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METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

9-1(ii)

August 4, 1992

To: Board of Directors

From: General Manager

Subject: Operating Data for June 1992

The following tables contain June 1992 data on Metropolitan's water and power sales and purchases, treatment plant operations, reservoir storage, financial status, construction, and employment; and Los Angeles Civic Center rainfall and temperature readings.

WATER SALES

	<u>June 1992</u>	<u>May 1992</u>	<u>June 1991</u>	<u>Total Fiscal Year-to-Date</u>
	AF	AF	AF	AF
TOTAL WATER SALES	181,477	151,531	133,620	1,888,907
REVENUE	\$43,665,332	\$32,222,194	\$28,503,247	\$389,970,889
DOMESTIC & MUNICIPAL	167,378	135,353	96,659	1,121,957
INTERRUPTIBLE				
Agricultural	2,974	276	10,415	64,950
Spreading	1,687	1,779	3,010	13,241
Reservoir Storage	0	0	9,714	76,558
In-Lieu	0	0	11,300	102,393
Barrier Injection	920	2,808	1,585	29,957
SEASONAL STORAGE				
Spreading	0	1,289	0	236,644
Reservoir Storage	940	8,619	0	116,038
In-Lieu	5,897	262	30	114,253
RECLAIMED	1,681	1,135	907	12,917
TREATED	120,764	99,259	85,280	1,083,580
UNTREATED	59,032	51,137	47,433	792,411

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

METROPOLITAN'S STATE WATER PROJECT (SWP) CHARGES AND PAYMENTS--FISCAL YEAR 1991-92

The following table shows a comparison of totals from July 1, 1991, through June 30, 1992.

<u>Components*</u>	<u>SWP Statement of Charges to Date</u>	<u>1991-92 Annual Budget to Date</u>	<u>Amount Paid to Date</u>
Capital	\$ 118,605,780	\$ 111,829,000	\$ 118,425,880
Minimum	79,935,343	79,504,000	80,387,771
Power	<u>166,058,485</u>	<u>114,859,000</u>	<u>57,401,722</u>
Total	\$ 364,599,608	\$ 306,192,000	\$ 256,215,373

* 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 and the application of power credits.

POWER FOR PUMPING

The following quantities of electric energy were generated for Metropolitan's pumping system in June 1992:

<u>Colorado River Energy</u>	<u>kWh</u>
Hoover Power Plant	118,450,000
Parker Power Plant	23,880,000
Southern California Edison (SCE)	
Benefit Energy	18,909,855
SCE Exchange Energy	0
SCE Purchased Energy	17,035,000
California Department of Water	
Resources (DWR) Purchased Energy	0
Other Purchased Energy	31,589,000
Total Generated for Metropolitan	209,863,855
Colorado River Aqueduct (CRA)	
Power Available to DWR	0
CRA Power Available to SCE	0

HYDROELECTRIC POWER RECOVERY PLANTS--FISCAL YEAR 1991-92
ENERGY AND REVENUE ACCOUNT

June 1992

<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	700,800	3,480,000	\$ 30,631.97	\$ 149,648.01
Lake Mathews	3,402,000	37,704,000	148,701.42	1,625,479.02
Foothill Feeder	5,904,000	53,520,000	258,063.84	2,300,192.40
San Dimas	6,021,000	31,986,000	263,177.91	1,376,916.84
Yorba Linda	2,292,000	30,126,000	100,183.32	1,295,120.94
PHASES II-IV				
Sepulveda Canyon	4,368,000	31,752,000	237,897.72	1,400,927.79
Venice	2,763,000	20,358,000	148,137.10	885,247.83
Temescal	1,872,000	19,776,000	103,341.18	909,372.85
Corona	1,821,000	18,846,000	100,698.60	866,413.10
Perris	1,089,000	5,904,000	67,810.96	263,877.31
Rio Hondo	1,022,000	9,974,000	57,941.25	470,793.82
Coyote Creek	1,128,000	11,796,000	63,067.71	568,096.30
Red Mountain	3,186,000	14,208,000	177,000.69	610,399.95
Valley View	0	7,128,000	0.00	280,317.49
Totals	35,568,800	296,558,000	\$1,756,653.67	\$13,002,803.65

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/1 as CaCO ₃	June 1992	271	157	257	292	299	131
	May 1992	253	157	252	269	271	123
	June 1991	264	138	271	316	311	140
Total Dissolved Solids	June 1992	580	403	559	621	626	373
	May 1992	556	403	548	578	579	356
	June 1991	576	363	589	644	637	407

(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>	June 1992		26,863	36,186	25,232	27,468	5,959
	May 1992		25,462	19,934	25,163	23,798	4,880
	June 1991		32,165	9,134	26,769	15,293	4,468
			<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>	June 1992		2,046	+39	121,708	1,120,891	
	May 1992		1,614	+11	99,237	999,183	
	June 1991		1,476	-29	87,829	1,383,687	

RESERVOIRS

	<u>Usable</u> <u>Storage</u> %	<u>June</u> <u>1992</u> AF	<u>May</u> <u>1992</u> AF	<u>June</u> <u>1991</u> AF	<u>Annual</u> <u>Difference</u> AF
<u>Distribution</u>					
Lake Mathews	96	174,224	171,117	177,333	(3,109)
Lake Skinner	94	41,401	39,795	40,204	1,197

Colorado River Basin

Upper Basin	68	21,118,000	20,710,000	22,156,000	(1,038,000)
Lower Basin	76	21,695,000	22,061,000	21,639,000	56,000

(See Table E for details.)

State Water Project

Oroville	49	1,717,095	1,849,747	1,540,633	176,462
San Luis (State)	61	646,880	828,830	447,246	199,634
Pyramid	95	157,485	161,883	161,132	(3,647)
Castaic	95	288,838	293,587	255,492	33,346
Silverwood	92	65,346	67,791	65,871	(525)
Perris	89	113,989	115,263	118,300	(4,311)

Central Valley Project

Clair Engle	42	1,019,780	1,138,480	1,148,780	(129,000)
Shasta	52	2,295,310	2,483,110	1,712,910	582,400
Folsom	46	467,000	670,300	727,600	(260,600)
New Melones	10	232,100	797,100	402,000	(169,900)
San Luis (federal)	49	474,899	742,852	637,422	(162,523)

FINANCE INVESTMENT PORTFOLIO (FACE VALUE AT MATURITY)

<u>Securities</u>	<u>6-30-92 Balance</u>	<u>Percent</u>
U.S. Treasury Obligations	\$ 301,120,000	36.7
U.S. Guarantees - GNMA's	9,205,000	1.1
Federal Agency Obligations	110,650,000	13.5
Repurchase Agreements	160,490,000	19.6
Bankers Acceptances	51,750,000	6.3
Commercial Paper	130,250,000	15.9
Negotiable Certificates of Deposit	40,794,000	5.0
Local Agency Investment Fund	15,000,000	1.8
California G.O. Bond (SWP)	35,000	-
Cash and Equivalents:		
Metropolitan Federal Credit Union	100,000	-
Demand Accounts	\$ 1,002,000	
Petty Cash and Draft Account	74,000	
Overnight Investments	<u>(730,000)</u>	.1
TOTAL	<u>\$ 819,740,000</u>	<u>100.0</u>

Yield Comparisons (Percent)

	<u>05-31-92</u>	<u>06-30-92</u>	
1-Year Treasury Bill	4.8	4.7	
1-Year Time Deposit	5.0	4.8	
6-Month Treasury Bill	4.7	4.5	
6-Month Time Deposit	4.7	4.5	
Portfolio Yield (Range)	5.0	5.0	(3.7% to 10.3%)

(See Table F for financial summary.)

