

MAY 10 1994



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Loren E. Duff
 EXECUTIVE SECRETARY

9-1(ii)

April 14, 1994

To: Board of Directors
 From: General Manager
 Subject: Operating Data for March 1994

The following tables contain March 1994 data on Metropolitan's water and power sales and purchases, treatment plant operations, reservoir storage, financial status, construction, and employment; Los Angeles Civic Center rainfall and temperature readings; and a forecast of unimpaired runoff in Sacramento Valley river basins.

WATER SALES

	<u>Mar.</u> 1994 AF	<u>Feb.</u> 1994 AF	<u>Mar.</u> 1993 AF	<u>Total Fiscal</u> <u>Year to Date</u> AF
TOTAL WATER SALES	128,877	100,466	104,869	1,376,440
REVENUE	42,738,688	31,476,136	29,405,219	447,863,896
BASIC SERVICE	90,358	53,281	80,048	982,835
AGRICULTURAL	389	1,725	271	18,849
SPREADING	0	0	0	0
BARRIER INJECTION	2,213	2,026	2,435	22,914
SEASONAL STORAGE				
Spreading	5,793	730	9,197	39,203
Reservoir Storage	2,115	13,036	2,625	31,189
In-Lieu	26,929	28,782	10,012	265,795
RECLAIMED	1,080	886	282	15,656
TREATED	101,270	80,594	80,020	981,640
UNTREATED	26,527	18,985	24,568	379,144

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

METROPOLITAN'S STATE WATER PROJECT (SWP)
CHARGES AND PAYMENTS--FISCAL YEAR 1993/94

The following table shows a comparison of totals from July 1, 1993, through March 31, 1994:

<u>Components*</u>	<u>SWP Statement of Charges to Date**</u>	<u>1993/94 Annual Budget to Date</u>	<u>Amount Paid to Date**</u>
Capital	128,451,652	130,924,000	128,501,312
Minimum	68,692,739	71,874,000	68,366,207
Power	<u>122,366,860</u>	<u>66,300,000</u>	<u>(10,448,541)</u>
Total	<u>\$319,511,251</u>	<u>\$269,098,000</u>	<u>\$207,316,060</u>

* The component designations combine the Delta Water Charge and Transportation Charge components with similar names except that power charges and credits have been excluded from the minimum components and combined with other power charges and credits under the "Power" components.

** The difference between the Statement of Charges to Date and the Amount Paid to Date is due to changes in the Variable OMP&R water quantities, revised Off-Aqueduct power charges, and the application of power credits.

POWER FOR PUMPING

The following quantities of electric energy were generated for Metropolitan's pumping system in February 1994:

<u>Colorado River Energy</u>	<u>Kwh</u>
Hoover Power Plant	140,326,000
Parker Power Plant	<u>22,415,000</u>
Subtotal	162,741,000
Southern California Edison (SCE)	
Benefit Energy	11,338,075
SCE Exchange Energy	(2,000,000)
SCE Purchased Energy	0
California Department of Water	
Resources (DWR) Purchased Energy	0
Other Purchased Energy	<u>47,920,000</u>
Total Generated for Metropolitan	219,999,075
Colorado River Aqueduct (CRA)	
Power Available to DWR	0
CRA Power Available to SCE	0

HYDROELECTRIC POWER RECOVERY PLANTS--FISCAL YEAR 1993/94
ENERGY AND REVENUE ACCOUNT

March 1994

<u>PLANT</u>	<u>Energy Sales (Kwh)</u>		<u>Gross Energy Revenue</u>	
	<u>This Month</u>	<u>F.Y. to Date</u>	<u>This Month</u>	<u>F.Y. to Date</u>
PHASE I				
Greg Avenue	393,600	2,549,219	\$18,251.23	\$115,472.15
Lake Mathews	2,064,000	23,539,954	95,707.68	1,068,800.23
Foothill Feeder	2,568,000	39,265,370	119,078.16	1,778,775.36
San Dimas	162,000	20,272,929	7,511.94	913,258.31
Yorba Linda	<u>2,478,000</u>	<u>23,962,048</u>	<u>114,904.86</u>	<u>1,089,163.70</u>
Subtotal	7,665,600	109,589,520	355,453.87	4,965,469.75
PHASES II-IV				
Sepulveda Canyon	1,884,000	18,792,000	71,511.55	1,062,222.15
Venice	459,000	10,251,000	16,111.91	610,762.62
Temescal	870,000	14,289,000	32,985.09	659,271.23
Corona	1,170,000	14,238,000	44,188.79	653,267.74
Perris	0	0	0.00	0.00
Rio Hondo	914,000	7,966,000	34,437.96	388,589.69
Coyote Creek	1,383,000	12,963,000	51,961.17	588,043.71
Red Mountain	306,000	6,138,000	11,774.78	359,965.35
Valley View	<u>1,128,000</u>	<u>6,268,000</u>	<u>41,216.05</u>	<u>326,398.18</u>
Subtotal	8,114,000	90,905,000	304,187.30	4,648,520.67
Total	<u>15,779,600</u>	<u>200,494,520</u>	<u>659,641.17</u>	<u>9,613,990.42</u>

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

<u>Quality</u>		<u>Diemer</u>	<u>Jensen</u>	<u>Weymouth</u>	<u>Skinner Plant 1</u>	<u>Skinner Plant 2</u>	<u>Mills</u>
Hardness--mg/l as CaCO ₃	Mar. 94	317*	168*	267*	329*	329*	131*
	Feb. 94	297	161	286	327	328	122
	Mar. 93	299	169	288	264	260	87
Total Dissolved Solids--mg/l	Mar. 94	695**	381**	574**	698**	698**	342**
	Feb. 94	686	372	644	692	684	360
	Mar. 93	654	426	637	576	556	263

* Preliminary

** Estimate

(See Table D for Analysis of Water Supplies.)

WATER PROCESSED

		<u>Diemer</u> AF	<u>Jensen</u> AF	<u>Weymouth</u> AF	<u>Skinner</u> AF	<u>Mills</u> AF
<u>Individual Plant</u>	Mar. 1994	31,996	24,619	29,049	13,647	2,756
	Feb. 1994	29,001	13,537	26,998	7,203	2,297
	Mar. 1993	31,835	8,338	21,237	13,525	2,936
		<u>Avg.</u> <u>Rate</u> cfs	<u>Ann.</u> <u>Diff.</u> %	<u>Treated</u> AF		<u>Total Fiscal</u> <u>Year to Date</u> AF
<u>Total all Plants</u>	Mar. 1994	1,660	+31	102,067		1,025,801
	Feb. 1994	1,423	+24	79,036		923,734
	Mar. 1993	1,267	+14	77,871		905,549

RESERVOIR STORAGE

	<u>Usable</u> <u>Storage</u> %	<u>Mar.</u> <u>1994</u> AF	<u>Feb.</u> <u>1994</u> AF	<u>Mar.</u> <u>1993</u> AF	<u>Annual</u> <u>Difference</u> AF
<u>Distribution</u>					
Lake Mathews	77	140,963	129,730	151,512	(10,549)
Lake Skinner	87	38,315	33,823	33,428	4,887
<u>Colorado River Basin</u>					
Upper Basin	75	23,456,000	23,444,000	18,644,000	4,812,000
Lower Basin	82	23,533,000	23,813,000	24,244,000	(711,000)

(See Table E for details.)

