

**MWD**

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

JUL - 9 1996

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Dawn Chan
for EXECUTIVE SECRETARY

June 18, 1996

To: Board of Directors

From: *U* General Manager

Submitted by: Gary M. Snyder
Chief Engineer

Subject: Operating Data for May 1996

W. Hoffmann
Gary Snyder

The following tables contain May 1996 data on Metropolitan's water and power sales and purchases, treatment plant operations, reservoir storage, construction, employment; and Los Angeles Civic Center rainfall:

WATER SALES

TOTAL FISCAL	May 1996 AF	April 1996 AF	May 1995 AF	Year to Date AF
Total Water Sales	163,287	146,196	104,493	1,481,507
Revenue	\$56,989,841	\$56,624,960	\$38,321,730	\$555,553,848
Basic Service	112,287	110,240	85,693	1,126,698
Agricultural	7,536	574	3,236	100,750
Spreading	0	0	0	0
Barrier Injection	2,041	2,236	2,209	20,784
Seasonal Storage				
Spreading	18,715	15,314	(145)	37,873
Reservoir Storage	6,911	5,706	4,179	56,788
In-Lieu	11,430	10,658	7,638	103,657
Reclaimed	4,368	1,467	1,684	34,958
Treated	109,238	104,479	83,163	1,095,986
Untreated	49,682	40,250	19,647	350,563

(See Tables A, B, and C for details.)

METROPOLITAN'S STATE WATER PROJECT (SWP)
CHARGES AND PAYMENTS--FISCAL YEAR 1995/96

The following table shows a comparison of totals through May 1996:

<u>Components</u>	<u>SWP Statement of Charges to Date</u>	<u>1995/96 Annual Budget to Date</u>	<u>Amount Paid to Date</u>
Capital	130,708,318	136,301,000	134,605,345
Minimum	87,414,681	88,503,000	88,896,345
Power	78,585,035	95,089,000	50,417,236
Credits	<u>N/A</u>	<u>0</u>	<u>(56,978,549)</u>
Total	<u>\$296,708,034</u>	<u>\$319,893,000</u>	<u>\$216,940,377</u>

Note: The differences between the budget to date and the amount paid to date are due to credits arising from 1992, 1993, and 1994 Off-Aqueduct operating cost adjustment, downward revised billing for Off-Aqueduct Power Facilities for July through December, downward adjustment of power rates by DWR, return of Estimated Excess Variable Replacement costs, and East Branch Enlargement credits and interest for Devil Canyon Second Afterbay.

POWER FOR PUMPING

The following quantities of electric energy were generated for Metropolitan's pumping system in May 1996:

<u>Colorado River Energy</u>	<u>Kwh</u>
Hoover Power Plant	159,754,000
Parker Power Plant	25,976,000
Subtotal	<u>185,730,000</u>
Southern California Edison (SCE) Benefit Energy	11,250,178
SCE Exchange Energy	(13,980,000)
SCE Purchased Energy	225,000
California Department of Water Resources (DWR) Purchased Energy	26,542,000
Other Purchased Energy	<u>12,794,000</u>
Total Generated for Metropolitan Colorado River Aqueduct (CRA)	222,561,178
Power Available to DWR	0
CRA Power Available to SCE	0

HYDROELECTRIC POWER RECOVERY PLANTS--FISCAL YEAR 1995/96
ENERGY AND REVENUE ACCOUNT

PLANT	May 1996		Gross Energy Revenue	
	Energy Sales (Kwh)		Gross Energy Revenue	
	This Month	F. Y. To Date	This Month	F. Y. To Date
PHASE I				
Greg Avenue	0	268,800	0.00	10,752.00
Lake Mathews	3,552,000	32,880,000	144,211.20	1,324,304.40
Foothill Feeder	3,372,000	28,673,900	136,903.20	1,154,753.60
San Dimas	5,418,000	19,872,000	219,970.80	801,414.00
Yorba Linda	<u>3,000,000</u>	<u>27,167,348</u>	<u>121,800.00</u>	<u>1,093,595.12</u>
Subtotal	15,342,000	108,862,048	622,885.20	4,384,819.12
PHASES II - IV				
Sepulveda Canyon	1,596,000	5,196,000	60,930.59	212,095.18
Venice	0	9,000	0.00	287.10
Temescal	1,809,000	18,534,000	68,695.33	808,664.05
Corona	1,749,000	18,348,000	66,509.43	805,510.17
Perris	1,854,000	11,682,000	70,559.52	648,353.25
Rio Hondo	930,000	7,856,000	35,670.08	354,964.51
Coyote Creek	1,146,000	15,354,000	43,525.17	682,449.73
Red Mountain	3,282,000	29,034,000	123,777.39	1,311,348.68
Valley View	<u>0</u>	<u>0</u>	<u>0.00</u>	<u>0.00</u>
Subtotal	<u>12,366,000</u>	106,013,000	469,667.51	4,823,672.67
Total Phase I-IV	27,708,000	214,875,048	1,092,552.71	9,208,491.79
Etiwanda	6,386,000	33,108,000	71,002.55	524,554.14
Total	<u>34,094,000</u>	<u>247,983,048</u>	<u>\$1,163,555.26</u>	<u>\$9,733,045.93</u>

WATER QUALITY--FILTRATION PLANT EFFLUENT (Average for Month)

Quality		Diemer	Jensen	Weymouth	Skinner Plant 1	Skinner Plant 2	Mills
Hardness--mg/l as CaCO ₃	May 96	261*	191*	260*	266*	265*	91*
	Apr. 96	264	197	253	276	271	91
	May 95	281	170	265	267	267	103
Total Dissolved Solids--mg/l	May 96	560**	385**	560**	560**	560**	231**
	Apr. 96	556	387	556	581	579	212
	May 95	617	364	588	584	583	267

* Preliminary
 ** Estimate
 *** Not In Service

(See Table D for Analysis of Water Supplies.)

WATER PROCESSED

		<u>Diemer</u>	<u>Jensen</u>	<u>Weymouth</u>	<u>Skinner</u>	<u>Mills</u>
		AF	AF	AF	AF	AF
<u>Individual Plant</u>						
	May 96	35,276	18,628	26,404	26,736	6,358
	Apr. 96	36,001	19,763	25,266	22,796	4,488
	May 95	30,163	9,674	21,398	16,821	4,255
		<u>Avg.</u>	<u>Ann.</u>		<u>Total Fiscal</u>	
		<u>Rate</u>	<u>Diff.</u>	<u>Treated</u>	<u>Year to Date</u>	
		cfs	%	AF	AF	
<u>Total all Plants</u>						
	May 96	1,845	38	113,402	1,098,734	
	Apr. 96	1,821	20	108,314	985,332	
	May 95	1,339	-12	82,311	1,053,155	

RESERVOIR STORAGE

	<u>Usable</u>				<u>Annual</u>
	<u>Storage</u>	<u>May 1996</u>	<u>April 1996</u>	<u>May 1995</u>	<u>Difference</u>
	%				
<u>Distribution</u>					
Lake Mathews	91	165,404	165,638	161,045	4,359
Lake Skinner	89	38,940	33,428	39,281	(341)

Colorado River Basin

Upper Basin	87	26,905,600	25,467,200	23,361,300	3,544,300
Lower Basin	84	24,016,200	24,169,800	22,251,200	1,765,000

(See Table E for details)

State Water Project

Oroville	99	3,474,703	3,213,534	3,423,327	51,376
San Luis (State)	79	843,231	972,066	1,046,779	(203,548)
Pyramid	94	155,588	161,921	156,460	(872)
Castaic	98	298,997	290,989	294,331	4,666
Silverwood	48	34,413	34,934	66,549	(32,136)
Perris	92	117,645	119,751	116,317	1,328

Central Valley Project

Clair Engle	98	2,389,580	2,278,180	2,337,080	52,500
Shasta	99	4,396,810	4,191,910	4,180,610	216,200
Folsom	93	936,300	781,700	743,900	192,400
New Melones	89	2,162,000	2,038,200	1,399,100	762,900
San Luis (federal)	82	799,794	913,705	969,494	(169,700)

CONSTRUCTION PROGRESS FOR MAY 1996

Twenty construction contracts, having a contract value in excess of \$543 million, were in progress during the month of May 1996. Contract earnings under these contracts were \$13,688,154 this month. Status of these contracts at the end of the month follows:

	<u>Percent Completed</u>	<u>Estimated Completion</u>
East Newport Road Realignment	99	June 1996
Transmission Towers 124W3 To 129W2 Footing Repair	54	June 1996
Cathodic Protection for the Etiwanda Pipeline	30	June 1996
Standby Emergency Power Modifications and Additions at Robert A. Skinner Filtration Plant	62	July 1996
Landscape Screening for Winchester Road and State Street	87	July 1996
Second Lower Feeder Dominguez Channel Pipeline Repair	63	July 1996
Eagle Rock Operations Control Center	81	August 1996
Eastside Reservoir Project East Dam North Excavation	71	August 1996
Robert B. Diemer Filtration Plant Chlorine System Expansion/Relocation	82	September 1996
Buried Insulating Joint Test Stations	27	September 1996
Colorado River Aqueduct Seismic Upgrade of Discharge Pipelines at Hinds and Eagle Mountain	12	October 1996
Henry J. Mills Filtration Plant Expansion No. 2	95	November 1996
Eastside Reservoir Project Northwest Access Road to Overlook	5	November 1996
Lower Feeder Cathodic Protection System	58	December 1996
Site Preparation for the Joseph Jensen Filtration Plant Oxidation Retrofit Program	88	January 1997
Henry J. Mills Filtration Plant Expansion No. 2 Floating Covers and Liners for Finished Water and Reservoirs 1 and 2	58	February 1997
Eastside Pipeline	71	June 1997
Eastside Reservoir Project West Dam, Saddle Dam and Forebay	8	June 1999

Construction Contracts:

Contract No. 1465 in the amount of \$149,432, was awarded to Fredrick Towers, Inc., for removing and replacing damaged concrete sidewalk, curb, gutter, cross drain, asphalt pavement and base, and adjustments of manholes, observation wells, valve covers, parking lot striping, wheel stops, and other appurtenances at the Joseph Jensen Filtration Plant.

