



**MWD**

*METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA*

December 28, 1992

*To:* Board of Directors  
*From:* General Manager  
*Subject:* Construction Supplement for Operating Data Report Dated  
December 22, 1992

Attached is the Construction Supplement for the Operating Data Report dated December 22, 1992. This should be placed behind the Operating Data Report that was in your original mailing.

*for*   
for Carl Boronkay

JEF:atr  
(mem:opdata-12282)

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

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

November 1992

SUMMARY OF PROGRESS

	<u>Construction Contracts</u>	<u>Procurement Contracts</u>
<b>Number of Contracts</b>	15	3
<b>Total Bid Amount of Contracts in Progress</b>	\$ 146,717,363	\$ 10,189,978
<b>Number of Contracts Awarded this Month</b>	0	0
<b>Total Bid Amount of Contracts Awarded this Month</b>	0	0
<b>Contract Gross Earnings this Month</b>	8,128,681	0

There were two construction contracts completed during the month of November 1992. Contract No. 1380, covering Site Preparations for the Jensen Filtration Plant Expansion No. 1, was completed by the prime contractor, C. A. Rasmussen, Inc., and accepted by District forces on November 5, 1992. Contract No. 1373 covering the Removal and Replacement of Underground Tanks--Phase 3, Schedules I and II, was completed by the prime contractor Long and Company Environmental and accepted by the District on November 17, 1992.

There were no construction contracts awarded during the month of November 1992, by the Board of Directors or the General Manager.

A tabular summary of current construction contracts is included as pages 3 and 4 of this report. Details of the status of current construction contracts are shown on pages 7 through 21 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.

There were no procurement contracts awarded or completed during the month of November 1992.

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
1408	1230	Etiwanda Power Plant	Advanco Constructors	\$ 3,820,000	\$ 150,000	\$ 745,577	8/28/92	11/3/93	11/93	20	20
1293	1200	Joseph Jensen Filtration Plant Expansion No. 1	Hyman/JWP West, A Joint Venture	101,986,000	5,055,322	33,835,274	9/05/91	8/31/94	8/94	33	39
1397	1225	Service Connection LA-35	Dillingham Construction N.A., Inc.	4,246,000	449,473	3,130,314	11/13/91	12/08/92	3/93	73	98
1410	1237	Site Preparation for Henry J. Mills Filtration Plant for Expansion No. 2	Kiewit Pacific Company	15,219,400	1,678,640	2,827,225	10/06/92	09/30/93	9/93	19	15
1411	1192 A	Maintenance Building and Operations Building Annex at Mills Plant	Tilden-Coil Constructors, Inc.	2,569,690	202,794	417,744	10/14/92	06/30/93	6/93	16	17
1402	1241	Property Fencing at Henry J. Mills Filtration Plant	Anchor Fence, PPA Industries, Inc.	469,000	48,030	325,471	05/24/92	10/22/92	11/92	69	100
1404	1243	Roofing Renovation of Soto Street Maintenance Center Buildings	Pacific Southwest Roofing, Inc.	\$ 73,399	\$ 2,201	\$ 71,930	6/23/92	9/16/92	11/92	98	100
1405	1229	Modification to Domestic Water System at La Verne Facilities	A. S. Peich, Inc.	283,110	50,000	50,000	8/19/92	1/13/93	1/93	18	68
1406	1224	Modification to Ventilation Hood System at Water Quality Laboratory	Sanders Engineering Co., Inc.	227,887	0	46,192	8/25/92	1/6/93	1/93	20	47
1409	1244	Roofing Renovation Work at Carbon Creek Pressure Control Structure	Pacific Southwest Roofing, Inc.	34,785	0	0	11/12/92	02/09/93	02/93	0	02

THE METROPOLITAN WATER DISTRICT  
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**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
1407	1249 A	Replacement Roofing for Softener Building No. 3 at Weymouth Plant	Letner Roofing Company, Inc.	108,245	\$ 86,596	\$ 86,596	9/25/92	10/22/92	01/93	80	100
1413	1260	Vegetation Clearing at Domenigoni Valley Reservoir	Kiewit Pacific Company	750,000	405,625	405,625	10/01/92	1/31/93	1/93	60	50
1412	1256	Replace Roofing for Skinner Plant Administration Building	J. Cab and Sons Roofing, Inc.	63,621	0	0	11/23/92	12/22/92	12/92	0	0

