

- Engineering Services Key Activities for the Month of February 2007

Summary

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 - Skinner Water Treatment Plant Expansion No. 4
- Integrated Area Studies
- Supply and Delivery Reliability:
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 - Reservoir Cover Replacement Program
- Infrastructure Reliability:
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 - Diemer Water Treatment Plant Improvements Program
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- Water Quality:
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 - Oxidation Retrofit Programs
- Regulatory:
 - All Facilities – Install Roofs for Chemical Tank Farms
 - Chlorine Containment and Handling Facilities
- Energy Management Program

Attachments

Monthly Progress Report of Construction and Procurement Contracts for January 2007.

Detailed Report

This report details key engineering activities for the month February 2007.

Recent Events:

Rialto Pipeline Improvements Program: The Rialto Pipeline shutdown began on Monday, February 5, 2007 and concluded on Sunday, February 11, 2007. Construction of valve vaults and installation of new pipe sections were completed as part of a program to construct two new isolation structures. This work included removal of approximately 75 feet of 96-inch diameter prestressed concrete cylinder pipe (PCCP) and 65 feet of 96-inch diameter welded steel pipe, installation of an equivalent length of welded steel pipe spools, and construction of the two 22-foot wide x 31-foot long x 25-foot high valve vaults. Phase 2 is scheduled for completion in winter 2008 and consists of installation of two sectionalizing valves and construction of a third isolation structure. This project will improve Metropolitan's capability to continue water deliveries to member agencies during Rialto pipeline shutdowns by installing strategically located isolation valves.

Board Report (Engineering Key Activities Report for the month of February 2007)

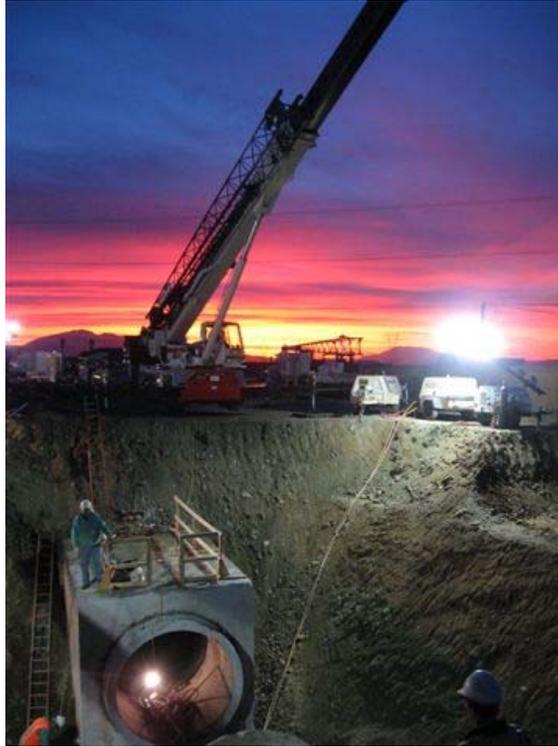


Figure 1: Removal of existing 96-inch diameter pipe at daybreak

Best-in-Class Improvement Program: On February 6, 7, and 8, 2007, Engineering Services conducted three one-day facilitated workshops with respected industry consultants to identify best business practices and discuss industry trends in the areas of alternative project delivery methods (such as design-build), development of engineer's cost estimates, and construction change order management.

Multi-Agency Benchmarking Program Workshop in Las Vegas: On February 22, 2007, staff participated in a facilitated workshop in Henderson, Nevada. The ten participating agencies compared best management practices for project budgeting and key activities that drive performance, and evaluated results of the preliminary 2006 project data collection effort.

Skinner Area Project:

Skinner Water Treatment Plant Expansion No. 4: This program includes construction of a new 110-mgd conventional water treatment module (Module No. 7) and supporting facilities. In order to expedite construction of the expansion, the work is being completed under multiple construction contracts.

- Wastewater Reclamation Plant No. 3 construction, which is part of the Oxidation Retrofit Project (ORP) construction contract, was completed in December 2006.
- Module No. 7 is approximately 98 percent complete and is scheduled to be completed in April 2007 (Figure 2).
- The Chemical Systems Modifications work is approximately 84 percent complete and is scheduled to be completed in June 2007.

The overall program is on schedule and is within budget.



Figure 2: Skinner Plant Module No. 7 sedimentation basins

Integrated Area Studies:

Work continues on the Integrated Area Studies (IAS) for the Riverside/San Diego and the Central Pool areas. These studies are investigating alternative strategies for meeting future water demands in both areas. A joint Central Pool and Riverside/San Diego IAS meeting was held to continue policy discussions on facility implementation and service connections on key raw water conveyance systems (Figure 3). In addition, Metropolitan staff and consultants began evaluating project proposals that were identified in the January 30th project workshop by the Riverside/San Diego IAS Team.



Figure 3: Existing service connections on CRA and large raw water conveyance facilities

Board Report (Engineering Key Activities Report for the month of February 2007)

Supply and Delivery Reliability:

Inland Feeder Program: The program consists of 44 miles of pipeline and tunnels that will enable Metropolitan to convey up to 1,000 cubic feet per second of State Water Project supplies from Devil Canyon Afterbay. Eight of nine construction contracts have been completed. Recent activities include the following:

- Arrowhead East Tunnel – In late January through mid February, the tunnel-boring machine (TBM) continued to mine through very difficult geologic conditions characterized by poor rock and high water inflows. The Contractor has performed extensive grouting operations aimed at consolidating ground and stemming water flows in front of the TBM. Once the grouting was completed, the TBM was able to mine through the treated areas. Through the first three weeks of February, the contractor has been mining at a cautious pace and advanced 95 feet through February 26th. The total length of tunnel mined to date is 16,710 feet (74 percent of the tunnel’s length).
- Arrowhead West Tunnel – Difficult ground conditions were encountered in January and continued into early February. These were characterized by squeezing ground conditions and moderate water inflow rates. The contractor systematically injected grout to improve the ground while advancing the TBM. Given the challenging ground conditions, the contractor produced a favorable month of mining performance by employing new drilling methods, and the TBM advanced a total of 535 feet through February 26th. The total length of tunnel mined to date is 9,370 feet (48 percent of the tunnel’s length). In late January and early February, an additional geologic coring at the Devil Canyon portal site for the Arrowhead West Tunnel was obtained (Figure 4). This coring extended nearly 1,000 feet into the mountain along the tunnel alignment near this portal. The data from this coring will be analyzed to determine if additional activities will be needed at this portal site to aid in the successful completion of the ongoing TBM mining efforts.

The program is expected to be completed in 2010 and is within the Board-approved budget of \$1.186 billion.