Procurement Contracts:

Contract No. 1464, in the amount of \$5,730,000, was awarded to Ameron, Inc., for furnishing fabricated steel pipe and fittings for P-1 Yard piping at the Eastside Reservoir Project.

Completed Contracts:

Contract No. 1448, La Verne Auto Repair and Utility Shop seismic upgrade, was completed on May 9, 1996; the Notice of Completion was recorded on May 14, 1996.

No procurement contracts were completed this month.

MAY RAINFALL AT LOS ANGELES CIVIC CENTER (INCHES)

During the Month	0.04
Total for Season (Fiscal Year)	12.46
Normal for Season to Date	14.64
Difference from Normal	-2.18
Percent of Normal	85.1
During Same Month Last Year	0.18
Total for Season (Last Fiscal Year)	23.76

MAY TEMPERATURES AT LOS ANGELES CIVIC CENTER (DEGREES)

Average Maximum	77.1
Average Minimum	60.8
Average	68.95
30-Year Normal	65.8

EMPLOYMENT**Regular Employees by Division/Department**

	<u>May 1995</u>	<u>May 1996</u>	<u>Difference</u>
Engineering	430	445	15
Operations	912	917	5
Other Divisions and Departments	<u>643</u>	<u>657</u>	<u>14</u>
<u>Total Permanent Employees</u>	1,985	2,019	34
<u>Total Sunset Employees</u>	35	28	-7
<u>Total Two Cal Plaza Employees</u>	761	822	61
<u>Minority Applicants</u>	103	70	-33
<u>Minority New Hires</u>	4	4	0
<u>Non-Minority Applicants</u>	68	45	-23
<u>Non-Minority New Hires</u>	2	1	-1

***SACRAMENTO VALLEY FOUR BASIN INDEX**

The forecast of the Four Basin Index on May 1, 1996 is 20.8 million acre-feet, assuming median conditions for the remainder of the water year**. This classifies the water year as **WET**, according to the State Water Resources Control Board Decision 1485.

* Forecast of the total unimpaired runoff in the Sacramento, Feather, Yuba, and American River basins--the principal Delta inflow sources.

** The water year begins on October 1st and ends on September 30th.

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METROPOLITAN WATER DISTRICT OF SO. CAL.
 Billing Activity Report for the Month of May 1996
 TABLE A

AGENCY	BASIC SERVICE	AGRIC	SPREADING	BARRIER INJECTION	--- SEASONAL STORAGE (NOTE 1) --- RESERVOIR	IN-LIEU	SPRD&INJCT	RECLAIMED	(NOTE 2) SPECIALS (\$)	DOLLAR AMOUNT
CITY OF ANAHEIM	759.4	0.0	0.0	0.0	52.4	92.4	0.0	0.0	5,375.00	371,602.20
CITY OF BURBANK	925.1	0.0	0.0	0.0	0.0	0.0	0.0	22.0	-11,384.20	379,320.40
BEVERLY HILLS	1271.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41,090.79	582,834.99
CITY OF COMPTON	261.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,084.28	115,483.28
CALLEGUAS MWD	5725.4	196.6	0.0	0.0	2775.0	0.0	59.9	0.0	77,179.59	3,383,798.79
CHINO BASIN MWD	3197.0	2.3	0.0	0.0	0.0	388.3	0.0	0.0	-19,174.54	1,170,045.46
CENTRAL BASIN MWD	3198.3	0.0	0.0	387.4	0.0	2518.0	4260.9	300.8	-46,957.75	3,108,214.15
COASTAL MWD	6176.5	10.4	0.0	0.0	19.0	36.0	0.0	39.2	46,367.82	2,690,255.62
EASTERN MWD	5325.0	330.3	0.0	0.0	0.0	258.8	0.0	236.9	-38,073.26	2,403,137.64
CITY OF FULLERTON	925.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,250.00	397,513.00
FOOTHILL MWD	425.2	0.0	0.0	0.0	0.0	273.5	0.0	247.5	1,729.57	222,970.77
CITY OF GLENDALE	2483.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42,258.54	1,100,272.14
CITY OF LOS ANGELES	1981.3	0.0	0.0	0.0	3407.0	92.9	0.0	0.0	97,634.79	1,950,452.49
CITY OF LONG BEACH	405.5	0.0	0.0	0.0	0.0	3198.5	0.0	141.2	7,550.00	1,073,319.20
LAS VIRGENES MWD	1053.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	15,885.26	465,354.66
ORANGE COUNTY MWD	10856.8	63.9	0.0	0.0	0.0	4291.4	6132.7	1379.6	-526,254.83	6,477,668.37
CITY OF PASADENA	971.3	0.0	0.0	0.0	0.0	-147.2	0.0	0.0	4,725.00	376,399.60
THREE VALLEYS MWD	5993.8	0.0	0.0	0.0	0.0	0.0	487.6	82.6	37,945.01	2,607,186.01
CITY OF SANTA ANA	0.1	0.0	0.0	0.0	0.0	0.0	0.0	11.2	7,233.59	5,551.39
SAN DIEGO CWA	40293.3	4701.0	0.0	0.0	657.1	0.0	0.0	440.9	-24,325.00	16,709,195.80
CITY OF SAN FERNANDO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	275.00	275.00
CITY OF SANTA MONICA	773.2	0.0	0.0	54.4	0.0	0.0	0.0	0.0	16,615.44	369,173.04
CITY OF SAN MARINO	70.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,263.11	31,168.31
CITY OF TORRANCE	2281.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,175.00	973,881.00
SAN GABRIEL VALLEY	540.0	0.0	0.0	0.0	0.0	0.0	7774.2	0.0	-110,778.08	1,899,553.72
WEST BASIN MWD	11571.8	0.0	0.0	1598.9	0.0	427.3	0.0	1466.3	441,305.94	5,807,656.94
WESTERN MWD	4815.0	2228.8	0.0	0.0	0.0	0.0	0.0	0.0	-176,403.47	2,314,666.93
SPC CONT	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	757.20	2,890.00
TOTALS :	112287.3	7535.5	0.0	2040.7	6910.5	11429.9	18715.3	4368.2	-98,650.20	

GRAND TOTAL SALES: 163,287.4 ACRE FEET

TOTAL NET INVOICE \$ 56,989,840.90

NOTE 1: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY BE FOR A PAST MONTH BECAUSE MUCH OF THE WATER IS CERTIFIED OR ADJUSTED AFTER DELIVERY.

NOTE 2: SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, I.I.C.P., ETC.

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METROPOLITAN WATER SUPPLY DISTRICT OF SO. CAL.
 Year to date Water sales ... A.F. to Month of May 1996
 TABLE A YEAR TO DATE

AGENCY	BASIC SERVICE	AGRIC	SPREADING	BARRIER INJECTION	--- SEASONAL STORAGE (NOTE 1) ---			RECLAIMED	(NOTE 2) SPECIALS (\$)	DOLLAR AMOUNT
					RESERVOIR	IN-LIEU	SPRD&INJCT			
CITY OF ANAHEIM	15930.2	31.2	0.0	0.0	301.0	394.3	0.0	0.0	83,261.50	6,819,644.70
CITY OF BURBANK	15336.0	0.0	0.0	0.0	0.0	0.0	0.0	89.8	-980,444.96	5,536,474.84
BEVERLY HILLS	12111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	451,998.69	5,611,284.69
CITY OF COMPTON	2876.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44,927.08	1,270,103.08
CALLEGUAS MWD	74207.4	4613.0	0.0	0.0	5475.0	0.0	452.4	98.5	831,803.49	35,467,307.69
CHINO BASIN MWD	30884.6	65.7	0.0	0.0	0.0	4369.1	82.4	0.0	-213,419.94	11,441,659.06
CENTRAL BASIN MWD	49480.6	0.0	0.0	4802.2	0.0	16989.7	11381.4	3132.2	-610,090.65	29,375,655.95
COASTAL MWD	64100.1	76.7	0.0	0.0	350.0	316.6	0.0	288.3	510,046.02	27,985,104.32
EASTERN MWD	41144.1	10609.5	0.0	0.0	0.0	512.1	0.0	1234.3	-429,470.86	21,460,684.94
CITY OF FULLERTON	6849.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	35,750.00	2,957,990.20
FOOTHILL MWD	7427.3	0.0	0.0	0.0	-91.8	892.8	496.0	1267.1	18,800.27	3,358,638.67
CITY OF GLENDALE	25307.4	0.0	0.0	0.0	0.0	0.0	0.0	308.3	464,843.94	11,198,318.14
CITY OF LOS ANGELES	53850.7	0.0	0.0	0.0	10815.5	46140.3	0.0	704.6	3,318,339.89	40,272,425.29
CITY OF LONG BEACH	40096.4	0.0	0.0	0.0	0.0	10074.9	0.0	1048.5	365,035.36	20,165,925.26
LAS VIRGENES MWD	14715.5	657.7	0.0	0.0	2565.5	0.0	0.0	408.1	142,522.96	7,338,310.36
ORANGE COUNTY MWD	120278.8	2745.1	0.0	0.0	0.0	13974.1	9671.0	13276.0	507,631.97	56,143,713.67
CITY OF PASADENA	11361.7	0.0	0.0	0.0	0.0	3267.5	0.0	0.0	51,975.00	5,825,332.10
THREE VALLEYS MWD	52511.2	81.9	0.0	0.0	0.0	0.0	487.6	276.1	511,229.76	21,729,319.26
CITY OF SANTA ANA	8010.4	0.0	0.0	0.0	0.0	4283.7	0.0	56.0	72,610.49	4,701,223.29
SAN DIEGO CWA	297507.9	59320.2	0.0	0.0	37372.7	0.0	-166.0	2989.2	3,311,776.57	142,225,837.47
CITY OF SAN FERNANDO	8.9	0.0	0.0	0.0	0.0	605.8	0.0	0.0	3,025.00	180,075.20
CITY OF SANTA MONICA	4199.4	0.0	0.0	444.2	0.0	0.0	0.0	0.0	182,769.84	2,160,943.44
CITY OF SAN MARINO	998.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,894.21	439,127.41
CITY OF TORRANCE	21000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	346,160.16	9,292,160.16
SAN GABRIEL VALLEY	5869.0	0.0	0.0	0.0	0.0	0.0	15467.8	0.0	-1,229,779.08	4,812,541.12
WEST BASIN MWD	119793.9	0.0	0.0	15537.6	0.0	2110.9	0.0	9781.2	4,963,783.54	60,947,631.94
WESTERN MWD	30822.1	22533.2	0.0	0.0	0.0	-274.8	0.0	0.0	-1,108,506.57	16,825,923.43
SPC CONT	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,869.20	10,460.00
TOTALS :	1126697.7	100750.0	0.0	20784.0	56787.9	103657.0	37872.6	34958.2	11,664,342.88	

