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METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

JAN 10 1995

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*Robert E. Duff*  
 EXECUTIVE SECRETARY

December 27, 1994

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

The following tables contain November 1994 data on Metropolitan's water and power sales and purchases, treatment plant operations, reservoir storage, construction, and employment; Los Angeles Civic Center rainfall and temperature readings; and a December 1, 1994 Four Basin Index forecast.

WATER SALES

	Nov. 1994 AF	Oct. 1994 AF	Nov. 1993 AF	Total Fiscal Year to Date AF
<b>TOTAL WATER SALES</b>	167,383	185,493	159,779	872,391
<b>REVENUE</b>	\$56,563,332	\$66,051,671	\$52,939,405	\$308,805,250
<b>BASIC SERV</b>	121,231	149,565	129,165	689,935
<b>AGRICULTURAL</b>	11,633	14,544	1,267	68,185
<b>SPREADING</b>	0	0	0	0
<b>BARRIER INJECTION</b>	880	2,926	2,512	11,501
<b>SEASONAL STORAGE</b>				
Spreading	15,487	13,967	1,845	31,171
Reservoir Storage	3,466	180	1,913	17,642
In-Lieu	12,998	1,691	20,715	40,956
<b>RECLAIMED</b>	1,690	2,621	2,362	13,001
<b>TREATED</b>	100,085	119,025	103,771	582,883
<b>UNTREATED</b>	65,608	63,847	53,646	276,507

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

METROPOLITAN'S STATE WATER PROJECT (SWP)  
CHARGES AND PAYMENTS--FISCAL YEAR 1994/95

The following table shows a comparison of totals from July 1, 1994, through November 30, 1994:

<u>Components*</u>	<u>SWP Statement of Charges to Date**</u>	<u>1994/95 Annual Budget to Date</u>	<u>Amount Paid to Date**</u>
Capital	65,045,022	64,859,000	65,045,020
Minimum	37,377,680	37,465,000	37,377,680
Power	78,224,782	45,056,000	44,821,461
Credits	<u>Not Applicable</u>	<u>0</u>	<u>(77,683,823)</u>
Total	<u>\$180,647,484</u>	<u>\$147,380,000</u>	<u>\$69,560,338</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 charges to date and the amount paid to date is due principally to changes made in January to the Variable OMP&R rates and a change in the quantity of water scheduled; return by the California Department of Water Resources of excess historical Replacement Reserve deposits with interest, and credit on adjustment to the 1993 Off-Aqueduct charges.

POWER FOR PUMPING

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

<u>Colorado River Energy</u>	<u>Kwh</u>
Hoover Power Plant	100,839,000
Parker Power Plant	<u>11,070,000</u>
Subtotal	111,909,000
Southern California Edison (SCE)	
Benefit Energy	12,752,203
SCE Exchange Energy	0
SCE Purchased Energy	38,929,000
California Department of Water	
Resources (DWR) Purchased Energy	0
Other Purchased Energy	<u>49,681,000</u>
Total Generated for Metropolitan	213,271,203
Colorado River Aqueduct (CRA)	
Power Available to DWR	0
CRA Power Available to SCE	0

HYDROELECTRIC POWER RECOVERY PLANTS--FISCAL YEAR 1994/95  
ENERGY AND REVENUE ACCOUNT

Nov. 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>
<u>PHASE I</u>				
Greg Avenue	0	484,800	\$ 0.00	\$ 22,480.18
Lake Mathews	2,040,000	14,418,000	94,594.80	668,562.66
Foothill Feeder	2,988,000	22,164,000	138,553.56	1,027,744.68
San Dimas	945,000	8,955,000	43,819.65	415,243.35
Yorba Linda	<u>2,232,000</u>	<u>13,110,000</u>	<u>103,497.84</u>	<u>607,910.70</u>
Subtotal	8,205,000	59,131,800	380,465.85	2,741,941.57
<u>PHASES II-IV</u>				
Sepulveda Canyon	924,000	5,232,000	35,780.88	237,200.10
Venice	0	1,116,000	0.00	48,601.12
Temescal	0	4,203,000	0.00	249,301.47
Corona	0	4,446,000	0.00	263,540.05
Perris	0	3,582,000	0.00	232,589.51
Rio Hondo	340,000	3,820,000	13,027.17	207,479.30
Coyote Creek	1,341,000	6,741,000	50,359.61	344,300.54
Red Mountain	1,038,000	12,858,000	39,650.67	684,296.80
Valley View	<u>2,248,000</u>	<u>4,240,000</u>	<u>84,500.20</u>	<u>162,247.97</u>
Subtotal	5,891,000	46,238,000	223,318.53	2,429,556.86
Total Phase I-IV	14,096,000	105,369,800	603,784.38	5,171,498.43
Etiwanda	0	6,986,000	0.00	112,702.11
Total	<u>14,096,000</u>	<u>112,355,800</u>	<u>\$603,784.38</u>	<u>\$5,284,200.54</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 <sub>3</sub>	Nov. 94	328*	155*	321*	326*	327*	138*
	Oct. 94	323	153	311	314	312	115
	Nov. 93	292	195	295	327	332	89
Total Dissolved Solids--mg/l	Nov. 94	712**	357**	697**	703*	700**	365*
	Oct. 94	709	357	694	687	686	320
	Nov. 93	621	419	622	693	697	203