Figure 4: Geologic coring at the Devil Canyon portal site for the Arrowhead West Tunnel

Supply and Delivery Reliability (cont.):

Reservoir Cover Replacement Program: This program consists of replacement of the floating covers, installation of liners, and related repairs at the Orange County, Palos Verdes, and Skinner Finished Water Reservoirs. The existing floating covers at these three facilities have reached the end of their useful lives and require replacement. Recent activities include the following:

- Orange County Reservoir – Final design of the replacement cover is 50 percent complete and is scheduled to be completed in July 2007 (Figure 5). A recent inspection of the reservoir indicated damage to the existing concrete liner along with cracking and settlement of the outlet gate structure. A geotechnical investigation will be performed to determine the cause and overall limits of the damage. Repairs will be performed under the construction contract for the replacement of the floating cover.
- Palos Verdes Reservoir – Final design is scheduled to begin in October 2007.
- Skinner Finished Water Reservoir – Final design is scheduled to begin in March 2007.

The program is on schedule to be completed by fiscal year 2009/2010 and is within budget.



Figure 5: Orange County Reservoir

Board Report (Engineering Key Activities Report for the month of February 2007)

Infrastructure Reliability:

Conveyance and Distribution System Rehabilitation Program: This program was initiated to maintain reliable deliveries through specific repair and rehabilitation projects on Metropolitan’s pipelines, reservoirs, and control structures. The program currently contains 52 projects, of which 20 have been completed.

Recent activities include the following:

- Foothill Feeder Repair – The Foothill Feeder shutdown began on January 14, 2007 and concluded on Monday, January 29, 2007. Three prestressed concrete cylinder pipe (PCCP) segments were repaired by two different contractors. Two 201–inch diameter pipe segments were repaired using carbon fiber technology and the remaining pipe segment was replaced with a welded steel pipe. Figure 6 shows the gap in the Foothill Feeder after a portion of the PCCP segment was removed.
- Box Springs Feeder Repairs – The Box Springs Feeder shutdown began on January 29, 2007 and concluded on Saturday, February 3, 2007. One 96-inch diameter PCCP segment was repaired by Metropolitan forces.
- Rialto Pipeline Repairs – The Rialto Pipeline shutdown began on February 5, 2007 and concluded on Sunday, February 11, 2007. During this period, electromagnetic testing and inspection of the 0.7 miles of PCCP line were conducted. One 96-inch diameter PCCP segment was repaired by Metropolitan forces. Construction of two valve vaults and installation of new pipe sections were completed by a contractor under a separate program to construct two new isolation structures.
- Foothill Cathodic Protection – Final design was completed for the Foothill Feeder cathodic protection project in February 2007. The project will be advertised for bids in March 2007.

The program is on schedule to be completed in fiscal year 2011/12 and is within budget.



Figure 6: Removal of distressed PCCP at Foothill Feeder

Date of Report: March 13, 2007

Infrastructure Reliability (cont.):

Diemer Water Treatment Plant Improvements Program: This program was initiated to maintain reliability and improve operating efficiency of the Diemer plant through specific improvements projects. The program currently contains 19 projects, of which 2 have been completed. Recent activities include the following:

- Filter Surface Wash Header Rehabilitation – Construction is 85 percent complete and is scheduled for completion in June 2007 (Figure 7).
- Washwater Tank Pump Replacement – Construction is 33 percent complete with no current progress due to rejection of defective pumps from the contractor. New pumps are to be delivered and installed for testing in April 2007.



Figure 7: Diemer filter surface wash pipe replacement

Board Report (Engineering Key Activities Report for the month of February 2007)

Infrastructure Reliability (cont):

Weymouth Water Treatment Plant Improvements Program: This program was initiated to maintain reliability and improve the operating efficiency of the Weymouth plant through specific improvements projects. The program currently contains 17 projects. Recent activities include the following:

- La Verne Power System Upgrade Project – Final design was authorized by the Board in January 2007 and began in February.
- Weymouth Perimeter Improvements – The Weymouth perimeter improvements will be constructed in several phases. Construction for Phase 1 improvements along the west plant boundary is ongoing and is planned to be complete by summer 2007 (Figure 8). Bids were opened for the second phase, which includes landscaping and perimeter improvements along the north and south plant boundaries. A March Board action is planned for award of a construction contract.
- Coagulant Tank Farm Modifications – Final design is 99 percent complete.
- Junction Structure Seismic Upgrades – Final design is 15 percent complete.
- Plant Operations & Maintenance Center – Final design is complete and the project was advertised for bids in February 2007.

The program is on schedule to be completed in fiscal year 2011/12 and is within budget.



Figure 8: Phase I Weymouth perimeter improvements along the west boundary

Water Quality:

Distribution System – Treated Water Cross Connection Prevention Program: The purpose of this program is to relocate air release and vacuum valves from subsurface vaults along treated-water feeders to above-ground locations to eliminate potential cross connections (Figure 9). The valves at 160 sites have been relocated to date, with another 300 sites scheduled to be modified under this program.

Notices to Proceed were issued in December 2006 for the initial three construction contracts, which will address 74 sites, and field work has begun. Contractor submittals are being reviewed and the contractors’ plans and permits with the cities and local agencies are being coordinated. Final design of the remaining sites is underway. The program is on scheduled to be completed in fiscal year 2011/12 and is within budget.



Figure 9: Left: Subsurface valve being relocated Right: Example of relocated valve with above-ground enclosure

Water Quality (cont.):

Oxidation Retrofit Program: This program was established to reduce the level of disinfection by-products in the finished water at all five of Metropolitan’s treatment plants in order to meet state and federal drinking water regulations and to remove blend or plant capacity restrictions at the three blend plants. Recent activities include the following:

- Mills Plant – The plant’s ozone system became fully operational in March 2003. Final design of two additional ozone contactors to upgrade the plant’s ozonation system capacity to 326 mgd is approximately 98 percent complete. Advertisement for bids is scheduled for early March 2007.
- Jensen Plant – The plant’s ozone system became fully operational on July 1, 2005.
- Skinner Plant – Ozone facilities construction is approximately 43 percent complete.
- Weymouth Plant – Final design is near completion. The construction package will be advertised for bids in March 2007.
- Diemer Plant – In preparing the site for the upcoming ozone system, support facilities are being relocated and the south slope stabilization project is underway. Construction of the new Plant Maintenance Facilities is essentially complete with the contractor now performing punch-list items. Construction of the Vehicle Maintenance Center is approximately 85 percent complete. Construction of Phase I of the Chemical Tank Farm Improvements for the ORP is approximately 90 percent complete. The south slope stabilization construction is approximately 35 percent complete, with preparations underway for a March 2007 plant shutdown and piping connection (Figure 10). The slope stabilization project is scheduled to be completed by March 2008. Final design of the ozone facilities is approximately 88 percent complete.