GRAND TOTAL SALES: 1,481,507.4 ACRE FEET

TOTAL NET INVOICE \$ 555,553,847.68

NOTE 1: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED OR ADJUSTED AFTER DELIVERY.

NOTE 2: SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, I.I.C.P., ETC.

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METROPOLITAN WATER DISTRICT OF SO. CAL.
 WATER SALES IN ACRE-FEET FOR THE MONTH OF MAY 1996
 TABLE B

AGENCY	---BASIC---TREATED(NOTE)-----					---BASIC---UNTREATED(NOTE)-----					RECLAIMED	TOTAL AF AMOUNT
	SERVICE	AGRIC	SEASONAL	GWR	AF AMOUNT	SERVICE	AGRIC	SEASONAL	GWR	AF AMOUNT		
CITY OF ANAHEIM	811.8	0.0	92.4	0.0	904.2	-52.4	0.0	52.4	0.0	0.0	0.0	904.2
CITY OF BURBANK	925.1	0.0	0.0	0.0	925.1	0.0	0.0	0.0	0.0	0.0	22.0	947.1
BEVERLY HILLS	1271.7	0.0	0.0	0.0	1271.7	0.0	0.0	0.0	0.0	0.0	0.0	1271.7
CITY OF COMPTON	261.5	0.0	0.0	0.0	261.5	0.0	0.0	0.0	0.0	0.0	0.0	261.5
CALLEGUAS MWD	5725.4	196.6	2834.9	0.0	8756.9	0.0	0.0	0.0	0.0	0.0	0.0	8756.9
CHINO BASIN MWD	0.0	0.0	0.0	0.0	0.0	3197.0	2.3	388.3	0.0	3587.6	0.0	3587.6
CENTRAL BASIN MWD	3198.3	0.0	2518.0	387.4	6103.7	0.0	0.0	4260.9	0.0	4260.9	300.8	10665.4
COASTAL MWD	6176.5	10.4	55.0	0.0	6241.9	0.0	0.0	0.0	0.0	0.0	39.2	6281.1
EASTERN MWD	5810.0	330.3	258.8	0.0	6399.1	-485.0	0.0	0.0	0.0	-485.0	236.9	6151.0
CITY OF FULLERTON	925.5	0.0	0.0	0.0	925.5	0.0	0.0	0.0	0.0	0.0	0.0	925.5
FOOTHILL MWD	425.2	0.0	273.5	0.0	698.7	0.0	0.0	0.0	0.0	0.0	247.5	946.2
CITY OF GLENDALE	2483.6	0.0	0.0	0.0	2483.6	0.0	0.0	0.0	0.0	0.0	0.0	2483.6
CITY OF LOS ANGELES	2293.8	0.0	3187.4	0.0	5481.2	-312.5	0.0	312.5	0.0	0.0	0.0	5481.2
CITY OF LONG BEACH	405.5	0.0	3198.5	0.0	3604.0	0.0	0.0	0.0	0.0	0.0	141.2	3745.2
LAS VIRGENES MWD	1053.6	2.2	0.0	0.0	1055.8	0.0	0.0	0.0	0.0	0.0	0.0	1055.8
ORANGE COUNTY MWD	10163.5	30.1	4291.4	0.0	14485.0	693.3	33.8	6132.7	0.0	6859.8	1379.6	22724.4
CITY OF PASADENA	971.3	0.0	-147.2	0.0	824.1	0.0	0.0	0.0	0.0	0.0	0.0	824.1
THREE VALLEYS MWD	4980.9	0.0	0.0	0.0	4980.9	1012.9	0.0	487.6	0.0	1500.5	82.6	6564.0
CITY OF SANTA ANA	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	11.2	11.3
SAN DIEGO CWA	17324.9	4631.5	260.5	0.0	22216.9	22968.4	69.5	396.6	0.0	23434.5	440.9	46092.3
CITY OF SAN FERNANDO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CITY OF SANTA MONICA	773.2	0.0	0.0	54.4	827.6	0.0	0.0	0.0	0.0	0.0	0.0	827.6
CITY OF SAN MARINO	70.2	0.0	0.0	0.0	70.2	0.0	0.0	0.0	0.0	0.0	0.0	70.2
CITY OF TORRANCE	2281.0	0.0	0.0	0.0	2281.0	0.0	0.0	0.0	0.0	0.0	0.0	2281.0
SAN GABRIEL VALLEY	540.0	0.0	0.0	0.0	540.0	0.0	0.0	7774.2	0.0	7774.2	0.0	8314.2
WEST BASIN MWD	11571.8	0.0	427.3	1598.9	13598.0	0.0	0.0	0.0	0.0	0.0	1466.3	15064.3
WESTERN MWD	2933.8	1367.0	0.0	0.0	4300.8	1881.2	861.8	0.0	0.0	2743.0	0.0	7043.8
SPC CONT	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0	6.2	0.0	6.2
TOTAL:	83378.2	6568.1	17250.5	2040.7	109237.5	28909.1	967.4	19805.2	0.0	49681.7	4368.2	163287.4

NOTE: GROUND WATER REPLENISHMENT (GWR) INCLUDES SPREADING AND INJECTION. WATER DELIVERIES UNDER SPREADING ARE BILLED AS SEASONAL STORAGE DURING PERIODS THAT PROGRAM IS ACTIVE.

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METROPOLITAN WATER DISTRICT OF SO. CAL.
 Year to date Water sales ... A.F. to Month of May 1996
 TABLE B YEAR TO DATE

AGENCY	BASIC SERVICE	AGRIC	SPREADING	BARRIER INJECTION	SEASONAL STORAGE (NOTE 1) RESERVOIR	IN-LIEU	SPRD&INJCT	RECLAIMED	AGENCY TOTAL (A.F.)
CITY OF ANAHEIM	15930.2	31.2	0.0	0.0	301.0	394.3	0.0	0.0	16,656.7
CITY OF BURBANK	15336.0	0.0	0.0	0.0	0.0	0.0	0.0	89.8	15,425.8
BEVERLY HILLS	12111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,111.0
CITY OF COMPTON	2876.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,876.0
CALLEGUAS MWD	74207.4	4613.0	0.0	0.0	5475.0	0.0	452.4	98.5	84,846.3
CHINO BASIN MWD	30884.6	65.7	0.0	0.0	0.0	4369.1	82.4	0.0	35,401.8
CENTRAL BASIN MWD	49480.6	0.0	0.0	4802.2	0.0	16989.7	11381.4	3132.2	85,786.1
COASTAL MWD	64100.1	76.7	0.0	0.0	350.0	316.6	0.0	288.3	65,131.7
EASTERN MWD	41144.1	10609.5	0.0	0.0	0.0	512.1	0.0	1234.3	53,500.0
CITY OF FULLERTON	6849.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	6,864.8
FOOTHILL MWD	7427.3	0.0	0.0	0.0	-91.8	892.8	496.0	1267.1	9,991.4
CITY OF GLENDALE	25307.4	0.0	0.0	0.0	0.0	0.0	0.0	308.3	25,615.7
CITY OF LOS ANGELES	53850.7	0.0	0.0	0.0	10815.5	46140.3	0.0	704.6	111,511.1
CITY OF LONG BEACH	40096.4	0.0	0.0	0.0	0.0	10074.9	0.0	1048.5	51,219.8
LAS VIRGENES MWD	14715.5	657.7	0.0	0.0	2565.5	0.0	0.0	408.1	18,346.8
ORANGE COUNTY MWD	120278.8	2745.1	0.0	0.0	0.0	13974.1	9671.0	13276.0	159,945.0
CITY OF PASADENA	11361.7	0.0	0.0	0.0	0.0	3267.5	0.0	0.0	14,629.2
THREE VALLEYS MWD	52511.2	81.9	0.0	0.0	0.0	0.0	487.6	276.1	53,356.8
CITY OF SANTA ANA	8010.4	0.0	0.0	0.0	0.0	4283.7	0.0	56.0	12,350.1
SAN DIEGO CWA	297507.9	59320.2	0.0	0.0	37372.7	0.0	-166.0	2989.2	397,024.0
CITY OF SAN FERNANDO	8.9	0.0	0.0	0.0	0.0	605.8	0.0	0.0	614.7
CITY OF SANTA MONICA	4199.4	0.0	0.0	444.2	0.0	0.0	0.0	0.0	4,643.6
CITY OF SAN MARINO	998.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	998.2
CITY OF TORRANCE	21000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21,000.0
SAN GABRIEL VALLEY	5869.0	0.0	0.0	0.0	0.0	0.0	15467.8	0.0	21,336.8
WEST BASIN MWD	119793.9	0.0	0.0	15537.6	0.0	2110.9	0.0	9781.2	147,223.6
WESTERN MWD	30822.1	22533.2	0.0	0.0	0.0	-274.8	0.0	0.0	53,080.5
SPC CONT	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
TOTALS :	1126684.0	100750.0	0.0	20784.0	56787.9	103657.0	37872.6	34958.2	

GRAND TOTAL SALES (A.F.) 1,481,493.7

NOTE 1: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED OR ADJUSTED AFTER DELIVERY.