\* 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>	Nov. 1994		41,183	14,681	27,654	16,392	3,533
	Oct. 1994		44,473	21,375	30,028	22,901	5,441
	Nov. 1993		39,864	13,002	28,908	18,391	4,106
			<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>	Nov. 1994		1,739	-28	103,443		613,989
	Oct. 1994		2,021	+3	124,218		510,546
	Nov. 1993		2,374	+37	141,232		650,968

RESERVOIR STORAGE

	<u>Usable</u> <u>Storage</u> %	<u>Nov.</u> <u>1994</u> AF	<u>Oct.</u> <u>1994</u> AF	<u>Nov.</u> <u>1993</u> AF	<u>Annual</u> <u>Difference</u> AF
<u>Distribution</u>					
Lake Mathews	60	108,399	123,805	123,983	(15,584)
Lake Skinner	88	38,685	37,330	34,651	4,034
<u>Colorado River Basin</u>					
Upper Basin	73	22,687,000	22,886,000	24,720,000	(2,033,000)
Lower Basin	76	21,598,000	21,762,000	23,332,000	(1,734,000)

(See Table E for details.)

State Water Project

Oroville	44	1,537,964	1,556,180	2,597,424	(1,059,460)
San Luis (State)	50	529,778	397,314	907,062	(377,284)
Pyramid	92	152,930	156,011	156,074	(3,144)
Castaic	53	161,645	178,845	184,651	(23,006)
Silverwood	93	65,824	64,155	68,039	(2,215)
Perris	83	105,821	106,539	116,947	(11,126)

Central Valley Project

Clair Engle	48	1,158,380	1,167,980	1,871,480	(713,100)
Shasta	43	1,904,710	1,908,410	2,804,410	(899,700)
Folsom	19	189,500	204,800	429,600	(240,100)
New Melones	16	393,770	382,300	709,000	(315,230)
San Luis (federal)	65	628,635	220,628	779,694	(151,059)

CONSTRUCTION PROGRESS FOR NOVEMBER 1994

Fifteen construction contracts, having a contract value in excess of \$184 million, were in progress during the month. Contract earnings under these contracts were \$4,392,454 this month. Status of these contracts at the end of the month follows:

	<u>Percent Completed</u>	<u>Estimated Completion</u>
Field Office at Domenigoni Valley Reservoir Site	99	December 1994
Calabasas Feeder Relocation	7	December 1994
Cathodic Protection System for West Coast Feeder	72	December 1994
Joseph Jensen Filtration Plant Expansion No. 1	99	December 1994
Domenigoni Valley Reservoir Temporary Visitor Center	30	February 1995
Demolition of Portions of the San Diego Canal	43	February 1995
Construction of Floating Cover for Jensen Finished Water Reservoir No. 2	0	March 1995
Completion of Domenigoni Valley Reservoir High-Water Road	41	March 1995
Jensen Plant Expansion No. 1 Chlorination System	6	March 1995
Seismic Upgrading of CRA Pump House Buildings	10	March 1995
Furnish Corrugated Steel for Structural Plate Pipe	0	April 1995
Electrolysis Monitoring Stations at Metro Green Line Crossings	0	April 1995
Jensen Reservoir No. 1 Effluent-- Repair of Earthquake Damage	17	April 1995
Newhall Tunnel--Repair of Earthquake Damage	0	April 1995
Henry J. Mills Filtration Plant Expansion No. 2	37	October 1996

No construction contracts were completed this month. Contract No. 1435, in the amount of \$4,095,000, was awarded to J. F. Shea Company, Inc., for repair and modifications to Metropolitan's Newhall Tunnel, which was damaged during the January 17, 1994 Northridge earthquake and subsequent aftershocks.