Figure 10: Tee section for relocated 144 –inch diameter plant inlet line at Diemer Plant

Board Report (Engineering Key Activities Report for the month of February 2007)

Regulatory:

All Facilities – Install Roofs for Chemical Tank Farms: This program consists of installation of roof canopies over chemical tank farms at the Jensen, Mills, and Weymouth treatment plants. Roof canopies will prevent the capture of rainwater within the containment areas and the subsequent need for its disposal as contaminated waste.

- Construction of fluoride roof structures at the Jensen and Mills Plants is underway in conjunction with the fluoride tank farms. The Jensen roof structure is 20 percent complete. Figure 11 shows the fluoride roof structure at Mills, which is 40 percent complete.
- Construction of the four Weymouth tank farm roof structures is underway in conjunction with the fluoride tank farms, and is 48 percent complete.
- Final design of the Jensen caustic, ferric chlorine, and sulfuric acid tank farms is 80 percent complete, and is scheduled to be completed by late 2007.

The program is on schedule to be completed in fiscal year 2007/2008 and is within budget.



Figure 11: Mills Fluoride Tank Farm Roof Structure

Regulatory (cont.):

Chlorine Containment and Handling Facilities Program: This program includes design and construction of facilities to handle and contain chlorine to minimize the possibility of a chlorine leak. Recent activities include the following:

- Diemer and Weymouth Plants – The Diemer and Weymouth projects were completed in 2002 and 2005, respectively, and are fully operational.
- Jensen Plant – Construction of the chlorine containment facilities is 12 percent complete.
- Mills Plant – Construction of the chlorine containment facilities is 28 percent complete.
- Skinner Plant – Construction of the chlorine containment facilities is 68 percent (Figure 12).

The program is on schedule to be completed in 2009 and is within budget.



Figure 12: Skinner Chlorine Containment Facility

Energy Management Program

Metropolitan's Energy Management Program is designed to enhance energy efficiency, reduce greenhouse gas emissions, and be environmentally conscious. In response to recent state legislation, preparation of Metropolitan's initial greenhouse gas (GHG) emissions inventory was completed in February 2007. Staff is reviewing the GHG emissions levels to determine recommended reduction goals. Identification of projects and initiatives to achieve the reduction goals is underway. Design and construction of a 1 MW solar power facility at the Skinner Water Treatment Plant, and replacement of the Yorba Linda Feeder Power Plant turbine, are two projects that have recently been initiated which will help reduce GHG emissions and make Metropolitan more energy efficient.



**MONTHLY PROGRESS REPORT
OF CONSTRUCTION AND PROCUREMENT CONTRACTS
January 2007
(Progress Through January 25, 2007)**

Summary of Progress		
	Construction	Related Procurement
Number of Contracts	28	4
Total Bid Amount of Contracts in Progress	\$ 1,054,461,441	\$ 34,985,764
Number of Contracts Awarded This Month	0	0
Total Bid Amount of Contracts Awarded This Month	\$ -	\$ -
Contract Gross Earnings This Month*	\$ 33,688,502	\$ 931,375
<p><i>*Note: Earnings reflected in this report represent the value of the work performed by the contractor through the 25th day of the month. Earnings include contract retention and other similar deductions from amounts earned by the contractor but otherwise required to be withheld by Metropolitan by law or by contract. Further, payments are made in the month following the performance of the work. For these reasons, contract payments reflected in Metropolitan's financial system will be less than the earnings shown in this report until the final payment has been made to the contractor.</i></p>		

Contracts Awarded This Month

None

Contracts Completed This Month

Contract No. 1589, F. E. Weymouth Water Treatment Plant Solids Handling Facilities, was completed on January 10, 2007, and the notice of completion was recorded on January 17, 2007.

Contract No. 1637, Intake Pumping Plant Secondary Containment Structures, was completed on January 25, 2007, and the notice of completion was recorded on January 31, 2007.

Summaries/Status of Contracts

The summaries/status of current construction and construction-related procurement contracts are provided on the following pages.

Summary of Construction Contracts (Page 1 of 3)

Cont. No.	Spec. No.	Feature	Contractor	Contract Amount	Earnings This Month	Earnings To Date	Net Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
		Inland Feeder Contract		Projected Cost to Complete							
1542	1437	Arrowhead Tunnels Project ¹	J. F. Shea Const Inc/Kenny Const Co., JV	\$ 397,000,000	\$ 3,682,545	\$ 205,943,279	N/A	8/2/02	9/15/10	9/10	52%
		Inland Feeder Totals		\$ 397,000,000	\$ 3,682,545	\$ 205,943,279	\$ -				
		Miscellaneous Contracts		Bid Amount							
1589	1492	Weymouth Water Treatment Plant Solids Handling Facilities	Brutoco Engineering & Construction, Inc.	\$ 14,090,000	\$ 69,540	\$ 14,445,314	\$ 355,314	10/20/04	1/10/07	1/07	100%
1593	1489	Skinner Water Treatment Plant Expansion No. 4 Module No. 7	J. R. Filanc Construction Company, Inc.	\$ 76,383,645	\$ 979,410	\$ 78,976,752	\$ 5,220,730	1/5/05	3/23/07	4/07	97%
1598	1479	San Diego Pipeline No. 6 North Reach	J. F. Shea Construction, Inc.	\$ 65,806,000	\$ 388,147	\$ 66,265,570	\$ 459,570	1/24/05	2/1/07	2/07	99%
1607	1504	Diemer Water Treatment Plant Entrance Relocation, Vehicle Maintenance Center, and Solids Handling Facilities	Brutoco Engineering & Construction, Inc.	\$ 29,260,000	\$ 1,037,906	\$ 25,391,786	\$ 171,520	6/13/05	3/7/07	3/07	86%
1609	1483	Skinner Water Treatment Plant Oxidation Retrofit Program and Washwater Reclamation Plant No. 3	Shimmick Construction/Obayashi Corp. JV	\$ 184,650,000	\$ 3,256,205	\$ 79,310,442	\$ 894,124	7/28/05	1/8/09	1/09	43%
1612	1528	Diemer Water Treatment Plant Rehabilitate Filter Surface Wash Headers	Norman A. Olsson Construction, Inc.	\$ 1,849,331	\$ 70,829	\$ 1,782,627	\$ 68,319	10/12/05	9/25/07	9/07	93%
1613	1533	Diemer Washwater Tank Pumps Replacement	DenBoer Engineering & Construction, Inc.	\$ 355,000	\$ -	\$ 145,000	\$ -	11/9/05	10/23/06	2/07	41%
1614	1505	Diemer Plant Maintenance Facilities	Brutoco Engineering & Construction, Inc.	\$ 8,219,000	\$ 434,269	\$ 8,181,983	\$ 278,090	11/9/05	4/25/07	4/07	96%
1616	1498	Skinner Water Treatment Plant Chemical Systems Modifications	Kiewit Pacific Co.	\$ 109,944,000	\$ 9,433,173	\$ 87,060,119	\$ 1,353,785	11/28/05	6/5/07	6/07	78%

¹ Earnings for this project are as of December 25, 2006.