NOTE 2: THIS REPORT WILL NOT REFLECT INTERRUPTIBLE TRANSACTIONS THAT OCCURRED PRIOR TO JULY 1992.

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METROPOLITAN WATER DISTRICT OF SO. CAL.
 WATER SALES IN DOLLARS FOR THE MONTH OF MAY 1996
 TABLE C

AGENCY	---BASIC--- SERVICE	TREATED AGRIC	----- SEASONAL	----- (NOTE 1)- GWR	DOLLAR AMOUNT	---BASIC--- SERVICE	UNTREATED AGRIC	----- SEASONAL	----- (NOTE 1)- GWR	DOLLAR AMOUNT	RECLAIMED	(NOTE 2) SPECIAL	TOT DOLLAR (\$) AMOUNT
CITY OF ANAHEIM	345826	0	26426	0	372253	-18025	0	11999	0	-6026	0	5375	371602
CITY OF BURBANK	394092	0	0	0	394092	0	0	0	0	0	-3388	-11384	379320
BEVERLY HILLS	541744	0	0	0	541744	0	0	0	0	0	0	41090	582834
CITY OF COMPTON	111399	0	0	0	111399	0	0	0	0	0	0	4084	115483
CALLEGUAS MWD	2439020	56817	810781	0	3306619	0	0	0	0	0	0	77179	3383798
CHINO BASIN MWD	0	0	0	0	0	1099768	531	88920	0	1189220	0	-19174	1170045
CENTRAL BASIN MWD	1362475	0	720148	165032	2247656	0	0	975746	0	975746	-68230	-46957	3108214
COASTAL MWD	2631189	3005	15730	0	2649924	0	0	0	0	0	-6036	46367	2690255
EASTERN MWD	2475060	95456	74016	0	2644533	-166840	0	0	0	-166840	-36482	-38073	2403137
CITY OF FULLERTON	394263	0	0	0	394263	0	0	0	0	0	0	3250	397513
FOOTHILL MWD	181135	0	78221	0	259356	0	0	0	0	0	-38115	1729	222970
CITY OF GLENDALE	1058013	0	0	0	1058013	0	0	0	0	0	0	42258	1100272
CITY OF LOS ANGELES	977158	0	911596	0	1888755	-107500	0	71562	0	-35937	0	97634	1950452
CITY OF LONG BEACH	172743	0	914771	0	1087514	0	0	0	0	0	-21744	7550	1073319
LAS VIRGENES MWD	448833	635	0	0	449469	0	0	0	0	0	0	15885	465354
ORANGE COUNTY MWD	4329651	8698	1227340	0	5565690	238495	7807	1404388	0	1650691	-212458	-526254	6477668
CITY OF PASADENA	413773	0	-42099	0	371674	0	0	0	0	0	0	4725	376399
THREE VALLEYS MWD	2121863	0	0	0	2121863	348437	0	111660	0	460098	-12720	37945	2607186
CITY OF SANTA ANA	42	0	0	0	42	0	0	0	0	0	-1724	7233	5551
SAN DIEGO CWA	7380407	1338503	74503	0	8793413	7901129	16054	90821	0	8008005	-67898	-24325	16709195
CITY OF SAN FERNANDO	0	0	0	0	0	0	0	0	0	0	0	275	275
CITY OF SANTA MONICA	329383	0	0	23174	352557	0	0	0	0	0	0	16615	369173
CITY OF SAN MARINO	29905	0	0	0	29905	0	0	0	0	0	0	1263	31168
CITY OF TORRANCE	971706	0	0	0	971706	0	0	0	0	0	0	2175	973881
SAN GABRIEL VALLEY	230040	0	0	0	230040	0	0	1780291	0	1780291	0	-110778	1899553
WEST BASIN MWD	4929586	0	122207	681131	5732926	0	0	0	0	0	-366575	441305	5807656
WESTERN MWD	1249798	395063	0	0	1644861	647132	199075	0	0	846208	0	-176403	2314666
SPC CONT	0	0	0	0	0	2132	0	0	0	2132	0	757	2890
TOTAL:	35519113	1898180	4933643	869338	\$43220275	9944730	223469	4535390	0	\$14703590	-835374	-98650	\$56989840

NOTE 1: GROUND WATER REPLENISHMENT (GWR) INCLUDES SPREADING AND INJECTION. WATER DELIVERIES UNDER SPREADING ARE BILLED AS SEASONAL STORAGE DURING PERIODS THAT PROGRAM IS ACTIVE.

NOTE 2: SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, I.I.C.P., ETC.

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The Metropolitan Water District of Southern California

TABLE D

MONTHLY ANALYSES OF THE DISTRICT WATER SUPPLIES--APRIL 1996

CONSTITUENTS	SYMBOLS AND UNITS	SOURCE WATERS							FILTRATION PLANT EFFLUENTS					
		LAKE HAVASU NEAR WHITSETT INTAKE	SAN JACINTO TUNNEL WEST PORTAL	LAKE MATH- EWES	LAKE CASTAIC	LAKE SILVER- WOOD	LAKE PERRIS	LAKE SKIN- NER	WEY- MOUTH PLANT	DIEMER PLANT	JENSEN PLANT	SKIN- NER PLANT NO. 1	SKIN- NER PLANT NO. 2	MILLS PLANT
MONTH OR DAY OF SAMPLING	→	4/2/96	4/1/96	4/1/96	Apr-96	4/1/96	4/1/96	Apr-96	Apr-96	Apr-96	Apr-96	Apr-96	Apr-96	Apr-96
SILICA	SiO ₂ mg/L	7.8	7.7	8.4	14.0	10.7	2.1	8.3	9.4	10.0	13.9	8.2	8.2	10.6
CALCIUM	Ca mg/L	78	77	79	46	21	27	65	60	61	46	65	63	20
MAGNESIUM	Mg mg/L	30.5	30.5	31	19.5	10	18	28	25	27	20	27.5	27.5	10
SODIUM	Na mg/L	101	101	99	54	36	80	91	93	90	57	92	93	39
POTASSIUM	K mg/L	4.8	4.9	5.0	3.5	3.2	4.4	5.3	5.1	4.7	3.4	5.0	5.0	2.6
CARBONATE	CO ₃ mg/L	1	1	0	0	4	6	2	0	0	0	0	0	1
BICARBONATE	HCO ₃ mg/L	165	162	165	124	82	115	142	133	137	127	140	143	77
SULFATE	SO ₄ mg/L	275	278	281	127	37	58	227	215	212	128	228	226	40
CHLORIDE	Cl mg/L	91	94	97	51	44	113	81	80	81	53	84	84	47
NITRATE	NO ₃ mg/L	1.27	1.16	1.03	1.89	2.51	<0.05	0.79	1.44	1.46	1.89	0.80	0.84	2.90
FLUORIDE	F mg/L	0.31	0.31	0.31	0.31	0.11	0.16	0.25	0.20	0.21	0.28	0.20	0.19	0.08
BORON	B mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL DISSOLVED SOLIDS	TDS mg/L	673	677	684	379	209	366	580	556	556	387	581	579	212
TOTAL HARDNESS AS CaCO ₃	mg/L	320	318	325	195	94	142	278	253	264	197	276	271	91
TOTAL ALKALINITY AS CaCO ₃	mg/L	137	135	135	102	73	104	120	109	112	104	115	117	65
FREE CARBON DIOXIDE	CO ₂ mg/L	1.2	1.1	1.3	2.5	0.2	0.4	0.9	2.1	2.1	1.6	2.0	2.1	0.4
H ⁺ CONCENTRATION	pH	8.37	8.39	8.31	7.92	8.81	8.75	8.42	8.03	8.04	8.13	8.06	8.06	8.49
SPECIFIC CONDUCTANCE	µmho/cm	1059	1058	1085	636	373	677	943	896	911	642	950	944	383
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
FILTER EFFLUENT TURBIDITY	NTU	--	--	--	--	--	--	--	0.07	0.08	0.07	0.09	--	0.11
TURBIDITY	NTU	0.75	0.56	0.85	0.72	3.9	0.55	2.0	0.07	0.08	0.07	0.09	0.08	0.11
TEMPERATURE	°C	19	17	15	13	13	18	19	16	17	13	19	20	16
BROMIDE	Br mg/L	0.09	0.09	0.08	0.16	0.12	0.35	0.11	--	--	--	--	--	--
TOTAL ORGANIC CARBON	TOC mg/L	2.68	3.43	2.62	2.83	2.78	4.16	2.99	2.59	2.72	2.94	2.88	2.47	3.01
TOTAL TRIHALOMETHANES	TTHMs µg/L	--	--	--	--	--	--	--	40	36	51	34	30	65
PCT. STATE PROJECT WATER	%SPW %	0	0	0	100	100	100	21	26	24	100	21	21	100