State Water Project

Oroville	74	2,597,424	2,459,257	2,906,241	(308,817)
San Luis (State)	98	1,049,165	1,065,878	975,901	73,264
Pyramid	96	160,041	158,024	160,142	(101)
Castaic	91	276,391	257,034	301,522	(25,131)
Silverwood	73	51,564	62,133	68,450	(16,886)
Perris	88	111,545	113,699	121,049	(9,504)

Central Valley Project

Clair Engle	83	2,021,180	1,951,880	1,261,080	760,100
Shasta	76	3,379,710	3,182,710	3,675,710	(296,000)
Folsom	41	409,500	377,400	622,800	(213,300)
New Melones	31	742,100	792,000	511,000	231,100
San Luis (federal)	98	948,244	965,125	828,836	119,408

FINANCE INVESTMENT PORTFOLIO (FACE VALUE AT MATURITY)

<u>Securities</u>	<u>03-31-94 Balance</u>	<u>Percent</u>
U.S. Treasury Obligations	\$ 338,890,000	33.7
U.S. Guarantees - GNMA's	3,461,000	.3
Federal Agency Obligations	152,738,000	15.2
Repurchase Agreements	132,320,000	13.1
Bankers Acceptances	14,462,000	1.4
Commercial Paper	119,663,000	11.9
Negotiable Certificates of Deposit	42,081,000	4.2
Local Agency Investment Fund	203,000,000	20.2
California G.O. Bond (SWP)	35,000	—
Cash and Equivalents:		
MWD Federal Credit Union	100,000	—
Demand Accounts	\$ 939,000	
Petty Cash and Draft Account	75,000	
Overnight Investments	<u>(\$1,028,000)</u>	—
TOTAL	<u>\$ 1,006,736,000</u>	<u>100.0</u>

Yield Comparisons (Percent)

	<u>02-28-94</u>	<u>03-31-94</u>
	<u>(12-Month Moving Average)</u>	
1-Year Treasury Bill	3.8	4.4
1-Year Time Deposit	3.5	3.9
6-Month Treasury Bill	3.6	3.9
6-Month Time Deposit	3.2	3.6
Portfolio Yield (Range)	4.1	4.1 (3.1% to 10.0%)

(See Table F for financial summary.)

CONSTRUCTION PROGRESS FOR MARCH 1994

Construction field inspection, contract administration, and technical support work continued throughout the month in conjunction with nine construction contracts having a contract value in excess of \$186 million. Contract earnings under these contracts were approximately \$4,419,325 during the month. Status of these contracts at the end of the month follows:

	<u>Percent Completed</u>	<u>Estimated Completion</u>
Electrolysis Monitoring Stations at Metro Blue Line Crossings	0	May 1994
Lake Skinner Outlet Tower and Bypass Lines Chlorination Project	93	May 1994
Field Office at Domenigoni Valley Reservoir Site	35	August 1994
Joseph Jensen Filtration Plant Expansion No. 1	89	December 1994
Henry J. Mills Filtration Plant Expansion No. 2	7	August 1996

One construction contract was awarded during the month. This contract, in the amount of \$1,230,000, was awarded by the Board of Directors to Pascal and Ludwig Engineers for relocation of a portion of the Calabasas Feeder. Three construction contracts were completed during the month. These include (1) installation of a cathodic protection system for East Orange County Feeder No. 2, which was completed by Harco Technologies Corporation, (2) relocation of the San Diego Canal, which was completed by Kasler Corporation, and (3) seismic modifications for the La Verne maintenance shop building, which were completed by Ed Layton Construction Company.

MARCH RAINFALL AT LOS ANGELES CIVIC CENTER (INCHES)

During the Month	1.86
Total for Season (Fiscal Year)	4.11
Normal for Season to Date	13.42
Difference from Normal	-9.31
Percent of Normal	31

MARCH TEMPERATURES AT LOS ANGELES CIVIC CENTER (DEGREES F)

Average Maximum	73.7
Average Minimum	55.7
Average	64.7
30-Year Normal	59.5

EMPLOYMENTRegular Employees by Division/Department

	<u>Mar. 1993</u>	<u>Mar. 1994</u>	<u>Difference</u>
Engineering	391	415	+ 24
Operations	962	957	- 5
Other Divisions and Departments	<u>724</u>	<u>717</u>	<u>- 7</u>
<u>Total Regular Employees</u>	2,077	2,089	+ 12
<u>Full-Time Equivalent (FTE)--</u>			
<u>Temporary Employees*</u>	113	94	- 19
<u>Total Sunset Employees</u>	216	77	-139
<u>Total California Plaza Employees</u>	597	763	+166
<u>Total Pasadena Employees</u>	59	36	- 23
<u>Minority Applicants</u>	582	396	-186
<u>Minority New Hires</u>	5	7	+ 2
<u>Non-Minority Applicants</u>	674	270	-404
<u>Non-Minority New Hires</u>	10	6	- 4

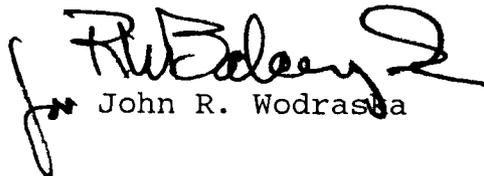
* Full-Time Equivalent Positions (approximate)--based on hours worked by temporary employees.

SACRAMENTO VALLEY FOUR BASIN INDEX*

The March 1, 1994 DWR forecast of the Four Basin Index is 8.5 million acre-feet, assuming median conditions for the remainder of the water year. This classifies the water year as Critical** 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. Preliminary forecasts are made by DWR December through April.

** Previous year conditions impact the current year classifications.


for John R. Wodraska

PCA:jj/aj
(brd:opapr-94.02084)

Attachments

METROPOLITAN WATER DISTRICT OF SO. CAL.
 Billing Activity Report for the Month of March 1994
 TABLE A