NOVEMBER RAINFALL AT LOS ANGELES CIVIC CENTER (INCHES)

During the Month	0.61
Total for Season (Fiscal Year)	0.81
Normal for Season to Date	1.85
Difference From Normal	-1.04
Percent of Normal	44
During Same Month Last Year	0.66
Total for Season (last fiscal yr)	0.82

NOVEMBER TEMPERATURES AT LOS ANGELES CIVIC CENTER (DEGREES F)

Average Maximum	69.7
Average Minimum	50.0
Average	59.85
30-Year Normal	62.7

EMPLOYMENTRegular Employees by Division/Department

	<u>Nov. 1993</u>	<u>Nov. 1994</u>	<u>Difference</u>
Engineering	405	424	19
Operations	950	905	- 45
Other Divisions and Departments	<u>717</u>	<u>648</u>	<u>-69</u>
<u>Total Regular Employees</u>	2,072	1,977	- 95*
<u>Full-Time Equivalent (FTE) --**</u>			
<u>Temporary Employees*</u>	87	109	22
<u>Total Sunset Employees</u>	124	37	- 87
<u>Total Two Cal Plaza Employees</u>	712	809	97
<u>Minority Applicants</u>	406	504	98
<u>Minority New Hires</u>	3	6	3
<u>Non-Minority Applicants</u>	454	400	- 54
<u>Non-Minority New Hires</u>	3	8	5

\* Large decrease in regular employees due to early retirement program.

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

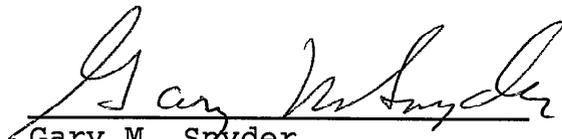
SACRAMENTO VALLEY FOUR BASIN INDEX\*

The December 1, 1994 DWR forecast of the Four Basin Index is 15.0 million acre-feet,, assuming median conditions for the remainder of the water year. According to State Water Resources Control Board Decision 1485, this forecast classifies the water year as Below Normal\*\*.

- \* Forecast of the total unimpaired runoff in the Sacramento, Feather, Yuba, and American River basins--the principal Delta inflow sources. Forecasts are made by DWR December through May.
- \*\* Previous-year conditions impact current-year classifications.

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The Metropolitan Water District of Southern California

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

November 1994

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
<b>Number of Contracts</b>	15	1
<b>Total Bid Amount of Contracts in Progress</b>	\$ 184,056,221	\$ 6,670,000
<b>Number of Contracts Awarded this Month</b>	1	0
<b>Total Bid Amount of Contracts Awarded this Month</b>	4,095,000	0
<b>Contract Gross Earnings this Month</b>	4,392,454	0

Contract No. 1435, in the amount of \$4,095,000, was awarded to J. F. Shea Company, Inc., to repair and modify Metropolitan's Newhall Tunnel, damaged during the January 17, 1994, Northridge earthquake and subsequent aftershocks.

No construction contracts were completed this month.

No procurement contracts were awarded or completed this month.

A tabular summary of current construction contracts is included on pages 4 and 5 of this report. Details of the status of current construction contracts are shown on pages 8 through 22 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 6 of this report.

A tabular summary of procurement contracts is included on page 7 of this report.

<u>DESCRIPTION</u>	<u>PAGE</u>
Summary of Construction Contracts .....	4-5
Summary of Construction Contracts Completed During the Month .....	6
Summary of Procurement Contracts .....	7
Jensen Plant Expansion No. 1 Spec. No. 1200--Contract No. 1393 .....	8
Jensen Plant Expansion No. 1 Chlorination System Spec. No. 1283--Contract No. 1425. ....	9
Floating Cover for the Jensen Finished Water Reservoir No. 2 Spec. No. 1259--Contract No. 1429. ....	10
Jensen Reservoir No. 1 Effluent Conduit Earthquake Repair Spec. No. 1303--Contract No. 1433. ....	11
Henry J. Mills Filtration Plant Expansion No. 2 Spec. No. 1238A--Contract No. 1418 .....	12
Completion of Domenigoni Valley Reservoir High-Water Road Spec. No. 1284--Contract No. 1426. ....	13
Field Office at Domenigoni Valley Reservoir Site Spec. No. 1264--Contract No. 1421. ....	14
Domenigoni Valley Reservoir Temporary Visitor Center Spec. No. 1265--Contract No. 1424 .....	15
Demolition of Portions of the San Diego Canal Spec. No. 1286--Contract No. 1428 .....	16
Calabasas Feeder Relocation Spec. No. 1271--Contract No. 1422 .....	17
Cathodic Protection System for West Coast Feeder Spec. No. 1269--Contract No. 1423 .....	18
Seismic Upgrade of CRA Pump House Buildings Spec. No. 1227--Contract No. 1427. ....	19
Furnish Corrugated Structural Steel Pipe Spec. No. 1297--Contract No. 1430 .....	20