CONSTRUCTION PROGRESS FOR JUNE 1992

Construction operations, contract administration duties, and related support work were continued throughout the month in connection with 13 construction contracts. These contracts are valued in excess of \$176 million. Status of these contracts at the end of the month follows:

	<u>PERCENT COMPLETED</u>	<u>ESTIMATED COMPLETION</u>
Etiwanda Control Facility and Reservoir	99	July 1992
Etiwanda Reservoir Emergency Discharge Conduit	93	July 1992
Repaint Delivery Lines at Intake, Gene, and Hinds Pumping Plants	86	July 1992

	<u>PERCENT COMPLETED</u>	<u>ESTIMATED COMPLETION</u>
Remove and Replace Underground Tanks--Phase 3, Schedules I and II	99	August 1992
Oxidation Demonstration Plant at Weymouth Facilities	99	August 1992
Roofing Renovations of Soto Street Maintenance Center Buildings	0	September 1992
Washwater Reclamation Plant Expansion at Diemer Plant	95	September 1992
Property Fencing for the Mills Plant	0	October 1992
Site Preparations-- Jensen Plant Expansion No. 1	98	November 1992
Service Connection LA-35	24	December 1992
Joseph Jensen Filtration Plant Expansion No. 1	13	August 1994

One construction contract was awarded by the Board of Directors during the month. The low bidder, A. S. Peich, Inc., was awarded a contract in the amount of \$283,110 covering modification of the existing domestic water system located at the La Verne facility. There was one construction contract completed during the month. Construction of Skinner Bypass Pipelines Nos. 2 and 3 was completed by the prime contractor, S. A. Healy Company & Associates, and accepted by Metropolitan personnel on June 15, 1992.

(See attached Monthly Progress Report for details.)

JUNE RAINFALL AT LOS ANGELES CIVIC CENTER (INCHES)

During the month	0.00
Total for Season (Fiscal Year)	21.00
Normal for Season to Date	14.85
Difference from Normal	6.15
Percent of Normal	141.00

JUNE TEMPERATURES AT LOS ANGELES CIVIC CENTER (DEGREES F)

Average Maximum	78.8
Average Minimum	61.9
Average	70.35
30-Year Normal	69.2

EMPLOYMENTRegular Employees by Division/Department

	<u>June 1991</u>	<u>June 1992</u>	<u>Difference</u>
Engineering	311	355	+44
Operations	877	957	+80
Other Divisions and Departments	<u>603</u>	<u>695</u>	<u>+92</u>
<u>Total Regular Employees</u>	1,791	2,007	+216
<u>Full-Time Equivalent (FTE)--</u>			
<u>Temporary Employees*</u>	57	105	+48
<u>Total Headquarters Employees</u>			
Sunset Boulevard--Los Angeles	656	622	-34
Arroyo Parkway--Pasadena	118	188	+70
Lake Street--Pasadena	0	39	+39
<u>Minority Applicants</u>	80	687	+607**
<u>Minority New Hires</u>	2	3	+1
<u>Non-Minority Applicants</u>	95	532	+437**
<u>Non-Minority New Hires</u>	5	2	-3

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

** The significant increase resulted from implementation of the application phonemail process.


for Carl Boronkay

PCA:rdl

(board\opjune)

Attachments

METROPOLITAN WATER DISTRICT OF SO. CAL
 BILLING ACTIVITY REPORT FOR JUNE 1992
 (REPLACES OLD TABLE A)

AGENCY	NON INTR. DOM. & M.	----- INTERRUPTIBLE (NOTE 1) AGRIC. *RES. ST.	*INLIEU	SPREADN.	INJECTIN (NOTE 2)	-SEASONAL RESERVR.	STOR. (SSS-NOTE)- IN-LIEU SPREADNG	RECLAIMED	\$ SPECIALS	\$ AMOUNT	
ANAHEIM	1460.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.00	341079.00	
BURBANK	1787.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	466563.60	
BEVHILLS	1137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	296757.00	
COMPTON	292.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	76238.10	
CALLEGUS	10169.2	491.7	0.0	0.0	0.0	0.0	0.0	0.0	0.00	2782494.90	
CHINO B.	2716.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	602974.20	
CENT B.	4754.9	0.0	0.0	0.0	1687.2	438.6	0.0	658.7	11.1	-86138.70	
COASTAL	6779.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.2	0.00	
EASTERN	6509.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1713251.70	
FULLERTN	1094.3	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	287700.30	
FOOTHILL	756.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	197316.00	
GLENDALE	2365.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.9	0.00	
LA DWP	28557.8	0.0	0.0	0.0	0.0	0.0	484.0	3027.2	0.0	0.00	
LONG BCH	2718.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	116.5	0.00	
LV MWD	1830.8	0.0	0.0	0.0	0.0	0.0	-91.9	0.0	359.8	0.00	
MWDOC	11644.8	323.7	0.0	0.0	0.0	0.0	0.0	1296.4	892.7	-25000.00	
PASADENA	721.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	3158822.30	
THREE VY	5934.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	188233.20	
S ANA	1010.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1508344.50	
S DIEGO	54870.5	0.0	0.0	0.0	0.0	0.0	547.6	0.0	157.4	0.00	
S FERDO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	263688.30	
S MONICA	612.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	13149402.80	
S MARINO	39.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	
TORRANCE	1713.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	159966.90	
USG MWD	1105.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	10283.40	
WEST B.	13044.4	0.0	0.0	0.0	0.0	0.0	481.7	0.0	394.9	0.00	
WR MWD	3753.6	2142.7	0.0	0.0	0.0	0.0	0.0	519.6	0.0	0.00	
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.00	1493912.90	
TOTALS:	167378.6	2973.6	0.0	0.0	1687.2	920.3	939.7	5896.8	0.0	1680.6	-105888.70

GRAND TOTAL SALES: 181,476.8 ACRE FEET

TOTAL NET INVOICE \$ 43,665,332.20

NOTE 1: WATER DELIVERIES UNDER THE CATEGORIES MARKED BY (*) ARE CREDITED OVER THE FIRST 10 MONTHS OF THE FISCAL YEAR FOR THE DIFFERENTIAL BETWEEN NON-INTERRUPTIBLE AND INTERRUPTIBLE RATES. THESE CREDITS ARE SUBJECT TO SUBSEQUENT ADJUSTMENTS AS AN AGENCYS ORIGINAL ESTIMATES ARE CHANGED OR BY ACTUAL DELIVERIES.

NOTE 2: INJECTION INCLUDES SEA WATER BARRIER AND GROUND WATER REPLENISHMENT BY INJECTION. SEA WATER BARRIER AND GROUND WATER REPLENISHMENT ARE SOLD EITHER AT THE INTERRUPTIBLE OR SEASONAL STORAGE RATE.

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.