AGENCY	BASIC SERVICE	AGRIC	SPREADING	(NOTE 1) INJECTION	--- SEASONAL STORAGE (NOTE 2) --- RESERVOIR	IN-LIEU	SPREADING	RECLAIMED	(NOTE 3) SPECIALS (\$)	DOLLAR AMOUNT
CITY OF ANAHEIM	186.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	-104,718.00	32,145.50-
CITY OF BURBANK	1209.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	465,657.50
BEVERLY HILLS	1016.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	391,429.50
CITY OF COMPTON	452.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	174,135.50
CALLEGUAS MWD	6635.4	99.6	0.0	0.0	35.6	0.0	0.0	0.0	0.00	2,601,981.80
CHINO BASIN MWD	-4558.6	0.0	0.0	0.0	0.0	3206.1	-869.0	0.0	0.00	963,518.00-
CENTRAL BASIN MWD	4027.7	0.0	0.0	293.5	0.0	3339.6	0.0	83.1	0.00	2,495,783.40
COASTAL MWD	4845.5	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.00	1,864,932.30
EASTERN MWD	2651.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1,046,609.10
CITY OF FULLERTON	168.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	65,065.00
FOOTHILL MWD	471.1	0.0	0.0	0.0	0.0	282.4	0.0	26.0	0.00	248,816.70
CITY OF GLENDALE	2046.2	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.00	787,725.40
CITY OF LOS ANGELES	17472.9	0.0	0.0	0.0	0.0	10145.9	0.0	28.7	0.00	9,007,555.30
CITY OF LONG BEACH	3727.2	0.0	0.0	0.0	0.0	1012.2	0.0	29.0	0.00	1,686,592.60
LAS VIRGENES MWD	916.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	352,775.50
ORANGE COUNTY MWD	7889.7	143.3	0.0	0.0	0.0	3535.8	6662.4	812.6	0.00	5,217,778.00
CITY OF PASADENA	-1085.5	0.0	0.0	0.0	0.0	2634.3	0.0	0.0	0.00	248,560.40
THREE VALLEYS MWD	2543.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.00	898,056.80
CITY OF SANTA ANA	824.7	0.0	0.0	0.0	0.0	887.4	0.0	9.2	0.00	540,604.90
SAN DIEGO CWA	24576.5	0.0	0.0	0.0	2079.3	0.0	0.0	87.2	0.00	9,052,164.10
CITY OF SAN FERNANDO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
CITY OF SANTA MONICA	271.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	104,489.00
CITY OF SAN MARINO	124.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	47,855.50
CITY OF TORRANCE	1620.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	624,008.00
SAN GABRIEL VALLEY	588.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	226,611.00
WEST BASIN MWD	9867.3	0.0	0.0	1919.7	0.0	1885.4	0.0	0.0	-31,300.00	4,983,701.20
WESTERN MWD	1867.0	136.9	0.0	0.0	0.0	0.0	0.0	0.0	-108,273.60	601,212.70
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.00	250.00
TOTALS :	90357.7	388.7	0.0	2213.2	2114.9	26929.1	5793.4	1080.0	-244,041.60	

GRAND TOTAL SALES: 128,877.0 ACRE FEET

TOTAL NET INVOICE \$ 42,738,687.70

NOTE 1: INJECTION INCLUDES SEA WATER BARRIER AND GROUND WATER REPLENISHMENT BY INJECTION.

NOTE 2: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY BE FOR A PAST MONTH BECAUSE MUCH OF THE WATER IS CERTIFIED FOR UP TO FOUR MONTHS AFTER DELIVERY.

NOTE 3: SPECIALS REPRESENT MONETARY DEBITS AND CREDITS FOR CONSERVATION, I.I.C.P., ETC.

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METROPOLITAN WATER DISTRICT OF SO. CAL.
 Year to date Water sales in A.F. to Month of March 1994
 TABLE A YEAR TO DATE

AGENCY	BASIC SERVICE	AGRIC	SPREADING	(NOTE 1) INJECTION	--- SEASONAL STORAGE (NOTE 2) --- RESERVOIR	IN-LIEU	SPREADING	RECLAIMED	(NOTE 3) SPECIALS (\$)	DOLLAR AMOUNT
CITY OF ANAHEIM	6807.8	119.3	0.0	0.0	0.0	5318.1	0.0	0.0	-104,718.00	2,616,462.30
CITY OF BURBANK	14326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-350,619.50	5,164,890.50
BEVERLY HILLS	9687.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	3,729,495.00
CITY OF COMPTON	3129.0	0.0	0.0	0.0	0.0	818.2	0.0	0.0	0.00	1,411,669.60
CALLEGUAS MWD	62491.1	2576.5	0.0	0.0	2016.6	11.4	52.8	0.0	-76,033.68	24,226,655.22
CHINO BASIN MWD	13503.3	0.0	0.0	0.0	0.0	23150.2	1267.9	0.0	0.00	9,435,690.20
CENTRAL BASIN MWD	39074.6	0.0	0.0	3306.6	0.0	30695.2	4853.5	1305.7	-61,672.00	24,880,921.50
COASTAL MWD	49579.3	0.0	0.0	0.0	0.0	0.0	0.0	306.1	0.00	19,040,891.10
EASTERN MWD	40167.3	0.0	0.0	0.0	0.0	0.0	0.0	844.6	-35,189.00	15,562,014.80
CITY OF FULLERTON	2091.5	20.7	0.0	0.0	0.0	3432.4	0.0	0.0	0.00	1,726,215.40
FOOTHILL MWD	5179.7	0.0	0.0	0.0	0.0	1581.6	0.0	439.8	-1,966.00	2,324,634.10
CITY OF GLENDALE	20194.4	0.0	0.0	0.0	0.0	0.0	0.0	242.6	-66,256.00	7,671,227.60
CITY OF LOS ANGELES	127977.8	0.0	0.0	0.0	760.0	109135.1	0.0	576.0	0.00	69,461,526.70
CITY OF LONG BEACH	28253.6	0.0	0.0	0.0	0.0	18517.0	0.0	702.6	0.00	15,482,914.60
LAS VIRGENES MWD	12776.4	0.0	0.0	0.0	27.2	0.0	0.0	383.4	0.00	4,867,105.60
ORANGE COUNTY MWD	103480.9	1553.9	0.0	0.0	0.0	25296.2	29000.7	8861.9	-83,468.00	51,074,379.60
CITY OF PASADENA	5040.9	0.0	0.0	0.0	54.0	10884.3	-54.0	0.0	-15,995.00	4,678,479.40
THREE VALLEYS MWD	42728.8	73.7	0.0	0.0	0.0	2404.2	0.0	192.7	-49,980.00	16,145,118.60
CITY OF SANTA ANA	6562.1	0.0	0.0	0.0	0.0	10213.8	0.0	57.0	0.00	5,132,533.20
SAN DIEGO CWA	259334.7	0.0	0.0	0.0	28331.1	0.0	0.0	1743.3	-3,289,189.41	94,914,642.29
CITY OF SAN FERNANDO	118.5	0.0	0.0	0.0	0.0	680.0	0.0	0.0	0.00	219,585.20
CITY OF SANTA MONICA	3239.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1,247,284.50
CITY OF SAN MARINO	1289.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	496,611.50
CITY OF TORRANCE	15244.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	5,868,592.80
SAN GABRIEL VALLEY	5710.3	0.0	0.0	0.0	0.0	0.0	4082.0	0.0	0.00	3,047,521.50
WEST BASIN MWD	93118.6	0.0	0.0	19607.5	0.0	21044.8	0.0	0.0	-298,891.00	48,460,402.30
WESTERN MWD	11726.9	14504.7	0.0	0.0	0.0	2612.2	0.0	0.0	-829,317.32	8,974,180.68
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,250.00	2,250.00
TOTALS :	982834.9	18848.8	0.0	22914.1	31188.9	265794.7	39202.9	15655.7	-5,261,044.91	

GRAND TOTAL SALES: 1,376,440.0 ACRE FEET

TOTAL NET INVOICE \$ 447,863,895.79

NOTE 1: INJECTION INCLUDES SEA WATER BARRIER AND GROUND WATER REPLENISHMENT BY INJECTION.

