

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 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, payment processing 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.

ACCOMPLISHMENTS FOR FY2002-03

1. Began comprehensive water and wastewater system management plans.
2. Began construction of improvements at the Bachman Water Treatment Plant to increase water treatment capacity.
3. Began Reclaimed Water Implementation Plan.
4. Completed expansion of the Central Wastewater Treatment Plant Peak Flow Basin.
5. Began assessment of biogas co-generation project to produce electricity from digester methane gas.

OBJECTIVES FOR FY2003-04

1. Replace Greenville Water Pump Station.
2. Replace White Rock Control Center SCADA System.
3. Continue construction of the Lake Fork water supply pipeline.
4. Implement Reclaimed Water Pilot Project at Cedar Crest Golf Course.
5. Select a consultant to assist in the evaluation and selection of a new Customer, Information, Accounting and Billing System (CIABS).

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.

Southside Wastewater Treatment Plant – diffused air improvements (\$1,850,000) and energy recovery (\$4,400,000)

Central Wastewater Treatment Plant – maintenance facility (\$373,000)

Bachman Water Treatment Plant – ozone improvements \$3,250,000

Sunset Water Pump Station - \$467,000

Lake Fork - \$2,000,000

Pipeline corrosion control - \$60,000

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PROJECT CATEGORY DESCRIPTIONS

Homeowner Extensions and Meters Funding for construction of water and wastewater main extensions to homeowners and meters for water service.

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

Main Replacements and Pump Stations Funding for 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 Funding to acquire 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 Projects include the maintenance and renovation of major water and wastewater facilities.

Relocations In Advance of Paving Funding for the 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 Funding for studies related to water and wastewater operations and master plan updates.

Wastewater Treatment Plants and Associated Facilities Funding to design and construct renovations, expansions, and improvements to the Central and Southside Wastewater Treatment Plants.

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

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

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 IMPROVEMENT PROGRAM

<u>Source of Funds</u>	<u>Budget as of 06-30-03</u>	<u>Spent or Committed 06-30-03</u>	<u>Remaining as of 06-30-03</u>	<u>FY2003-04 Adopted</u>	<u>FY2004-05 Estimated</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
Capital Construction - Wastewater	352,771,111	322,463,842	30,307,269	10,818,000	14,184,000	23,555,000	26,902,000	428,230,111
Capital Construction - Water	413,477,528	388,583,737	24,893,791	29,779,000	35,877,000	41,354,000	44,587,000	565,074,528
Commercial Paper - Wastewater	312,687,136	256,315,757	56,371,379	69,179,000	65,717,000	69,014,000	72,867,000	589,464,136
Commercial Paper - Water	499,315,952	455,737,460	43,578,492	113,321,000	120,283,000	114,986,000	113,133,000	961,038,952
Revenue Bonds - Wastewater	82,966,200	82,734,099	232,101	0	0	0	0	82,966,200
Revenue Bonds - Water	134,961,483	134,832,964	128,519	0	0	0	0	134,961,483
Water Utilities - Public Art Fund	1,038,000	203,961	834,039	103,000	39,000	91,000	11,000	1,282,000
Total Sources of Funds	1,797,217,410	1,640,871,819	156,345,591	223,200,000	236,100,000	249,000,000	257,500,000	2,763,017,410

WATER UTILITIES CAPITAL IMPROVEMENT PROGRAM

<u>Use of Funds</u>	<u>Budget as of 06-30-03</u>	<u>Spent or Committed 06-30-03</u>	<u>Remaining as of 06-30-03</u>	<u>FY2003-04 Adopted</u>	<u>FY2004-05 Estimated</u>	<u>FY2005-06 Estimated</u>	<u>FY2006-07 Estimated</u>	<u>Total Estimated Cost</u>
Homeowners and Unserved Areas	62,051,306	59,271,693	2,779,613	9,360,000	9,360,000	9,360,000	9,360,000	99,491,306
Inflow/Infiltration Remediation	63,320,261	63,283,506	36,755	0	0	0	0	63,320,261
Main Replacements and Pump Stations	478,026,131	432,922,739	45,103,392	69,251,000	75,954,000	81,898,000	83,777,000	788,906,131
Public Art	1,038,000	203,961	834,039	103,000	39,000	91,000	11,000	1,282,000
Raw Water Pumping and Transmission	86,953,593	81,223,341	5,730,252	38,973,000	37,300,000	53,327,000	29,200,000	245,753,593
Rehabilitation and Equipment	105,517,604	94,850,533	10,667,071	7,400,000	7,512,000	7,505,000	7,604,000	135,538,604
Relocations in Advance of Paving	136,593,176	127,171,355	9,421,821	7,949,000	9,000,000	9,000,000	9,000,000	171,542,176
Service Centers, Offices and Research Facilities	31,864,754	30,801,088	1,063,666	15,000,000	15,000,000	0	0	61,864,754
Studies and Master Plans	22,836,843	16,449,634	6,387,209	0	3,500,000	2,500,000	3,200,000	32,036,843
Wastewater Treatment Plants and Associated Facilities	379,432,875	337,082,215	42,350,660	46,537,000	39,005,000	43,719,000	50,248,000	558,941,875
Water Supply Reservoirs and Dams	18,017,314	16,322,582	1,694,732	0	0	0	0	18,017,314
Water Treatment Plants and Associated Facilities	410,549,369	380,338,689	30,210,680	28,627,000	39,430,000	41,600,000	65,100,000	585,306,369
Wholesale Customer Facilities (Funded by Customer Cities)	1,016,184	950,484	65,700	0	0	0	0	1,016,184
Total Uses of Funds	1,797,217,410	1,640,871,819	156,345,591	223,200,000	236,100,000	249,000,000	257,500,000	2,763,017,410