METROPOLITAN WATER DISTRICT OF SO. CAL.
 YEAR TO DATE WATER SALES IN A.F. TO MONTH OF JUNE 1992
 TABLE A YEAR TO DATE

AGENCY	NON INTR. DOM. & M.	----- INTERRUPTIBLE(NOTE 1) -----				INJECTIN (NOTE 2)	-SEASONAL RESRVR.	STOR.(SSS-NOTE) IN-LIEU	SPREADNG	RE- CLAIMED	\$ SPECIALS	\$ AMOUNT
		AGRIC.	*RES.ST.	*INLIEU	SPREADN.							
ANAHEIM	10208.6	79.2	700.0	0.0	0.0	0.0	0.0	11106.9	0.0	0.0	-635590.60	3494960.30
BURBANK	16767.2	0.0	0.0	0.0	0.0	0.0	0.0	1055.3	503.3	0.0	-294886.50	4302777.40
BEVHILLS	12216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-69994.40	3118381.60
COMPTON	3494.1	0.0	0.0	124.6	0.0	0.0	0.0	286.6	0.0	0.0	-20146.50	970103.80
CALLEGUS	74641.5	4916.1	0.0	0.0	0.0	0.0	2378.1	0.0	1286.7	0.0	-344718.60	20952437.70
CHINO B.	4080.4	107.6	0.0	27543.6	0.0	0.0	0.0	8251.8	67724.3	0.0	-1157478.60	15635718.60
CENT B.	46991.2	0.0	0.0	0.0	13269.8	6034.4	0.0	12389.7	45763.2	414.3	-1642310.12	22631726.08
COASTAL	62281.5	0.0	0.0	0.0	0.0	0.0	204.0	310.2	0.0	1238.7	-312837.59	16017661.71
EASTERN	48457.4	4133.5	0.0	0.0	0.0	0.0	0.0	0.0	1720.9	0.0	-619071.10	13461900.50
FULLERTN	7039.7	61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-132669.90	1720366.80
FOOTHILL	7792.1	0.0	0.0	0.0	0.0	0.0	0.0	601.8	0.0	0.0	-44187.70	2080186.20
GLENDALE	17415.8	0.0	0.0	4900.0	0.0	0.0	0.0	685.5	0.0	133.5	-287004.90	5606372.90
LA DWP	147431.9	0.0	0.0	54587.4	0.0	0.0	61373.5	24135.6	21.3	0.0	-8596220.64	50590038.16
LONG BCH	23550.1	0.0	0.0	5600.0	0.0	0.0	0.0	5550.3	0.0	905.9	-385566.71	7919267.09
LV MWD	11269.5	0.0	3500.0	0.0	0.0	0.0	523.8	0.0	0.0	3171.5	-243510.66	3890878.14
MWDOC	104846.9	3892.0	0.0	7949.5	0.0	0.0	0.0	26892.2	51671.9	6589.1	-2051782.59	37658011.11
PASADENA	9499.3	0.0	0.0	0.0	0.0	0.0	-54.0	8876.6	77.6	0.0	-384973.30	3439676.30
THREE VY	56716.1	90.8	0.0	287.7	0.0	0.0	0.0	0.0	3800.0	0.0	-425484.18	14409116.12
S ANA	9590.5	0.0	0.0	0.0	0.0	0.0	0.0	9157.2	0.0	0.0	-28383.30	3847049.70
S DIEGO	266812.7	33298.8	72358.3	0.0	0.0	0.0	51612.4	0.0	0.0	464.3	59130.53	95016705.13
S FERND0	155.2	0.0	0.0	0.0	0.0	0.0	0.0	496.9	0.0	0.0	-6283.20	108516.30
S MONICA	5174.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1100742.50	249723.70
S MARINO	733.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-20176.20	171136.80
TORRANCE	14986.4	0.0	0.0	1400.0	0.0	0.0	0.0	0.0	0.0	0.0	-166478.40	4106172.00
USG MWD	10621.9	0.0	0.0	0.0	-28.9	0.0	0.0	0.0	64074.4	0.0	-85203.00	10876236.10
WEST B.	118409.9	0.0	0.0	0.0	0.0	23922.8	0.0	3453.2	0.0	0.0	-183139.30	37452369.20
WR MWD	30774.0	18370.8	0.0	0.0	0.0	0.0	0.0	1002.8	0.0	0.0	-1596273.60	10240399.60
SPC CONT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3000.00	3000.00
TOTALS:	1121957.1	64949.8	76558.3	102392.8	13240.9	29957.2	116037.8	114252.6	236643.6	12917.3	-20772983.56	

GRAND TOTAL SALES: 1,888,907.4 ACRE FEET

TOTAL NET INVOICE \$ 389,970,889.04

NOTE 1: WATER DELIVERIES UNDER THE CATEGORIES MARKED BY (*) ARE CREDITED OVER THE FIRST 10 MONTHS OF THE FISCAL YEAR FOR THE DIFFERENTIAL BETWEEN NON-INTERRUPTIBLE AND INTERRUPTIBLE RATES. THESE CREDITS ARE SUBJECT TO SUBSEQUENT ADJUSTMENTS AS AN AGENCY'S ORIGINAL ESTIMATES ARE CHANGED OR BY ACTUAL DELIVERIES.

NOTE 2: INJECTION INCLUDES SEA WATER BARRIER AND GROUND WATER REPLENISHMENT BY INJECTION. SEA WATER BARRIER AND GROUND WATER REPLENISHMENT ARE SOLD EITHER AT THE INTERRUPTIBLE OR SEASONAL STORAGE RATE.