THE METROPOLITAN WATER DISTRICT  
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**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>
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	
1396	1207	Four Computer-Based Control Systems	JWP Controls	6,670,000	-	753,727	3/12/92	—	
1403	1240	Nine Hydrofoil Flocculators for Jensen Expansion No. 1	Chemineer, Inc.	249,000	—	—	6/02/92	1/27/93	

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
1199	1380	Site Preparation for Jensen Plant Expansion No. 1	C. A. Rasmussen, Inc.	\$ 16,251,954	\$ 18,020,316	11/05/92	11/13/92	12/18/92
1194	1373	Remove and Replace Underground Tanks--Phase 3, Schedules I and II	Long & Company Environmental	634,999	990,000	11/17/92	-	-

**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
1375	1178	Washwater Reclamation Expansion at Diemer	Kaweah Construction Company	6,715,000	8,500,000	9/23/92	10/13/92	11/17/92*

\* Final payment pending settlement of various claims and credits

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Etiwanda Power Plant		
<b>CONTRACTOR</b>	Advanco Constructors		
<b>SPECIFICATIONS NO.</b>	1230	<b>BID</b>	\$ 3,820,000
<b>CONTRACT NO.</b>	1408	<b>EXTRA WORK TO DATE</b>	0
	<b>CONTRACT STARTING</b>	<b>EARNINGS THIS MONTH</b>	150,000
<b>DATE</b>	August 31, 1992	<b>EARNINGS TO DATE</b>	745,577
<b>CONTRACT COMPLETION DATE</b>	November 4, 1993	<b>ESTIMATED PERCENT COMPLETE</b>	20
<b>ESTIMATED COMPLETION DATE</b>	November 1993	<b>PERCENT CONTRACT TIME ELAPSED</b>	20

**SCOPE OF WORK**

Construction of a power plant with a 25,200 kVA A.C. generator, maintenance building, a switchyard, and all appurtenant work located near the intersection of Arrow Highway and Etiwanda Avenue in the City of Rancho Cucamonga, California, Riverside County.

**CONSTRUCTION PROGRESS**

Erection of forms and placement of reinforcing steel and concrete were continued for various portions of the powerhouse, footings for the maintenance building, and the trash and pump discharge outlet structure. Placement of concrete and sealant for the cross drain in the landscape drainage area was completed during the month.

Installation of underground plumbing for the maintenance building, various yard piping runs, and storm drain connection lines were started during the month.

Installation of the discharge pit liner was completed during the month. Installation of the wheel pit liner and the spiral case was in progress throughout the month. Additional Metropolitan-furnished equipment was also delivered to the jobsite.

Installation of electrical duct banks and metering cabinets was in progress for the trash and pump station structure. Placement of red concrete and backfill material throughout the jobsite for previously installed electrical duct banks was continued.

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



The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<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>	1,998
<b>CONTRACT STARTING DATE</b>	September 5, 1991	<b>EARNINGS THIS MONTH</b>	5,055,322
<b>CONTRACT COMPLETION DATE</b>	August 31, 1994	<b>EARNINGS TO DATE</b>	33,835,274
<b>ESTIMATED COMPLETION DATE</b>	August 1994	<b>ESTIMATED PERCENT COMPLETE</b>	33
		<b>PERCENT CONTRACT TIME ELAPSED</b>	39

**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 Filter Modules Nos. 2 and 3, Washwater Reclamation Plant No. 2, Finished Water Reservoir No. 2 and various other structures. Approximately 7297 cubic yards of concrete was placed during the month of November 1992.

Installation of the subdrain system continued in Filter Module No. 3 and Finished Water Reservoir No. 2.

Installation of conduits, embedded conduit supports, and ground wire continued for Filter Modules Nos. 2 and 3 and for the Washwater Reclamation facilities. Installation of site electrical duct banks, manholes, and the temporary power system continued.