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TABLE E, GENERAL MANAGER'S MONTHLY REPORT

May 1996

Storage in Colorado River Basin Reservoirs at the end of the Month

Reservoir	(ACRE-FEET)				
	Usable Contents Above Lowest Outlet	Percent Of Usable Capacity	Usable Contents Above Min. Power Head	Change * in Contents During Month	Change * in Contents Since May-1995
<u>Upper Basin</u>					
Fontenelle	131,600	38%	(63,400)	18,900	26,300
Flaming Gorge	3,082,200	82%	2,849,200	(25,100)	171,400
Blue Mesa	708,800	85%	627,700	208,600	249,400
Morrow Point	111,900	96%	37,000	300	(2,300)
Crystal	16,800	95%	6,200	0	(2,000)
Navajo	1,464,900	86%	N/A	32,800	62,800
Powell	21,389,400	88%	17,392,400	1,202,900	3,038,700
Subtotal	26,905,600	87%	20,849,100	1,438,400	3,544,300
<u>Lower Basin</u>					
Mead	21,672,000	83%	11,648,000	(210,000)	1,751,000
Mohave	1,734,400	96%	1,516,900	27,400	7,600
Havasu	609,800	98%	170,400	29,000	6,400
Subtotal	24,016,200	84%	13,335,300	(153,600)	1,765,000
Basin Total	50,921,800	85%	34,184,400	1,284,800	5,309,300

* Numbers within () are negative numbers.

**USABLE STORAGE
(ACRE-FEET)**

May 1996

SWP Reservoirs:

<u>Southern California</u>	<u>Capacity</u>	<u>May 1996</u>	<u>April 1996</u>
Silverwood	71,000	34,413	34,934
Perris	127,400	117,645	119,751
Pyramid	166,400	155,588	161,921
Castaic	305,100	298,997	290,989
Subtotal	669,900	606,643	607,595
<u>Northern California</u>			
Oroville	3,507,900	3,474,703	3,213,534
San Luis	1,068,000	843,231	972,066
Subtotal	4,575,900	4,317,934	4,185,600
Total	5,245,800	4,924,577	4,793,195

MONTHLY PROGRESS REPORT OF CONSTRUCTION AND PROCUREMENT CONTRACTS

May 1996

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
Number of Contracts	20	5
Total Bid Amount of Contracts in Progress	\$543,676,341.22	\$49,933,000
Number of Contracts Awarded this Month	1	1
Total Bid Amount of Contracts Awarded this Month	149,432	5,730,000
Contract Gross Earnings this Month	13,688,154	0

AWARDED CONTRACTS

Construction Contracts:

Contract No. 1465, in the amount of \$149,432, was awarded to Fredrick Towers, Inc., for removing and replacing damaged concrete sidewalk, curb, gutter, cross drain, asphalt pavement and base, and adjustments of manholes, observation wells, valve covers, parking lot striping, wheel stops, and other appurtenances at the Joseph Jensen Filtration Plant.

Procurement Contracts:

Contract No. 1464, in the amount of \$5,730,000, was awarded to Ameron, Inc., for furnishing fabricated steel pipe and fittings for P-1 Yard piping at the Eastside Reservoir Project.

COMPLETED CONTRACTS

Contract No. 1448, La Verne Auto Repair and Utility Shop seismic upgrade, was completed on May 9, 1996; the Notice of Completion was recorded on May 14, 1996.

No procurement contracts were completed this month.

SUMMARIES/STATUS OF CONTRACTS

A tabular summary of current construction contracts is included on pages 4 through 6 of this report. Details of the status of current construction contracts are shown on pages 9 through 28 of this report.

Tabular summaries of construction contracts completed this month, and of construction contracts which have been completed but have final payments pending, are included on page 7 of this report.

A tabular summary of procurement contracts is included on page 8 of this report.

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings To Date	Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
1442	1321	Site Preparation for the Joseph Jensen Filtration Plant Oxidation Retrofit Program	Calex Engineering	\$6,584,700	\$186,435	\$5,821,022	\$2,722	06/05/95	01/16/97	01/97	88
1465	1370	Parking Lot Reconstruction for the Joseph Jensen Filtration Plant	Fredrick Towers, Inc.	149,432	0	0	0	--	--	--	0
1418	1238A	Henry J. Mills Filtration Plant Expansion No. 2	M. A. Mortenson Company	69,943,000	1,133,915	67,188,968	385,766	10/07/93	11/19/96	11/96	95
1449	1239	Henry J. Mills Filtration Plant Expansion No. 2 Floating Covers and Liners for Finished Water Reservoirs 1 and 2	Serrot Corporation	2,625,000	13,610	1,522,173	0	11/13/95	02/27/97	02/97	58
1438	1246	Eastside Pipeline	Advanco Constructors, Inc.	45,628,961	4,500,491	32,523,603	76,275	04/07/95	06/05/97	06/97	71
1439	1272	East Newport Road Realignment	E. L. Yeager Construction Company, Inc.	19,245,525.88	568,064	20,622,143	721,123	03/16/95	06/07/96	06/96	99
1451	1311A	Landscape Screening for Winchester Road and State Street	A&B Landscaping	423,732	79,585	367,732	0	02/14/96	07/11/96	07/96	87
1452	1326	West Dam, Saddle Dam, and Forebay	Atkinson-Washington-Zachry, A Joint Venture	384,150,000	5,096,671	29,372,395	17,812	03/26/96	06/07/99	06/99	8

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings To Date	Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
1455	1308	East Dam North Excavation	Erreca's, Inc.	\$3,835,200	\$895,245	\$2,740,370	\$10,590	03/11/96	08/06/96	08/96	71
1458	1309	Northwest Access Road to Overlook	Fleming Engineering, Inc.	1,824,760	83,247	83,247	0	04/22/96	11/06/96	11/96	5
1447	1337	Robert B. Diemer Filtration Plant Chlorine System Expansion/Relocation	Pascal & Ludwig Engineers	2,238,670	245,686	1,854,596	28,716	11/02/95	09/26/96	09/96	82
1444	1234B	Standby Emergency Power Modifications and Additions at Robert A. Skinner Filtration Plant	Turning Point Construction, Inc.	1,429,000	100,555	900,750	21,673	06/16/95	07/10/96	07/96	62
1445	1275A	Eagle Rock Operations Control Center	Cavecche Engineering and Construction Company, Inc.	1,523,289	125,263	1,238,948	12,141	06/19/95	08/01/96	08/96	81
1448	1302A	La Verne Auto Repair and Utility Shop - Seismic Upgrade	Gorilla Construction, Inc.	207,021.34	0	213,269	6,248	11/27/95	05/09/96 ACTUAL	05/14/96 NOC FILED	100
1450	1348	Lower Feeder Cathodic Protection System	Catholic Protections Services Company	662,684	59,352	381,585	0	12/06/95	12/03/96	12/96	58
1456	1319	Buried Insulating Joint Test Stations	American Construction and Supply, Inc.	372,676	86,556	101,031	0	03/07/96	09/06/96	09/96	27
1459	1226	Seismic Upgrade of Discharge Pipelines at Hinds and Eagle Mountain	Mitchell Pacific Constructors, Inc.	2,043,453	162,246	251,300	0	03/13/96	10/11/96	10/96	12

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings To Date	Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
1460	1298	Transmission Towers 124W3 To 129W2 Footing Repair	Associated Industries, Inc.	\$197,050	\$92,860	\$152,778	\$46,686	04/02/96	06/16/96	06/96	54
1461	1366	Cathodic Protection for the Etiwanda Pipeline	American Construction and Supply, Inc.	98,787	29,636	29,636	0	04/05/96	06/25/96	06/96	30
1463	1377	Second Lower Feeder Dominguez Channel Pipeline Repair	L. H. Woods & Sons, Inc.	493,400	228,737	308,737	0	04/26/96	07/31/96	07/96	63

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS COMPLETED THIS MONTH

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due

Note: Contract No. 1448 is complete; however, final payment is pending.

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS COMPLETED THIS MONTH PENDING FINAL PAYMENT

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due
1448	1302A	La Verne Auto Repair and Utility Shop - Seismic Upgrade	Gorilla Construction, Inc.	\$207,021.34	\$213,269	05-09-96	05-14-96	06-96

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF PROCUREMENT CONTRACTS

Cont. No.	Spec. No.	Equipment or Material	Contractor	Contract Price	Earnings This Month	Earnings To Date	Starting Date	Delivery Date	Remarks
1396A	1207	Four Computer-Based Control Systems	Systems Integrated	\$7,630,000	\$0	\$3,277,945	01/10/95	07/10/96	
1454	1293A	Eastside Reservoir Project Pumps, Motors, and Related Equipment for the P-1 Pumping Plant	Nissho Iwai American Corporation	22,600,000	0	0	02/12/96	03/12/98	
1457	1339	Eastside Reservoir Project Butterfly Valves	Nissho Iwai American Corporation	11,880,000	0	0	02/12/96	01/12/98	
1462	1347	Eastside Reservoir Project Fixed Cone Valves and Spherical Valve	Kvaerner Hydro Power, Inc.	2,093,000	0	0	--	--	Notice to Proceed issued 05/16/96
1464	1363	Eastside Reservoir Project Fabricated Steel Pipe and Fittings for P-1 Yard Piping	Ameron, Inc.	5,730,000	0	0	--	--	Notice of Award issued 05/23/96.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Site Preparation for the Joseph Jensen Filtration Plant Oxidation Retrofit Program		
CONTRACTOR	Calex Engineering		
SPECIFICATIONS NO.	1321	BID AMOUNT	\$6,584,700
CONTRACT NO.	1442	EXTRA WORK TO DATE	2,722
CONTRACT STARTING DATE	June 5, 1995	EARNINGS THIS MONTH	186,435
CONTRACT COMPLETION DATE	January 16, 1997	EARNINGS TO DATE	5,821,022
ESTIMATED COMPLETION DATE	January 1997	ESTIMATED PERCENT COMPLETE	88

SCOPE OF WORK

Perform earthwork and offsite disposal of excess material; slope stabilization with hydroseeding and temporary irrigation system; remove existing chain-link fence; remove existing storm drain and replace with new 36-inch RCP and related appurtenances; construct miscellaneous concrete drainage channels; and all other appurtenant work.