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

METROPOLITAN WATER DISTRICT OF SO. CAL.
 WATER SALES IN ACRE-FEET FOR THE MONTH OF JUNE 1992
 TABLE B

AGENCY	-----TREATED(NOTE)-----					-----UNTREATED(NOTE)-----					TOTAL AF AMOUNT			
	DOM & MUN	AGRIC	INTERRUPT	SEASONAL	GWR AF AMOUNT	DOM & MUN	AGRIC	INTERRUPT	SEASONAL	GWR AF AMOUNT		RECLAIMED		
ANAHEIM	386.2	1.4	0.0	0.0	0.0	387.6	1074.6	6.1	0.0	0.0	0.0	1080.7	0.0	1468.3
BURBANK	1787.6	0.0	0.0	0.0	0.0	1787.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1787.6
BEVHILLS	1137.0	0.0	0.0	0.0	0.0	1137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1137.0
COMPTON	292.1	0.0	0.0	0.0	0.0	292.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	292.1
CALLEGUS	10169.2	491.7	0.0	0.0	0.0	10660.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10660.9
CHINO B.	0.0	0.0	0.0	0.0	0.0	0.0	2716.1	0.0	0.0	0.0	0.0	2716.1	0.0	2716.1
CENT B.	4754.9	0.0	0.0	658.7	438.6	5852.2	0.0	0.0	0.0	1687.2	1687.2	11.1	1687.2	7550.5
COASTAL	6779.3	0.0	0.0	0.0	0.0	6779.3	0.0	0.0	0.0	0.0	0.0	69.2	6848.5	
EASTERN	6878.3	0.0	0.0	0.0	0.0	6878.3	-369.3	0.0	0.0	0.0	-369.3	0.0	6509.0	
FULLERTN	1094.3	8.0	0.0	0.0	0.0	1102.3	0.0	0.0	0.0	0.0	0.0	0.0	1102.3	
FOOTHILL	756.0	0.0	0.0	0.0	0.0	756.0	0.0	0.0	0.0	0.0	0.0	0.0	756.0	
GLENDALE	2365.0	0.0	0.0	0.0	0.0	2365.0	0.0	0.0	0.0	0.0	0.0	73.9	2438.9	
LA DWP	12065.4	0.0	0.0	3511.2	0.0	15576.6	16492.4	0.0	0.0	0.0	16492.4	0.0	32069.0	
LONG BCH	2718.9	0.0	0.0	0.0	0.0	2718.9	0.0	0.0	0.0	0.0	0.0	116.5	2835.4	
LV MWD	1830.8	0.0	0.0	-91.9	0.0	1738.9	0.0	0.0	0.0	0.0	0.0	359.8	2098.7	
MWD OC	10714.7	200.8	0.0	1296.4	0.0	12211.9	930.1	122.9	0.0	0.0	1053.0	892.7	14157.6	
PASADENA	721.2	0.0	0.0	0.0	0.0	721.2	0.0	0.0	0.0	0.0	0.0	0.0	721.2	
THREE VY	4894.5	0.0	0.0	0.0	0.0	4894.5	1040.0	0.0	0.0	0.0	1040.0	0.0	5934.5	
S ANA	1010.3	0.0	0.0	0.0	0.0	1010.3	0.0	0.0	0.0	0.0	0.0	0.0	1010.3	
S DIEGO	23620.6	0.0	0.0	0.0	0.0	23620.6	31249.9	0.0	0.0	547.6	31797.5	157.4	55575.5	
S FERENDO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
S MONICA	612.9	0.0	0.0	0.0	0.0	612.9	0.0	0.0	0.0	0.0	0.0	0.0	612.9	
S MARINO	39.4	0.0	0.0	0.0	0.0	39.4	0.0	0.0	0.0	0.0	0.0	0.0	39.4	
TORRANCE	1713.1	0.0	0.0	0.0	0.0	1713.1	0.0	0.0	0.0	0.0	0.0	0.0	1713.1	
USG MWD	1105.1	0.0	0.0	0.0	0.0	1105.1	0.0	0.0	0.0	0.0	0.0	0.0	1105.1	
WEST B.	13044.4	0.0	0.0	394.9	481.7	13921.0	0.0	0.0	0.0	0.0	0.0	0.0	13921.0	
WESTERN	1906.6	975.1	0.0	0.0	0.0	2881.7	1847.0	1167.6	0.0	519.6	3534.2	0.0	6415.9	
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	0.0	
TOTAL:	112397.8	1677.0	0.0	5769.3	920.3	120764.4	54980.8	1296.6	0.0	1067.2	1687.2	59031.8	1680.6	181476.8

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.
 WATER SALES IN DOLLARS FOR THE MONTH OF JUNE 1992
 TABLE C

AGENCY	-----TREATED(NOTE)-----					DOLLAR (\$) AMT	-----UNTREATED(NOTE)-----					DOLLAR AMOUNT	RECLM'D	SPECIAL	TOT DOLLAR (\$) AMOUNT
	DOM&MUN	AGRIC	INTERR	SEASONAL	GWR		DOM&MUN	AGRIC	INTERR	SEASONAL	GWR				
ANAHEIM	100798	365	0	0	0	101163	238561	1354	0	0	0	239915	0	0	341079
BURBANK	466563	0	0	0	0	466563	0	0	0	0	0	0	0	0	466563
BEVHILLS	296757	0	0	0	0	296757	0	0	0	0	0	0	0	0	296757
COMPTON	76238	0	0	0	0	76238	0	0	0	0	0	0	0	0	76238
CALLEGUS	2654161	128333	0	0	0	2782494	0	0	0	0	0	0	0	0	2782494
CHINO B.	0	0	0	0	0	0	602974	0	0	0	0	602974	0	0	602974
CENT B.	1241028	0	0	101439	114474	1456943	0	0	0	0	374558	374558	-1709	-86138	1743653
COASTAL	1769397	0	0	0	0	1769397	0	0	0	0	0	0	-4706	0	1764690
EASTERN	1795236	0	0	0	0	1795236	-81984	0	0	0	0	-81984	0	0	1713251
FULLERTN	285612	2088	0	0	0	287700	0	0	0	0	0	0	0	0	287700
FOOTHILL	197316	0	0	0	0	197316	0	0	0	0	0	0	0	0	197316
GLENDALE	617265	0	0	0	0	617265	0	0	0	0	0	0	-11380	0	605884
LA DWP	3149069	0	0	537280	0	3686350	3661312	0	0	0	0	3661312	0	0	7347663
LONG BCH	709632	0	0	0	0	709632	0	0	0	0	0	0	-17941	0	691691
LV MWD	477838	0	0	-14152	0	463686	0	0	0	0	0	0	24106	0	487792
MWD OC	2836725	52408	0	168532	0	3057665	206482	27283	0	0	0	233766	-107609	-25000	3158822
PASADENA	188233	0	0	0	0	188233	0	0	0	0	0	0	0	0	188233
THREE VY	1277464	0	0	0	0	1277464	230880	0	0	0	0	230880	0	0	1508344
S ANA	263688	0	0	0	0	263688	0	0	0	0	0	0	0	0	263688
S DIEGO	6164976	0	0	0	0	6164976	6937477	0	0	71188	0	7008665	-24239	0	13149402
S FERNDO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S MONICA	159966	0	0	0	0	159966	0	0	0	0	0	0	0	0	159966
S MARINO	10283	0	0	0	0	10283	0	0	0	0	0	0	0	0	10283
TORRANCE	447119	0	0	0	0	447119	0	0	0	0	0	0	0	0	447119
USG MWD	288431	0	0	0	0	288431	0	0	0	0	0	0	0	0	288431
WEST B.	3404588	0	0	60814	125723	3591126	0	0	0	0	0	0	0	0	3591126
WESTERN	497622	254501	0	0	0	752123	410034	259207	0	67548	0	736789	0	5000	1493912
SPC CONT	0	0	0	0	0	0	0	0	0	0	0	0	0	250	250
TOTAL:	29376014	437697	0	853914	240198	30907824	12205737	287845	0	138736	374558	13006877	-143480	-105888	43665332

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

THE SALES DOLLARS ON THIS REPORT MAY NOT AGREE WITH OTHER REPORTS DUE TO TRUNCATION REQUIRED BECAUSE OF SPACE LIMITATIONS.