Preparations for paving the subgrade in Finished Water Reservoir No. 2 were in progress throughout the month. Placement of crushed rocks for subgrade of Filter Module Basins was also continued throughout the month.

Contractor personnel, including employees of subcontractors, averaged 256 persons during the month of November 1992.

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MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Site Preparation for the Joseph Filtration Plant Expansion No. 1		
<b>CONTRACTOR</b>	C. A. Rasmussen, Inc.		
<b>SPECIFICATIONS NO.</b>	1199	<b>BID</b>	\$ 16,251,954
<b>CONTRACT NO.</b>	1380	<b>EXTRA WORK TO DATE</b>	1,887,833
<b>CONTRACT STARTING DATE</b>	December 3, 1990	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	November 6, 1992	<b>EARNINGS TO DATE</b>	18,020,316
<b>ACTUAL COMPLETION DATE</b>	November 5, 1992	<b>ESTIMATED PERCENT COMPLETE</b>	100
		<b>PERCENT CONTRACT TIME ELAPSED</b>	98

**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**

All work required under the contract was completed by the contractor, C. A. Rasmussen, Inc., and accepted by District forces on November 5, 1992.

The Notice of Completion was recorded by the Los Angeles County Recorder on November 13, 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Service Connection LA-35		
<b>CONTRACTOR</b>	Dillingham Construction N.A., Inc.		
<b>SPECIFICATIONS NO.</b>	1225	<b>BID</b>	\$ 4,246,000
<b>CONTRACT NO.</b>	1397	<b>EXTRA WORK TO DATE</b>	42,050
<b>CONTRACT STARTING DATE</b>	November 13, 1991	<b>EARNINGS THIS MONTH</b>	449,473
<b>CONTRACT COMPLETION DATE</b>	December 8, 1992	<b>EARNINGS TO DATE</b>	3,130,314
<b>ESTIMATED COMPLETION DATE</b>	March 1993	<b>ESTIMATED PERCENT COMPLETE</b>	73
		<b>PERCENT CONTRACT TIME ELAPSED</b>	98

**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**

Erection of forms and placement of reinforcing steel and concrete were in progress throughout the month for various portions of acoustic flowmeter structure, turnout structure, discharge structure, the chemical injection manhole structure, and for the encasement of the 91-inch-diameter pipe across San Fernando Creek.

Approximately 417 lineal feet of 91-inch-diameter steel pipe line was installed, pipe joints welded, and joints sleeves wrapped with heat-shrunk polyethylene.

Backfill operations were continued at the wye branch encasement, around the turnout structure, and along the 91-inch-diameter pipeline in the area of the transition structure.

Forces from Mobile Oil removed a section of existing 10-inch oil line within the San Fernando Creek to eliminate interference with encasement of the District's 91-inch-diameter pipeline.

Contractor personnel, including employees of subcontractors, averaged 26 persons during the month of November 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Site Preparation for Henry J. Mills Filtration Plant Expansion No. 2		
<b>CONTRACTOR</b>	Kiewit Pacific Company		
<b>SPECIFICATIONS NO.</b>	1237	<b>BID</b>	\$ 15,219,400
<b>CONTRACT NO.</b>	1410	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	October 6, 1992	<b>EARNINGS THIS MONTH</b>	1,678,640
<b>CONTRACT COMPLETION DATE</b>	September 30, 1993	<b>EARNINGS TO DATE</b>	2,827,225
<b>ESTIMATED COMPLETION DATE</b>	September 1993	<b>ESTIMATED PERCENT COMPLETE</b>	19
		<b>PERCENT CONTRACT TIME ELAPSED</b>	15

**SCOPE OF WORK**

Excavation, installation of District - furnished equipment including large diameter pipe, remove and install pipelines, site preparation and grading, construction of an under drain system, and other appurtenances work for Expansion No. 2 of the Henry J. Mills Filtration Plant at 550 East Allesandro Boulevard, Riverside, California.

**CONSTRUCTION PROGRESS**

Trench excavation and pipe laying operations were completed for the expansion of the influent pipeline. Field welding of pipe section joints is now in progress. Trench excavation was started for the 54-inch-diameter effluent rejection pipeline and the 96-inch-diameter reservoir No. 2 bypass pipeline.