NOTE 2: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED FOR UP TO FOUR MONTHS AFTER DELIVERY.

NOTE 3: 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 MARCH 1994
 TABLE B

AGENCY	---BASIC---TREATED(NOTE)-----				AF AMOUNT	---BASIC---UNTREATED(NOTE)-----				RECLAIMED	TOTAL AF AMOUNT	
	SERVICE	AGRIC	SEASONAL	GWR		SERVICE	AGRIC	SEASONAL	GWR			
CITY OF ANAHEIM	186.8	1.7	0.0	0.0	188.5	0.0	0.0	0.0	0.0	0.0	0.0	188.5
CITY OF BURBANK	1209.5	0.0	0.0	0.0	1209.5	0.0	0.0	0.0	0.0	0.0	0.0	1209.5
BEVERLY HILLS	1016.7	0.0	0.0	0.0	1016.7	0.0	0.0	0.0	0.0	0.0	0.0	1016.7
CITY OF COMPTON	452.3	0.0	0.0	0.0	452.3	0.0	0.0	0.0	0.0	0.0	0.0	452.3
CALLEGUAS MWD	6635.4	99.6	35.6	0.0	6770.6	0.0	0.0	0.0	0.0	0.0	0.0	6770.6
CHINO BASIN MWD	0.0	0.0	0.0	0.0	0.0	-4558.6	0.0	2337.1	0.0	-2221.5	0.0	-2221.5
CENTRAL BASIN MWD	4027.7	0.0	3339.6	293.5	7660.8	0.0	0.0	0.0	0.0	0.0	83.1	7743.9
COASTAL MWD	4845.5	0.0	0.0	0.0	4845.5	0.0	0.0	0.0	0.0	0.0	3.8	4849.3
EASTERN MWD	3036.3	0.0	0.0	0.0	3036.3	-384.8	0.0	0.0	0.0	-384.8	0.0	2651.5
CITY OF FULLERTON	168.9	0.1	0.0	0.0	169.0	0.0	0.0	0.0	0.0	0.0	0.0	169.0
FOOTHILL MWD	471.1	0.0	282.4	0.0	753.5	0.0	0.0	0.0	0.0	0.0	26.0	779.5
CITY OF GLENDALE	2046.2	0.0	0.0	0.0	2046.2	0.0	0.0	0.0	0.0	0.0	0.4	2046.6
CITY OF LOS ANGELES	15876.1	0.0	6256.6	0.0	22132.7	1596.8	0.0	3889.3	0.0	5486.1	28.7	27647.5
CITY OF LONG BEACH	3727.2	0.0	1012.2	0.0	4739.4	0.0	0.0	0.0	0.0	0.0	29.0	4768.4
LAS VIRGENES MWD	916.3	0.0	0.0	0.0	916.3	0.0	0.0	0.0	0.0	0.0	0.0	916.3
ORANGE COUNTY MWD	7570.6	12.8	3535.8	0.0	11119.2	319.1	130.5	6662.4	0.0	7112.0	812.6	19043.8
CITY OF PASADENA	-1085.5	0.0	2634.3	0.0	1548.8	0.0	0.0	0.0	0.0	0.0	0.0	1548.8
THREE VALLEYS MWD	1298.0	0.0	0.0	0.0	1298.0	1245.5	7.1	0.0	0.0	1252.6	0.0	2550.6
CITY OF SANTA ANA	824.7	0.0	887.4	0.0	1712.1	0.0	0.0	0.0	0.0	0.0	9.2	1721.3
SAN DIEGO CWA	12015.0	0.0	283.7	0.0	12298.7	12561.5	0.0	1795.6	0.0	14357.1	87.2	26743.0
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	271.4	0.0	0.0	0.0	271.4	0.0	0.0	0.0	0.0	0.0	0.0	271.4
CITY OF SAN MARINO	124.3	0.0	0.0	0.0	124.3	0.0	0.0	0.0	0.0	0.0	0.0	124.3
CITY OF TORRANCE	1620.8	0.0	0.0	0.0	1620.8	0.0	0.0	0.0	0.0	0.0	0.0	1620.8
SAN GABRIEL VALLEY	588.6	0.0	0.0	0.0	588.6	0.0	0.0	0.0	0.0	0.0	0.0	588.6
WEST BASIN MWD	9867.3	0.0	1885.4	1919.7	13672.4	0.0	0.0	0.0	0.0	0.0	0.0	13672.4
WESTERN MWD	1072.2	6.1	0.0	0.0	1078.3	794.8	130.8	0.0	0.0	925.6	0.0	2003.9
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL:	78783.4	120.3	20153.0	2213.2	101269.9	11574.3	268.4	14684.4	0.0	26527.1	1080.0	128877.0

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

METROPOLITAN WATER DISTRICT OF SO. CAL.
 Year to date Water sales in A.F. to Month of March 1994
 TABLE B YEAR TO DATE

AGENCY	BASIC SERVICE	AGRIC	SPREADING	INJECTION (NOTE 1)	SEASONAL STORAGE (NOTE 2) RESERVOIR	IN-LIEU	SPREADING	RECLAIMED	AGENCY TOTAL (A.F.)
CITY OF ANAHEIM	6807.8	119.3	0.0	0.0	0.0	5318.1	0.0	0.0	12,245.2
CITY OF BURBANK	14326.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,326.0
BEVERLY HILLS	9687.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,687.0
CITY OF COMPTON	3129.0	0.0	0.0	0.0	0.0	818.2	0.0	0.0	3,947.2
CALLEGUAS MWD	62491.1	2576.5	0.0	0.0	2016.6	11.4	52.8	0.0	67,148.4
CHINO BASIN MWD	13503.3	0.0	0.0	0.0	0.0	23150.2	1267.9	0.0	37,921.4
CENTRAL BASIN MWD	39074.6	0.0	0.0	3306.6	0.0	30695.2	4853.5	1305.7	79,235.6
COASTAL MWD	49579.3	0.0	0.0	0.0	0.0	0.0	0.0	306.1	49,885.4
EASTERN MWD	40167.3	0.0	0.0	0.0	0.0	0.0	0.0	844.6	41,011.9
CITY OF FULLERTON	2091.5	20.7	0.0	0.0	0.0	3432.4	0.0	0.0	5,544.6
FOOTHILL MWD	5179.7	0.0	0.0	0.0	0.0	1581.6	0.0	439.8	7,201.1
CITY OF GLENDALE	20194.4	0.0	0.0	0.0	0.0	0.0	0.0	242.6	20,437.0
CITY OF LOS ANGELES	127977.8	0.0	0.0	0.0	760.0	109135.1	0.0	576.0	238,448.9
CITY OF LONG BEACH	28253.6	0.0	0.0	0.0	0.0	18517.0	0.0	702.6	47,473.2
LAS VIRGENES MWD	12776.4	0.0	0.0	0.0	27.2	0.0	0.0	383.4	13,187.0
ORANGE COUNTY MWD	103480.9	1553.9	0.0	0.0	0.0	25296.2	29000.7	8861.9	168,193.6
CITY OF PASADENA	5040.9	0.0	0.0	0.0	54.0	10884.3	-54.0	0.0	15,925.2
THREE VALLEYS MWD	42728.8	73.7	0.0	0.0	0.0	2404.2	0.0	192.7	45,399.4
CITY OF SANTA ANA	6562.1	0.0	0.0	0.0	0.0	10213.8	0.0	57.0	16,832.9
SAN DIEGO CWA	259334.7	0.0	0.0	0.0	28331.1	0.0	0.0	1743.3	289,409.1
CITY OF SAN FERNANDO	118.5	0.0	0.0	0.0	0.0	680.0	0.0	0.0	798.5
CITY OF SANTA MONICA	3239.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,239.7
CITY OF SAN MARINO	1289.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,289.9
CITY OF TORRANCE	15244.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,244.8
SAN GABRIEL VALLEY	5710.3	0.0	0.0	0.0	0.0	0.0	4082.0	0.0	9,792.3
WEST BASIN MWD	93118.6	0.0	0.0	19607.5	0.0	21044.8	0.0	0.0	133,770.9
WESTERN MWD	11726.9	14504.7	0.0	0.0	0.0	2612.2	0.0	0.0	28,843.8
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS :	982834.9	18848.8	0.0	22914.1	31188.9	265794.7	39202.9	15655.7	

