

WATER UTILITIES CAPITAL IMPROVEMENTS

MISSION

The City of Dallas Water Utilities Department (DWU) is a City-owned enterprise utility providing regional water and wastewater services to the citizens of Dallas and to the surrounding Customer Cities. DWU's mission is to provide services vital to the health and safety of Dallas citizens and our customers and to support the City's efforts toward economic development, environmental protection and enhancement of quality of life, including water supply, treatment, and distribution; wastewater collection and treatment; and billing, credit and collection and customer service.

The mission of the Water Utilities Department Capital Improvement Program is to provide an adequate water supply and wastewater treatment to its customers by the acquisition of future water and wastewater facilities and to renovate and construct improvements to existing water and wastewater facilities throughout the City of Dallas.

HIGHLIGHTED ACCOMPLISHMENTS FOR FY2003-04

1. Made emergency repairs to the 84-inch and 72-inch raw water pipelines from Lake Tawakoni to the East Side Water Treatment Plant and the Iron Bridge Pump Station in time for summer demands.
2. Awarded the construction contract for the Greenville Water Pump Station and Reservoir improvements project.
3. Awarded the construction contract for the Bachman Water Treatment Plant Ozone Improvement project.
4. Completed Phase II construction and awarded Phase III construction of the Lake Fork water supply pipeline.
5. The ozone treatment facilities at the East Side Water Treatment Plant were placed in service.
6. Implemented the Reclaimed Water Pilot Project at Cedar Crest Golf Course.
7. DWU was awarded a grant by the Texas Water Development Board which will partially fund the Reclaimed Water Implementation Project.
8. DWU was awarded a grant by the Environmental Protection Agency which will partially fund improvements to the Central Wastewater Treatment Plant White Rock Rough Screens and Pump Header Replacement project.
9. The Southside Wastewater Treatment Plant Effluent Filter Rehabilitation project was placed in service. This project converted 12 multi-media filters to air scour and upgraded the filter control system.
10. The Southside Wastewater Treatment Plant Anaerobic Digester Rehabilitation project was placed in service. This project added new mixing systems, gas scrubber, control system and new pumps to handle thicker sludge.
11. Completed construction of Sunset Discharge Water Main, Phases I and II project. This project includes the installation of approximately 4,800 linear feet of 48-inch water main, 8,700 linear feet of 54-inch water main and 8,300 linear feet of 60-inch water main.
12. Completed over 37,950 linear feet of pipeline relocations in conjunction with the construction of Texas Department of Transportation's (TXDOT) Dallas High Five Bridge and highway project at the interchange of I.H. 635 and U.S. 75.
13. Awarded approximately 55 miles of water and wastewater main replacement contracts, including relocation projects.

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HIGHLIGHTED OBJECTIVES FOR FY2004-05

1. Award the construction contract for the Lake Fork Water Pump Station project.
2. Award design of an additional raw water pipeline from Tawakoni Balancing Reservoir to East Side Water Treatment Plant.
3. Begin construction of diffused aeration improvements at the Southside Wastewater Treatment Plant. The existing mechanical aerators will be replaced with a diffused air system which will reduce power costs and improve the treatment process.
4. Begin construction of the new Doran Water Pump Station.
5. Complete construction and place in service the new 120 million gallon peak flow storage basins at the Southside Wastewater Treatment Plant. A new solids disposal field will also be constructed in conjunction with this project.
6. Award the design contract for a new wastewater pump station at the Central Wastewater Treatment Plant. The new pump station will replace the Cadiz Street Pump Station.
7. Award the design contract for additional effluent filters at the Central Wastewater Treatment Plant which will increase filter capacity during high flow conditions.
8. Select a consultant to assist in the evaluation and selection of an update, replacement or privatization of the existing Customer, Information, Accounting and Billing System (CIABS).
9. Award the Automated Meter Reading Phase I project which will provide for the installation of automated meters in Dallas' Central Business District.
10. Award 60 miles of water and wastewater main replacements, including relocation projects.

OPERATIONS AND MAINTENANCE COST

Upon completion, certain capital improvement projects will have on-going costs associated with operating and maintaining the new facility, improvement or expansion. These costs will be considered when developing DWU's operating budget.

Southside Wastewater Treatment Plant – diffused air improvements (\$850,000) starting in FY 06

Southside Wastewater Treatment Plant – energy co-generation facility (\$2,500,000) starting in FY 07

Central Wastewater Treatment Plant – maintenance facility (\$370,000) starting in FY 06

Bachman Water Treatment Plant – ozone improvements \$2,000,000 starting in FY 05

East Side Water Treatment Plant – ozone improvements \$3,000,000 starting in FY 05

Camp Wisdom Water Pump Station - \$450,000 starting in FY 08

Doran Water Pump Station - \$450,000 starting in FY 08

High Brush Water Pump Station - \$450,000 starting in FY 09

Sunset Water Pump Station - \$450,000 starting in FY 09

Lake Fork – power \$1,100,000 starting in FY 05. On January 1, 2007, O&M cost drops to \$9,000 per month.

