\$6,015,790	\$6,015,790		
ANNUAL ALLOCATION - UNSCHEDULED PROJECTS	Rate Case	\$4,383,679					UPPER ROSE CNYN JNCTN STR - Completed 5065 MONROE AVE. SWR MAIN - Completed OLD TROLLEY BARN PARK SWR - Completed 1730 CASTELLANA ROAD SWR - Completed PS 81 RESTORATION - Completed WATSON RANCH CREEK CROSSS - Completed	This annual allocation is used to fund emergency CIP projects that are identified by Wastewater Collections crews as needing immediate repair or replacement.
	Actual		\$4,461,575	\$4,492,451	\$4,492,451	\$4,492,451		

Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
ANNUAL ALLOCATION - TRUNK SEWER REHABILITATIONS (This Annual merged with Annual Allocation MWWD Trunk Sewers in FY10)	Rate Case	\$69,741,093				CROWN POINT TS - Completed PALM CITY TS - Completed PENASQUITOS VIEW TS - Completed Cabrillo TS - Completed, project scope changed from replacement to rehabilitation, a saving of approx. \$16 million.	This project consists of the replacement of various deteriorating or under capacity trunk sewer pipelines.
	Actual		\$3,465,076	\$3,465,076	\$3,465,076	Due to flow reductions from water conservation, these trunk sewers were deferred beyond the Rate Case period: Tecolote Canyon TS (\$16M), Mission Village TS (\$6.6M), ALVARADO TS Ph III 11/12 EPA (\$8.8M), BALBOA TERRACE TS 06/13 EPA (\$9.7M), and GRANTVILLE TS (TS#16) 11/12 EPA (\$4.4M)  This Annual was closed in FY10 and merged into AA- MWWD Trunk Sewers.	
ANNUAL ALLOCATION - SEWER PUMP STATION RESTORATIONS	Rate Case	\$11,021,587				SEWER PUMP STA #77 - Completed PUMP STATION 63 - Completed SEWER PUMP STA #27 - Completed	This project consists of the upgrades of forcemains, pumps, generators, and electrical equipment.
	Actual		\$13,014,773	\$13,343,923	\$13,343,923	SEWER PS#18, PH II - Completed SEWER PUMP STA #41 - Completed	
BALBOA TRUNK SEWER	Rate Case	\$9,522,867				Lower cost is due to scope reduction (eliminated downstream portion because there were no capacity issues) and change in design from tunneling work to open trench. Total project cost reduced from \$9.5M to \$2.5M.	This project consists of replacing 1,600 ft of existing 15-in pipe with new 24-in pipe, constructing 5,000 ft of new 18-in pipe, and replacing 800 ft of existing 12-in pipe with new 8-in pipe due to minimal flow in the trunk sewer
	Actual		\$2,193,465	\$2,718,160	\$2,718,160		
LAKE MURRAY IN CANYON TRUNK SEWER	Rate Case	\$14,308,090				Bid came in lower than the original estimates.	This project provides for the replacement of 3.0 miles of existing trunk sewer and the construction of maintenance access paths.
	Actual		\$8,687,289	\$10,366,815	\$10,366,815		
MIRAMAR ROAD TRUNK SEWER	Rate Case	\$3,653,259				Bid came in lower than the original estimates.	This project consists of replacing 5,500 feet of existing 15-inch pipeline with new 21-inch pipeline in Rose Canyon. The sewer replacement will be completed within the same alignment, and begins from approximately 1,500 feet east of I-805 and ends near Genesee Avenue.
	Actual		\$2,150,234	\$2,150,234	\$2,150,234		
SOUTH MISSION VALLEY TRUNK SEWER	Rate Case	\$13,125,288					This project provides for the installation of approximately 3,000 feet of new 36-inch trunk sewer along Interstate 8 between Taylor Street and Hotel Circle Place, and approximately 600 feet of new 24-inch trunk sewer at the Interstate 5/Interstate 8 interchange.
	Actual		\$13,194,040	\$14,012,125	\$14,012,125		
SEWER PUMP STATION #45	Rate Case	\$851,373				Majority of this project was funded prior to the Rate Case.	This project provides for demolition of existing sewer pump stations 28, 29, and 45.