GRAND TOTAL SALES (A.F.) 1,376,440.0

NOTE 1: INJECTION INCLUDES SEA WATER BARRIER AND GROUND WATER REPLENISHMENT BY INJECTION.

NOTE 2: AGRICULTURAL, ADJUSTMENTS AND RECLASSIFICATIONS BY SEASONAL STORAGE (SSS) BILLING MAY LAG ACTUAL DELIVERIES BECAUSE MUCH OF THE WATER IS CERTIFIED FOR UP TO FOUR MONTHS AFTER DELIVERY.

NOTE 3: 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 MARCH 1994
 TABLE C

AGENCY	---BASIC---TREATED------(NOTE 1)-				DOLLAR AMOUNT	--BASIC---UNTREATED------(NOTE 1)-				DOLLAR AMOUNT RECLAIMED	(NOTE 2) SPECIAL	TOT DOLLAR (\$) AMOUNT	
	SERVICE	AGRIC	SEASONAL	GWR		SERVICE	AGRIC	SEASONAL	GWR				
CITY OF ANAHEIM	71918	654	0	0	72572	0	0	0	0	0	-104718	-32145	
CITY OF BURBANK	465657	0	0	0	465657	0	0	0	0	0	0	465657	
BEVERLY HILLS	391429	0	0	0	391429	0	0	0	0	0	0	391429	
CITY OF COMPTON	174135	0	0	0	174135	0	0	0	0	0	0	174135	
CALLEGUAS MWD	2554629	38346	9006	0	2601981	0	0	0	0	0	0	2601981	
CHINO BASIN MWD	0	0	0	0	0	-1449634	0	486116	0	-963518	0	-963518	
CENTRAL BASIN MWD	1550664	0	844918	112997	2508580	0	0	0	0	0	-12797	2495783	
COASTAL MWD	1865517	0	0	0	1865517	0	0	0	0	0	-585	1864932	
EASTERN MWD	1168975	0	0	0	1168975	-122366	0	0	0	-122366	0	1046609	
CITY OF FULLERTON	65026	38	0	0	65065	0	0	0	0	0	0	65065	
FOOTHILL MWD	181373	0	71447	0	252820	0	0	0	0	0	-4004	248816	
CITY OF GLENDALE	787787	0	0	0	787787	0	0	0	0	0	-61	787725	
CITY OF LOS ANGELES	6112298	0	1582919	0	7695218	507782	0	808974	0	1316756	-4419	9007555	
CITY OF LONG BEACH	1434972	0	256086	0	1691058	0	0	0	0	0	-4466	1686592	
LAS VIRGENES MWD	352775	0	0	0	352775	0	0	0	0	0	0	352775	
ORANGE COUNTY MWD	2914681	4928	894557	0	3814166	101473	41499	1385779	0	1528752	-125140	5217778	
CITY OF PASADENA	-417917	0	666477	0	248560	0	0	0	0	0	0	248560	
THREE VALLEYS MWD	499730	0	0	0	499730	396069	2257	0	0	398326	0	898056	
CITY OF SANTA ANA	317509	0	224512	0	542021	0	0	0	0	0	-1416	540604	
SAN DIEGO CWA	4625775	0	71776	0	4697551	3994557	0	373484	0	4368041	-13428	9052164	
CITY OF SAN FERNANDO	0	0	0	0	0	0	0	0	0	0	0	0	
CITY OF SANTA MONICA	104489	0	0	0	104489	0	0	0	0	0	0	104489	
CITY OF SAN MARINO	47855	0	0	0	47855	0	0	0	0	0	0	47855	
CITY OF TORRANCE	624008	0	0	0	624008	0	0	0	0	0	0	624008	
SAN GABRIEL VALLEY	226611	0	0	0	226611	0	0	0	0	0	0	226611	
WEST BASIN MWD	3798910	0	477006	739084	5015001	0	0	0	0	0	-31300	4983701	
WESTERN MWD	412797	2348	0	0	415145	252746	41594	0	0	294340	-108273	601212	
SPC CONT	0	0	0	0	0	0	0	0	0	0	250	250	
TOTAL:	30331609	46315	5098709	852082	\$36328715	3680627	85351	3054355	0	\$6820333	-166320	-244041	\$42738687