Summary of Construction Contracts (Page 2 of 3)

Cont. No.	Spec. No.	Feature	Contractor	Contract Amount	Earnings This Month	Earnings To Date	Net Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
		Miscellaneous Contracts		Bid Amount							
1619	1400	Mills Water Treatment Plant Main Entrance Road Realignment and Perimeter Landscaping	Mega Way Enterprises	\$ 3,295,000	\$ 323,536	\$ 2,452,337	\$ -	1/25/06	7/2/07	7/07	74%
1620	1495	Diemer Water Treatment Plant Chemical System Upgrades	Brutoco Engineering & Construction, Inc.	\$ 13,960,000	\$ 406,620	\$ 13,154,168	\$ 136,708	1/13/06	5/18/07	5/07	93%
1623	1540	Foothill Feeder Carbon Fiber Liner Repairs	Fibrwrap Construction, Inc.	\$ 1,250,000	\$ 721,873	\$ 1,299,155	\$ 52,655	1/30/06	4/24/07	4/07	96%
1627	1531	Diamond Valley Lake East Recreation Area Searl Parkway Improvements, Phase 2	Griffith Company	\$ 6,242,068	\$ 398,482	\$ 6,019,194	\$ 39,569	3/27/06	1/9/07	2/07	99%
1628	1517	Mills Water Treatment Plant Chemical System Upgrades	J. R. Filanc Construction Co., Inc.	\$ 19,914,600	\$ 1,055,015	\$ 6,646,357	\$ 12,146	5/2/06	2/4/08	2/08	33%
1631	1535	Diemer Water Treatment Plant Site Preparation for Oxidation Retrofit Program	Kiewit Pacific Co.	\$ 70,516,455	\$ 5,178,595	\$ 25,685,579	\$ 17,222	5/15/06	2/19/08	2/08	36%
1632	1518A	Weymouth Water Treatment Plant Chemical System Upgrades	Brutoco Engineering & Construction, Inc.	\$ 3,985,000	\$ 813,895	\$ 1,888,439	\$ -	6/19/06	11/19/07	11/07	47%
1633	1516A	Jensen Water Treatment Plant Chlorine Containment and Fluoride Project	Brutoco Engineering & Construction, Inc.	\$ 19,988,000	\$ 748,808	\$ 3,045,336	\$ -	8/29/06	6/23/08	6/08	15%
1634	1564	Rialto Pipeline Improvements - Phase 1 Sectionalizing Structures No. 1 and No. 3	J.F. Shea Construction, Inc.	\$ 6,109,028	\$ 2,110,210	\$ 2,343,900	\$ -	9/5/06	8/2/07	8/07	38%
1635	1573	Copper Basin Security Fiber Optic Cable Network System	The Fishel Company	\$ 529,350	\$ 28,839	\$ 486,754	\$ -	9/15/06	2/9/07	2/07	92%



Summary of Construction Contracts (Page 3 of 3)

Cont. No.	Spec. No.	Feature	Contractor	Contract Amount	Earnings This Month	Earnings To Date	Net Extra Work To Date	Start Date	Contract Completion Date	Estimated Completion Date	Estimated Percent Complete
Miscellaneous Contracts				Bid Amount							
1636	1546A	F. E. Weymouth Water Treatment Plant Perimeter Improvements, Phase I	Pima Corp. dba Advanced Construction	\$ 2,648,710	\$ 275,245	\$ 970,845	\$ -	10/24/06	6/12/07	6/07	37%
1637	1488	Intake Pumping Plant Secondary Containment Structures	DenBoer Engineering & Construction, Inc.	\$ 541,000	\$ 73,970	\$ 541,000	\$ -	10/16/06	1/25/07	1/07	100%
1638	1571	Foothill Feeder Santa Clara Valley Pipeline Repair	Mladen Buntich Construction Co., Inc.	\$ 1,841,000	\$ 1,501,000	\$ 1,691,000	\$ -	10/10/06	3/2/07	3/07	92%
1640	1542	Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No.1	Steve P. Rados, Inc.	\$ 2,806,400	\$ -	\$ 30,000	\$ -	12/18/06	12/28/07	12/07	1%
1641	1561A	Colorado River Aqueduct Siphons, Transitions, Canals, and Tunnels Rehabilitation and Improvements	W.A. Rasic Construction Co., Inc.	\$ 10,250,000	\$ 580,000	\$ 655,000	\$ -	12/11/06	6/28/07	6/07	6%
1642	1543	Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No.2	PPC Construction, Inc.	\$ 1,195,115	\$ -	\$ -	\$ -	1/2/07	10/26/07	10/07	0%
1643	1544	Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No.3	Abhe & Svoboda, Inc.	\$ 1,678,240	\$ -	\$ -	\$ -	1/2/07	10/26/07	10/07	0%
1644	1555	Joseph Jensen Water Treatment Plant Filter Valve Replacement	Brutoco Engineering & Construction, Inc.	\$ 154,499	\$ 120,390	\$ 120,390	\$ -	12/21/06	3/19/07	3/07	78%
				\$ 657,461,441	\$ 30,005,957	\$ 428,589,047	\$ 9,059,752				
Total Value of Construction Contracts in Progress				\$ 1,054,461,441	\$ 33,688,502	\$ 634,532,326	\$ 9,059,752				



Summary of Construction and Procurement Contracts Completed This Month Pending Final Payment