# CONTENTS

<u>DESCRIPTION</u>	<u>PAGE</u>
Electrolysis Monitoring Stations at Metro Green Line Crossings Spec. No. 1289--Contract No. 1431 .....	21
Newhall Tunnel Repair of Earthquake Damage Spec. No. 1304--Contract No. 1435 .....	22

## 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	\$404,508	\$105,291,770	9/05/91	10/25/94	12/94	99	100
1425	1283	Jensen Plant Expansion No. 1 Chlorination System	Pascal & Ludwig Engineers	872,000	50,050	50,050	09/09/94	03/20/95	03/95	6	30
1429	1259	Floating Cover for the Jensen Finished Water Reservoir No. 2	Serrot Corporation	817,000	0	0	10/31/94	03/22/95	03/95	0	0
1433	1303	Jensen Reservoir No. 1 Effluent Conduit Earthquake Repair	Advanco Constructors, Inc.	563,121	96,000	96,000	11/18/94	04/05/95	04/95	17	1
1418	1238A	Henry J. Mills Filtration Plant Expansion No. 2	M. A. Mortenson Company	69,943,000	3,266,362	26,120,588	10/07/93	10/01/96	10/96	37	38
1421	1264	Field Office at Domenigoni Valley Reservoir Site	Inland Asphalt and Coating and Space Leasing Co., Inc., a Joint Venture	1,232,351	9,457	1,295,447	01/06/94	08/22/94	12/94	99	100
1426	1284	Completion of Domenigoni Valley Reservoir High-Water Road	Calex Engineering Company	692,600	120,373	285,914	08/25/94	03/31/95	03/95	41	42
1424	1265	Domenigoni Valley Reservoir Temporary Visitor Center	Wakeham-Baker, Inc.	420,420	0	124,925	06/24/94	02/13/95	02/95	30	65
1428	1286	Demolition of Portions of the San Diego Canal	Iconco, Inc.	591,235	251,430	251,430	10/21/94	02/16/95	02/95	43	30
1422	1271	Calabasas Feeder Relocation	Pascal & Ludwig Engineers	\$1,230,000	\$93,079	\$93,079	04/12/94	11/29/94	12/94	7	100
1423	1269	Cathodic Protection System for West Coast Feeder	American Construction and Supply, Inc.	295,033	73,933	211,658	07/11/94	12/01/94	12/94	72	96

## 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
1427	1227	Seismic Upgrade of CRA Pump House Buildings	J.W. Contracting Corporation	1,198,000	27,262	114,785	08/22/94	09/29/95	09/95	10	23
1430	1297	Furnish Corrugated Structural Steel Pipe	Contech Construction Products, Inc.	84,998	0	0	11/16/94	04/05/95	04/95	0	0
1431	1289	Electrolysis Monitoring Stations at Metro Green Line Crossings	American Construction and Supply, Inc.	35,463	0	0	11/28/94	04/05/95	04/95	0	0
1435	1304	Newhall Tunnel Repair of Earthquake Damage	J. F. Shea Company, Inc.	4,095,000 est.	0	0	11/22/94	04/22/95	04/95	0	0

Form 42-18 12-82

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

SUMMARY OF CONSTRUCTION CONTRACTS COMPLETED THIS MONTH

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

NOTE: There were no construction contracts completed by the various prime contractors, or accepted by Metropolitan personnel during the month of November 1994.

Form 42-10 12-74

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

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

## THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

**SUMMARY OF PROCUREMENT CONTRACTS**

<b>Cont. No.</b>	<b>Spec. No.</b>	<b>Equipment or Material</b>	<b>Contractor</b>	<b>Contract Price</b>	<b>Earnings This Month</b>	<b>Earnings To Date</b>	<b>Starting Date</b>	<b>Delivery Date</b>	<b>Remarks</b>
1396	1207	Four Computer-Based Control Systems	JWP Controls	\$6,670,000	0	\$1,188,360	3/12/92	—	

The Metropolitan Water District of Southern California  
**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Joseph Jensen Filtration Plant--Expansion No. 1		
<b>CONTRACTOR</b>	Hyman/JWP West, A Joint Venture		
<b>SPECIFICATIONS NO.</b>	1200	<b>BID</b>	\$ 101,986,000
<b>CONTRACT NO.</b>	1393	<b>EXTRA WORK TO DATE</b>	1,344,104
<b>CONTRACT STARTING DATE</b>	September 5, 1991	<b>EARNINGS THIS MONTH</b>	404,508
<b>CONTRACT COMPLETION DATE</b>	October 25, 1994	<b>EARNINGS TO DATE</b>	105,291,770
<b>ESTIMATED COMPLETION DATE</b>	December 1994	<b>ESTIMATED PERCENT COMPLETE</b>	99
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

### 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

The contractor continued forming operations for concrete pipeway cast-in-place lids, the Module No. 3 overflow pipeline discharge structure, and the main effluent conduit tie-in. Concrete repair work continued in the Module No. 3 filters and basins, concrete pipeway, and in structures within Finished Water Reservoir No. 2.