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--FEBRUARY 1994

CONSTITUENTS	SYMBOLS AND UNITS	SOURCE WATERS							FILTRATION PLANT EFFLUENTS*					
		LAKE HAVASU NEAR WHITSETT INTAKE	SAN JACINTO TUNNEL WEST PORTAL	LAKE MATH- EWS	CASTAIC LAKE*	SILVER- WOOD LAKE	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		2/1/94	2/1/94	2/1/94	Feb-94	2/1/94	2/1/94	Feb-94	Feb-94	Feb-94	Feb-94	Feb-94	Feb-94	Feb-94
SILICA	SiO ₂ mg/L	8.4	9.3	9.5	15.0	16.1	2.3	8.3	9.1	9.3	14.8	8.0	7.8	5.9
CALCIUM	Ca mg/L	82	82	81	33	19	27	82	65	66	34	80	77	21
MAGNESIUM	Mg mg/L	32	32	32.5	18.5	10.5	19	31.5	30	32	18.5	31	33	17
SODIUM	Na mg/L	105	105	106	65	39	86	113	103	114	63	111	107	85
POTASSIUM	K mg/L	4.7	4.7	4.8	4.1	2.3	4.5	6.3	5.9	6.3	4.0	6.2	6.1	5.2
CARBONATE	CO ₃ mg/L	0	0	1	0	0	0	2	0	0	0	0	0	1
BICARBONATE	HCO ₃ mg/L	163	162	159	115	87	129	155	148	156	117	155	156	120
SULFATE	SO ₄ mg/L	292	290	291	116	33	59	275	269	286	115	281	285	53
CHLORIDE	Cl mg/L	94	94	95	62	50	122	96	87	93	62	96	89	111
NITRATE	NO ₃ mg/L	1.40	1.56	1.08	2.15	2.41	0.19	0.82	1.07	1.10	2.15	0.88	1.00	0.24
FLUORIDE	F mg/L	0.36	0.35	0.34	0.32	0.12	0.20	0.38	0.12	0.42	0.31	0.38	0.35	0.19
BORON	B mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DISSOLVED SOLIDS	TDS mg/L	701	700	702	374	216	385	693	644	686	372	692	684	360
TOTAL HARDNESS AS CaCO ₃	mg/L	337	337	336	159	91	146	334	286	297	161	327	328	122
TOTAL ALKALINITY AS CaCO ₃	mg/L	134	133	132	94	71	106	131	121	128	96	127	128	100
FREE CARBON DIOXIDE	CO ₂ mg/L	1.4	1.3	1.2	1.9	1.4	1.3	1.2	2.3	2.3	1.3	3.2	3.5	0.8
H ⁺ CONCENTRATION	pH	8.28	8.31	8.35	8.00	8.00	8.22	8.34	8.02	8.06	8.16	7.90	7.87	8.40
SPECIFIC CONDUCTANCE	µmho/cm	1113	1113	1115	581	381	723	1100	1020	1090	594	1120	1100	672
COLOR	CU	-	-	-	-	-	-	-	2	1	1	1	-	1
FILTER EFFLUENT TURBIDITY	NTU	-	-	-	-	-	-	-	0.08	0.07	0.08	0.08	-	0.07
TURBIDITY	NTU	2.5	0.61	0.96	1.2	0.80	0.35	2.0	0.06	0.07	0.08	0.08	0.08	0.08
TEMPERATURE	°C	10	12	12	12	12	12	12	12	13	12	12	12	12
BROMIDE	Br mg/L	0.10	0.10	0.12	0.21	0.16	0.42	0.10	-	-	-	-	-	-
TOTAL ORGANIC CARBON	TOC mg/L	-	2.79	2.58	2.64	2.46	3.90	2.50	2.32	2.39	2.54	2.43	-	2.83
TOTAL TRIHALOMETHANES	TTHMs µg/L	-	-	-	-	-	-	-	28	33	80	31	29	54
PCT. STATE PROJECT WATER	%SPW %	0	0	0	100	100	100	0	10	1	100	0	0	100

* The general mineral analyses for filtration plant effluents, Castaic Lake, and Lake Skinner were performed by a contract laboratory.

** Treatment plant out of service February 7-28, 1994.

*** Lake Perris water was used during the month of February.

TABLE E. GENERAL MANAGER'S MONTHLY REPORT

Mar 1994

Storage in Colorado River Basin Reservoirs at End of Month

Reservoir	(1,000 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 Mar 1993
<i>Upper Basin</i>					
Fontenelle	129	37	0	3	20
Flaming Gorge	3,258	87	3,025	11	190
Blue Mesa	567	68	486	5	104
Morrow Point	110	94	35	(2)	(4)
Crystal	17	97	6	3	0
Navajo	1,590	94	---	59	130
Powell	17,785	73	13,788	(67)	4,372
Subtotal	23,456	75	17,340	12	4,812
<i>Lower Basin</i>					
Mead	21,291	81	11,267	(341)	(690)
Mohave	1,665	92	1,448	22	(26)
Havasu	577	93	138	39	5
Subtotal	23,533	82	12,853	(280)	(711)
Basin Total	46,989	79	30,193	(268)	4,101

* Numbers within () are negative numbers.

T A B L E F
 FINANCIAL SUMMARY
 FISCAL YEAR 1993-94
 CASH BASIS
 (\$ in Millions)

	ACTUAL THRU MARCH 1994	BUDGET THRU MARCH 1994	VARIANCE DOLLARS + / (-)	PROJECTED YEAR END	ANNUAL BUDGET	VARIANCE DOLLARS + / (-)
<u>RECEIPTS</u>						
WATER SALES	\$480.7	\$471.2	\$9.5	\$605.6	\$588.2	\$17.4
POWER RECOVERIES	10.8	14.7	(3.9)	15.1	19.0	(3.9)
TAXES	52.7	57.4	(4.7)	84.2	90.0	(5.8)
INTEREST	18.5	17.8	0.7	21.1	20.0	1.1
WATER STANDBY CHARGES	28.3	28.1	0.2	50.0	50.0	0.0
OTHER RECEIPTS	8.7	0.6	8.1	8.9	0.8	8.1
TOTAL RECEIPTS	<u>\$599.7</u>	<u>\$589.8</u>	<u>\$9.9</u>	<u>\$784.9</u>	<u>\$768.0</u>	<u>\$16.9</u>
<u>EXPENDITURES</u>						
STATE WATER CONTRACT	\$207.5	\$287.5	\$80.0	\$242.5	\$312.9	\$70.4
WATER TRANSFERS/OPTIONS	0.5	9.0	8.5	1.1	12.0	10.9
COLORADO RIV. SUPPLIES	46.0	74.3	28.3	65.6	87.7	22.1
MWD CAPITAL PROGRAM	124.9	142.2	17.3	167.9	172.1	4.2
MWD O&M	165.6	163.3	(2.3)	219.8	219.8	0.0
TOTAL EXPENDITURES	<u>\$544.5</u>	<u>\$676.3</u>	<u>\$131.8</u>	<u>\$696.9</u>	<u>\$804.5</u>	<u>\$107.6</u>
INCREASE (DECREASE) in CASH and INVESTMENTS	<u>\$55.2</u>	<u>(\$86.5)</u>	<u>\$141.7</u>	<u>\$88.0</u>	<u>(\$36.5)</u>	<u>\$124.5</u>

Minor differences are due to rounding.

ACRE-FOOT SALES IN THOUSANDS

	ACTUAL	BUDGETED	DIFFERENCE
CUMULATIVE MAY TO JANUARY	1,482.1	1,447.3	34.8
FEBRUARY DELIVERIES	100.5	102.2	(1.7)
MARCH DELIVERIES	128.9	99.4	29.5

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The Metropolitan Water District of Southern California

**MONTHLY PROGRESS REPORT
OF CONSTRUCTION AND PROCUREMENT CONTRACTS**

March 1994

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
Number of Contracts	9	1
Total Bid Amount of Contracts in Progress	\$ 185,984,759	\$ 6,670,000
Number of Contracts Awarded this Month	1	0
Total Bid Amount of Contracts Awarded this Month	1,230,000	0
Contract Gross Earnings this Month	4,419,325	0

There was one contract awarded by the Board of Directors during the month of March. Contract No. 1422 covering the Calabasas Feeder Relocation, in the amount of \$1,230,000, was awarded to Pascal & Ludwig Engineers.

Three construction contracts were completed during the month of March. Contract No. 1415 covering installation of Cathodic Protection System for East Orange County Feeder No. 2 was completed by the prime contractor, Harco Technologies Corporation, and accepted by District forces on March 3, 1994. Contract No. 1414 covering the San Diego Canal Relocation was completed by Kasler Corporation, the prime contractor, and accepted by District personnel on March 18, 1994. Contract No. 1417, covering Seismic Modifications of La Verne Maintenance Shop Buildings was completed by Ed Layton Construction Company, Inc., and accepted by District forces on March 22, 1994.