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

TABLE D
ANALYSES OF THE DISTRICT WATER SUPPLIES

MAY 1992 CONSTITUENTS	SYMBOLS AND UNITS	SOURCE WATERS							FILTRATION PLANT EFFLUENTS					
		LAKE HAVASU NEAR WHIT- SETT INTAKE	SAN JACINTO TUNNEL WEST PORTAL	LAKE MATH- EWS	CASTAIC LAKE	SILVER- WOOD LAKE *	LAKE PERRIS	LAKE SKINNER	WEY- MOUTH PLANT **	DIEMER PLANT **	JENSEN PLANT	SKINNER PLANT NO. 1	SKINNER PLANT NO. 2	MILLS PLANT *
MONTH OR DAY OF SAMPLING		5/5/92	5/5/92	5/5/92	May 92	5/5/92	5/5/92	May 92	May 92	May 92	May 92	May 92	May 92	May 92
SILICA	SiO ₂ mg/L	7.9	7.6	8.9	15.9	14.6	1.2	9.1	11.7	12.5	15.9	8.7	9.2	15.6
CALCIUM	Ca mg/L	76	75	75	34	26	25	65	59	60	34	64	64	26
MAGNESIUM	Mg mg/L	30	29.5	30	17.5	13.5	18	26.5	25.5	25	17.5	26.5	27	14
SODIUM	Na mg/L	97	97	96	78	76	80	95	91	92	81	90	92	77
POTASSIUM	K mg/L	4.5	4.9	4.6	3.7	3.6	4.4	4.3	4.0	4.1	3.7	4.0	4.3	3.3
CARBONATE	CO ₃ mg/L	0	0	0	0	0	7	2	0	0	0	0	0	0
BICARBONATE	HCO ₃ mg/L	160	159	159	107	96	106	146	135	142	112	148	148	101
SULFATE	SO ₄ mg/L	256	255	256	92	83	47	223	201	203	93	221	221	81
CHLORIDE	Cl mg/L	84	83	82	97	86	117	87	87	87	99	89	87	86
NITRATE	NO ₃ mg/L	0.9	0.75	0.85	2.05	1.8	0.1	0.75	1.25	1.2	2.15	0.7	0.7	2.2
FLUORIDE	F mg/L	0.30	0.30	0.29	0.22	0.17	0.14	0.25	0.20	0.20	0.19	0.19	0.19	0.12
BORON	B mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DISSOLVED SOLIDS	TDS mg/L	637	632	633	394	353	353	587	548	556	403	578	579	356
TOTAL HARDNESS AS CaCO ₃	mg/L	313	309	311	157	121	137	271	252	253	157	269	271	123
TOTAL ALKALINITY AS CaCO ₃	mg/L	131	130	130	88	79	99	124	111	116	92	121	121	83
FREE CARBON DIOXIDE	CO ₂ mg/L	1.5	1.2	1.8	1.6	1.5	0.3	1.1	2.5	2.5	1.3	2.6	3.5	0.9
H+ CONCENTRATION	pH pH	8.26	8.33	8.16	8.04	8.02	8.78	8.35	7.95	7.98	8.17	7.97	7.85	8.27
SPECIFIC CONDUCTANCE	µmho/cm	1054	1047	1047	714	640	698	969	931	935	720	972	971	643
FILTER EFFLUENT TURBIDITY	NTU	-	-	-	-	-	-	-	0.09	0.08	0.11	0.11	-	0.11
TURBIDITY	NTU	0.58	0.56	0.75	0.83	3.1	0.66	1.8	0.07	0.09	0.11	0.10	0.11	0.12
TEMPERATURE	°C	21	22	14	15	16	24	22	17	18	15	22	22	20
BROMIDE	Br mg/L	<0.01	0.06	0.07	0.29	0.24	0.36	0.14	-	-	-	-	-	-
TOTAL TRIHALOMETHANES	TTHMs µg/L	-	-	-	-	-	-	-	54	65	71	51	47	95
PCT. STATE PROJECT WATER	% SPW %	0	0	0	100	78	100	21	25	25	100	21	21	78

* Blend of State Project Water and Santa Ana River water May 12-31.

** Blend of 25% State Project Water, 68% Colorado River water, and 7% Santa Ana River water. Santa Ana River water was received May 12-31.

TABLE E. GENERAL MANAGER'S MONTHLY REPORT

Jun 1992

Storage in Colorado River Basin Reservoirs at End of Month

(1,000 acre-feet)

Reservo	Usable Contents Above Lowest Outlet	Percent of Usable Capacity	Usable Contents Above Min. Power Head	Change * in Contents During Month	Change * in Contents Since Jun 1991
<i>Upper Basin</i>					
Fontenelle	179	52	0	26	(145)
Flaming Gorge	3,243	87	3,010	(16)	(152)
Blue Mesa	699	84	618	70	(118)
Morrow Point	112	96	37	0	(2)
Crystal	17	97	6	1	0
Navajo	1,592	94	---	(14)	(9)
Powell	15,276	63	11,279	341	(612)
Subtot	21,118	68	14,950	408	(1,038)
<i>Lower Basin</i>					
Mead	19,497	75	9,473	(291)	51
Mohave	1,604	89	1,387	(62)	13
Havasu	594	96	155	(13)	(8)
Subtot	21,695	76	11,015	(366)	56
Basin To	42,813	72	25,965	42	(982)

* Numbers within () are negative numbers.

TABLE F
 FINANCIAL SUMMARY
 FISCAL YEAR 1992-91
 CASH BASIS
 (\$ in millions)

	ACTUAL THROUGH JUNE 1992	BUDGET THROUGH JUNE 1992	VARIANCE OVER (UNDER)	
			ACTUAL V. BUDGET \$	%
<u>RECEIPTS</u>				
WATER SALES	379.8	459.3	(79.5)	(17.3)
POWER RECOVERIES	10.9	20.0	(9.1)	(45.5)
TAXES	83.6	77.0	6.6	8.6
INTEREST AND OTHER	41.5	52.5	(11.0)	(21.0)
	_____	_____	_____	_____
TOTAL RECEIPTS	515.8	608.8	(93.0)	(15.3)
<u>EXPENDITURES</u>				
STATE WATER CONTRACT	255.9	296.0	(40.1)	(13.5)
STATE WATER BANK	40.0	33.0	7.0	21.2
COLORADO RIVER SUPPLIES	55.8	56.6	(0.8)	(1.4)
MWD CAPITAL PROGRAM	128.8	162.3	(33.5)	(20.6)
MWD O&M	183.5	213.1	(29.6)	(13.9)
CONSERVATION CREDITS	8.5	19.5	(11.0)	(56.4)
	_____	_____	_____	_____
TOTAL EXPENDITURES	(672.5)	(780.5)	(108.0)	(13.8)
	_____	_____	_____	_____
INCREASE (DECREASE) IN CASH AND INVESTMENTS	<u>(156.7)</u>	<u>(171.7)</u>	<u>15.0</u>	<u>(8.7)</u>

WATER DELIVERIES
 CASH BASIS
 (acre feet in thousands)

<u>DELIVERIES</u>	<u>CURRENT MONTH</u>	<u>FISCAL YEAR TO DATE</u>
ACTUAL	235.3	1,828.2
BUDGET	204.6	1,830.0
	_____	_____
DIFFERENCE OVER (UNDER)	<u>30.7</u>	<u>(1.8)</u>

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

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

June 1992

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
Number of Contracts	13	8
Total Bid Amount of Contracts in Progress	\$ 176,009,548	\$ 20,640,278
Number of Contracts Awarded this Month	1	0
Total Bid Amount of Contracts Awarded this Month	283,110	0
Contract Gross Earnings this Month	4,535,689	573,915

There was one construction contract awarded by the Board of Directors during the month of June 1992. Contract No. 1405 covering Modification of the Domestic Water System at the La Verne Facilities was awarded to A. S. Peich, Inc., in the amount of \$283,110.

There was one construction contract completed during the month of June 1992. Contract No. 1381 covering the construction of Skinner Bypass Pipelines Nos. 2 and 3 was completed by the prime contractor, S. A. Healy Company & Associates, and accepted by District forces on June 15, 1992.