Installation of the polymer feed system continued at the dry polymer building. Backfilling of the Module No. 3 and Finished Water Reservoir No. 2 overflow pipelines continued.

Installation of conduit, pull boxes, light fixtures, embedded conduit, and ground wire continued in the dry polymer building. Installation of wiring continued in miscellaneous structures throughout the site.

Installation and backwashing of filter media in the filters of Module No. 3 was essentially completed.

The contractor completed equipment start-up testing of Traveling Bridge No. 12 in Module No. 3.

The painting subcontractor continued coating miscellaneous metals, piping, handrails, and mechanical equipment in Module No. 3 and the dry polymer building.

# MONTHLY CONSTRUCTION PROGRESS REPORT

November 1994

<b>CONSTRUCTION OF</b>	Joseph Jensen Filtration Plant Expansion No. 1 Chlorination System		
<b>CONTRACTOR</b>	Pascal & Ludwig Engineers		
<b>SPECIFICATIONS NO.</b>	1283	<b>BID</b>	\$ 872,000
<b>CONTRACT NO.</b>	1425	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	September 9, 1994	<b>EARNINGS THIS MONTH</b>	50,050
<b>CONTRACT COMPLETION DATE</b>	March 20, 1995	<b>EARNINGS TO DATE</b>	50,050
<b>ESTIMATED COMPLETION DATE</b>	March 1995	<b>ESTIMATED PERCENT COMPLETE</b>	6
		<b>PERCENT CONTRACT TIME ELAPSED</b>	30

## SCOPE OF WORK

Construction of a new chlorine building to house chlorinators and evaporators, piping penetration through the existing influent cross tunnel, a pipe trench for chlorine gas vacuum lines, sitework piping, mechanical equipment, electrical work, and appurtenant work for the Joseph Jensen Filtration Plant at 13100 Balboa Boulevard, Granada Hills, California.

## CONSTRUCTION PROGRESS

Asphalt pavement was cut and removed to the limits shown on the drawings.

Excavation for the temporary line relocation and the new chemical trench began.

Installation and testing of the temporary service water, potable water, air, and liquid chlorine lines was completed.

# MONTHLY CONSTRUCTION PROGRESS REPORT

November 1994

<b>CONSTRUCTION OF</b>	Floating Cover for the Jensen Finished Water Reservoir No. 2		
<b>CONTRACTOR</b>	Serrot Corporation		
<b>SPECIFICATIONS NO.</b>	1259	<b>BID</b>	\$ 817,000
<b>CONTRACT NO.</b>	1429	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	October 31, 1994	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	March 22, 1995	<b>EARNINGS TO DATE</b>	0
<b>ESTIMATED COMPLETION DATE</b>	March 1995	<b>ESTIMATED PERCENT COMPLETE</b>	0
		<b>PERCENT CONTRACT TIME ELAPSED</b>	0

## SCOPE OF WORK

Construction of approximately 350,000 square feet of Hypalon floating cover and appurtenant work for the newly constructed Finished Water Reservoir No. 2 at the Joseph Jensen Filtration Plant located at 13100 Balboa Boulevard, Granada Hills, California.

## CONSTRUCTION PROGRESS

The contractor received its Notice to Proceed on October 28, 1994, and began submitting information on materials and procedures proposed for use in the work.

# MONTHLY CONSTRUCTION PROGRESS REPORT

November 1994

CONSTRUCTION OF	Jensen Reservoir No. 1 Effluent Conduit Earthquake Repair		
CONTRACTOR	Advanco Constructors, Inc.		
SPECIFICATIONS NO.	1303	BID	\$ 563,121
CONTRACT NO.	1433	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	November 18, 1994	EARNINGS THIS MONTH	96,000
CONTRACT COMPLETION DATE	April 5, 1995	EARNINGS TO DATE	96,000
ESTIMATED COMPLETION DATE	April 1995	ESTIMATED PERCENT COMPLETE	17
		PERCENT CONTRACT TIME ELAPSED	1

## SCOPE OF WORK

Excavate, demolish, and dispose of approximately 55 feet of 10-foot by 12-foot existing reinforced concrete conduit damaged during the January 1994 Northridge earthquake; and reconstruct a new reinforced concrete conduit of the same dimensions at the Jensen Reservoir No. 1 effluent conduit.