WATER UTILITIES CAPITAL IMPROVEMENT PROGRAM

Project	Project Category	Council District	Funding Source	Budget as of 06/30/03	Spent or Committed 06/30/03	Remaining as of 06/30/03	FY2003-04 Adopted	FY2004-05 Estimated	FY2005-06 Estimated	FY2006-07 Estimated	Total Estimated Cost	In Service Date
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Constrctn	16,673,579	15,525,237	1,148,342	0	0	2,000,000	0	18,673,579	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Rev Bnd	44,207,243	44,207,243	0	0	0	0	0	44,207,243	Various
Bachman Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	55,207,420	30,035,881	25,171,539	26,127,000	18,500,000	5,200,000	0	105,034,420	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Rev Bnd	14,565,387	14,565,387	0	0	0	0	0	14,565,387	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Capital Constrctn	49,194,365	44,887,948	4,306,417	0	355,000	1,500,000	0	51,049,365	Various
Central Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Comm'l Paper	65,519,370	49,301,297	16,218,073	12,900,000	13,300,000	23,000,000	8,000,000	122,719,370	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Rev Bnd	4,671,257	4,671,257	0	0	0	0	0	4,671,257	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	128,834,169	128,833,168	1,001	0	8,300,000	30,400,000	43,100,000	210,634,169	Various
East Side Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Constrctn	31,199,821	28,535,377	2,664,444	0	0	0	20,000,000	51,199,821	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Capital Constrctn	27,443,178	26,217,824	1,225,354	0	2,000,000	4,000,000	2,000,000	35,443,178	Various
Elm Fork Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	102,312,702	102,312,702	0	0	10,630,000	0	0	112,942,702	Various
Major Maintenance and Rehabilitation	Rehabilitation and Equipment	Citywide	Rev Bnd	207,283	207,283	0	0	0	0	0	207,283	Various
Public Art Program - Wastewater	Public Art	Citywide	Capital Constrctn	648,000	0	648,000	36,000	1,000	5,000	11,000	701,000	Various
Public Art Program - Water	Public Art	Citywide	Capital Constrctn	390,000	203,961	186,039	67,000	38,000	86,000	0	581,000	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Capital Constrctn	41,801,968	40,567,635	1,234,333	0	200,000	8,900,000	200,000	51,101,968	Various

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Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Rev Bnd	2,375,507	2,366,610	8,897	0	0	0	0	2,375,507	Various
Raw Water Pumping and Transmission Facilities	Raw Water Pumping and Trans.	Citywide	Comm'l Paper	42,776,118	38,289,096	4,487,022	38,973,000	37,100,000	44,427,000	29,000,000	192,276,118	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	Citywide	Comm'l Paper	79,107,223	63,466,819	15,640,404	20,986,000	23,517,000	24,795,000	23,767,000	172,172,223	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	Citywide	Rev Bnd	14,984,540	14,944,132	40,408	0	0	0	0	14,984,540	Various
Sewer Mains, Interceptors and Lift Stations	Main Rplcmnts/ Pump Stations	Citywide	Capital Constructn	87,590,624	78,271,595	9,319,029	4,600,000	5,417,000	13,100,000	14,100,000	124,807,624	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Comm'l Paper	131,610,769	110,263,533	21,347,236	31,887,000	24,100,000	17,619,000	37,500,000	242,716,769	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Capital Constructn	96,295,631	95,855,361	440,270	1,750,000	1,250,000	1,600,000	4,748,000	105,643,631	Various
Southside Wastewater Treatment Plant	Wastewater Trtmnt Plants/Assoc. Fac.	Citywide	Rev Bnd	22,247,353	22,208,689	38,664	0	0	0	0	22,247,353	Various
Southwest Water Treatment Plant	Water Treatment Plants/ Assoc. Fac.	Citywide	Comm'l Paper	0	0	0	2,500,000	0	0	0	2,500,000	Various
Studies and Master Plans	Studies and Master Plans	Citywide	Comm'l Paper	5,452,000	5,452,000	0	0	0	0	0	5,452,000	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Comm'l Paper	1,099,078	1,099,078	0	0	0	0	0	1,099,078	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Capital Constructn	16,046,126	14,351,395	1,694,731	0	0	0	0	16,046,126	Various
Supply Reservoirs and Dams	Water Supply Reservoirs and Dams	Citywide	Rev Bnd	872,110	872,110	0	0	0	0	0	872,110	Various
Wasterwater Relocations	Relocations In Adv. of Paving	Citywide	Rev Bnd	490,303	490,303	0	0	0	0	0	490,303	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Rev Bnd	23,442,229	23,422,122	20,107	0	0	0	0	23,442,229	Various