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 18 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 5 of this report.

There were no procurement contracts awarded by the Board of Directors during the month of June 1992.

Deliveries were completed under two fabrication contracts. These contracts included Contract No. 1356 with Nissho Iwai American Corporation covering six pump impeller assemblies for Eagle Mountain and Hinds Pumping Plants and Contract No. 1367 with Nissho Iwai American Corporation for the vertical turbine generator unit for Etiwanda Power Plant.

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<u>DESCRIPTION</u>	<u>PAGE</u>
Summary of Construction Contracts	3
Summary of Procurement Contracts	4
Summary of Construction Contracts Completed During the Month	5
Skinner Bypass Pipelines Nos. 2 and 3 Specs. No. 1162--Contract No. 1381	6
Oxidation Demonstration Plant Specs. No. 1203--Contract No. 1369	7
Etiwanda Control Facility and Reservoir Specs. No. 1179--Contract No. 1370	8
Etiwanda Reservoir Emergency Discharge Conduit Specs. No. 1209--Contract No. 1394	9
Washwater Reclamation Plant Expansion at Diemer Plant Specs. No. 1180--Contract No. 1375	10
Jensen Plant Expansion No. 1 Specs. No. 1200--Contract No. 1393	11
Site Preparation for Jensen Plant Expansion Specs. No. 1199--Contract No. 1380	12
Service Connection LA-35 Specs. No. 1225--Contract No. 1397	13
Property Fencing at Mills Plant Specs. No. 1241--Contract No. 1402	14
Remove and Replace Tanks--Phase 3, Sch. I, II Specs. No. 1194--Contract No. 1373	15
Repaint Delivery Lines at CRA Pumping Plants Specs. No. 1215--Contract No. 1390	16
Roofing Renovations of the Soto Street Maintenance Center Buildings Specs. No. 1243--Contract No. 1404	17
Modifications of Domestic Water System at La Verne Facilities Specs. No. 1229--Contract No. 1405	18

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
1369	1203	Oxidation Demonstration Plant at Weymouth	Merco Construction Engineers, Inc.	\$ 12,204,000	\$ 29,093	\$ 12,700,305	5/01/90	7/24/91	8/92	99	100
1370	1179	Etiwanda Control Facility and Reservoir	Advanco Constructors	22,492,000	567,277	22,815,665	6/20/90	6/01/92	7/92	99	100
1394	1209	Etiwanda Reservoir Emergency Discharge Conduit	Cass Construction, Inc.	2,579,120	190,734	2,430,708	9/14/91	7/13/92	7/92	93	94
1375	1178	Washwater Reclamation Expansion at Diemer	Kaweah Construction Company	6,715,000	295,803	7,774,065	8/28/90	12/04/91	9/92	95	100
1293	1200	Joseph Jensen Filtration Plant Expansion No. 1	Hyman/JWP West, A Joint Venture	101,986,000	2,786,405	12,786,405	9/05/91	8/16/94	8/94	13	25
1380	1199	Site Preparation Jensen Plant--Exp.	C. A. Rasmussen, Inc.	16,231,227	420,578	17,729,364	12/03/90	11/06/92	11/92	98	78
1397	1225	Service Connection LA-35	Dillingham Construction N.A., Inc.	4,246,000	174,764	1,020,088	11/13/91	12/08/92	12/92	24	56
1402	1241	Property Fencing at Henry J. Mills Filtration Plant	Anchor Fence, PPA Industries, Inc.	469,000	0	0	5/24/92	10/22/92	10/92	0	34
1373	1194	Remove and Replace Underground Tanks	Long and Company Environmental	634,999	54,348	\$ 935,107	10/04/90	4/11/91	8/92	99	100
1390	1215	Repaint Delivery Lines at CRA Pumping Plants	Jess B. Worthington, Inc.	285,693	16,587	246,490	5/10/91	6/05/92	7/92	86	100
1404	1243	Roofing Renovation of Soto Street Maintenance Center Buildings	Pacific Southwest Roofing, Inc.	73,399	0	0	6/23/92	9/16/92	9/92	0	0
1405	1229	Modification to Domestic Water System at La Verne Facilities	A. S. Pelch, Inc.	283,110	—	—	—	—	—	—	—

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June 1992

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
1355	1146	Conical Plug Valves for Etiwanda Control Facility and Power Plant	Willamette Valve Co., Inc.	\$ 3,999,978	—	\$ 3,904,583	7/28/89	2/22/91	
1356	1198	Six Pump Impeller Assemblies for Eagle Mountain and Hinds Pumping Plants	Nissho Iwai American Corporation	1,638,800	—	1,638,800	10/23/89	2/18/91 2/17/91	
1367	1142	Vertical Turbine Generator Unit for Etiwanda Power Plant	Nissho Iwai American Corporation	5,122,000	\$ 573,915	5,122,000	4/06/90	3/21/92	
1389	1223	Four Conical Plug Valves for Santa Margarita Pipeline	Ebara International Corporation	1,540,000	—	—	4/24/91	7/19/92	
1396	1207	Four Computer-Based Control Systems	JWP Controls	6,670,000	-	388,200	3/12/92	—	
1398	1232	Electric-Motor-Operated Slide Gate for Service Connection LA-35	Marubeni America Corporation	370,500	—	—	11/07/91	8/13/92	
1400	1245	Fabricated Pipe and Fittings for Mills Filtration Plant Expansion No. 2	Ameron, Inc.	1,050,000	—	—	2/19/92	8/31/92	
1403	1240	Nine Hydrofoil Flocculators for Jensen Expansion No. 1	Chemineer, Inc.	249,000	—	—	—	—	

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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
1381	1162	Skinner Bypass Pipelines Nos. 2 & 3	S. A. Healy Company & Associates	\$ 7,810,000	\$ 7,557,763	6/15/92	6/17/92 (mailed)	—

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
1359	1147A	San Diego Canal Enlargement	Kiewit Pacific Company	\$ 30,794,318		9/10/91	10/01/91	11/05/91*
1352	1140	Robert A. Skinner Filtration Plant Expansion No. 3	Kiewit Pacific Company	40,166,00		11/22/91	11/27/91	1/02/92*

* Final payment pending settlement of various claims and credits

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Skinner Bypass Pipelines Nos. 2 and 3		
CONTRACTOR	S. A. Healy Company & Associates		
SPECIFICATIONS NO.	1162	BID	\$ 7,810,000
CONTRACT NO.	1381	EXTRA WORK TO DATE	3,747
CONTRACT STARTING DATE	December 10, 1991	EARNINGS THIS MONTH	75,612
CONTRACT COMPLETION DATE	May 5, 1992	EARNINGS TO DATE	7,557,763
ACTUAL COMPLETION DATE	June 15, 1992	ESTIMATED PERCENT COMPLETE	100
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Construction of approximately 5,450 feet of 109-inch-inside-diameter welded-steel pipeline and approximately 630 feet of 49-inch-inside-diameter welded-steel pipeline and appurtenant work at the Robert A. Skinner Filtration Plant at 33740 Borel Road near the City of Winchester, Riverside County, California.

CONSTRUCTION PROGRESS

All work required under the contract was completed by the prime contractor, S. A. Healy Company & Associates, and accepted by District forces on June 15, 1992.