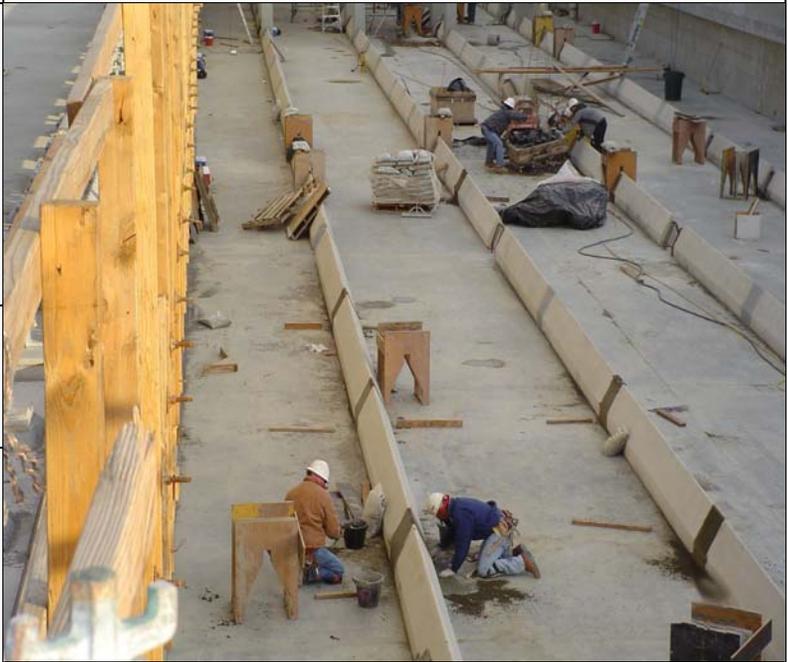
Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Estimated Final Earnings	Total Net Value of Extra Work	Date Work Accepted	Date Notice of Completion Recorded	Date Final Payment Due
1589	1492	F. E. Weymouth Water Treatment Plant Solids Handling Facilities	Brutoco Engineering & Construction, Inc.	\$ 14,090,000	\$ 14,445,314	\$ 355,314	1/10/07	1/17/07	3/11/07
1637	1488	Intake Pumping Plant Secondary Containment Structures	DenBoer Engineering & Construction, Inc.	\$ 541,000	\$ 541,000	\$ -	1/25/07	1/31/07	3/26/07

Summary of Procurement Contracts

Cont. No.	Spec. No.	Feature	Contractor	Bid Amount	Earnings This Month	Earnings to Date	Starting Date	Delivery Date	Remarks
1582	1480	Oxygen/Ozone System Equipment for the Robert A. Skinner Water Treatment Plant Oxidation Retrofit Program	Ozonia North America	\$ 8,409,000	\$ 10,920	\$ 6,196,004	6/22/04	11/30/08	Payments on this contract are made quarterly
1601	1519	Fabricated Steel Pipe and Fittings for the Robert A. Skinner Water Treatment Plant Oxidation Retrofit Program and Washwater Reclamation Plant No. 3	Ameron International	\$ 8,545,000	\$ 206,405	\$ 7,940,751	3/22/05	03/22/06	Pipe is continuously fabricated and delivered. Estimated completion 3/07.
1622	1515A	Oxygen/Ozone System Equipment for the Robert B. Diemer and F. E. Weymouth Water Treatment Plants Oxidation Retrofit Program	Ozonia North America	\$ 15,322,800	\$ 714,050	\$ 943,892	2/2/06	6/3/10	Payments on this contract are made quarterly
1624	1552	Butterfly Valves for the Second Lower Cross Feeder, Rialto Pipeline, and the Perris Valley Pipeline	Hughes Water & Sewer Ltd.	\$ 2,708,964	\$ -	\$ -	2/21/06	7/3/07	
Total Value of Procurement Contracts in Progress				\$ 34,985,764	\$ 931,375	\$ 15,080,647			

Contract No.	1542	Inland Feeder Program Arrowhead Tunnels Project
Specifications No.	1437	
Contractor:	J. F. Shea Const Inc/Kenny Const Co., JV	
Scope of Work: The project consists of purchasing two tunnel boring machines (TBMs); excavating two 12-foot interior finished diameter tunnels; constructing three portal structures; furnishing and installing a precast concrete segmental liner and a final liner for the Arrowhead West tunnel. Project modified to a cost reimbursable contract effective April 26, 2006.		
At a Glance:		
Estimated Percent Complete	52%	
Estimated Completion Date	September 2010	
Details:		
Projected Cost to Complete	\$397,000,000	
Earnings To Date	\$205,943,279 *	
Earnings This Month	\$3,682,545 *	
Contract Start	8/2/02	Installation of protective barrier above Arrowhead East TBM
Contract Completion	9/15/10	

Contract No.	1589	Weymouth Water Treatment Plant Solids Handling Facilities
Specifications No.	1492	
Contractor:	Brutoco Engineering & Construction, Inc.	
Scope: The work consists of upgrading an existing sludge pump station; constructing two gravity thickeners, a new solids dewatering facility building to house three new filter belt presses, a truck loading facility, four solids storage hoppers, and associated work.		
At a Glance:		
Percent Complete	100%	
Percent Extra Work	2.52%	
Completion Date	January 2007	
Details:		
Bid Amount	\$14,090,000	
Earnings To Date	\$14,445,314	
Net Extra Work To Date	\$355,314	
Earnings This Month	\$69,540	
Net Extra Work This Month	\$69,540	
Contract Start	10/20/04	Completed solids dewatering facility
Duration in Working Days	280	
Actual Contract Completion	1/10/07	

Contract No. 1593 Specifications No. 1489 Contractor: J. R. Filanc Construction Company, Inc.	Skinner Water Treatment Plant Expansion No. 4 Module No. 7
Scope: The work consists of construction of a water treatment module, new utilities, a new pumping station, a new electrical switchgear facility, and associated work.	
At a Glance: Estimated Percent Complete 97% Percent Extra Work 6.83% Estimated Completion Date April 2007	
Details: Bid Amount \$76,383,645 Earnings To Date \$78,976,752 Net Extra Work To Date \$5,220,730 Earnings This Month \$979,410 Net Extra Work This Month \$35,810 Contract Start 1/5/05 Duration in Working Days 527 Contract Completion 3/23/07	
Installation of sludge guides and grouting in sedimentation basin	

Contract No. 1598 Specifications No. 1479 Contractor: J. F. Shea Construction, Inc.	San Diego Pipeline No. 6 North Reach
Scope: The work consists of the construction of approximately seven miles of fabricated steel pipeline, constructing facility connections, installing butterfly valves, and associated work.	
At a Glance: Estimated Percent Complete 99% Percent Extra Work 0.70% Estimated Completion Date February 2007	
Details: Bid Amount \$65,806,000 Earnings To Date \$66,265,570 Net Extra Work To Date \$459,570 Earnings This Month \$388,147 Net Extra Work This Month (Credit) (\$157,999) Contract Start 1/24/05 Duration in Working Days 500 Contract Completion 2/1/07	
Butterfly valve	

