

**CAPITAL PROGRAM  
FISCAL YEAR 1995-96  
DEFERRED / CANCELLED  
PROGRAMS**

CIP PAGE	PROGRAM TITLE	PROGRAM NO.	PROGRAM ESTIMATE
<u>Programs Deferred Beyond Fiscal Year 1996-97 (Cont'd)</u>			
* F-1	West Valley Project	5-0229-21	266,298,000
F-2	Perris Filtration Plant	5-0516-31	402,639,100
F-3	Central Pool Augmentation Filtration Plant	5-0221-32	392,027,800
		<b>Total</b>	<b>\$1,624,764,900</b>
<u>Cancelled Programs</u>			
-	Interconnection Of Lakeview Pipeline	5-0144-11	13,262,900
-	* Imperial Irrigation District/Metropolitan Water District Conservation Program, Phase II	5-0230-11	153,113,700
-	* Imperial Irrigation District/Metropolitan Water District Test Land Fallowing Program	5-0403-11	30,000,000
-	* Imperial Irrigation District/Metropolitan Water District Conservation Program, Phase I	5-5920-11	109,060,500
-	* Main San Gabriel Basin Groundwater Storage Program	5-6370-11	578,943,700
-	* Coachella Canal Lining Project	5-6470-11	126,000
-	* Demonstration Program on Interstate Underground Storage of Colorado River Water	5-6520-11	8,000,000
-	* All American Canal Lining Project	5-6870-11	123,506,000
-	Lake Mathews - Sewer Connection To Western Municipal	5-0211-12	636,200
-	Los Angeles Headquarters - Seismic Modifications	5-5880-61	5,209,700
-	L. A. Headquarters Building - Fire Sprinkler System	5-6200-61	3,970,200
-	Soto Street Operations and Maintenance Center Replacement	5-5510-63	7,100,600
		<b>Total</b>	<b>\$1,032,929,500</b>

\* Note: While these projects have been postponed indefinitely for consideration, there are opportunities that Metropolitan will continue to review and, should the need arise, these projects will once again be pursued.

**CAPITAL PROGRAM  
FISCAL YEAR 1996-97  
DEFERRED PROJECTS**

	PROGRAM TITLE	PROGRAM NO.	PROGRAM ESTIMATE
* Def-1	Central Pool Augmentation Tunnel and Pipeline	5-0141-21	750,460,000
Def-2	West Valley Project	5-0229-21	8,470,200
Def-3	Allen McColloch Pipeline Parallel	5-0507-21	74,798,700
Def-4	Skinner Filtration Plant - Install Effluent Adjustable Weir Slide Gates	5-0304-31	830,000
Def-5	Skinner Filtration Plant - Modules 4,5 and 6 Sedimentation Basins	5-0410-31	47,038,200
Def-6	Skinner Filtration Plant Monofill	5-6510-31	2,091,600
Def-7	Central Pool Augmentation Filtration Plant	5-0221-32	497,377,000
Def-8	Lake Mathews Auto and Heavy Equipment Shop.	5-0408-61	5,000,000
Def-9	La Verne Construct Office and Warehouse Storage	5-0001-63	4,897,000
Def-10	Weymouth Replace Existing Asphalt Paving	5-0002-63	1,201,300
Def-11	La Verne Facilities - Construct a Utility Shop Building	5-0112-63	9,635,000
Def-12	Warehouse and Storage Building At Mills Filtration Plant	5-0402-63	2,700,000
Def-13	Lake Mathews Multi-Purpose Building	5-0404-63	1,265,900
Def-14	Perris Filtration Plant - Study and Advance Land Acquisition	5-5800-71	35,881,600
Def-15	San Bernadino/Riverside Area Study	5-5810-71	2,512,900
Def-16	West Valley Area Study	5-5990-71	3,362,600
		<b>TOTAL</b>	1,447,522,000

# CAPITAL PROGRAM

\* **Program** Central Pool Augmentation and Water Quality Project - Study and Land Acquisition **Program No** 5-5560-71

**Scope** Feasibility study, environmental documentation, and early acquisition of critically needed lands for implementation of a new treatment plant at Lake Mathews and an 18-mile tunnel and pipeline conveyance system to the existing distribution system in Orange County. The project is needed to meet increasing demand for treated water in the Central Pool, improve water quality in compliance with anticipated water quality regulations, strengthen system reliability, and make water system operations more reliable. The project would also provide treated water service to Western Riverside County.