	Actual		\$56,445	\$56,445	\$56,445		
SEWER PUMP STATION 79	Rate Case	\$3,036,189					This project consists of the construction of 8,400 feet of 12-inch force main and upgrade of the existing pump station pumps and electrical equipment.
	Actual		\$3,203,359	\$3,203,359	\$3,203,359		
<b>Subtotal (Completed)</b>		<b>\$265,871,803</b>	<b>\$136,558,285</b>	<b>\$139,940,618</b>	<b>\$139,940,618</b>		

Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Rate Case - Cancelled</b>							
PUMP STATION 64 ELECTRICAL UPGRADES	Rate Case	\$131,110					The existing Switch Gear was determined to be efficient and does not need to be upgrade.  This project provides modifications to the existing 2400 volt electrical distribution equipment to improve reliability of the pump station operations. This project will replace/upgrade key switchgear equipment and provide power monitoring equipment to better control station electrical demand and respond to electrical system emergencies.
	Actual		\$0	\$0	\$0	\$0	
PUMP STATION 64 FIBER OPTIC NETWORK	Rate Case	\$1,484,565					The option of upgrading the existing communication line was determined not to be cost-effective consequently this project was cancelled.  This project will install a fiber optic line between Pump Station 64 and North City Water Reclamation Plant.
	Actual		\$0	\$0	\$0	\$0	
OTAY MESA TRUNK SEWER	Rate Case	\$16,033,158					Development in the Otay Mesa area has been delayed due to the weak economy, therefore, the projected increase in flow to the Otay Mesa Trunk Sewer has not materialized. This project will be scheduled based on capacity needs. Funding will be bore by the developers through a Community Financing District.  This project will provide for adequate sewage capacity to accommodate future growth in the Otay Mesa community. This is a multi-phased project as described in the 2004 Otay Mesa Sewer Master Plan and Alignment Study. The project constructs all sewer pipes 18-inches and larger and upgrades the existing pump station 23T. Phase 2A1 constructs 2,634 feet of 42-inch pipe in Old Otay Mesa Road. Phase 2A2 constructs another 4,282 feet. Phase 2B1 constructs another 6,180 feet to connect to the San Ysidro Trunk Sewer.
	Actual		\$485,532	\$485,532	\$485,532	\$485,532	
ANNUAL ALLOCATION - DEVELOPER PROJECTS (This Annual merged with Annual Allocation Unscheduled in FY10)	Rate Case	\$2,205,242					Due to weak economy, the City has not entered into as many Participation Agreement as anticipated. This CIP was combined with the AA Unscheduled Projects in FY 11. This Annual was closed in FY10 and merged into AA- Unscheduled.  This project consists of coordinated pipeline replacements and upgrades in conjunction with private developers where required upgrades have already been identified.
	Actual		\$315,949	\$315,949	\$315,949	\$315,949	
<b>Subtotal (Cancelled)</b>		<b>\$19,854,074</b>	<b>\$801,481</b>	<b>\$801,481</b>	<b>\$801,481</b>	<b>\$801,481</b>	
<b>Rate Case - On Hold</b>							
ANNUAL ALLOCATION - MUNI FACILITIES CONTROL SYSTEMS UPGRADE	Rate Case	\$637,379					Control system upgrade for PS 64 and Penasquitos is anticipated to start in FY2015 with a total project cost of \$1.8M.  This project provides for the replacement and upgrade of the existing control system at various Muni Pump Stations.
	Actual		\$0	\$0	\$0	\$0	
<b>Subtotal (On Hold)</b>		<b>\$637,379</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>Rate Case - Contingency</b>							
ANNUAL ALLOCATION - CIP CONTINGENCIES	Rate Case	\$14,368,855					Funds are not expended within the AA. They are moved to the actual projects authorized by Council to use Pooled Contingency funds.  This annual allocation provides for Capital Improvement Program contingency needs.