CONSTRUCTION PROGRESS

The contractor continued excavation and off-haul operations. Approximately 1,110,000 cubic yards of material have been removed from the site to date. The contractor began finish grading operations this period.

The contractor began mitigation of the sink hole over the Balboa Inlet Tunnel. The void was filled with concrete slurry to within three feet of finished grade in preparation of final backfill operations.

A G-140 motor grader, one 4000 gallon water truck, and one mobile street sweeper were used to maintain haul roads and city streets.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF Parking Lot Reconstruction for the Joseph Jensen Filtration Plant
CONTRACTOR Fredrick Towers, Inc.

SPECIFICATIONS NO.	1370	BID AMOUNT	\$149,432
CONTRACT NO.	1465	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	--	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	--	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	--	ESTIMATED PERCENT COMPLETE	0

SCOPE OF WORK

Removing and replacing damaged concrete sidewalk, curb, gutter, cross drain, asphalt pavement and base, and adjustments of manholes, observation wells, valve covers, parking lot striping, wheel stops, and other appurtenances at the Joseph Jensen Filtration Plant.

CONSTRUCTION PROGRESS

The Notice of Award was mailed to the contractor on May 16, 1996.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Henry J. Mills Filtration Plant Expansion No. 2		
CONTRACTOR	M. A. Mortenson Company		
SPECIFICATIONS NO.	1238A	BID AMOUNT	\$69,943,000
CONTRACT NO.	1418	EXTRA WORK TO DATE	385,766
CONTRACT STARTING DATE	October 7, 1993	EARNINGS THIS MONTH	1,133,915
CONTRACT COMPLETION DATE	November 19, 1996	EARNINGS TO DATE	67,188,968
ESTIMATED COMPLETION DATE	November 1996	ESTIMATED PERCENT COMPLETE	95

SCOPE OF WORK

Construction of a 220-million-gallon-per-day expansion to the existing plant, including influent and effluent conduits, filtration modules, chemical mixing and storage facilities, plant control structures, washwater reclamation facilities, and all appurtenant work located at 550 East Alessandro Boulevard, Riverside, California.

CONSTRUCTION PROGRESS

Formwork and concrete placement for the basins in Modules Nos. 3 and 4 was completed. Excavation, formwork, installation of steel reinforcing, and placing of concrete continued for the chemical trenches and miscellaneous structures. Concrete patching, repairs, and sealant operations continued in the filters, basins, and miscellaneous structures.

Placement of filter media continued in Modules Nos. 3 and 4. Installation of handrails and grating continued at the filters and basins. Installation of flocculators and rails for the traveling bridge continued in the settling basins. Coating of traveling bridges, chemical tank farms, mechanical equipment, and miscellaneous metals was in progress.

Installation of pipe supports and piping continued in the cross tunnels, pipe galleries, and Dry Polymer Building. Installation of small diameter drain lines, spray wash headers, slide gates, valve operators, and small diameter instrumentation piping and sampling lines continued in the filters. Installation of large and small diameter yard piping progressed at various locations throughout the site.

Installation of exposed conduit racks and junction boxes continued at Chemical Tank Farms 2A and 2B. Electrical connections and light fixtures were installed in various locations in Modules Nos. 3 and 4. Preparation work to energize the electrical circuits continued at the Emergency Generator Building. Testing of pumps proceeded at the Potable Water Pump Station. Instrumentation equipment and valves installed in Modules Nos. 3 and 4 were also being tested.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Henry J. Mills Filtration Plant Expansion No. 2 Floating Covers and Liners for Finished Water Reservoirs 1 and 2		
CONTRACTOR	Serrot Corporation		
SPECIFICATIONS NO.	1239	BID AMOUNT	\$2,625,000
CONTRACT NO.	1449	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	November 13, 1995	EARNINGS THIS MONTH	13,610
CONTRACT COMPLETION DATE	February 27, 1997	EARNINGS TO DATE	1,522,173
ESTIMATED COMPLETION DATE	February 1997	ESTIMATED PERCENT COMPLETE	58

SCOPE OF WORK

Construction of a polypropylene cover and liner, each with a net area of approximately 265,000 square feet, and appurtenant work for Metropolitan's newly constructed Finished (Potable) Water Reservoir (FWR) No. 2 at the Henry J. Mills Filtration Plant. The project also includes modifications to the existing Hypalon floating cover for FWR No. 1, the construction of a new Hypalon floating cover with a net area of approximately 264,000 square feet, and appurtenant work for FWR No. 1. Piping, submersible pumps, electrical, and appurtenant work for both reservoirs are included.

CONSTRUCTION PROGRESS

Approval by DSOD was received; the contractor began filling Finished Water Reservoir (FWR) No. 2 with water in preparation for specified leak and operational testing. Testing equipment, generators, extrusion guns, and hot air seamers instrumental to the work were in use.

Completion of FWR No. 2 is pending the specified leak testing for the liner, installation of some small vents, and operational testing of electrical equipment previously installed.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Eastside Pipeline		
CONTRACTOR	Advanco Constructors, Inc.		
SPECIFICATIONS NO.	1246	BID AMOUNT	\$45,628,961
CONTRACT NO.	1438	EXTRA WORK TO DATE	76,275
CONTRACT STARTING DATE	April 7, 1995	EARNINGS THIS MONTH	4,500,491
CONTRACT COMPLETION DATE	June 5, 1997	EARNINGS TO DATE	32,523,603
ESTIMATED COMPLETION DATE	June 1997	ESTIMATED PERCENT COMPLETE	71

SCOPE OF WORK

Fabrication and installation of a 145-1/2-inch-diameter steel pipeline approximately 9 miles in length, a secondary 97-inch-diameter steel pipeline approximately 415 feet, and the relocation of a portion of the San Diego Pipelines 1 and 2, flowmeter structure, manholes, earthwork, and other items as shown and specified.

CONSTRUCTION PROGRESS

Final grading of backfill for the pipe trench continued southerly from Stetson Avenue to the A.T. & S.F. Railroad crossing. Mortar lining of the pipe joints continued southerly from Reed Ranch Road to Florida Avenue. Stull removal and pre-lining of joints continued southerly from Florida Avenue to the A.T. & S.F. Railroad crossing.

Trench excavation and pipe laying were completed from Simpson Avenue to the north side of the Salt Creek Channel. Welding of pipe joints, connection of electrolysis test cables, application of heat shrink wrapping to pipe joints, and placement of sand and local backfill continued.

The contractor mobilized equipment at the southern termination of the pipeline, and proceeded northward with excavation and limited blasting operations.

Ameron Steel Fabrication, the pipe supplier, continued to fabricate the 145½-inch welded steel pipe.

Temporary fence installation continued ahead of the trench excavation. Permanent fence installation continued southerly from Esplanade Avenue, following final grading.

Installation of air release valves and placement of manholes and appurtenances continued.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	East Newport Road Realignment		
CONTRACTOR	E. L. Yeager Construction Company, Inc.		
SPECIFICATIONS NO.	1272	BID AMOUNT	\$19,245,525.88
CONTRACT NO.	1439	EXTRA WORK TO DATE	721,123
CONTRACT STARTING DATE	March 16, 1995	EARNINGS THIS MONTH	568,064
CONTRACT COMPLETION DATE	June 7, 1996	EARNINGS TO DATE	20,622,143
ESTIMATED COMPLETION DATE	June 1996	ESTIMATED PERCENT COMPLETE	99

SCOPE OF WORK

Construction of a 7-1/4-mile long paved road and 4-mile long deep storm drain channel for the Eastside Reservoir Project in Hemet, California; additional work to include removal and disposal of existing concrete pipe, followed by installation of Metropolitan-furnished structural steel sleeve.

CONSTRUCTION PROGRESS

Asphalt concrete paving of the parkway was completed, and expansion joint seals were installed at the Warren Road, Sanderson Avenue, and San Diego Canal bridges.

Survey operations to set slope stakes and structure controls continued throughout the site. Rip-rap placement and fine grading of the Salt Creek Channel were completed.

With the exception of minor punch list items, construction was completed on the reinforced concrete box culvert at Cawston Avenue and on the Lyon Avenue double box culvert.