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PROJECT CATEGORY DESCRIPTIONS

Homeowners and Unserved Areas Construction of water and wastewater main extensions to homeowners and meters for water service.

Inflow/Infiltration Remediation Design and construction of improvements to eliminate inflow and infiltration conditions within the wastewater collection system.

Mains, Pump Stations and Associated Facilities Right-of-way acquisition, design and construction of new and replacement mains, pump stations, lift stations, ground storage reservoirs, and elevated tanks citywide as required by growth, development and obsolescence. Surveying services and geotechnical design are also included.

Public Art Includes the public art initiatives throughout the City of Dallas. Funds generated by Public Art appropriations are used for the design services of artists, for the selection, acquisition, commissioning and display of artworks and for administration of the public art projects.

Raw Water Pumping and Transmission Acquisition of right-of-way for transmission facilities and for the design and construction of water transmission facilities to include the Lake Fork Pump Station and pipeline.

Rehabilitation and Equipment Maintenance and renovation of major water and wastewater facilities.

Relocations In Advance of Paving Replacement of water mains, sanitary sewers and related facilities to permit widening and paving of streets and highways and storm drainage in coordination with City, County and State programs.

Service Centers, Offices and Research Facilities Funding for the renovation of existing service facilities and business and customer service systems.

Studies and Master Plans Studies related to water and wastewater operations and master plan updates.

Wastewater Treatment Plants and Associated Facilities Design and construction of renovations, expansions, and improvements to the Central and Southside Wastewater Treatment Plants.

Water Supply Reservoirs and Dams Dam inspection, consultation, rehabilitation and erosion studies for various dams.

Water Treatment Plants and Associated Facilities Design and construction of renovations, expansions and improvements to the City's three water treatment plants: Bachman Plant, East Side Plant and Elm Fork Plant and the design and construction of the proposed future water treatment plants.

Wholesale Customer Facilities (Funded by Customer Cities) Construction of facilities necessary to provide service to the Customer Cities. Funding for these projects comes from the wholesale customer cities.

WATER UTILITIES CAPITAL IMPROVEMENTS

<u>Source of Funds</u>	<u>Budget as of 06-30-04</u>	<u>Spent or Committed 06-30-04</u>	<u>Remaining as of 06-30-04</u>	<u>FY2004-05 Adopted</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
Capital Construction - Wastewater	341,626,111	330,592,598	11,033,513	15,944,000	22,448,000	24,865,000	404,883,111
Capital Construction - Water	424,256,528	398,803,061	25,453,467	30,937,000	27,495,000	32,590,000	515,278,528
Commercial Paper - Wastewater	326,586,843	274,732,674	51,854,169	63,636,000	77,001,000	79,462,000	546,685,843
Commercial Paper - Water	524,709,388	462,620,207	62,089,181	125,364,000	121,999,000	120,538,000	892,610,388
Revenue Bonds - Wastewater	82,915,447	82,902,385	13,062	0	0	0	82,915,447
Revenue Bonds - Water	139,699,843	139,698,244	1,599	0	0	0	139,699,843
Water Utilities - Public Art Fund	1,141,000	299,198	841,802	219,000	57,000	45,000	1,462,000
Total Sources of Funds	1,840,935,160	1,689,648,367	151,286,793	236,100,000	249,000,000	257,500,000	2,583,535,160