A portion of embankment foundation for reservoir No. 2 was excavated to bedrock and then prepared for placement of embankment fill material. The embankment foundation preparation operations were observed and approved by the State Divisions of Safety of Dams (DSOD). After approval by DSOD, the placement of Zone 1 fill material was started in the prepared foundation area.

Material excavated from the equalization basin area was stockpiled for future use as Zone 1 materials in future reservoir No. 2 and the reclamation basins.

Drilling and blasting operations were started at the site of the future ozonation facility and in the excavation of hard rock located in the northwest corner of future reservoir No. 2.

Contractor personnel, including employees of subcontractors averaged 36 persons during the month of November 1992.

The Metropolitan Water District of Southern California

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MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Maintenance Building and Operations Building Annex at Henry J. Mills Filtration Plant		
<b>CONTRACTOR</b>	Tilden-Coil Constructors, Inc.		
<b>SPECIFICATIONS NO.</b>	1192A	<b>BID</b>	\$ 2,569,690
<b>CONTRACT NO.</b>	1411	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	October 14, 1992	<b>EARNINGS THIS MONTH</b>	202,794
<b>CONTRACT COMPLETION DATE</b>	June 30, 1993	<b>EARNINGS TO DATE</b>	417,744
<b>ESTIMATED COMPLETION DATE</b>	June 1993	<b>ESTIMATED PERCENT COMPLETE</b>	16
		<b>PERCENT CONTRACT TIME ELAPSED</b>	17

**SCOPE OF WORK**

Construction of an approximately 7,700 square foot addition to the existing Operations Building and construction of an approximately 9,600 square foot new Maintenance Building and all appurtenance work located at 550 East Alessandro Boulevard in the City of Riverside, California.

**CONSTRUCTION PROGRESS**

Mobilization operations were continued throughout the month, consisting of installation of the required site perimeter fencing.

Site grading was completed for the future maintenance building foundation. Excavation for maintenance building footings is in progress.

Construction of forms and placement of reinforcing steel and concrete for the maintenance building footings were started during the month.

Required demolition at the existing operations building was continued throughout the month.

Installation of electrical duct banks and telephone lines is in progress at the maintenance building and the existing operations building.

Installation of storm drain system, sewer-lines, and floor drains was started during the month.

Contractor personnel, including employees of subcontractors, averaged 15 persons during the month of November 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Property Fencing at the Henry J. Mills Filtration Plant		
<b>CONTRACTOR</b>	Anchor Fence, PPA Industries, Inc.		
<b>SPECIFICATIONS NO.</b>	1241	<b>BID</b>	\$ 469,000
<b>CONTRACT NO.</b>	1402	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	May 4, 1992	<b>EARNINGS THIS MONTH</b>	48,030
<b>CONTRACT COMPLETION DATE</b>	October 22, 1992	<b>EARNINGS TO DATE</b>	325,471
<b>ESTIMATED COMPLETION DATE</b>	December 1992	<b>ESTIMATED PERCENT COMPLETE</b>	69
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

**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**

Installation of the ornamental wrought iron fencing was completed along the westerly property line except for installation of the required gate and painting of the entire fence.

Repair of paved surfaces curbs, and drains damaged and/or removed during construction operations was completed during the month.

Contractor personnel, including employees of subcontractors, averaged six persons during the month of November 1992.

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MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Remove and Replace Underground Tanks--Phase 3, Schedules I and II		
<b>CONTRACTOR</b>	Long & Company Environmental		
<b>SPECIFICATIONS NO.</b>	1194	<b>BID</b>	\$ 634,999
<b>CONTRACT NO.</b>	1373	<b>EXTRA WORK TO DATE</b>	30,785
<b>CONTRACT STARTING DATE</b>	October 4, 1990	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	April 11, 1991	<b>EARNINGS TO DATE</b>	969,019
<b>ACTUAL COMPLETION DATE</b>	November 17, 1992	<b>ESTIMATED PERCENT COMPLETE</b>	100
		<b>PERCENT CONTRACT TIME ELAPSED</b>	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**