The Notice of Completion has been mailed to the Riverside County Recorder for recording.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Oxidation Demonstration Plant at the F. E. Weymouth Filtration Plant		
CONTRACTOR	Merco Construction Engineers, Inc.		
SPECIFICATIONS NO.	1203	BID	\$ 12,204,000
CONTRACT NO.	1369	EXTRA WORK TO DATE	608,934
CONTRACT STARTING DATE	May 1, 1990	EARNINGS THIS MONTH	29,093
CONTRACT COMPLETION DATE	July 24, 1991	EARNINGS TO DATE	12,700,305
ESTIMATED COMPLETION DATE	August 1992	ESTIMATED PERCENT COMPLETE	99
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Construction of a 5.5-million-gallon-per-day water treatment plant to be utilized for the purpose of demonstrating the performance of several water treatment processes located at the F. E. Weymouth Filtration Plant, 700 North Moreno Avenue, La Verne, California.

CONSTRUCTION PROGRESS

Work was continued throughout the month on various punch-list items previously submitted to the contractor for correction and/or repair.

Training of District personnel on the operation and maintenance of the Distribution Control System was also in progress during the month.

Remedial work required to correct and prevent further subsidence of the area located adjacent to the clearwell area was continued throughout the month.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Etiwanda Control Facility and Reservoir		
CONTRACTOR	Avanco Constructors		
SPECIFICATIONS NO.	1179	BID	\$ 22,492,000
CONTRACT NO.	1370	EXTRA WORK TO DATE	397,569
CONTRACT STARTING DATE	June 20, 1990	EARNINGS THIS MONTH	567,277
CONTRACT COMPLETION DATE	June 1, 1992	EARNINGS TO DATE	22,815,665
ESTIMATED COMPLETION DATE	July 1992	ESTIMATED PERCENT COMPLETE	99
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Construction of a 450 acre-foot reservoir, control facility building, and other appurtenant work located at the intersection of Arrow Highway and Etiwanda Boulevard in the City of Rancho Cucamonga, California.

CONSTRUCTION PROGRESS

Application of the required asphalt sealer coat to the reservoir lining was completed during the month. Placement of the one-inch asphalt cap on Etiwanda Boulevard and Arrow Highway, including required marking and striping of the pavement was also completed during the month.

Installation of yard piping and various utility installations was continued throughout the project site as required.

Electrical installations and testing of installed equipment and systems were continued throughout the jobsite as required during the month. Installation of the cathodic protection system for the outlet and radial gate structures was completed during the month.

Installation of fencing around the perimeter of the reservoir was completed during the month and installation of the wrought iron fence panels continued along the north and south boundaries of the project site.

General cleanup and demobilization of the construction facilities were started throughout the jobsite.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Etiwanda Reservoir Emergency Discharge Conduit		
CONTRACTOR	Cass Construction, Inc.		
SPECIFICATIONS NO.	1209	BID	\$ 2,579,120
CONTRACT NO.	1394	EXTRA WORK TO DATE	36,358
CONTRACT STARTING DATE	September 14, 1991	EARNINGS THIS MONTH	190,734
CONTRACT COMPLETION DATE	July 13, 1992	EARNINGS TO DATE	2,430,708
ESTIMATED COMPLETION DATE	July 1992	ESTIMATED PERCENT COMPLETE	93
		PERCENT CONTRACT TIME ELAPSED	94

SCOPE OF WORK

Construction of approximately 3,800 feet of reinforced concrete box conduit and appurtenant work located at the intersection of Arrow Highway and Etiwanda Boulevard in the City of Rancho Cucamonga, California.

CONSTRUCTION PROGRESS

Erection of forms and placement of reinforcing steel and concrete were continued throughout the month for the 12-foot by 12-foot single box section of the emergency discharge conduit. Concrete operations were also completed for the desilting inlet, located at the Arrow Highway crossing. Approximately 630 cubic yards of concrete was placed during the month.

Utility supports and shoring required during construction of the emergency discharge conduit in the area of the Big Three Industries facilities are being removed.

Backfill operations for the 12-foot by 12-foot single box portion of the emergency conduit were continued throughout the month along completed sections of the conduit.

Contractor personnel, including employees of subcontractors, averaged 28 persons during the month of June 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Washwater Reclamation Plant Expansion at the Robert B. Diemer Filtration Plant		
CONTRACTOR	Kaweah Construction Company		
SPECIFICATIONS NO.	1178	BID	\$ 6,714,000
CONTRACT NO.	1375	EXTRA WORK TO DATE	1,497,865
CONTRACT STARTING DATE	August 28, 1990	EARNINGS THIS MONTH	295,803
CONTRACT COMPLETION DATE	December 4, 1991	EARNINGS TO DATE	7,774,065
ESTIMATED COMPLETION DATE	September 1992	ESTIMATED PERCENT COMPLETE	95
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Construction of a 25-million-gallon-per-day washwater reclamation facility and appurtenant work as an expansion of existing treatment facilities at 3972 Valley View Avenue, Yorba Linda, Orange County, California.

CONSTRUCTION PROGRESS

Operational demonstration tests were conducted on the sludge thickeners and flocculators and the longitudinal sludge collectors during the month.

Installation of the 36-inch-diameter raw water pipeline was completed during the month. Permanent tie-in of the completed line to existing facilities was also completed during the month. Tie-in of the new 10-inch-diameter sludge line to the existing system was also completed during the month.

Electrical terminations were continued throughout the month at various equipment stations and remote terminal units in the existing control building.

Contractor personnel, including subcontractor personnel, averaged 57 persons during the month of June 1992.

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

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	0
CONTRACT STARTING DATE	September 5, 1991	EARNINGS THIS MONTH	2,780,499
CONTRACT COMPLETION DATE	August 16, 1994	EARNINGS TO DATE	12,786,405
ESTIMATED COMPLETION DATE	August 1994	ESTIMATED PERCENT COMPLETE	13
		PERCENT CONTRACT TIME ELAPSED	25

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

Construction of forms and placement of reinforcing steel and concrete were in progress throughout the month for various portions of Basin Nos. 4, 5, and 6 of Filter Module No. 2, the washwater reclamation Plant No. 2, pipe gallery No. 4, and the influent and effluent conduits. Approximately 2,800 cubic yards of concrete was placed during the month.

Excavation operations were continued within Filter Module No. 3. Placement of crushed rock continued for subdrain of basins in Filter Module No. 2. Backfill operations were in progress throughout the month within Module No. 2.

Installation of conduit and ground wire was continued within Module No. 2, the washwater reclamation Plant No. 2, and on the existing steel washwater tank. Installation of conduit supports within the pipe and filter galleries of Module No. 2 was also in progress throughout the month.

Installation of the subdrain system continued for Module No. 2 and was started within Module No. 3 during the month.