<p>Contract No. 1607 Specifications No. 1504 Contractor: Brutoco Engineering & Construction, Inc.</p>	<p>Diemer Water Treatment Plant Entrance Relocation, Vehicle Maintenance Center, and Solids Handling Facilities</p>
<p>Scope: The work consists of construction of gravity thickeners; a solids dewatering facility building; a truck loading facility; elevated solids storage hoppers; a pump station; vehicle maintenance building; and entrance gate facilities.</p>	
<p>At a Glance: Estimated Percent Complete 86% Percent Extra Work 0.59% Estimated Completion Date March 2007</p>	
<p>Details: Bid Amount \$29,260,000 Earnings To Date \$25,391,786 Net Extra Work To Date \$171,520 Earnings This Month \$1,037,906 Net Extra Work This Month \$68,883 Contract Start 6/13/05 Duration in Working Days 350 Contract Completion 3/7/07</p>	
<p>Installation of roll-up doors at Vehicle Maintenance Building</p>	

<p>Contract No. 1609 Specifications No. 1483 Contractor: Shimmick Construction/Obayashi Corp. JV</p>	<p>Skinner Water Treatment Plant Oxidation Retrofit Program and Washwater Reclamation Plant No. 3</p>
<p>Scope: The work consists of construction of buildings and water treatment structures, washwater reclamation plant, chemical and liquid oxygen facilities, cooling water pump station, power substation, switchgear building, and associated work.</p>	
<p>At a Glance: Estimated Percent Complete 43% Percent Extra Work 0.48% Estimated Completion Date January 2009</p>	
<p>Details: Bid Amount \$184,650,000 Earnings To Date \$79,310,442 Net Extra Work To Date \$894,124 Earnings This Month \$3,256,205 Net Extra Work This Month \$3,457 Contract Start 7/28/05 Duration in Working Days 865 Contract Completion 1/8/09</p>	
<p>Installation of shoring piles</p>	

Contract No. 1612 Specifications No. 1528 Contractor: Norman A. Olsson Construction, Inc.	Diemer Water Treatment Plant Rehabilitate Filter Surface Wash Headers
Scope: The work consists of replacement of filter surface wash main piping with stainless steel piping; removal, refurbishment, and reinstallation of existing filter surface wash headers and valves; and seismic upgrading of all pipe supports.	
At a Glance: Estimated Percent Complete 93% Percent Extra Work 3.69% Estimated Completion Date September 2007	
Details: Bid Amount \$1,849,331 Earnings To Date \$1,782,627 Net Extra Work To Date \$68,319 Earnings This Month \$70,829 Net Extra Work This Month \$0 Contract Start 10/12/05 Duration in Working Days 479 Contract Completion 9/25/07	
Installation of work platform beneath filter header	

Contract No. 1613 Specifications No. 1533 Contractor: DenBoer Engineering & Construction, Inc.	Diemer Water Treatment Plant Washwater Tank Pumps Replacement
Scope: The work consists of the replacement of existing pumps, motors, check valves, pressure indicators, and reduced voltage motor starters.	
At a Glance: Estimated Percent Complete 41% Percent Extra Work 0.00% Estimated Completion Date February 2007	
Details: Bid Amount \$355,000 Earnings To Date \$145,000 Net Extra Work To Date \$0 Earnings This Month \$0 Net Extra Work This Month \$0 Contract Start 11/9/05 Duration in Working Days 200 Contract Completion 10/23/06	
Start-up of washwater pump	

Contract No.	1614	Diemer Water Treatment Plant Plant Maintenance Facilities
Specifications No.	1505	
Contractor:	Brutoco Engineering & Construction, Inc.	
Scope: The work consists of the construction of a new maintenance building, installation of an electrical substation/transformer, and associated work.		
At a Glance:		
Estimated Percent Complete	96%	
Percent Extra Work	3.38%	
Estimated Completion Date	April 2007	
Details:		
Bid Amount	\$8,219,000	
Earnings To Date	\$8,181,983	
Net Extra Work To Date	\$278,090	
Earnings This Month	\$434,269	
Net Extra Work This Month	\$170,344	
Contract Start	11/9/05	Lockers in maintenance building
Duration in Working Days	260	
Contract Completion	4/25/07	

Contract No.	1616	Skinner Water Treatment Plant Expansion No. 4 Chemical Systems Modifications
Specifications No.	1498	
Contractor:	Kiewit Pacific Co.	
Scope: The work consists of the construction of a chlorine containment and handling facility, water quality monitoring vaults, chemical tank farms, pipe galleries, and new utilities; installation of plant compressed air systems and associated work.		
At a Glance:		
Estimated Percent Complete	78%	
Percent Extra Work	1.23%	
Estimated Completion Date	June 2007	
Details:		
Bid Amount	\$109,944,000	
Earnings To Date	\$87,060,119	
Net Extra Work To Date	\$1,353,785	
Earnings This Month	\$9,433,173	
Net Extra Work This Month	\$210,235	
Contract Start	11/28/05	Mechanical and electrical equipment in pipe gallery
Duration in Working Days	380	
Contract Completion	6/5/07	

<p>Contract No. 1619 Specifications No. 1400 Contractor: Mega Way Enterprises</p>	<p>Mills Water Treatment Plant Main Entrance Road Realignment and Perimeter Landscaping</p>
<p>Scope: The work consists of constructing a new entrance road, a guard station, new fencing, and landscaping.</p>	
<p>At a Glance: Estimated Percent Complete 74% Percent Extra Work 0.00% Estimated Completion Date July 2007</p>	
<p>Details: Bid Amount \$3,295,000 Earnings To Date \$2,452,337 Net Extra Work To Date \$0 Earnings This Month \$323,536 Net Extra Work This Month \$0 Contract Start 1/25/06 Duration in Working Days 365 Contract Completion 7/2/07</p>	<p>New guard station</p>
<p>Contract No. 1620 Specifications No. 1495 Contractor: Brutoco Engineering & Construction, Inc.</p>	<p>Diemer Water Treatment Plant Chemical System Upgrades</p>
<p>Scope: The work consists of demolition of existing washwater reclamation facility; construction of sulfuric acid feed and storage system and three other chemical storage tanks; and installation of chemical trenches and chemical lines.</p>	
<p>At a Glance: Estimated Percent Complete 93% Percent Extra Work 0.98% Estimated Completion Date May 2007</p>	
<p>Details: Bid Amount \$13,960,000 Earnings To Date \$13,154,168 Net Extra Work To Date \$136,708 Earnings This Month \$406,620 Net Extra Work This Month \$0 Contract Start 1/13/06 Duration in Working Days 270 Contract Completion 5/18/07</p>	<p>Compaction of asphalt concrete</p>