	Actual		\$0	\$0	\$0	\$0	
<b>Subtotal (Contingency)</b>		<b>\$14,368,855</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
<b>RATE CASE PROJECTS TOTAL</b>		<b>\$477,901,611</b>	<b>\$213,849,980</b>	<b>\$243,526,232</b>	<b>\$287,617,221</b>	<b>\$296,154,431</b>	

Wastewater (Muni Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Additional CIP Projects Not in Rate Case</b>							
<b>NON- RATE CASE PROJECTS TOTAL</b>		\$9,143,103	\$65,716,422	\$115,409,249	\$171,180,369		
<b>TOTAL</b>	<b>\$477,901,611</b>	<b>\$222,993,083</b>	<b>\$309,242,655</b>	<b>\$403,026,471</b>	<b>\$467,334,800</b>		

Sources:  
 FY08 GPSR; FY09 GPSR; FY10 (Period 12) SAP Budget to Actual run 9/1/11;  
 FY11 (Period 12) SAP Budget to Actual run 9/1/11;  
 FY12 (Period 3) SAP Budget to Actual run 10/7/11.  
 SAP Budget to Actuals do not include Grant Fund expenditures  
 Figures have been rounded to nearest dollar.

Wastewater (Metro Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Rate Case - Ongoing</b>								
ENVIRONMENTAL MONITORING & TECH. SERVICES LAB BOAT DOCK	Rate Case	\$2,036,981					Project delayed because the Navy has not conveyed the property to the City. The Navy indicated they will issue a Right of Entry Permit or Licensing Agreement to allow the City to proceed with the project.	This project provides for a new boat dock to be constructed in the former Naval Training Center boat channel. This dock will provide mooring for two ocean monitoring vessels in support of the Environmental Monitoring and Technical Services Laboratory
	Actual		\$0					
	Planned			\$0	\$0	\$1,497,884		
MBC BIOSOLIDS STORAGE SILOS	Rate Case	\$9,167,765					In design. Construction is anticipated to start 12/2012 and be complete by 3/2014 (FY14).	The project will add two more storage silos and will also evaluate alternatives for additional truck loadout stations.
	Actual		\$872,063					
	Planned			\$972,063	\$2,555,438	\$7,555,438		
MBC DEWATERING CENTRIFUGES REPLACEMENT	Rate Case	\$1,451,980					Project originally anticipated to be funded FY09-FY13. Procuring a design build contractor. Construction is anticipated to start 3/2013 and be completed by 3/2016 (FY16).	This project replaces 4 existing dewatering centrifuge units with larger units to allow for increased capacity, equipment redundancy and increase recovery from shutdowns
	Actual		\$13,559					
	Planned			\$513,559	\$1,513,559	\$5,013,559		
MBC ODOR CONTROL FACILITY UPGRADES	Rate Case	\$5,362,139					Design anticipated in FY12. Construction to be completed by 6/2015 (FY15).	This project will upgrade the existing Odor Control System. The project will provide improvements to better capture foul air and ensure compliance with safety and APCD permit regulations.
	Actual		\$57,296					
	Planned			\$557,296	\$1,057,296	\$3,857,296		
METRO FACILITIES CONTROL SYSTEM UPGRADE	Rate Case	\$11,381,533					MBC Control System Upgrade - Completed Pt. Loma Control System Upgrade - In construction and expected to be completed by FY13.	This project provides for the replacement and upgrade of the existing control system at various Metropolitan Wastewater treatment and pump station facilities. These facilities include Metro Biosolids Center, North City Water Reclamation Plant, Point Loma Treatment Plant, Pump Station 64, and Penasquitos Pump Station.
	Actual		\$6,281,770					
	Planned			\$9,481,770	\$10,951,770	\$10,951,770		
NCWRP - SLUDGE PUMP STATION UPGRADE	Rate Case	\$467,717					In design. Construction to be completed by 3/2013.	This project provides engineering and construction services to remedy the vibration problem that is currently taking place when operating the pumps at full speed.
	Actual		\$136,460					
	Planned			\$419,460	\$652,305	\$652,305		
POINT LOMA - GRIT PROCESSING IMPROVEMENTS	Rate Case	\$26,803,969					The original design was postponed and the project scope reduced pending the results of the pilot testing of the Biological Aerated Filter (BAF) Technology at the Point Loma Wastewater Treatment Plant. In construction and expected to be completed by 12/2013.	The Grit Processing Improvements project will include reconstruction of the old south grit tanks and their adjacent pump gallery, replacement of the headworks building that was constructed in 1962 with a new drive-through facility, expansion of an existing odor removal system and replacement of auxiliary equipment.