Contractor personnel, including employees of subcontractors, averaged 146 persons during the month of June 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Site Preparation for the Joseph Filtration Plant Expansion No. 1		
CONTRACTOR	C. A. Rasmussen, Inc.		
SPECIFICATIONS NO.	1199	BID	\$ 16,251,954
CONTRACT NO.	1380	EXTRA WORK TO DATE	1,855,872
CONTRACT STARTING DATE	December 3, 1990	EARNINGS THIS MONTH	420,578
CONTRACT COMPLETION DATE	November 6, 1992	EARNINGS TO DATE	17,729,364
ESTIMATED COMPLETION DATE	November 1992	ESTIMATED PERCENT COMPLETE	98
		PERCENT CONTRACT TIME ELAPSED	78

SCOPE OF WORK

Excavation, installation of industrial sludge and sanitary sewer lines, relocation of existing underground utility lines, site preparations and landscaping, and appurtenant work for Expansion No. 1 of the Jensen plant located at 13100 Balboa Boulevard, Granada Hills, California.

CONSTRUCTION PROGRESS

Backfill operations were continued throughout the month for the 144-inch-diameter reservoir effluent pipeline and were completed for the 97-inch-diameter reservoir overflow pipeline.

Erection of forms and placement of reinforcing steel and concrete were in progress for the encasement of the 85-inch-diameter Module No. 3 overflow pipeline.

Installation of required piezometers at the finished water reservoir was completed during the month.

Construction of the chemical injection structure on the Sepulveda Feeder was continued throughout the month.

General cleanup operations were started throughout the jobsite as required.

Contractor personnel, including employees of subcontractors, averaged 25 persons during the month of June 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Service Connection LA-35		
CONTRACTOR	Dillingham Construction N.A., Inc.		
SPECIFICATIONS NO.	1225	BID	\$ 4,246,000
CONTRACT NO.	1397	EXTRA WORK TO DATE	3,450
CONTRACT STARTING DATE	November 13, 1991	EARNINGS THIS MONTH	174,764
CONTRACT COMPLETION DATE	December 8, 1992	EARNINGS TO DATE	1,020,088
ESTIMATED COMPLETION DATE	December 1992	ESTIMATED PERCENT COMPLETE	24
		PERCENT CONTRACT TIME ELAPSED	56

SCOPE OF WORK

Construction of a service connection between the existing Balboa Inlet Tunnel and Los Angeles Department of Water and Power High Speed Channel which includes the removal of a 32-foot length of the tunnel and installation of a concrete enclosed steel wye branch, 43 feet of 109-inch-diameter welded-steel pipe, 900 feet of 91-inch-diameter steel pipeline, and appurtenances.

CONSTRUCTION PROGRESS

Placement of reinforcing steel and concrete for the slab on grade and the precast concrete roof panels for the turnout structure was completed during the month.

Installation of the shoring system required for construction of the discharge structure was started during the month. Installation of the support system for the existing Department of Water and Power 96-inch-diameter penstock was also started during the month.

The District-furnished 108-inch-diameter butterfly valve was delivered to the jobsite on June 15, 1992 for installation by the contractor.

Contractor personnel, including employees of subcontractors, averaged seven persons during the month of June 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Property Fencing at the Henry J. Mills Filtration Plant		
CONTRACTOR	Anchor Fence, PPA Industries, Inc.		
SPECIFICATIONS NO.	1241	BID	\$ 469,000
CONTRACT NO.	1402	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	May 4, 1992	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	October 22, 1992	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	October 1992	ESTIMATED PERCENT COMPLETE	0
		PERCENT CONTRACT TIME ELAPSED	34

SCOPE OF WORK

Furnish and install approximately 3,700 lineal feet of 7-foot high chain link fence, 2,000 lineal feet of 7-foot wrought iron fence, and 4,800 lineal feet of 6-foot high wrought iron fence and appurtenant work located at the Henry J. Mills Filtration Plant, 550 East Alessandro Boulevard, Riverside, California.

CONSTRUCTION PROGRESS

The contractor continued to submit required shop drawings, materials lists, catalog data sheets, and installation procedures for District review and approval.

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

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Remove and Replace Underground Tanks--Phase 3, Schedules I and II		
CONTRACTOR	Long & Company Environmental		
SPECIFICATIONS NO.	1194	BID	\$ 634,999
CONTRACT NO.	1373	EXTRA WORK TO DATE	23,802
CONTRACT STARTING DATE	October 4, 1990	EARNINGS THIS MONTH	54,348
CONTRACT COMPLETION DATE	April 11, 1991	EARNINGS TO DATE	935,107
ESTIMATED COMPLETION DATE	August 1992	ESTIMATED PERCENT COMPLETE	99
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Remove 21 and replace 14 underground fuel and oil tanks, install cathodic protection systems, and all appurtenant work at eight various existing facilities throughout the District's distribution network.

CONSTRUCTION PROGRESS

Excavation operations were resumed at the Lake Skinner auto shop fuel tank site, in preparation for installation of two 5,000-gallon fuel tanks.

Previously excavated materials, which had been treated and stored in the area of the auto shop site, was removed from the site and disposed of by the contractor.

Contractor personnel, including employees of subcontractors, averaged three persons during the month of June, 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Repaint Delivery Lines at Intake, Gene, and Hinds Pumping Plants		
CONTRACTOR	Jess B. Worthington, Inc.		
SPECIFICATIONS NO.	1215	BID	\$ 285,693
CONTRACT NO.	1390	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	May 10, 1991	EARNINGS THIS MONTH	16,587
CONTRACT COMPLETION DATE	June 5, 1992	EARNINGS TO DATE	246,490
ESTIMATED COMPLETION DATE	July 1992	ESTIMATED PERCENT COMPLETE	86
		PERCENT CONTRACT TIME ELAPSED	100

SCOPE OF WORK

Surface preparation and repainting of approximately 985,000 square feet of existing steel pipe and miscellaneous iron surfaces for Intake, Gene, and Hinds pumping plants located in Riverside and San Bernardino counties.

CONSTRUCTION PROGRESS

Cleaning of the delivery lines, abrasive blasting of deteriorated coating in localized areas, and application of primer and finished coats were continued throughout the month at the Hinds Pumping Plant.

Contractor personnel, including employees of subcontractors, averaged five persons during the month of June 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Roofing Renovations of the Soto Street Maintenance Center Buildings		
CONTRACTOR	Pacific Southwest Roofing, Inc.		
SPECIFICATIONS NO.	1243	BID	\$ 73,399
CONTRACT NO.	1404	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	June 23, 1992	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	September 16, 1992	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	September 1992	ESTIMATED PERCENT COMPLETE	0
		PERCENT CONTRACT TIME ELAPSED	0

SCOPE OF WORK

Remove and replace approximately 23,300 square feet of existing built-up bituminous and asphalt roofing systems on two separate buildings located at 2100 North Soto Street, Los Angeles, California.

CONSTRUCTION PROGRESS

The Notice to Proceed was mailed to the contractor on June 19, 1992.

The contractor has submitted certain product data sheets, installation procedures, and specifications for District review and approval.

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

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

June 1992

CONSTRUCTION OF	Modification of Domestic Water System at La Verne Facilities		
CONTRACTOR	A. S. Peich, Inc.		
SPECIFICATIONS NO.	1229	BID	\$ 283,110
CONTRACT NO.	1405	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

Expansion of the existing domestic water system, including installation of approximately 2,200 feet of mortar-lined steel pipe up to 14 inches in diameter and appurtenances at the La Verne facilities.

CONSTRUCTION PROGRESS

A contract covering the modification of the existing domestic water system at the La Verne facilities was awarded by the Board of Directors on June 3, 1992 to the low bidder, A. S. Peich, Inc.