Contract No. 1623 Specifications No. 1540 Contractor: Fibrwrap Construction, Inc.	Foothill Feeder Carbon Fiber Liner Repairs	
Scope: The work consists of installing layers of carbon-fiber reinforcing liner to the interior surface of the Foothill Feeder at two locations.		
At a Glance: Estimated Percent Complete 96% Percent Extra Work 4.21% Estimated Completion Date April 2007		
Details: Bid Amount \$1,250,000 Earnings To Date \$1,299,155 Net Extra Work To Date \$52,655 Earnings This Month \$721,873 Net Extra Work This Month \$52,655 Contract Start 1/30/06 Duration in Working Days 80 Contract Completion 4/24/07		
Carbon fiber installation		

Contract No. 1627 Specifications No. 1531 Contractor: Griffith Company	Diamond Valley Lake East Recreation Area Searl Parkway Improvements, Phase 2	
Scope: The work consists of grading and construction of a new roadway, drainage channel, and associated work.		
At a Glance: Estimated Percent Complete 99% Percent Extra Work 0.63% Estimated Completion Date February 2007		
Details: Bid Amount \$6,242,068 Earnings To Date \$6,019,194 Net Extra Work To Date \$39,569 Earnings This Month \$398,482 Net Extra Work This Month \$0 Contract Start 3/27/06 Duration in Working Days 180 Contract Completion 1/9/07		
Completed striping on Searl Parkway		

<p>Contract No. 1628 Specifications No. 1517 Contractor: J. R. Filanc Construction Co., Inc.</p>	<p>Mills Water Treatment Plant Chemical System Upgrades</p>
<p>Scope: The work consists of construction of new chlorine containment facility including truck unloading and acid storage buildings, evaporator room, injection facility, and chlorine scrubber areas.</p>	
<p>At a Glance: Estimated Percent Complete 33% Percent Extra Work 0.06% Estimated Completion Date February 2008</p>	
<p>Details: Bid Amount \$19,914,600 Earnings To Date \$6,646,357 Net Extra Work To Date \$12,146 Earnings This Month \$1,055,015 Net Extra Work This Month \$9,347 Contract Start 5/2/06 Duration in Working Days 360 Contract Completion 2/4/08</p>	
<p>Installation of structural roof steel on acid tank farm canopy</p>	
<p>Contract No. 1631 Specifications No. 1535 Contractor: Kiewit Pacific Co.</p>	<p>Diemer Water Treatment Plant Site Preparation for Oxidation Retrofit Program</p>
<p>Scope: The work consists of demolition of shop building, underground fuel tanks, and steel pipelines; installation of more than 3,000 feet of steel pipe, motor control center, remote transmitting unit, LPG tank and vaporizer, subdrain systems, and associated work.</p>	
<p>At a Glance: Estimated Percent Complete 36% Percent Extra Work 0.02% Estimated Completion Date February 2008</p>	
<p>Details: Bid Amount \$70,516,455 Earnings To Date \$25,685,579 Net Extra Work To Date \$17,222 Earnings This Month \$5,178,595 Net Extra Work This Month \$2,400 Contract Start 5/15/06 Duration in Working Days 445 Contract Completion 2/19/08</p>	
<p>Installation of plant inlet line</p>	

Contract No. 1632 Specifications No. 1518A Contractor: Brutoco Engineering & Construction, Inc.	Weymouth Water Treatment Plant Chemical System Upgrades	
Scope: The work consists of construction of fluorosilicic acid unloading, storage and injection facilities, steel roof canopies, and associated work.		
At a Glance: Estimated Percent Complete 47% Percent Extra Work 0.00% Estimated Completion Date November 2007		
Details: Bid Amount \$3,985,000 Earnings To Date \$1,888,439 Net Extra Work To Date \$0 Earnings This Month \$813,895 Net Extra Work This Month \$0 Contract Start 6/19/06 Duration in Working Days 360 Contract Completion 11/19/07		
		Fluoride tank farm roof

Contract No. 1633 Specifications No. 1516A Contractor: Brutoco Engineering & Construction, Inc.	Joseph Jensen Water Treatment Plant Chlorine Containment and Fluoride Project	
Scope: The work consists of construction of new chlorine containment facility, evaporator room, and chlorine scrubber area, new fluorosilicic acid unloading, storage and injection facility, and associated work.		
At a Glance: Estimated Percent Complete 15% Percent Extra Work 0.00% Estimated Completion Date June 2008		
Details: Bid Amount \$19,988,000 Earnings To Date \$3,045,336 Net Extra Work To Date \$0 Earnings This Month \$748,808 Net Extra Work This Month \$0 Contract Start 8/29/06 Duration in Working Days 460 Contract Completion 6/23/08		
		Erection of structural steel frame work for fluoride tank farm

<p>Contract No. 1634 Specifications No. 1564 Contractor: J.F. Shea Construction, Inc.</p>	<p>Rialto Pipeline Improvements - Phase 1 Sectionalizing Structures No. 1 and No. 3</p>
<p>Scope: The work consists of removing pre-stressed concrete cylinder pipe; fabricating and installing steel pipe; constructing valve vaults; furnishing a removable bulkhead, and associated work.</p>	
<p>At a Glance: Estimated Percent Complete 38% Percent Extra Work 0.00% Estimated Completion Date August 2007</p>	
<p>Details: Bid Amount \$6,109,028 Earnings To Date \$2,343,900 Net Extra Work To Date \$0 Earnings This Month \$2,110,210 Net Extra Work This Month \$0 Contract Start 9/5/06 Duration in Working Days 230 Contract Completion 8/2/07</p>	<p>Installation of companion flange with butterfly valve</p>
<p>Contract No. 1635 Specifications No. 1573 Contractor: The Fishel Company</p>	<p>Copper Basin Security Fiber Optic Cable Network System</p>
<p>Scope: The work consists of furnishing and installing aerial and underground fiber optic cable and equipment.</p>	
<p>At a Glance: Estimated Percent Complete 92% Percent Extra Work 0.00% Estimated Completion Date February 2007</p>	
<p>Details: Bid Amount \$529,350 Earnings To Date \$486,754 Net Extra Work To Date \$0 Earnings This Month \$28,839 Net Extra Work This Month \$0 Contract Start 9/15/06 Duration in Working Days 100 Contract Completion 2/9/07</p>	<p>Patch and ethernet panels at Copper Basin</p>