Concrete forming and falsework materials were removed from the site, and cleanup of miscellaneous bridge construction materials continued. Demobilization of the on-site rock crusher and asphalt plant was completed.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Landscape Screening for Winchester Road and State Street		
CONTRACTOR	A&B Landscaping		
SPECIFICATIONS NO.	1311A	BID AMOUNT	\$423,732
CONTRACT NO.	1451	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	February 14, 1996	EARNINGS THIS MONTH	79,585
CONTRACT COMPLETION DATE	July 11, 1996	EARNINGS TO DATE	367,732
ESTIMATED COMPLETION DATE	July 1996	ESTIMATED PERCENT COMPLETE	87

SCOPE OF WORK

Construction and installation of landscape screening for Winchester Road, a portion of the existing Newport Road, and State Street, in addition to follow-up landscape maintenance services for the Eastside Reservoir Project. The work includes, but is not limited to, mowing and clearing, minor demolition, supply well, submersible well pumping systems for one existing water supply well and one new water supply well, new fence, and appurtenant work.

CONSTRUCTION PROGRESS

Twenty-one working days were charged this period for a total of sixty-eight working days charged to date.

The contractor completed planting trees and shrubs at State Street. Installation of irrigation lines at Winchester Road is complete. Planting of trees and shrubs at Winchester Road began.

Subcontractor Tri-County Drilling set the enclosure for the control panel and irrigation controller at the existing well on the north side of Newport Road, west of State Street.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Eastside Reservoir Project West Dam, Saddle Dam, and Forebay		
CONTRACTOR	Atkinson-Washington-Zachry, A Joint Venture		
SPECIFICATIONS NO.	1326	BID AMOUNT	\$384,150,000
CONTRACT NO.	1452	EXTRA WORK TO DATE	17,812
CONTRACT STARTING DATE	March 26, 1996	EARNINGS THIS MONTH	5,096,671
CONTRACT COMPLETION DATE	June 7, 1999	EARNINGS TO DATE	29,372,395
ESTIMATED COMPLETION DATE	June 1999	ESTIMATED PERCENT COMPLETE	8

SCOPE OF WORK

Work includes clearing, grubbing and stripping; demolition; excavation; foundation dewatering; rock foundation treatment; plastic concrete cutoff in the West Dam foundation; foundation grouting; foundation clean-up; dam embankment and instrumentation; Forebay embankment, liner structures and road; and all other appurtenant work for the Eastside Reservoir Project West Dam, Saddle Dam, and Forebay.

CONSTRUCTION PROGRESS

Mobilization efforts continued, including erection of the rock processing plant, contractor's shop and facilities, and foundation work for the concrete batch plant. The foundation grouting subcontractor, Nicholson-Rodio, continued mobilizing equipment and assembly of grout plants at the West Dam; their offices are near completion. The contractor's and the engineer's field offices are essentially complete.

Decommissioning of existing wells continued.

The contractor completed installation of 55 dewatering wells, 12 injection wells, collection pipelines, tanks and pits for the foundation dewatering and groundwater injection system. Dewatering began in the north channel of the West Dam on April 29, 1996; dewatering activities in the north, middle, and south channels continued.

Excavation in the West Dam continued with foundation clean-up in the core trench. Stripping and common excavation at the north abutment started in preparation of the Upper Adit excavation.

Rock foundation cleaning, dental excavation, and dental concrete placement continued at the West Dam in areas excavated under the previous West Dam excavation contract. A total of more than 5,000 cubic yards of concrete has been placed in the dam foundation to date.

Excavation at the Saddle Dam continued, and is approximately 75 percent complete. Inlet/Outlet Channel excavation began this period, as well as excavation in that part of the Forebay that is adjacent to the P-1 area.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Eastside Reservoir Project East Dam North Excavation		
CONTRACTOR	Erreca's, Inc.		
SPECIFICATIONS NO.	1308	BID AMOUNT	\$3,835,200
CONTRACT NO.	1455	EXTRA WORK TO DATE	10,590
CONTRACT STARTING DATE	March 11, 1996	EARNINGS THIS MONTH	895,245
CONTRACT COMPLETION DATE	August 6, 1996	EARNINGS TO DATE	2,740,370
ESTIMATED COMPLETION DATE	August 1996	ESTIMATED PERCENT COMPLETE	71

SCOPE OF WORK

Work includes decommissioning of test borings and wells; demolition; utility removal and relocation; clearing, grubbing, and stripping; excavation, including stockpiling and disposal of excavated materials; dam foundation cleaning; and all other appurtenant work for the Eastside Reservoir Project East Dam north excavation.

CONSTRUCTION PROGRESS

Demolition of existing concrete and asphalt pads continued; well decommissioning also continued.

Excavation work continued at the northern excavation area. Rock foundation cleaning began at both the north and south abutments.

Staking of previously excavated areas continued.

Exploratory excavation of Borrow Area No. 5 (BA5) at the T-1 test trench was completed.

The contractor began to demobilize excavation equipment.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Eastside Reservoir Project Northwest Access Road to Overlook		
CONTRACTOR	Fleming Engineering, Inc.		
SPECIFICATIONS NO.	1309	BID AMOUNT	\$1,824,760
CONTRACT NO.	1458	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	April 22, 1996	EARNINGS THIS MONTH	83,247
CONTRACT COMPLETION DATE	November 6, 1996	EARNINGS TO DATE	83,247
ESTIMATED COMPLETION DATE	November 1996	ESTIMATED PERCENT COMPLETE	5

SCOPE OF WORK

Construction of the Northwest Access Road, from Darlene Lane to the Overlook at the Eastside Reservoir Project site, and shall include, but is not necessarily limited to: clearing and grubbing; stockpiling of topsoil; excavation of materials within the limits of excavation; removal of waste excavated materials to the designated spoil disposal area indicated on the drawings; construction of fill areas, and electrical ductbank; construction of the access road base and paving, and related work from Darlene Lane to and including the overlook parking area, trail and overlooks; construction of Darlene Lane and Northwest Access Road intersection grading, base and paving; and all other items which may be required to complete the work.

CONSTRUCTION PROGRESS

Twenty-four working days were charged this period for a total of twenty-four working days charged to date.

The contractor mobilized a field office at the site, set temporary water and power, and temporary fencing around the laydown area.

Clearing, grubbing and stripping began, establishing an access up to Station 28+00.

Fill operations began from Station 21+00 to Station 23+70; cutting of 1:1 slopes began from Station 8+00 to Station 26+00.

Subcontractor, Adkan Engineering, completed setting of slope stakes.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Robert B. Diemer Filtration Plant Chlorine System Expansion/Relocation		
CONTRACTOR	Pascal & Ludwig Engineers		
SPECIFICATIONS NO.	1337	BID AMOUNT	\$2,238,670
CONTRACT NO.	1447	EXTRA WORK TO DATE	28,716
CONTRACT STARTING DATE	November 2, 1995	EARNINGS THIS MONTH	245,686
CONTRACT COMPLETION DATE	September 26, 1996	EARNINGS TO DATE	1,854,596
ESTIMATED COMPLETION DATE	September 1996	ESTIMATED PERCENT COMPLETE	82

SCOPE OF WORK

The project consists of a new chlorine building, piping for liquid chlorine lines, chlorine gas vacuum lines, chlorine solution lines, general piping, sitework, mechanical equipment, electrical work, and appurtenant work at the Robert B. Diemer Filtration Plant.

CONSTRUCTION PROGRESS

The contractor began installation of chlorine piping to the new evaporators.

Electrical conduit installation in the new chlorine building continued.

Painting of structural steel and miscellaneous metal began this period. Built-up roofing for the new chlorine building was completed.

Partition wall framing, drywall, finish plumbing, and canopy fascia installation operations began this period.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Standby Emergency Power Modifications and Additions at Robert A. Skinner Filtration Plant		
CONTRACTOR	Turning Point Construction, Inc.		
SPECIFICATIONS NO.	1234B	BID AMOUNT	\$1,429,000
CONTRACT NO.	1444	EXTRA WORK TO DATE	21,673
CONTRACT STARTING DATE	June 16, 1995	EARNINGS THIS MONTH	100,555
CONTRACT COMPLETION DATE	July 10, 1996	EARNINGS TO DATE	900,750
ESTIMATED COMPLETION DATE	July 1996	ESTIMATED PERCENT COMPLETE	62

SCOPE OF WORK

Furnish and install equipment and materials for standby emergency power additives to include a diesel-operated emergency generator system, all switchgear, power panels, wiring, external fuel tanks, piping, controls, monitoring systems, accessories and appurtenances; work also includes modifications to existing site switchgear and facilities associated with the installation of new facilities at the Skinner Filtration Plant.

CONSTRUCTION PROGRESS

The contractor completed installation of structural steel at the generator building. Installation of the electrical grounding grid was also in progress, as well as installation and backfilling of a one inch domestic water line from the POC to the generator building.

Installation of generator pads, generators, and site improvement slabs were also in progress at the building site.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Eagle Rock Operations Control Center		
CONTRACTOR	Cavecche Engineering and Construction Company, Inc.		
SPECIFICATIONS NO.	1275A	BID AMOUNT	\$1,523,289
CONTRACT NO.	1445	EXTRA WORK TO DATE	12,141
CONTRACT STARTING DATE	June 19, 1995	EARNINGS THIS MONTH	125,263
CONTRACT COMPLETION DATE	August 1, 1996	EARNINGS TO DATE	1,238,948
ESTIMATED COMPLETION DATE	August 1996	ESTIMATED PERCENT COMPLETE	81

SCOPE OF WORK

Demolition of existing wood frame house and garage, and removal of A.C. paving, fencing, walls, earthwork, septic tank, concrete, landscaping, piping, electrical and other related items; work also includes construction of the new Eagle Rock Operations Control Center, including emergency generator room with fuel tank, slope stabilization, site work and appurtenances.

CONSTRUCTION PROGRESS

The contractor continued submittal of products to Metropolitan for review and approval.