	Actual		\$2,476,961					
	Planned			\$10,476,961	\$18,476,961	\$26,407,903		
PUMP STATION 2 ONSITE STANDBY POWER	Rate Case	\$9,014,161					The higher cost is based on the recent updated cost estimate and a scope increase to include a diesel startup generator and two new larger generators. Complete the feasibility study in FY12. Design is anticipated to be completed by FY14. Construction is expected to be completed by FY16.	This project will replace the Engine drives for pumps 4&5 with electric motors and provide two generators for electrical power to any two or more of the 8 pumps at the station. This will provide the required surge protection against an electrical utility outage and also better flex-ability as to how it is applied.
	Actual		\$64,035					
	Planned			\$164,035	\$364,035	\$864,035		

Wastewater (Metro Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
WET WEATHER STORAGE FACILITY	Rate Case	\$5,717,875				A feasibility study was completed 10/2011. The Department is applying for a RWQCB permit for the construction of intermittent discharge of reclaimed water into a stream during extreme wet weather events. Construction is anticipated to start in FY14 and complete by FY16.	This facility will be utilized to provide hydraulic relief to Pump Station 2 , as well as reduce the risk of potential sewer spills during severe rainfall events. The first phase consists of the implementation of live stream discharge of reclaimed water from the North City Water Reclamation Plant during heavy rain events to reduce the demand on the downstream system and facilities. Phase 2 is to build a 7 mg underground storage tank at a site adjacent to and west of Pump Station 2.
	Actual	\$597,151					
	Planned		\$647,151	\$747,151	\$847,151		
<b>Subtotal (Ongoing)</b>		<b>\$71,404,120</b>	<b>\$10,499,296</b>	<b>\$23,232,296</b>	<b>\$36,318,516</b>	<b>\$57,647,342</b>	
<b>Rate Case - Completed</b>							
ANNUAL ALLOCATION - METROPOLITAN SYSTEM PUMP STATIONS (formerly Annual Allocation - Pump Stations 1 & 2)	Rate Case	\$7,482,829				PS#1 SCREENING ROOM LINER - Completed PS#1, 2, GAPS - CCTV SECURITY - Completed PUMP STATION 1 & 2 ELECTRIC - In construction, project to be completed by 5/2012.	This annual allocation provides for upgrades, renovation or replacement of major equipment, such as pumps, valves, tanks, controls, and odor control systems at the prump stations. These improvements will allowthe pump stations to be run more efficiently. Projects are scheduled on a priority basis.
	Actual	\$7,662,533	\$8,916,263	\$8,916,263	\$8,916,263	Scope increase to include the upsizing of the switchgear at Pump Stations 1 & 2 from 250MVA to 300 MVA to accomodate future turbine generators.	
ANNUAL ALLOCATION - PT. LOMA TREATMENT PLANT & RELATED FACILITIES (This Annual merged with Annual Allocation Metro Treatment Plants in FY10)	Rate Case	\$2,665,819				POINT LOMA- SOUTH USE AREA - Completed PT LOMA HYDRO 84 BULKHEAD - Cancelled PT. LOMA 84-INCH PENSTOCK - Completed	This annual allocation provides for minor renovation or replacement of facilities at the treatment plant and associated facilities. Various facilities require replacement due to increasing wastewater flows and changing regulatory requirements and to increase efficiencies. Projects are scheduled on a priority basis
	Actual	\$887,487	\$887,487	\$887,487	\$887,487	This Annual was closed in FY10 and merged into AA- Metro Treatment Plants.	
ANNUAL ALLOCATION-NORTH CITY WATER RECLAMATION PLANT (This Annual merged with Annual Allocation Metro Treatment Plants in FY10)	Rate Case	\$1,685,710				NCWRP-AUTOMATED SCUM SPRAY - Completed NCWRP-FOUL AIR IMPROVEMENT - Completed	This annual allocation provides for minor renovation or replacement of facilities at the treatment plant and associated facilities. Various facilities require replacement due to increasing wastewater flows and changing regulatory requirements. Projects are scheduled on a priority basis
	Actual	\$654,896	\$654,896	\$654,896	\$654,896	This Annual was closed in FY10 and merged into AA- Metro Treatment Plants.	