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Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Capital Constrctn	29,117,958	29,101,311	16,647	0	0	0	0	29,117,958	Various
Wastewater Administrative Order	Inflow/Infiltration Remediation	Citywide	Comm'l Paper	10,760,074	10,760,074	0	0	0	0	0	10,760,074	Various
Wastewater Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Capital Constrctn	42,008,328	34,044,103	7,964,225	3,700,000	3,762,000	3,755,000	3,754,000	56,979,328	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Capital Constrctn	21,428,892	20,650,621	778,271	200,000	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	0	1,185,544	Various
Wastewater Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Rev Bnd	1,435,341	1,435,341	0	0	0	0	0	1,435,341	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Rev Bnd	1,464,374	1,464,374	0	0	0	0	0	1,464,374	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Comm'l Paper	18,885,212	15,719,546	3,165,666	3,406,000	3,800,000	3,600,000	3,600,000	33,291,212	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Capital Constrctn	18,657,661	17,148,937	1,508,724	568,000	700,000	900,000	900,000	21,725,661	Various
Wastewater Relocations	Relocations In Adv. of Paving	Citywide	Rev Bnd	4,619,693	4,486,771	132,922	0	0	0	0	4,619,693	Various
Wastewater Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Capital Constrctn	1,055,533	876,493	179,040	0	0	0	0	1,055,533	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	0	3,473,811	Various
Wastewater Studies and Master Plans	Studies and Master Plans	Citywide	Comm'l Paper	2,145,133	2,145,133	0	0	1,000,000	0	0	3,145,133	Various
Wastewater Studies and Master Plans	Studies and Master Plans	Citywide	Capital Constrctn	7,396,579	1,602,108	5,794,471	0	2,500,000	2,500,000	3,200,000	15,596,579	Various
Wastewater Wholesale Customer Facilities	Wholesale Customer Facilities	Citywide	Capital Constrctn	25,540	25,365	175	0	0	0	0	25,540	Various

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Water Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Comm'l Paper	980,162	980,162	0	0	0	0	0	980,162	Various
Water Facilities Repairs and Rehabilitation	Rehabilitation and Equipment	Citywide	Capital Constrctn	62,321,831	59,618,985	2,702,846	3,700,000	3,750,000	3,750,000	3,850,000	77,371,831	Various
Water Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Comm'l Paper	615,870	615,870	0	2,500,000	0	0	0	3,115,870	Various
Water Homeowners, Unserved Areas, Extensions and Improvements	Homeowners and Unserved Areas	Citywide	Capital Constrctn	37,385,659	35,384,317	2,001,342	6,660,000	9,160,000	9,160,000	9,160,000	71,525,659	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	Citywide	Rev Bnd	59,151,130	59,150,758	372	0	0	0	0	59,151,130	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	Citywide	Comm'l Paper	124,449,585	113,676,660	10,772,925	39,815,000	41,953,000	31,359,000	37,433,000	275,009,585	Various
Water Mains, Pumping and Storage Facilities	Main Rplcmnts/ Pump Stations	Citywide	Capital Constrctn	112,743,029	103,412,774	9,330,255	3,850,000	5,067,000	12,644,000	8,477,000	142,781,029	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Comm'l Paper	35,978,280	32,832,277	3,146,003	3,406,000	3,800,000	3,600,000	3,600,000	50,384,280	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Capital Constrctn	33,303,720	31,954,465	1,349,255	569,000	700,000	900,000	900,000	36,372,720	Various
Water Relocations Due to Paving	Relocations In Adv. of Paving	Citywide	Rev Bnd	23,193,933	23,074,683	119,250	0	0	0	0	23,193,933	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Capital Constrctn	25,724,842	24,840,216	884,626	15,000,000	15,000,000	0	0	55,724,842	Various
Water Service Centers, Offices and Research Facilities	Service Ctrs, Ofc, Research Fac.	Citywide	Comm'l Paper	1,610,568	1,610,568	0	0	0	0	0	1,610,568	Various
Water Studies and Master Plans	Studies and Master Plans	Citywide	Capital Constrctn	7,843,131	7,250,393	592,738	0	0	0	0	7,843,131	Various
Water Wholesale Customer Facilities	Wholesale Customer Facilities	Citywide	Capital Constrctn	990,644	925,119	65,525	0	0	0	0	990,644	Various
Total				1,797,217,410	1,640,871,819	156,345,591	223,200,000	236,100,000	249,000,000	257,500,000	2,763,017,410	