A tabular summary of current construction contracts is included as page 3 of this report. Details of the status of current construction contracts are shown on pages 6 through 14 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 4 of this report.

There were no procurement contracts awarded during the month of March 1994.

Delivery of required nine hydrofoil flocculators for Jensen Plant Expansion No. 1 under Contract No. 1403 with Chemineer, Inc., has been completed and accepted by the District.

A tabular summary of procurement contracts is included on page 5 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	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete	Percent Contract Time Elapsed
1393	1200	Joseph Jensen Filtration Plant Expansion No. 1	Hyman/JWP West, A Joint Venture	101,986,000	2,324,905	93,996,951	9/05/91	10/17/94	12/94	89	80
1418	1238 A	Henry J. Mills Filtration Plant Expansion No. 2	M. A. Mortenson Company	69,943,000	1,343,771	4,977,236	10/07/93	08/30/96	08/96	7	15
1416	1262	Lake Skinner Outlet Tower and Bypass Lines Chlorination Project	Pro Contracting Corp.	1,062,200	165,730	991,839	10/06/93	06/14/94	05/94	93	65
1420	1267	Electrolysis Monitoring Stations at Metro Blue Lines Crossings	American Construction and Supply	41,814	0	0	01/05/94	05/10/94	05/94	0	62
1421	1264	Field Office at Domenigoni Valley Reservoir Site	Inland Asphalt and Coating and Space Leasing Co., Inc., a Joint Venture	1,232,351	90,298	428,998	01/06/94	08/19/94	08/94	35	29
1422	1271	Calabasas Feeder Relocation	Pascal & Ludwig Engineers	1,230,000	-	-	-	-	-	-	-

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
1415	1258	Cathodic Protection System for East Orange County Feeder No. 2	Harco Technologies Corporation	\$375,925	\$390,000	03-03-94	03-09-94	04-13-94
1414	1247	San Diego Canal Relocation	Kasler Corporation	\$9,872,635	\$9,950,000	03-18-94	03-24-94	04-28-94
1417	1221A	Seismic Modifications La Verne Maintenance Shop Building	Ed Layton Construction Company, Inc.	\$240,834	\$240,834	03-22-94	03-29-94	05-03-94

SUMMARY OF CONSTRUCTION CONTRACTS WHICH HAVE BEEN COMPLETED BUT HAVE FINAL PAYMENTS PENDING

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due
1411	1192A	Maintenance Building and Operations Building Annex at Mills Plant	Tilden-Coil Constructors	\$2,569,690	2,752,866	12-13-93	12-16-93	01-20-94*

* Final Payment pending settlement of various outstanding claims and credits submitted by Prime Contractor and District.

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
1396	1207	Four Computer-Based Control Systems	JWP Controls	6,670,000	-	1,211,871	3/12/92	-	

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Joseph Jensen Filtration Plant--Expansion No. 1		
CONTRACTOR	Hyman/JWP West, A Joint Venture		
SPECIFICATIONS NO.	1200	BID	\$ 101,986,000
CONTRACT NO.	1393	EXTRA WORK TO DATE	700,107
CONTRACT STARTING DATE	September 5, 1991	EARNINGS THIS MONTH	2,324,905
CONTRACT COMPLETION DATE	October 17, 1994	EARNINGS TO DATE	93,996,951
ESTIMATED COMPLETION DATE	December 1994	ESTIMATED PERCENT COMPLETE	89
		PERCENT CONTRACT TIME ELAPSED	80

SCOPE OF WORK

Construction of 510-million-gallon-per-day expansion of the existing plant including influent and effluent pipelines, filter modules, flocculation basins, chemical mixing storage facilities, plant control units, washwater reclamation facilities, finished water reservoirs, and appurtenant work location at 13100 Balboa Boulevard, Granada Hills, California.

CONSTRUCTION PROGRESS

Repair of earthquake damage progressed throughout the jobsite as required. Concrete repairs continued in the filter modules and Finished Water Reservoir No. 2. Repair of damaged sealant continued in basins Modules No. 2. The contractor has been directed to proceed with repair work on the traveling bridges and with adjustments of the flocculators in Module No. 2.

Work required during shutdowns Nos. 2 and 4 was accomplished during the month. This work included tying in Module No. 3 to existing Module No. 1 and Effluent Conduit No. 1 and tying Finished Water Reservoir No. 2 to the Balboa Outlet Tunnel.

Erection of forms, installation of reinforcing steel, and placement of concrete were continued for various portions of Module No. 3, the dry polymer building, and the concrete pipeway.

Installation of piping, pipe supports, and pipe embeds continued in Module No. 3. Installation of the outlet gate was completed at Finished Water Reservoir No. 2 and installation of the inlet gate is now in progress. Testing of piping also continued as pipe installation processed.

Installation of electrical duct banks, conduit, pull boxes, embedded conduit, and ground wire continued in various locations throughout the jobsite as required.

Painting operations were continued at Washwater Tank No. 2. Coating miscellaneous metals, piping, handrails, traveling bridges, and mechanical equipment continued in Module No. 2.

Contractor personnel, including employees of subcontractors, averaged 160 persons during the month of March, 1994.

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Henry J. Mills Filtration Plant Expansion No. 2		
CONTRACTOR	M. A. Mortenson Company		
SPECIFICATIONS NO.	1238A	BID	\$ 69,943,000
CONTRACT NO.	1418	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 7, 1993	EARNINGS THIS MONTH	1,343,000
CONTRACT COMPLETION DATE	August 30, 1996	EARNINGS TO DATE	4,977,236
ESTIMATED COMPLETION DATE	August 1996	ESTIMATED PERCENT COMPLETE	7
		PERCENT CONTRACT TIME ELAPSED	15

SCOPE OF WORK

Construction of 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

Excavation operations were continued throughout the month for the influent conduit and Finished Water Reservoir No. 2.

Erection of forms, installation of reinforcing steel and embed items, and placement of concrete were in progress during the month for the used washwater storage channel within filter module No. 3, filter module No. 4, at the reclamation basins, and for miscellaneous structures as required.

Installation of the subdrain system continued throughout the month within module No. 2 and No. 3.

Installation of the 36-inch-diameter used washwater line was started at the reclamation basins during the month.

Contractor personnel, including employees of subcontractors, averaged 75 persons during the month of March 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Construction of the San Diego Canal Relocation		
CONTRACTOR	Kasler Corporation		
SPECIFICATIONS NO.	1247	BID	\$ 9,872,685
CONTRACT NO.	1414	EXTRA WORK TO DATE	24,350
CONTRACT STARTING DATE	March 22, 1993	EARNINGS THIS MONTH	456,357
CONTRACT COMPLETION DATE	February 22, 1994	EARNINGS TO DATE	9,897,035
ACTUAL COMPLETION DATE	March 18, 1994	ESTIMATED PERCENT COMPLETE	100
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Relocation of approximately 1.4 miles of existing San Diego Canal and construction of two siphons, a radial gate structure, and a turn-out structure and appurtenant work located at Newport Road, 2 miles east of Highway 79, Hemet, Riverside County, California.