All work required under the contract was completed by the prime contractor Long & Company Environmental and accepted by District forces on November 17, 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Roofing Renovations of the Soto Street Maintenance Center Buildings		
<b>CONTRACTOR</b>	Pacific Southwest Roofing, Inc.		
<b>SPECIFICATIONS NO.</b>	1243	<b>BID</b>	\$ 73,399
<b>CONTRACT NO.</b>	1404	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	June 23, 1992	<b>EARNINGS THIS MONTH</b>	2,201
<b>CONTRACT COMPLETION DATE</b>	September 16, 1992	<b>EARNINGS TO DATE</b>	71,930
<b>ESTIMATED COMPLETION DATE</b>	November 1992	<b>ESTIMATED PERCENT COMPLETE</b>	98
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

**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**

Installation of the sheet metal flashing on the maintenance and administration building roofs was completed during the month.

The contractor is currently working on punch list items associated with the administration building roof.

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



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November 1992

<b>CONSTRUCTION OF</b>	Modification of Domestic Water System at La Verne Facilities		
<b>CONTRACTOR</b>	A. S. Peich, Inc.		
<b>SPECIFICATIONS NO.</b>	1229	<b>BID</b>	\$ 283,110
<b>CONTRACT NO.</b>	1405	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	August 21, 1992	<b>EARNINGS THIS MONTH</b>	50,000
<b>CONTRACT COMPLETION DATE</b>	January 15, 1993	<b>EARNINGS TO DATE</b>	50,000
<b>ESTIMATED COMPLETION DATE</b>	January 1993	<b>ESTIMATED PERCENT COMPLETE</b>	18
		<b>PERCENT CONTRACT TIME ELAPSED</b>	68

**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**

The contractor completed mobilization operation required under the contract consisting primarily of moving equipment, tools, and supplies onto the jobsite.

Field work consisted of verifying the location of various existing utilities and tie-in points by exposing existing lines by excavating as required.

Fabrication of required pipe was continued at the pipe suppliers facilities. Modifications required to accommodate existing conditions are being made during fabrication of the pipe in lieu of during installation operations in order to expedite installation.

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

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CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Modifications to the Ventilation Hood System at Water Quality Laboratory		
<b>CONTRACTOR</b>	Sanders Engineering Company, Inc.		
<b>SPECIFICATIONS NO.</b>	1224	<b>BID</b>	\$ 277,887
<b>CONTRACT NO.</b>	1406	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	August 25, 1992	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	January 6, 1993	<b>EARNINGS TO DATE</b>	46,192
<b>ESTIMATED COMPLETION DATE</b>	January 1993	<b>ESTIMATED PERCENT COMPLETE</b>	20
		<b>PERCENT CONTRACT TIME ELAPSED</b>	47

**SCOPE OF WORK**

Modifications of the existing laboratory fume exhaust system, including removing or modifying existing ducts and ventilating equipment, making necessary structural modifications, furnishing and installing new duct work, mechanical systems, and electrical or control systems, and balancing the installed system at the La Verne Facility Water Quality Laboratory.

**CONSTRUCTION PROGRESS**

There was no field work in progress during the month of November 1992.

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MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Replacement Roofing for Softener Building No. 3 Weymouth Filtration Plant		
<b>CONTRACTOR</b>	Letner Roofing Company, Inc.		
<b>SPECIFICATIONS NO.</b>	1249A	<b>BID</b>	\$ 108,245
<b>CONTRACT NO.</b>	1407	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	September 25, 1992	<b>EARNINGS THIS MONTH</b>	86,596
<b>CONTRACT COMPLETION DATE</b>	October 22, 1992	<b>EARNINGS TO DATE</b>	86,596
<b>ESTIMATED COMPLETION DATE</b>	January 1993	<b>ESTIMATED PERCENT COMPLETE</b>	80
		<b>PERCENT CONTRACT TIME ELAPSED</b>	100

**SCOPE OF WORK**

Remove approximately 22,800 square feet of existing roof to an existing substrate, and replace with a new built-up bituminous roofing system on existing Softener Building No. 3 at Weymouth filtration plant in La Verne, California.

**CONSTRUCTION PROGRESS**

The existing roof material was removed and a new four-ply built-up bituminous roofing system was installed except for placement of surface aggregate and installation of required sheet metal flashing.