## CONSTRUCTION PROGRESS

The contractor mobilized its forces and began installing shoring in preparation for excavation of the effluent conduit.

# MONTHLY CONSTRUCTION PROGRESS REPORT

November 1994

<b>CONSTRUCTION OF</b>	Henry J. Mills Filtration Plant Expansion No. 2		
<b>CONTRACTOR</b>	M. A. Mortenson Company		
<b>SPECIFICATIONS NO.</b>	1238A	<b>BID</b>	\$ 69,943,000
<b>CONTRACT NO.</b>	1418	<b>EXTRA WORK TO DATE</b>	51,043
<b>CONTRACT STARTING DATE</b>	October 7, 1993	<b>EARNINGS THIS MONTH</b>	3,266,362
<b>CONTRACT COMPLETION DATE</b>	October 1, 1996	<b>EARNINGS TO DATE</b>	26,120,588
<b>ESTIMATED COMPLETION DATE</b>	October 1996	<b>ESTIMATED PERCENT COMPLETE</b>	37
		<b>PERCENT CONTRACT TIME ELAPSED</b>	38

## SCOPE OF WORK

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

## CONSTRUCTION PROGRESS

Forming operations and placing concrete continued for the filters in Modules Nos. 3 and 4, Line No. 912, emergency generator building, electrical equipment buildings, influent line to Reservoir No. 2, and the 8' x 8' box conduit. Concrete placements for the walls and slab at the Reclaimed Washwater Pump Station and for slabs at the Reclamation Basins continued. Concrete placement for the weir walls at the Reclamation Basins was completed. Installation of reinforcing steel continued for Modules Nos. 3 and 4, as well as at various miscellaneous structures.

Blasting operations were in progress at various locations throughout the site. Excavation for chemical tunnels continued in the vicinity of Modules Nos. 1 and 2. Backfilling around the Reclamation Basins weir walls was completed, and continued around the 8' x 8' box conduit. Dewatering of the equalization basin continued.

Installation of large diameter piping at various locations throughout the site continued, including the application of mortar lining. Installation of chemical trench piping continued in the vicinity of Modules Nos. 1 and 2.

Installation of manholes and handholes for electrical ductbanks continued throughout the site, as well as placement of red concrete for various ductbanks.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Completion of Domenigoni Valley Reservoir High-Water Road		
<b>CONTRACTOR</b>	Calex Engineering Company		
<b>SPECIFICATIONS NO.</b>	1284	<b>BID</b>	\$ 692,600
<b>CONTRACT NO.</b>	1426	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	August 25, 1994	<b>EARNINGS THIS MONTH</b>	120,373
<b>CONTRACT COMPLETION DATE</b>	March 31, 1995	<b>EARNINGS TO DATE</b>	285,914
<b>ACTUAL COMPLETION DATE</b>	March 1995	<b>ESTIMATED PERCENT COMPLETE</b>	41
		<b>PERCENT CONTRACT TIME ELAPSED</b>	42

**SCOPE OF WORK**

Time and material contract to complete sections of an existing high-water road in the Domenigoni Valley along mountainous terrain, requiring cutting the mountain slope to create a road and placing fill to stabilize the road embankment located in Hemet, California.

**CONSTRUCTION PROGRESS**

The contractor continued cutting the high-water road east of the Domenigoni Valley Reservoir (DVR) saddle dam, and began cutting the road near the south abutment of the DVR east dam. The contractor completed 5,835 feet of high-water road this period.

An access road was cut from the north range high-water road to Newport Road; two access roads were constructed from the south range high-water road to Newport Road.

The contractor began backfilling excavations for the archeological consultant. An earthen berm was constructed to prevent siltation of Darlene Lane.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Field Office at Domenigoni Valley Reservoir Site		
<b>CONTRACTOR</b>	Inland Asphalt and Coating, and Leasing Co., Inc., a Joint Venture		
<b>SPECIFICATIONS NO.</b>	1264	<b>BID</b>	\$1,232,351
<b>CONTRACT NO.</b>	1421	<b>EXTRA WORK TO DATE</b>	65,009
<b>CONTRACT STARTING DATE</b>	January 6, 1994	<b>EARNINGS THIS MONTH</b>	9,457
<b>CONTRACT COMPLETION DATE</b>	August 22, 1994	<b>EARNINGS TO DATE</b>	1,295,447
<b>ESTIMATED COMPLETION DATE</b>	December 1994	<b>ESTIMATED PERCENT COMPLETE</b>	99
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

**SCOPE OF WORK**

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

**CONSTRUCTION PROGRESS**

The contractor completed punchlist work for the modular office building.

Erection of the core storage building was completed. Metropolitan accepted the building on November 10, 1994.