## Accomplishments Through 1995-1996

Completion of the final EIR and associated planning documents. Acquisition of the Eagle Valley Water treatment plant site near Lake Mathews and the pipeline, tunnel and access road rights-of way to the site were also completed.

## Objectives For 1996-97

Complete right-of-way studies and appraisals for key tunnel portal sites and other key project sites under threat of development in Temescal Canyon. Completion of studies and appraisals for sites in Orange County that will be converted to mitigation land on the Orange County NCCP. Pending Board approval and funding, acquisition of certain needed project lands is anticipated and necessary to preserve right-of-way and project viability. Completion of additional environmental documentation for Federal project approvals. Litigation is also anticipated in response to lawsuit on CEQA issues.

EXPENSE DETAIL	Program Estimate (A)	Projected Cost Thru June 30, 1996 (B)	Budget Estimate 1996-97 (C)	BALANCE A-(B+C)	Fiscal Year 1995-96	
					Budget	Projected
Labor and Additives	817,900	555,300	74,800	187,800	80,200	99,800
Materials and Supplies	8,400	8,400				
Incidental Expenses	176,800	123,400	42,400	11,000	63,000	25,200
Professional Services	3,798,300	3,491,100	263,000	44,100	498,800	166,100
Land Purchase	36,041,200	16,546,900	13,829,000	5,665,300	10,500,000	3,460,000
Usage of Operating Equipment	400	400				100
Administrative Charges	415,900	282,600	29,700	103,600	37,800	54,600
Contract Payments	50,000	50,000				
Contingency	100			100		
<b>TOTAL</b>	<b>41,309,000</b>	<b>21,058,100</b>	<b>14,238,900</b>	<b>6,011,900</b>	<b>11,179,800</b>	<b>3,805,800</b>

**1.6.2 Budget**

The estimated budget cost for the project is as follows:

1. Owners Cost Estimate.....\$800,000\*
2. Study/Preliminary Design Cost Estimate.....\$237,000
3. Final Design Cost Estimate.....\$1,573,000
4. Right-of-way.....\$5,500,000\*
5. 84" Butterfly Valves.....\$1,350,000
6. Construction Management Cost Estimate \$2,581,499\*
7. Construction Cost Estimate.....\$33,868,694\*  
(see Section 4.4 for details)
8. Contingency Cost Estimate.....\$6,886,529
9. Total Project Cost Estimate.....\$52,796,722\*



\* Projected/Estimated Cost

Cost estimate for the Second Lower Cross Feeder from the Preliminary Design Report by Engineering dated December 2005.

**San Diego Pipeline No. 6**

**15121**

**Scope**

The San Diego Pipeline No. 6 Program, a joint project between Metropolitan and the SDCWA, includes the construction of a 30-mile, nine to ten-foot diameter pipeline and tunnel conveyance system to meet supplemental water needs in southern Riverside and San Diego Counties. The current total program estimate only includes costs for the portion in Riverside County.

**Accomplishments Through FY 2009/10**

In Oct 2002, the Board authorized staff to proceed with design and land acquisition for the north reach of San Diego Pipeline 6. By June 2004, the supplemental EIR had been approved. The construction of the North Reach was successfully completed and the Notice of Completion was issued on January 26, 2007. In March 2006 the Board authorized staff to conduct feasibility investigations of alternative alignments in order to determine the most cost-effective project corridor for the remaining portions of Pipeline 6. In February 2007, the Board authorized staff to enter into agreement with Jacobs Associates to conduct geological, geotechnical, and hydrogeological investigations, and tunnel engineering feasibility analyses and cost estimates. It is anticipated that the final feasibility report, including San Diego's portion, will be presented to the Board in early 2010. A request to the Board to authorize funding to proceed with final aerial surveys, preliminary design, CEQA, and securing right of way entry permits, for the recommended alignment is planned for 2010.

**Objectives For FY 2010/11**

Continue remaining mitigation and monitoring measures associated with the supplemental EIR and permits along the completed North Reach.