ANNUAL ALLOCATION-SOUTH BAY WATER RECLAMATION PLANT (This Annual merged with Annual Allocation Metro Treatment Plants in FY10)	Rate Case	\$634,549				SBWRP SURGE ANTICIPATOR - Completed SBWRP-600HP RECL WTR PUMP - Completed	This annual allocation provides for minor renovation or replacement of facilities at the treatment plant and associated facilities. Various facilities require replacement due to increasing wastewater flows and changing regulatory requirements. Projects are scheduled on a priority basis
	Actual	\$388,241	\$388,241	\$388,241	\$388,241	This Annual was closed in FY10 and merged into AA- Metro Treatment Plants.	
ANNUAL ALLOCATION-METRO TREATMENT PLANTS (formerly Annual Allocation - BIOSOLIDS CENTER)	Rate Case	\$3,423,140				MBC BIOSOLIDS SCREEN & BL - Completed MBC CENTRATE PIPELINE ACC - Completed MBC CHEMICAL STORAGE & HANDLING - Completed MBC LIME MIXER BYPASS/EMERGENCY - Completed	This annual allocation provides for minor renovation or replacement of facilities at the treatment plant and associated facilities. Various facilities require replacement due to increasing wastewater flows and changing regulatory requirements. Projects are scheduled on a priority basis.
	Actual	\$4,982,519	\$4,982,519	\$4,982,519	\$4,982,519		
NORTH CITY RAW SLUDGE / POINT LOMA CATHODIC PROTECTION	Rate Case	\$488,839				Completed	This project provides for a new impressed current cathodic protection system to replace an existing galvanic anode cathodic protection system.
	Actual	\$388,959	\$388,959	\$388,959	\$388,959		

Wastewater (Metro Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE	Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
POINT LOMA-DIGESTER S1 AND S2 UPGRADES	Rate Case	\$730				Completed	This project will complete the last two of eight digester upgrades. This project will upgrade the piping, mixing system, roofs, and inspect and repair the concrete tanks to keep the S1 and S2 digesters operating efficiently, effectively and safely.
	Actual		\$313	\$313	\$313		
<b>Subtotal (Completed)</b>		<b>\$16,381,616</b>	<b>\$14,964,948</b>	<b>\$16,218,677</b>	<b>\$16,218,677</b>		
<b>Rate Case - Cancelled</b>							
MBC STANDBY CENTRIFUGE FEED FACILITIES	Rate Case	\$1,605,431				The Dewatering Centrifuge Replacement Project negates the need this project because the new proposed centrifuges have double the capacity of the existing units thus maintaining the dewatering capacity required.	This project provides two dedicated standby centrifuge feed pumps and two dedicated polymer feed pumps for added redundancy.
	Actual		\$3,677	\$3,677	\$3,677		
MBC SWITCHGEAR RECONFIGURATION	Rate Case	\$2,172,382				The 2nd Plant Power Feed Project negates the need for the Switchgear reconfiguration project.	This project will reconfigure the MBC Main Plant Switchgear so that the COGEN will have a more stable and direct interface with the utility power grid.
	Actual		\$0	\$0	\$0		
MBC WASTEWATER FORCEMAIN EXTENSION	Rate Case	\$1,285,273				This project is no longer required since it was determined that Muni SPS 86 is capable of handling the increased Wastewater flows from MBC.	This project upgrades the Wastewater pumps in order to by-pass Muni SPS86 by extending MBC's discharge pipeline and discharging directly to a gravity trunk sewer.
	Actual		\$648	\$648	\$648		
NCWRP - EFFLUENT PUMP STATION UPGRADE	Rate Case	\$833,541				O&M staff completed minor modifications to the existing HVAC system and checker plates to avoid chlorine fume accumulation inside the pump room at the Effluent Pump Station. This modification proved to be effective to stop the corrosion and therefore it was determined that this project is no longer required.	This project will investigate and provide measures to eliminate the corrosion that is due to the chlorine off-gasing.
	Actual		\$0	\$0	\$0		
NCWRP - ULTRAFILTRATION & EDR UPGRADE	Rate Case	\$2,186,912				This project consists of three phases: Phase 1: EDR Enclosure (\$70K) - Completed Phase 2- EDR Mechanical Upgrades (\$500K) - O&M Fund Phase 3- EDR Pre-filter upgrades - Cancelled	The EDR units and corresponding pumps, valves, piping and other equipment are currently exposed to the environment. As a result, several pieces of equipment have been damaged by ultraviolet light and the coastal high salinity environment. This project will replace any damaged equipment, install an enclosure, and provide ultrafiltration pretreatment process to replace the EDR units.