CONSTRUCTION PROGRESS

All work required under the contract was completed by the contractor, Kasler Corporation, and accepted by District forces on March 18, 1994.

The Notice of Completion was recorded by the Riverside County Recorder on March 24, 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Lake Skinner Outlet Tower and Bypass Lines Chlorination Project		
CONTRACTOR	Pro Contracting Corporation		
SPECIFICATIONS NO.	1262	BID	\$ 1,062,200
CONTRACT NO.	1416	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 6, 1993	EARNINGS THIS MONTH	165,730
CONTRACT COMPLETION DATE	June 14, 1994	EARNINGS TO DATE	991,839
ESTIMATED COMPLETION DATE	May 1994	ESTIMATED PERCENT COMPLETE	93
		PERCENT CONTRACT TIME ELAPSED	65

SCOPE OF WORK

Construction of three small buildings, including installation of approximately 20,000 linear feet of 6-inch-diameter PVC chlorine lines, 10-inch-diameter water lines, and 8-inch-diameter double-wall fiberglass chlorine line; located at the Skinner Plant, 33740 Borel Road, Winchester, California.

CONSTRUCTION PROGRESS

Installation of required underground piping was continued throughout the month and is essentially complete. Backfill operations were also continued as pipe laying operations progressed and are now completed.

Electrical installations were continued at all three ejector buildings throughout the month and are nearing completion.

Placement of required asphalt concrete paving remains to be completed.

All work under the contract is scheduled for completion during mid-May.

Contractor personnel, including employee of subcontractors, averaged 14 persons during the month of March 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Cathodic Protection System for East Orange County Feeder No. 2		
CONTRACTOR	Harco Technologies Corporation		
SPECIFICATIONS NO.	1258	BID	\$ 375,925
CONTRACT NO.	1415	EXTRA WORK TO DATE	19,032
CONTRACT STARTING DATE	July 2, 1993	EARNINGS THIS MONTH	13,946
CONTRACT COMPLETION DATE	January 19, 1994	EARNINGS TO DATE	394,957
ACTUAL COMPLETION DATE	March 3, 1994	ESTIMATED PERCENT COMPLETE	100
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Installation of 11 deep well anode assemblies, including rectifiers and other appurtenances, along the East Orange County Feeder No. 2, located at various sites within the cities of Yorba Linda, Placentia, Anaheim, Tustin, Orange, Santa Ana, and Irvine--all in Orange County, California.

CONSTRUCTION PROGRESS

All work required under the contract was completed by the contractor, Harco Technologies Corporation, and accepted by District forces on March 3, 1994.

The Notice of Completion was recorded by the Orange County Recorder on March 9, 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Seismic Upgrading the La Verne Maintenance Shop Building		
CONTRACTOR	Ed Layton Construction Company, Inc.		
SPECIFICATIONS NO.	1221A	BID	\$ 240,834
CONTRACT NO.	1417	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	October 22, 1993	EARNINGS THIS MONTH	24,318
CONTRACT COMPLETION DATE	March 31, 1994	EARNINGS TO DATE	240,834
ACTUAL COMPLETION DATE	March 22, 1994	ESTIMATED PERCENT COMPLETE	100
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Add braces in the structural framing of the roof, add shear connections to walls and slabs, strengthen steel frames and pilasters and other support members for the seismic upgrading of the existing Maintenance Shop Building at the Weymouth filtration Plant, 700 North Moreno Avenue, La Verne, California.

CONSTRUCTION PROGRESS

All work required under the contract was completed by Ed Layton Construction Company, Inc., the prime contractor, and accepted by District personnel on March 22, 1994.

The Notice of Completion was recorded by the Los Angeles County Recorder on March 29, 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Electrolysis Monitoring Stations at Metro Blue Line Crossings		
CONTRACTOR	American Construction and Supply, Inc.		
SPECIFICATIONS NO.	1267	BID	\$ 41,814
CONTRACT NO.	1420	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	January 5, 1994	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	May 10, 1994	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	May 1994	ESTIMATED PERCENT COMPLETE	0
		PERCENT CONTRACT TIME ELAPSED	62

SCOPE OF WORK

Installation of six electrolysis monitoring stations and all appurtenances at these specified locations located along the Metro Blue Line located in the cities of Los Angeles and Compton.

CONSTRUCTION PROGRESS

No field work has been started to date under the contract.

The contractor has submitted a revised construction schedule for District review and approval.

Mobilization operations are presently scheduled to begin during early April 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Field Office at Domenigoni Valley Reservoir Site		
CONTRACTOR	Inland Asphalt and Coating, and Leasing Co., Inc., a Joint Venture		
SPECIFICATIONS NO.	1264	BID	\$1,232,351
CONTRACT NO.	1421	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	January 6, 1994	EARNINGS THIS MONTH	90,298
CONTRACT COMPLETION DATE	August 17, 1994	EARNINGS TO DATE	428,998
ESTIMATED COMPLETION DATE	August 1994	ESTIMATED PERCENT COMPLETE	35
		PERCENT CONTRACT TIME ELAPSED	29

SCOPE OF WORK

Design, fabrication, and installation of a factory manufactured modular field office, and pre-engineered metal storage building plus all site work, located at Newport Road, one mile east of Highway 79, Riverside County.

CONSTRUCTION PROGRESS

Concrete surface drains and rip-rap dissipators were placed during the month.

Application of hydromulch to the site slopes is now in progress.

Installation of required underground sewer and water piping, septic tank, lift station, and the drainage field was continued throughout the month and is essentially complete.

Review and approval of fabrication drawings, engineering design data, and catalog and specifications data sheets covering materials and standard products were continued by District personnel.

Contractor personnel, including employees of subcontractors, averaged five persons during the month of March 1994.

The Metropolitan Water District of Southern California

MONTHLY CONSTRUCTION PROGRESS REPORT

March 1994

CONSTRUCTION OF	Calabasas Feeder Relocation Station 471+86 to Station 482+89.23		
CONTRACTOR	Pascal & Ludwig Engineers		
SPECIFICATIONS NO.	1271	BID	\$1,230,000
CONTRACT NO.	1421	EXTRA WORK TO DATE	-
CONTRACT STARTING DATE	-	EARNINGS THIS MONTH	-
CONTRACT COMPLETION DATE	-	EARNINGS TO DATE	-
ESTIMATED COMPLETION DATE	-	ESTIMATED PERCENT COMPLETE	-
		PERCENT CONTRACT TIME ELAPSED	-

SCOPE OF WORK

Construction of approximately 1,140 feet of 59-inch-diameter-welded-steel pipeline including construction of manhole, air release, and pumping well structures, equipment, and appurtenance near the intersection of Valley Circle Boulevard and the Ventura Freeway in the San Fernando Valley of Los Angeles.

CONSTRUCTION PROGRESS

Contract No. 1422 was awarded to the prime contractor Pascal & Ludwig Engineers by the Board of Directors at their March 9, 1994 meeting.

(db:prog-rpt.apr-02074)