Expense Type	Program Estimate	Actual Cost Through Dec. 31, 2009	Jan. 1, 2010 Through June 30, 2010	Budget Estimate 2010-11	Estimate 2011-12	Estimate OutYears
Labor and Additives	48,684,500	12,589,300	297,500	48,000	728,000	35,022,200
Materials and Supplies	1,366,400	948,000				418,400
Incidental Expenses	27,271,400	2,343,100	4,000	4,000	392,200	24,528,300
Professional Services	28,760,300	15,646,500	140,300	147,900	864,900	11,961,100
Land Purchase	6,159,800	1,447,300				4,712,600
Usage of Operating Equipment	48,700	48,700				
Administrative Charges	25,190,700	6,342,700	155,300	20,900	380,200	18,292,000
Contract Payments	334,819,800	65,318,100		(50,000)	41,400	269,510,300
Contingency						
<b>Totals</b>	<b>472,301,600</b>	<b>104,683,700</b>	<b>597,100</b>	<b>170,800</b>	<b>2,406,700</b>	<b>364,444,900</b>

**San Diego Pipeline No. 6**

**15121**

<b>Total Program Estimate:</b>	<b>\$117,913,800</b>	<b>Total Projected Through June 30, 2012:</b>	<b>\$105,646,600</b>
<b>Appropriated Amount:</b>	<b>\$117,913,800</b>	<b>Estimated Percent Complete:</b>	<b>100%</b>
<b>Biennial Estimate:</b>	<b>\$69,200</b>	<b>Estimated Completion Date:</b>	<b>2013-2014</b>

**Scope**

This program was established as a joint project between Metropolitan and the San Diego County Water Authority, includes the construction of a 30-mile, nine to ten-foot diameter pipeline and tunnel conveyance system to meet supplemental water needs in southern Riverside and San Diego Counties. The construction of the North Reach was successfully completed and the Notice of Completion was issued on January 26, 2007. The current total program estimate only includes costs for the portion in Riverside County.

**Purpose**

To provide raw water for municipal, industrial, and agricultural users in southern Riverside and San Diego counties, and to increase system reliability and operational flexibility.

**Accomplishments Through FY 2011/12**

Through FY 2011/12, one project has been completed.

Major project milestones in FY 2011/12:

North Reach Environmental Monitoring – Continued monitoring in compliance with the Mitigation/Monitoring Plan