The plumbing subcontractor completed the piping and wiring for the hydro-pneumatic booster pump station. Support steel for the pump station roof was erected and painted, and the roof decking was installed.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Domenigoni Valley Reservoir Temporary Visitor Center		
<b>CONTRACTOR</b>	Wakeham-Baker, Inc.		
<b>SPECIFICATIONS NO.</b>	1265	<b>BID</b>	\$420,420
<b>CONTRACT NO.</b>	1424	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	June 24, 1994	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	February 13, 1995	<b>EARNINGS TO DATE</b>	124,925
<b>ESTIMATED COMPLETION DATE</b>	February 1995	<b>ESTIMATED PERCENT COMPLETE</b>	30
		<b>PERCENT CONTRACT TIME ELAPSED</b>	65

**SCOPE OF WORK**

Design, fabrication, and installation of a modular building (commercial coach) including all plumbing, electrical, HVAC, and appurtenances. Work also involves sitework, foundation, earthwork, parking lot, septic system, trash enclosure, and water, electrical, and telephone lines all located on Newport Road, seven miles east on Highway 79 in the City of Hemet, California.

**CONSTRUCTION PROGRESS**

Due to the contractor's inability to obtain submittal approval, no work was performed this period.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	San Diego Canal Demolition Station 702+20± to Station 782+84±		
<b>CONTRACTOR</b>	Iconco, Inc.		
<b>SPECIFICATIONS NO.</b>	1286	<b>BID</b>	\$591,235
<b>CONTRACT NO.</b>	1428	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	October 21, 1994	<b>EARNINGS THIS MONTH</b>	251,430
<b>CONTRACT COMPLETION DATE</b>	February 16, 1995	<b>EARNINGS TO DATE</b>	251,430
<b>ESTIMATED COMPLETION DATE</b>	February 1995	<b>ESTIMATED PERCENT COMPLETE</b>	43
		<b>PERCENT CONTRACT TIME ELAPSED</b>	30

**SCOPE OF WORK**

Demolishing, removing, and disposing of concrete lining, two pipeline siphons, two box conduit siphons, a service connection structure, and other related work on the San Diego Canal at Domenigoni Valley near Hemet, California.

**CONSTRUCTION PROGRESS**

Mobilization began at the site. The contractor removed the chain link fence surrounding the perimeter of the canal.

Demolition of the canal lining began. The contractor constructed a haul road to the designated dump site, and started hauling waste materials.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Calabasas Feeder Relocation Station 471+86 to Station 482+89.23		
<b>CONTRACTOR</b>	Pascal & Ludwig Engineers		
<b>SPECIFICATIONS NO.</b>	1271	<b>BID</b>	\$1,230,000
<b>CONTRACT NO.</b>	1422	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	April 12, 1994	<b>EARNINGS THIS MONTH</b>	93,079
<b>CONTRACT COMPLETION DATE</b>	November 29, 1994	<b>EARNINGS TO DATE</b>	93,079
<b>ESTIMATED COMPLETION DATE</b>	December 1994	<b>ESTIMATED PERCENT COMPLETE</b>	7
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

**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**

Mobilization of office trailers was completed. The contractor began drilling and setting piles for the jacking pit and potholing for utilities.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Cathodic Protection System for West Coast Feeder		
<b>CONTRACTOR</b>	American Construction and Supply, Inc.		
<b>SPECIFICATIONS NO.</b>	1269	<b>BID</b>	\$ 295,033
<b>CONTRACT NO.</b>	1423	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	July 11, 1994	<b>EARNINGS THIS MONTH</b>	73,933
<b>CONTRACT COMPLETION DATE</b>	December 1, 1994	<b>EARNINGS TO DATE</b>	211,658
<b>ESTIMATED COMPLETION DATE</b>	December 1994	<b>ESTIMATED PERCENT COMPLETE</b>	72
		<b>PERCENT CONTRACT TIME ELAPSED</b>	96

**SCOPE OF WORK**

Furnish and install deep-well anode ground-bed cathodic protection stations at seven sites along the existing West Coast Feeder pipeline in the cities of Los Angeles, South Gate, Lynwood, Compton, and Hawthorne, all in Los Angeles County.

**CONSTRUCTION PROGRESS**

Drilling and backfilling of the anode well at Sites Nos. 1 and 3 were completed. Installation of all underground conduits and wiring was completed at Site No. 3.

Installation of rectifier cabinets was completed at Sites Nos. 2, 3, 4, and 7. Installation of the AC meter pedestals was completed at Sites Nos. 2, 3, 4, 6, and 7.