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

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Roofing Renovation Work at Carbon Creek Pressure Control Structure		
<b>CONTRACTOR</b>	Pacific Southwest Roofing, Inc.		
<b>SPECIFICATIONS NO.</b>	1244	<b>BID</b>	\$ 34,785
<b>CONTRACT NO.</b>	1409	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	November 12, 1992	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	February 9, 1993	<b>EARNINGS TO DATE</b>	0
<b>ESTIMATED COMPLETION DATE</b>	February 1993	<b>ESTIMATED PERCENT COMPLETE</b>	0
		<b>PERCENT CONTRACT TIME ELAPSED</b>	2

**SCOPE OF WORK**

Removal of approximately 6,800 square feet of existing roofing material and replace with new built-up bituminous system for the District's Carbon Creek Pressure Control Structure located at 299 East La Jolla Avenue, in the City of Anaheim, California.

**CONSTRUCTION PROGRESS**

The contractor received its Notice to Proceed with all work required under the contract on November 9, 1992.

The contractor has submitted certain shop drawings, catalog data, 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

November 1992

<b>CONSTRUCTION OF</b>	Clearing Native Vegetation in Domenigoni Valley		
<b>CONTRACTOR</b>	Kiewit Pacific Company		
<b>SPECIFICATIONS NO.</b>	1260	<b>BID</b>	\$ 750,000
<b>CONTRACT NO.</b>	1413	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	October 1, 1992	<b>EARNINGS THIS MONTH</b>	405,625
<b>CONTRACT COMPLETION DATE</b>	January 31, 1992	<b>EARNINGS TO DATE</b>	405,625
<b>ESTIMATED COMPLETION DATE</b>	January 1992	<b>ESTIMATED PERCENT COMPLETE</b>	60
		<b>PERCENT CONTRACT TIME ELAPSED</b>	50

**SCOPE OF WORK**

Removal of above ground natural vegetation from hillside slopes within the boundaries of approximately 1500 acres of the future Domenigoni Reservoir located in Riverside County.

**CONSTRUCTION PROGRESS**

Clearing of native vegetation along the southerly slopes of the Domenigoni Valley to the future reservoir high water elevation. The proposed borrow area sites were also cleared during the month.

Excavation of an access road located along the southerly slope of Domenigoni Valley at approximate elevation 1780, above the high water elevation, was in progress.

Clearing operations were in progress throughout the month along the northerly slopes of the valley. Removal of vegetation within the designated Stephen's Kangaroo Rat habitat was also in progress throughout the month.

Contractor personnel, including employees of subcontractors, averaged nine persons during the month of November 1992.

The Metropolitan Water District of Southern California

CONSTRUCTION BRANCH

MONTHLY CONSTRUCTION PROGRESS REPORT

November 1992

<b>CONSTRUCTION OF</b>	Replace Roofing for Robert A. Skinner Filtration Plant Administration Building		
<b>CONTRACTOR</b>	J. Cab and Sons Roofing, Inc.		
<b>SPECIFICATIONS NO.</b>	1256	<b>BID</b>	\$ 63,621
<b>CONTRACT NO.</b>	1412	<b>EXTRA WORK TO DATE</b>	0
<b>CONTRACT STARTING DATE</b>	November 23, 1992	<b>EARNINGS THIS MONTH</b>	0
<b>CONTRACT COMPLETION DATE</b>	December 22, 1992	<b>EARNINGS TO DATE</b>	0
<b>ESTIMATED COMPLETION DATE</b>	December 1992	<b>ESTIMATED PERCENT COMPLETE</b>	0
		<b>PERCENT CONTRACT TIME ELAPSED</b>	0

**SCOPE OF WORK**

Remove approximately 11,600 square feet of existing roofing and sheet metal flashing, repair substrate, and furnish and install insulation, built-up roofing, and sheet metal flashing at the Administration Building of Skinner filtration plant, 33740 Borel Road, Winchester, California.

**CONSTRUCTION PROGRESS**

The contractor received its Notice to Proceed with all work required under the contract.

The contractor has submitted shop drawings, specifications, and catalog data sheets for District review and approval.

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