	Actual		\$0				
ANNUAL ALLOCATION - METRO OPERATIONS CENTER	Rate Case	\$587,259				It was determined that this AA is no longer required since the remaining work to be completed under the O&M budget.	This annual allocation provides for minor renovation or upgrades to the Metropolitan Operations Center (MOC) Facilities. The MOC facilities are used to house Public Utilities staff, as well as warehouse and storage for Public Utilities assets and vehicles.
	Actual		\$13,949	\$13,949	\$13,949		
<b>Subtotal (Cancelled)</b>		<b>\$8,670,798</b>	<b>\$18,274</b>	<b>\$18,274</b>	<b>\$18,274</b>		

Wastewater (Metro Fund) Capital Improvement Program  
Rate Case vs. Planned and Actual

PROJECT TITLE		Rate Case	Actual FY08-FY11	Expenditures Actuals plus Planned FY08-FY12	Expenditures Actuals plus Planned FY08-FY13	Expenditures Actuals plus Planned FY08-FY14	Comments	Project Description
<b>Rate Case - On Hold</b>								
SBWRP DEMINERALIZATION PHASE 1 & 2	Rate Case	\$8,299,188					Presently, the SBWRP satisfies the effluent TDS limit requirements of 1000 mg/l and therefore it was determined that this project is not required at this time. Also, a BCE was completed and determined that if the effluent exceeds TDS levels of 1000mg/l in the RW distribution system, it is more cost effective to blend with potable water as it was originally designed.	This project will evaluate what type of technology should be used to reduce the salinity of the wastewater effluent. Phase 1 would construct a demineralization facility to provide 7.5 mgd of reclaimed water. Phase 2 would expand the facility to 15 mgd.
	Actual		\$399	\$399	\$399	\$399		
SOUTH METRO SEWER REHABILITATION PHASE IIIB	Rate Case	\$157,506					This project is still in planning. A CCTV inspection video is needed to determine the project scope.	This project is intended to rehabilitate 5,000 feet of the 108-inch pipe from Winship Lane to Pump Station 2.
	Actual		\$0					
<b>Subtotal (On Hold)</b>		<b>\$8,456,694</b>	<b>\$399</b>	<b>\$399</b>	<b>\$399</b>	<b>\$399</b>		
<b>Rate Case - Contingency</b>								
POOLED CONTINGENCY	Rate Case	\$689,590					Funds are not expended within the AA. They are moved to the actual projects authorized by Council to use Pooled Contingency funds.	This annual allocation provides for Capital Improvement Program contingency needs.
	Actual		\$0	\$0	\$0	\$0		
POOLED CONTINGENCY	Rate Case	\$1,861,515					Funds are not expended within the AA. They are moved to the actual projects authorized by Council to use Pooled Contingency funds.	This annual allocation provides for Capital Improvement Program contingency needs.
	Actual		\$0	\$0	\$0	\$0		
<b>Subtotal (Contingency)</b>		<b>\$2,551,105</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>RATE CASE PROJECTS TOTAL</b>		<b>\$107,464,333</b>	<b>\$25,482,918</b>	<b>\$39,469,647</b>	<b>\$52,555,866</b>	<b>\$73,884,692</b>		
<b>Additional CIP Projects Not in Rate Case</b>								
<b>NON- RATE CASE PROJECTS TOTAL</b>			<b>\$2,595,356</b>	<b>\$5,610,386</b>	<b>\$13,410,386</b>	<b>\$20,460,386</b>		
<b>TOTAL</b>		<b>\$107,464,333</b>	<b>\$28,078,274</b>	<b>\$45,080,033</b>	<b>\$65,966,252</b>	<b>\$94,345,078</b>		

Sources:  
FY08 GPSR; FY09 GPSR; FY10 (Period 12) SAP Budget to Actual run 9/1/11;  
FY11 (Period 12) SAP Budget to Actual run 9/1/11;  
FY12 (Period 3) SAP Budget to Actual run 10/7/11.  
SAP Budget to Actuals do not include Grant Fund expenditures  
Figures have been rounded to nearest dollar.