Final asphalt patching was completed at Site No. 7.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Seismic Upgrade of CRA Pump House Buildings		
<b>CONTRACTOR</b>	J. W. Contracting Corporation		
<b>SPECIFICATIONS NO.</b>	1227	<b>BID</b>	\$1,198,000
<b>CONTRACT NO.</b>	1427	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	August 22, 1994	<b>EARNINGS THIS MONTH</b>	27,262
<b>CONTRACT COMPLETION DATE</b>	September 29, 1995	<b>EARNINGS TO DATE</b>	114,785
<b>ESTIMATED COMPLETION DATE</b>	September 1995	<b>ESTIMATED PERCENT COMPLETE</b>	10
		<b>PERCENT CONTRACT TIME ELAPSED</b>	23

**SCOPE OF WORK**

Construction of modifications to three existing pumping plant buildings for improved seismic resistance consisting of furnishing and installing reinforced concrete buttresses, and appurtenant work at Eagle Mountain, Hinds, and Iron Mountain pumping plants.

**CONSTRUCTION PROGRESS**

The contractor continued sandblasting of exterior walls to obtain the required profile to join new concrete to existing concrete at the buttresses. Sandblasting was completed below grade and above grade at Buttresses Nos. 2, 3, 4, and 13.

Installation of Hilti anchor rods with resin was completed at Buttresses Nos. 8 and 9.

Core drilling at Buttresses Nos. 3 through 7 and for the 1-1/2" and 5" diameter holes in the interior walls was completed. Core drilling from the exterior through the wall to the interior for installation of the 4" x 8" x 1" steel angles began.

The storm water construction and protection plan for Metropolitan's utility pipe and substructures support systems was implemented by the contractor.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Furnish Corrugated Structural Steel Pipe		
<b>CONTRACTOR</b>	Contech Construction Products, Inc.		
<b>SPECIFICATIONS NO.</b>	1297	<b>BID</b>	\$84,998
<b>CONTRACT NO.</b>	1430	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	November 16, 1994	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	April 5, 1995	<b>EARNINGS TO DATE</b>	0
<b>ESTIMATED COMPLETION DATE</b>	April 1995	<b>ESTIMATED PERCENT COMPLETE</b>	0
		<b>PERCENT CONTRACT TIME ELAPSED</b>	0

**SCOPE OF WORK**

Furnish approximately 350 feet of 174-inch diameter corrugated steel for structural plate pipe with coal-tar epoxy coating, including all accessory fittings to be delivered to Winchester, California.

**CONSTRUCTION PROGRESS**

The Notice to Proceed was mailed to the contractor on November 14, 1994.

No field work has been started to date.

The Metropolitan Water District of Southern California

**MONTHLY CONSTRUCTION PROGRESS REPORT**

November 1994

<b>CONSTRUCTION OF</b>	Electrolysis Monitoring Stations at Metro Green Line Crossings		
<b>CONTRACTOR</b>	American Construction Supply, Inc.		
<b>SPECIFICATIONS NO.</b>	1289	<b>BID</b>	\$35,463
<b>CONTRACT NO.</b>	1431	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	November 28, 1994	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	April 5, 1995	<b>EARNINGS TO DATE</b>	0
<b>ESTIMATED COMPLETION DATE</b>	April 1995	<b>ESTIMATED PERCENT COMPLETE</b>	0
		<b>PERCENT CONTRACT TIME ELAPSED</b>	0

**SCOPE OF WORK**

Construction of electrolysis monitoring stations at Metro Green Line Crossings located within the cities of Los Angeles, Paramount, Lynwood, Hawthorne, and Downey, California.

**CONSTRUCTION PROGRESS**

The Notice to Proceed was mailed to the contractor on November 22, 1994.

No field work has been started to date.

The Metropolitan Water District of Southern California

## MONTHLY CONSTRUCTION PROGRESS REPORT

November 1994

CONSTRUCTION OF	Newhall Tunnel Repair of Earthquake Damage		
CONTRACTOR	J. F. Shea Company, Inc.		
SPECIFICATIONS NO.	1304	BID	\$4,095,000 est.
CONTRACT NO.	1435	EXTRA WORK TO DATE	0
CONTRACT STARTING DATE	November 22, 1994	EARNINGS THIS MONTH	0
CONTRACT COMPLETION DATE	April 22, 1995	EARNINGS TO DATE	0
ESTIMATED COMPLETION DATE	April 1995	ESTIMATED PERCENT COMPLETE	0
		PERCENT CONTRACT TIME ELAPSED	0

### SCOPE OF WORK

Repair and modify Metropolitan's Newhall Tunnel, damaged during the January 17, 1994, Northridge earthquake and subsequent aftershocks.

### CONSTRUCTION PROGRESS

The contract was awarded by the General Manager.

The Notice to Proceed was mailed to the contractor on November 18, 1994.