Water and gas lines for the site were installed and tested; the contractor began backfilling the trenches. Installation of sub-drain lines for the center footings of the Operations Control Center (OCC) also began. Installation of water proofing for the OCC footings was completed. Installation of the fuel lines to the generator day tank continued.

Rough-in, hydrostatic testing, and painting of the fire sprinkler piping were completed. Installation of HVAC diffusers and registers began.

Rough-in electrical work above the ceiling and at the one hour corridors on the first and second floors in the OCC was completed. Installation and wire pulling for receptacle boxes, distribution panels, and light fixtures were in progress. The concrete pad for the transformer adjacent to the generator building was completed. The slab-on-grade for the generator building was completed, and the emergency generator was set.

Ceiling grid installation began. Drywall installation and taping of the drywall joints continued for the first and second floors. Painting of door frames and walls began on the second floor.

Installation of metal framing for the canopies was completed, and sheet metal roofing for the canopies was in progress. Installation of the exterior aluminum window frames and glazing continued. Various appurtenances required for the elevator shaft and elevator room were completed.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	La Verne Auto Repair and Utility Shop - Seismic Upgrade		
CONTRACTOR	Gorilla Construction, Inc.		
SPECIFICATIONS NO.	1302A	BID AMOUNT	\$207,021.34
CONTRACT NO.	1448	EXTRA WORK TO DATE	6,248
CONTRACT STARTING DATE	November 27, 1995	EARNINGS THIS MONTH	0
ACTUAL COMPLETION DATE	May 9, 1996	EARNINGS TO DATE	213,269
		ESTIMATED PERCENT COMPLETE	100

SCOPE OF WORK

Strengthening of the La Verne Auto Repair and Utility Shop to increase its ability to resist earthquake forces. Reinforced concrete shear walls shall be added, and one area of the roof diaphragm shall be strengthened by the addition of a horizontal steel truss below the existing steel deck roof. Other members and connections shall be added or strengthened as shown on the drawings.

CONSTRUCTION PROGRESS

The contract work was accepted by Metropolitan on May 9, 1996; the Notice of Completion was filed on May 14, 1996.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Lower Feeder Cathodic Protection System		
CONTRACTOR	Cathodic Protection Services Company		
SPECIFICATIONS NO.	1348	BID AMOUNT	\$662,684
CONTRACT NO.	1450	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	December 6, 1995	EARNINGS THIS MONTH	59,352
CONTRACT COMPLETION DATE	December 3, 1996	EARNINGS TO DATE	381,585
ESTIMATED COMPLETION DATE	December 1996	ESTIMATED PERCENT COMPLETE	58

SCOPE OF WORK

Installation of 19 deep anode Cathodic protection systems for Metropolitan's Lower Feeder Pipeline. The 19 systems will be located within the eight cities/communities of Corona, Yore Linda, Brae, La Herb, La Mired, Santa Fe Springs, Norfolk, and Downy in the Riverside, Orange, and Los Angeles counties, respectively. Included in these systems are deep well anodes, rectifiers, rectifier enclosures, conduit, electrical service cabinets, electrical boxes, PVC vent pipe and casings, backfill material, and other appurtenances.

CONSTRUCTION PROGRESS

Sites Nos. 9 through 11

The AC and DC conduit installations were completed at all three sites. This included AC conduit and wiring from existing SCE power sources, AC wiring between pedestals and rectifiers, and DC conduit and wiring from the anode wells to the rectifier locations, as well as from our pipeline to the rectifier locations. Street excavations were patched, and concrete pads were poured for the rectifiers and meter pedestals at Site No. 11.

Site No. 12

The anode well was drilled, backfilled, and sealed at this site. In addition, some of the AC and DC conduit and wiring were installed, and the excavations in the street were patched.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Buried Insulating Joint Test Stations		
CONTRACTOR	American Construction and Supply, Inc.		
SPECIFICATIONS NO.	1319	BID AMOUNT	\$372,676
CONTRACT NO.	1456	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	March 7, 1996	EARNINGS THIS MONTH	86,556
CONTRACT COMPLETION DATE	September 6, 1996	EARNINGS TO DATE	101,031
ESTIMATED COMPLETION DATE	September 1996	ESTIMATED PERCENT COMPLETE	27

SCOPE OF WORK

Installation of electrical conductors, test stations, guard posts, and appurtenances on 32 existing buried insulating joint test stations, located on various pipelines throughout Metropolitan's distribution system in the Los Angeles, Orange, San Bernardino, and San Diego counties.

CONSTRUCTION PROGRESS

The contractor completed final grading, test box installation, concrete pad and guard post installation at Sites Nos. 7 and 9.

Insulating joints were excavated, test leads attached, test boxes set, concrete pads poured, guard posts installed, and final grading and/or paving were completed at Sites Nos. 2, 3, 4, 5, 8, 13, and 22.

The insulating joint was excavated and the test leads were attached at Site No. 14. Final grading and test box installation were in progress this period.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Colorado River Aqueduct Seismic Upgrade of Discharge Pipelines at Hinds and Eagle Mountain		
CONTRACTOR	Mitchell Pacific Constructors, Inc.		
SPECIFICATIONS NO.	1226	BID AMOUNT	\$2,043,453
CONTRACT NO.	1459	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	March 13, 1996	EARNINGS THIS MONTH	162,246
CONTRACT COMPLETION DATE	October 11, 1996	EARNINGS TO DATE	251,300
ESTIMATED COMPLETION DATE	October 1996	ESTIMATED PERCENT COMPLETE	12

SCOPE OF WORK

Construction of modifications to three existing ten-foot-diameter discharge pipelines at the Hinds Pumping Plant, and to three existing ten-foot-diameter discharge pipelines at the Eagle Mountain Pumping Plant, including all appurtenant work.

CONSTRUCTION PROGRESS

The contractor continued mobilization, including job trailers, small and heavy equipment, access ramps and pads, temporary fencing, and other activities at the Hinds pipeline site. The contractor also began layout of the work and some excavation at the Hinds site.

Excavation and removal of concrete were completed at the Eagle Mountain pipeline site.

Plans for the future are to begin performing demonstration, proof, and performance tests on anchors to ensure their stability.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF Transmission Towers 124W3 To 129W2 Footing Repair

CONTRACTOR Associated Industries, Inc.

SPECIFICATIONS NO.	1298	BID AMOUNT	\$197,050
CONTRACT NO.	1460	EXTRA WORK TO DATE	46,686
CONTRACT STARTING DATE	April 2, 1996	EARNINGS THIS MONTH	92,860
CONTRACT COMPLETION DATE	June 16, 1996	EARNINGS TO DATE	152,778
ESTIMATED COMPLETION DATE	June 1996	ESTIMATED PERCENT COMPLETE	54

SCOPE OF WORK

Excavation of concrete footings, concrete sandblasting, concrete rehabilitation, concrete epoxy injection, coating of concrete, and grounding of electrical transmission towers, located in Danby Dry Lake near the Iron Mountain Pumping Plant.

CONSTRUCTION PROGRESS

The contractor completed surface preparation of the concrete transmission tower footing surfaces by means of chipping and abrasive blasting. A non-shrink grout, used as a sealant to the joint between the upper and lower block of the concrete footings, was placed at 20 of the 26 transmission towers.

An application of copper naphthanate wood pile preservative was applied to the exposed surfaces, which had been previously inspected in preparation for slurry backfill operations.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Cathodic Protection for the Etiwanda Pipeline		
CONTRACTOR	American Construction and Supply, Inc.		
SPECIFICATIONS NO.	1366	BID AMOUNT	\$98,787
CONTRACT NO.	1461	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	April 5, 1996	EARNINGS THIS MONTH	29,636
CONTRACT COMPLETION DATE	June 25, 1996	EARNINGS TO DATE	29,636
ESTIMATED COMPLETION DATE	June 1996	ESTIMATED PERCENT COMPLETE	30

SCOPE OF WORK

Installation of cathodic protection system for Metropolitan's Etiwanda Pipeline at Stations 86+52.68, 227+53.05, and 330+42.05 in San Bernardino County. The cathodic protection system includes deep well anodes, rectifiers, rectifier enclosures, conduits, electrical boxes, wiring splice kits, polyethylene cap, PVC plastic, vent pipe and casings, backfill material, and other appurtenances.

CONSTRUCTION PROGRESS

A revised material submittal and work schedule were resubmitted by the contractor and approved by Metropolitan.

Mobilization of equipment and materials was in progress. Installation of underground conduits and concrete pads for the equipment cabinets was completed at all three sites.

The Metropolitan Water District of Southern California
MONTHLY CONSTRUCTION PROGRESS REPORT

May 1996

CONSTRUCTION OF	Second Lower Feeder Dominguez Channel Pipeline Repair		
CONTRACTOR	L. H. Woods & Sons, Inc.		
SPECIFICATIONS NO.	1377	BID AMOUNT	\$493,400
CONTRACT NO.	1463	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	April 26, 1996	EARNINGS THIS MONTH	228,737
CONTRACT COMPLETION DATE	July 31, 1996	EARNINGS TO DATE	308,737
ESTIMATED COMPLETION DATE	July 1996	ESTIMATED PERCENT COMPLETE	63

SCOPE OF WORK

Repair of prestressed concrete cylinder pipe, and installation of Metropolitan-provided steel pipe sleeve for the Second Lower Feeder Dominguez Channel Pipeline in the city of Carson.

CONSTRUCTION PROGRESS

The contractor completed the excavation, shoring, and demolition required for the pipe entrance portal.

Installation of the steel liner pipe sections is 96 percent complete; liner and welding operations are 93 percent complete.

Due to Metropolitan's urgent need for the timely completion of this project, the contractor has been continuously prosecuting the work under this contract.