Contract No. 1636 Specifications No. 1546A Contractor: Pima Corp. dba Advanced Construction	F. E. Weymouth Water Treatment Plant Perimeter Improvements, Phase I
Scope: The work consists of landscape, lighting and irrigation improvements; decorative fencing; and extending paved parking.	
At a Glance: Estimated Percent Complete 37% Percent Extra Work 0.00% Estimated Completion Date June 2007	
Details: Bid Amount \$2,648,710 Earnings To Date \$970,845 Net Extra Work To Date \$0 Earnings This Month \$275,245 Net Extra Work This Month \$0 Contract Start 10/24/06 Duration in Working Days 160 Contract Completion 6/12/07	
	Formwork for fence

Contract No. 1637 Specifications No. 1488 Contractor: DenBoer Engineering & Construction, Inc.	Intake Pumping Plant Secondary Containment Structures
Scope: The work consists of constructing sodium hypochlorite and diesel fuel delivery truck unloading pads, and eight secondary containment basins for transformers.	
At a Glance: Percent Complete 100% Percent Extra Work 0.00% Completion Date January 2007	
Details: Bid Amount \$541,000 Earnings To Date \$541,000 Net Extra Work To Date \$0 Earnings This Month \$73,970 Net Extra Work This Month \$0 Contract Start 10/16/06 Duration in Working Days 180 Actual Contract Completion 1/25/07	
	Installation of angle iron around transformer for containment

<p>Contract No. 1638 Specifications No. 1571 Contractor: Mladen Buntich Construction Co., Inc.</p>	<p>Foothill Feeder Santa Clara Valley Pipeline Repair</p>
<p>Scope: The work consists of removal and replacement of pre-stressed concrete cylinder pipe with welded steel pipe liner.</p>	
<p>At a Glance: Estimated Percent Complete 92% Percent Extra Work 0.00% Estimated Completion Date March 2007</p>	
<p>Details: Bid Amount \$1,841,000 Earnings To Date \$1,691,000 Net Extra Work To Date \$0 Earnings This Month \$1,501,000 Net Extra Work This Month \$0 Contract Start 10/10/06 Duration in Working Days 80 Contract Completion 3/2/07</p>	<p>Installation of Metropolitan-furnished pipe inside PCCP sleeve</p>
<p>Contract No. 1640 Specifications No. 1542 Contractor: Steve P. Rados, Inc.</p>	<p>Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No. 1</p>
<p>Scope: The work consists of furnishing new replacement valves, pipes, and fittings for Metropolitan's inventory; removal of existing subsurface vacuum and air release valves; abatement of lead, PCBs and asbestos-containing material inside subsurface vaults; and modification and extension of piping system for installation of new vacuum and air release valves at above-ground locations within the cities of Los Angeles, Alhambra, Commerce, Montebello, Monterey Park, Rosemead, and South Pasadena.</p>	
<p>At a Glance: Estimated Percent Complete 1% Percent Extra Work 0.00% Estimated Completion Date December 2007</p>	
<p>Details: Bid Amount \$2,806,400 Earnings To Date \$30,000 Net Extra Work To Date \$0 Earnings This Month \$0 Net Extra Work This Month \$0 Contract Start 12/18/06 Duration in Working Days 260 Contract Completion 12/28/07</p>	<p>Existing site conditions</p>

Contract No.	1641	Colorado River Aqueduct Siphons, Transitions, Canals, and Tunnels Rehabilitation and Improvements
Specifications No.	1561A	
Contractor:	W.A. Rasic Construction Co., Inc.	
Scope: The work consists of dewatering barrel siphons for replacement of existing equipment and cast iron flanges with new stainless steel valves, preparation for Metropolitan's engineering investigations, and installation of internal seals; fabrication of blocker and sealer gates; repairs and recoating of radial gates; and installation of a acoustic flow measurements system.		
At a Glance:		
Estimated Percent Complete	6%	
Percent Extra Work	0.00%	
Estimated Completion Date	June 2007	
Details:		
Bid Amount	\$10,250,000	
Earnings To Date	\$655,000	
Net Extra Work To Date	\$0	
Earnings This Month	\$580,000	
Net Extra Work This Month	\$0	
Contract Start	12/11/06	
Duration in Working Days	140	
Contract Completion	6/28/07	
		Valve work in manhole

Contract No.	1642	Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No. 2
Specifications No.	1543	
Contractor:	PPC Construction, Inc.	
Scope: The work consists of removal of existing subsurface vacuum and air release valves; abatement of lead, PCBs and asbestos-containing material inside subsurface vaults; and modification and extension of piping system for installation of new Metropolitan-furnished vacuum and air release valves at above-ground locations within the cities of Brea, Covina, Diamond Bar, San Dimas, and portions of Los Angeles County.		
At a Glance:		
Estimated Percent Complete	0%	
Percent Extra Work	0.00%	
Estimated Completion Date	October 2007	
Details:		
Bid Amount	\$1,195,115	
Earnings To Date	\$0	
Net Extra Work To Date	\$0	
Earnings This Month	\$0	
Net Extra Work This Month	\$0	
Contract Start	1/2/07	
Duration in Working Days	210	
Contract Completion	10/26/07	
		Existing site conditions

Contract No. 1643 Specifications No. 1544 Contractor: Abhe & Svoboda, Inc.	Air Release and Vacuum Valve Relocation for Treated Water Pipelines Construction Package No. 3
Scope: The work consists of removal of existing subsurface vacuum and air release valves; abatement of lead, PCBs and asbestos-containing material inside subsurface vaults; and modification and extension of piping system for installation of new Metropolitan-furnished vacuum and air release valves at above-ground locations within the cities of Culver City, Los Angeles, Norwalk, Santa Fe Springs, and portions of Los Angeles County.	
At a Glance: Estimated Percent Complete 0% Percent Extra Work 0.00% Estimated Completion Date October 2007	
Details: Bid Amount \$1,678,240 Earnings To Date \$0 Net Extra Work To Date \$0 Earnings This Month \$0 Net Extra Work This Month \$0 Contract Start 1/2/07 Duration in Working Days 210 Contract Completion 10/26/07	
Existing site conditions	

Contract No. 1644 Specifications No. 1555 Contractor: Brutoco Engineering & Construction, Inc.	Joseph Jensen Water Treatment Plant Filter Valve Replacement
Scope: The work consists of removal and replacement of four existing butterfly valves located on Basin 16 of Module 1.	
At a Glance: Estimated Percent Complete 78% Percent Extra Work 0.00% Estimated Completion Date March 2007	
Details: Bid Amount \$154,499 Earnings To Date \$120,390 Net Extra Work To Date \$0 Earnings This Month \$120,390 Net Extra Work This Month \$0 Contract Start 12/21/06 Duration in Working Days 60 Contract Completion 3/19/07	
Installation of filter backwash butterfly valve	