The South Reach portions have been deferred

**Objectives for 2012/13 – 2013/14**

North Reach Environmental Monitoring – Complete monitoring

East Branch Enlargement - Phase II  
Table 8-1 Summary of Scenario Costs

Item	Unit	2007 Unit Cost (\$)	Estimated Lifecycle	Scenario 1 DWR 2004 Report Conditions (Bases Case Water Surface Elevations)			Scenario 2 Canal Raise Alternative			Scenario 3 Smooth Siphon Alternative		
				Quantity	2007 Construction Costs	Annualized Cost with Contingency	Quantity	Costs	Annualized Cost with Contingency	Quantity	Costs	Annualized Cost with Contingency
<b>B &amp; D Canal</b>												
1 Mobilization and Demobilization <sup>4</sup>	EA	\$ 0	50	1	\$ 12,774,000	\$ 823,498	1	\$ 12,426,104	\$ 801,070	1	\$ 11,801,550	\$ 760,807
2 Raise Embankment <sup>3</sup>	CY	23	100	4,198,686	96,569,767	5,698,144	3,540,274	81,426,291	4,804,597	2,304,919	53,013,128	3,128,064
3 Compacted Embankment	CY	33	100	292,008	9,636,269	568,593	246,217	8,125,168	479,429	160,301	5,289,945	312,136
4 Raise Concrete Lining	CY	400	50	37,397	14,958,640	964,335	33,485	13,393,804	863,455	26,597	10,638,945	683,858
6.5 Remove and Replace Primary Road	FT	60	15	485,496	28,918,929	3,315,150	309,038	18,408,101	2,110,231	167,746	9,991,891	1,145,430
7 Add One Bay Check Structures <sup>1</sup>	EA	908,072	50	16	14,529,147	936,647	23	20,885,649	1,346,430	23	20,885,649	1,346,430
8 Add Single Barrel Siphon <sup>1</sup>	EA	3,178,492	50	8	25,427,935	1,639,256	8	25,427,935	1,639,256	8	25,427,935	1,639,256
8.1 Add Single Barrel Siphon (Tejon)	EA	2,022,677	50	1	2,022,677	130,395	1	2,022,677	130,395	1	2,022,677	130,395
8.2 Add Single Barrel Siphon (Antelope)	EA	13,002,921	50	1	13,002,921	838,256	1	13,002,921	838,256	1	13,002,921	838,256
9 Add Three R.C. Box Siphon <sup>1</sup>	LF	3,756	50	555	2,084,802	134,400	555	2,084,802	134,400	555	2,084,802	134,400
10 New Radial Gates and Radial Gate Hoists <sup>1</sup>	EA	211,883	25	16	3,390,134	285,040	23	4,873,318	409,746	23	4,873,318	409,746
11 Modify Existing Radial Gate and Check <sup>1</sup>	EA	15,135	50	41	620,516	40,003	41	620,516	40,003	41	620,516	40,003
12 Remove Raised Concrete Sill at Check <sup>1</sup>	EA	12,108	50	54	653,812	42,149	54	653,812	42,149	54	653,812	42,149
13 Modify Existing Radial Gate Hoist and Electrical <sup>1</sup>	EA	75,673	25	41	3,102,578	260,863	41	3,102,578	260,863	41	3,102,578	260,863
14 Bridges <sup>2</sup>	EA	655,876	75	33	21,643,908	1,302,854	31	20,332,156	1,223,894	20	13,117,520	789,609
15 Overcuts <sup>1</sup>	EA	20,000	50	71	1,420,000	91,543	71	1,420,000	91,543	67	1,340,000	86,385
16 Raise Pipelines <sup>1</sup>	EA	126,450	50	12	1,517,405	97,822	12	1,517,405	97,822	12	1,517,405	97,822
17 Raise 12" Steel Pipeline <sup>1</sup>	LS	224,801	50	1	224,801	14,492	1	224,801	14,492	1	224,801	14,492
18 Extend Culvert Inlets and Outlets <sup>1</sup>	EA	121,076	30	106	12,834,080	987,620	67	8,169,426	628,662	37	4,434,353	341,237
19 Hydrumunching <sup>1</sup>	AC	9,178	20	100	917,803	87,442	64	584,220	55,660	35	317,114	30,212
20 Traffic Control and Detour <sup>1</sup>	LS	2,003,869	50	1	2,003,869	129,183	1	2,003,869	129,183	1	2,003,869	129,183
21 Slip Form Wall LF	LF	84	50	-	-	-	21,595	1,813,997	116,942	18,110	1,521,274	98,072
23 Precast Panel System LF	LF	119	30	-	-	-	154,862	18,428,626	1,418,137	291,773	34,720,963	2,671,881
24 Smooth Coating for Siphons SF	SF	14	15	-	-	-	-	-	-	1,801,827	25,225,584	2,891,760
<b>C Pearblossom Pumping Plant</b>												
1 Furnish and install pump units <sup>1</sup>	EA	6,276,793	25	2	12,553,585	1,055,498	2	12,553,585	1,055,498	2	12,553,585	1,055,498
2 Furnish and install motors <sup>1</sup>	EA	5,803,598	25	2	11,607,195	975,926	2	11,607,195	975,926	2	11,607,195	975,926
3 Furnish and install valves <sup>1</sup>	EA	2,045,589	50	2	4,091,179	263,745	2	4,091,179	263,745	2	4,091,179	263,745
4 Install 11'-0" discharge line <sup>1</sup>	JOB	13,161,846	50	1	13,161,846	848,501	1	13,161,846	848,501	1	13,161,846	848,501
Subtotal					\$ 309,667,797	\$ 21,531,356		\$ 302,361,980	\$ 20,820,285		\$ 289,246,553	\$ 21,168,116
Contingency: 20%					\$ 61,933,559			\$ 60,472,396			\$ 57,849,271	
Project Lifecycle (Years): 50					\$ 371,601,356			\$ 362,834,375			\$ 347,095,623	
Present Value: \$400,000,000								Present Value: \$390,000,000			Present Value: \$390,000,000	

- Notes:
- 1 Unit Cost is escalated from the DWR East Branch Enlargement Report Costs for 2001.
  - 2 Bridge cost is the average between the cost of replacing and raising the bridge.
  - 3 Updated embankment quantity from DWR
  - 4 Mobilization and Demobilization cost excludes C Pearblossom Pumping Plant.
  - 5 Design, Environmental and Right of Way costs are not included