WATER UTILITIES CAPITAL IMPROVEMENTS

<u>Use of Funds</u>	<u>Budget as of 06-30-04</u>	<u>Spent or Committed 06-30-04</u>	<u>Remaining as of 06-30-04</u>	<u>FY2004-05 Adopted</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
Homeowners and Unserved Areas	68,305,128	59,992,276	8,312,852	860,000	860,000	860,000	70,885,128
Inflow/Infiltration Remediation	63,300,156	63,298,534	1,622	0	0	0	63,300,156
Mains, Pump Stations and Associated Facilities	491,404,472	445,201,885	46,202,587	79,004,000	78,417,000	98,399,000	747,224,472
Public Art	1,141,000	299,198	841,802	219,000	57,000	45,000	1,462,000
Raw Water Pumping and Transmission	116,696,642	97,676,844	19,019,798	35,100,000	29,860,000	33,417,000	215,073,642
Rehabilitation and Equipment	105,527,033	96,879,807	8,647,226	7,320,000	7,534,000	7,646,000	128,027,033
Relocations In Advance of Paving	139,836,789	128,260,531	11,576,258	9,000,000	9,000,000	9,000,000	166,836,789
Service Centers, Offices and Research Facilities	36,102,049	31,849,952	4,252,097	18,000,000	0	0	54,102,049
Studies and Master Plans	37,078,398	22,912,895	14,165,503	3,500,000	3,800,000	3,700,000	48,078,398
Wastewater Treatment Plants and Associated Facilities	379,429,070	353,411,854	26,017,216	38,367,000	46,881,000	52,100,000	516,777,070
Water Supply Reservoirs and Dams	16,210,020	15,765,818	444,202	0	5,500,000	0	21,710,020
Water Treatment Plants and Associated Facilities	384,888,219	373,148,289	11,739,930	44,730,000	67,091,000	52,333,000	549,042,219
Wholesale Customer Facilities (Funded by Customer Cities)	1,016,184	950,484	65,700	0	0	0	1,016,184
Total Uses of Funds	1,840,935,160	1,689,648,367	151,286,793	236,100,000	249,000,000	257,500,000	2,583,535,160

WATER UTILITIES CAPITAL IMPROVEMENTS

Project	Project Category	Council District	Funding Source	Budget as of 06/30/04	Spent or Committed 06/30/04	Remaining as of 06/30/04	FY2004-05 Adopted	FY2005-06 Estimated	FY2006-07 Estimated	Total Estimated Cost	In Service Date
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Construction	15,473,579	15,216,390	257,189	0	0	0	15,473,579	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	34,925,216	28,463,753	6,461,463	36,600,000	10,800,000	0	82,325,216	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Revenue Bonds	49,076,597	49,076,597	0	0	0	0	49,076,597	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Revenue Bonds	14,649,866	14,649,866	0	0	0	0	14,649,866	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Capital Construction	44,909,646	44,535,068	374,578	2,500,000	0	0	47,409,646	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Comm'l Paper	60,968,052	48,839,558	12,128,494	20,500,000	18,650,000	33,700,000	133,818,052	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Revenue Bonds	4,671,257	4,671,257	0	0	0	0	4,671,257	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Construction	30,199,821	28,050,742	2,149,079	0	2,500,000	1,900,000	34,599,821	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	118,886,346	118,885,343	1,003	6,300,000	48,791,000	41,603,000	215,580,346	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Construction	31,114,178	30,742,982	371,196	1,200,000	0	0	32,314,178	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	98,041,225	98,041,225	0	630,000	2,500,000	8,830,000	110,001,225	Various
Major Maintenance and Rehabilitation	Rehabilitation and Equipment	Citywide	Revenue Bonds	207,283	207,283	0	0	0	0	207,283	Various
Public Art Program - Wastewater	Public Art	Citywide	Capital Construction	684,000	0	684,000	32,000	1,000	1,000	718,000	Various
Public Art Program - Water	Public Art	Citywide	Capital Construction	457,000	299,198	157,802	187,000	56,000	44,000	744,000	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Revenue Bonds	2,366,807	2,366,610	197	0	0	0	2,366,807	Various

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Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Capital Construction	40,501,968	39,660,205	841,763	600,000	2,000,000	1,500,000	44,601,968	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Comm'l Paper	73,827,867	55,650,029	18,177,838	34,500,000	27,860,000	31,917,000	168,104,867	Various
Sewer Mains, Interceptors and Lift Stations	Mains/ Pump Stations/Assoc Fac.	Citywide	Revenue Bonds	14,954,350	14,952,778	1,572	0	0	0	14,954,350	Various
Sewer Mains, Interceptors and Lift Stations	Mains/ Pump Stations/Assoc Fac.	Citywide	Capital Construction	80,313,219	78,393,331	1,919,888	4,425,000	13,814,000	12,225,000	110,777,219	Various
Sewer Mains, Interceptors and Lift Stations	Mains/ Pump Stations/Assoc Fac.	Citywide	Comm'l Paper	80,580,408	65,834,927	14,745,481	25,869,000	27,000,000	28,162,000	161,611,408	Various
Southeast Water Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Construction	0	0	0	0	2,500,000	0	2,500,000	Various
Southeast Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	2,500,000	0	2,500,000	0	0	0	2,500,000	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Revenue Bonds	22,290,962	22,290,962	0	0	0	0	22,290,962	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Capital Construction	97,769,106	97,451,475	317,631	1,850,000	500,000	4,400,000	104,519,106	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Comm'l Paper	138,841,438	125,644,925	13,196,513	13,517,000	27,731,000	14,000,000	194,089,438	Various
Studies and Master Plans	Studies and Master Plans	Citywide	Comm'l Paper	5,148,815	0	5,148,815	0	0	0	5,148,815	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Revenue Bonds	872,110	872,110	0	0	0	0	872,110	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Capital Construction	14,846,126	14,401,924	444,202	0	0	0	14,846,126	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Comm'l Paper	491,784	491,784	0	0	5,500,000	0	5,991,784	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Capital Construction	29,117,958	29,116,336	1,622	0	0	0	29,117,958	Various

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Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Comm'l Paper	10,760,074	10,760,074	0	0	0	0	10,760,074	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Revenue Bonds	23,422,124	23,422,124	0	0	0	0	23,422,124	Various
Wastewater Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Capital Construction	38,014,572	34,507,417	3,507,155	3,719,000	3,754,000	3,940,000	49,427,572	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Revenue Bonds	1,429,163	1,429,163	0	0	0	0	1,429,163	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Capital Construction	21,628,892	20,744,364	884,528	200,000	200,000	200,000	22,228,892	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Comm'l Paper	1,185,544	1,185,544	0	0	0	0	1,185,544	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Revenue Bonds	490,303	490,303	0	0	0	0	490,303	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Revenue Bonds	1,464,374	1,464,374	0	0	0	0	1,464,374	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Revenue Bonds	4,497,325	4,485,835	11,490	0	0	0	4,497,325	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Capital Construction	19,225,661	16,692,526	2,533,135	750,000	880,000	900,000	21,755,661	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Comm'l Paper	20,999,561	16,281,913	4,717,648	3,750,000	3,620,000	3,600,000	31,969,561	Various
Wastewater Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Capital Construction	1,347,533	1,168,493	179,040	0	0	0	1,347,533	Various
Wastewater Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Comm'l Paper	3,473,811	3,473,811	0	0	0	0	3,473,811	Various
Wastewater Studies and Master Plans	Studies and Master Plans	Citywide	Comm'l Paper	9,777,955	2,711,922	7,066,033	0	0	0	9,777,955	Various
Wastewater Studies and Master Plans	Studies and Master Plans	Citywide	Capital Construction	9,273,984	7,958,223	1,315,761	2,500,000	3,300,000	3,200,000	18,273,984	Various

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Wastewater Wholesale Customer Facilities	Wholesale Customer Facilities	Citywide	Capital Construction	25,540	25,365	175	0	0	0	25,540	Various
Water Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Comm'l Paper	1,283,347	980,162	303,185	0	0	0	1,283,347	Various
Water Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Capital Construction	66,021,831	61,184,945	4,836,886	3,601,000	3,780,000	3,706,000	77,108,831	Various
Water Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Capital Construction	40,945,659	36,017,335	4,928,324	660,000	660,000	660,000	42,925,659	Various
Water Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Comm'l Paper	3,115,870	615,870	2,500,000	0	0	0	3,115,870	Various
Water Mains, Pumping and Storage Facilities	Mains/ Pump Stations/Assoc Fac.	Citywide	Revenue Bonds	59,157,840	59,157,469	371	0	0	0	59,157,840	Various
Water Mains, Pumping and Storage Facilities	Mains/ Pump Stations/Assoc Fac.	Citywide	Capital Construction	107,687,516	103,006,386	4,681,130	5,125,000	14,801,000	23,424,000	151,037,516	Various
Water Mains, Pumping and Storage Facilities	Mains/ Pump Stations/Assoc Fac.	Citywide	Comm'l Paper	148,711,139	123,856,994	24,854,145	43,585,000	22,802,000	34,588,000	249,686,139	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Revenue Bonds	23,064,929	23,063,898	1,031	0	0	0	23,064,929	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Capital Construction	33,872,720	31,702,498	2,170,222	751,000	754,000	900,000	36,277,720	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Comm'l Paper	36,221,916	34,079,184	2,142,732	3,749,000	3,746,000	3,600,000	47,316,916	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Capital Construction	29,724,842	25,651,785	4,073,057	18,000,000	0	0	47,724,842	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Comm'l Paper	1,555,863	1,555,863	0	0	0	0	1,555,863	Various
Water Studies and Master Plans	Studies and Master Plans	Citywide	Capital Construction	12,877,644	12,242,750	634,894	1,000,000	500,000	500,000	14,877,644	Various
Water Wholesale Customer Facilities	Wholesale Customer Facilities	Citywide	Capital Construction	990,644	925,119	65,525	0	0	0	990,644	Various

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Total Water Utilities Capital Improvements				1,840,935,160	1,689,648,367	151,286,793	236,100,000	249,000,000	257,500,000	2,583,535,160	