

WASTEWATER TREATMENT FACILITIES IMPROVEMENTS

The Wastewater Treatment System collects, conveys and processes wastewater from an estimated 2.0 million people, generated in a service area which includes the City, several municipalities and unincorporated communities in the Houston metropolitan area. The system consists of approximately 6,200 miles of sanitary sewer lines, over 425,000 service connections, 358 lift stations, 41(5 major and 36 satellite) wastewater treatment plants, and three major sludge treatment facilities. The average daily wastewater flow through the system for the Fiscal Year 2001 was 220 million gallons per day (mgd). As reflected by state permits, the effective treatment capacity of the system is 562 mgd. The permitted capacity of plants that are a part of the wastewater system treatment ranges from 0.20 mgd for the smallest plant to over 200 mgd for the 69th Street Wastewater Plant.

The City finances capital improvements and expansion through several funding mechanisms, which include prior and junior lien bonds, renewal and replacement funds and impact fees.

Prior to granting a building permit for construction, the City evaluates the wastewater system's ability to transport and treat the estimated volumes of additional wastewater. Impact fees are collected, at least in part, to recover the cost of facilities previously constructed. These fees can be applied to the construction of new facilities providing additional capacity.

The Wastewater Treatment Facilities Capital Improvements Program provides for the continued upgrading of the wastewater collection and treatment system. Additional funds are provided to comply with the regulations issued by the Texas Natural Resource Conservation Commission (TNRCC) and the U.S. Environmental Protection Agency (EPA).

Major capital projects to be undertaken in FY2003 include the following:

- Rehabilitation and replacement of neighborhood sewer systems in various service areas.
- Rehabilitation of portions of the collection system to remove excessive infiltration and known overflows within the sewage system,
- Rehabilitation or replacement of various wastewater lift stations,
- Improvements to the 69th Street Wastewater Treatment Plant.
- Continued installation of sewer service to areas not previously provided such service (\$6.5 million in FY03)
- Rehabilitation of Neighborhood sewers to improve service and eliminate sewage backups (\$31 million in FY03)

SOURCE OF FUNDS SUMMARY (\$THOUSANDS)									
Source of Funds	Appropriations through Dec. 31, 2000	Estimated Appropriations Jan.1 - June 30 2002	Fiscal Year Planned Appropriations					Total	Total
			2003	2004	2005	2006	2007	2003-2007	
Water & Sewer Ren. & Rep. Fund	38,435		75					75	38,510
Water & Sewer Cons. Const. Fund	512,457	77,276	130,180	164,150	165,144	173,150	178,150	810,774	1,400,507
Total	550,892	77,276	130,255	164,150	165,144	173,150	178,150	810,849	1,439,017

WasteWater Facilities

FY2003 - 2007 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2003	FY2004	FY2005	FY2006	FY2007	TOTAL FY2003 - 2007
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

WasteWater Facilities

R-0019	ALL	MISCELLANEOUS CONSTRUCTION ACQUISITION, ENGINEERING & LEGAL	19,000 C	8,000 C	8,000 C	8,000 C	8,000 C	51,000C
R-0265	ALL	WASTEWATER TREATMENT AND SLUDGE PLANT RENEWAL/REPLACEMENT	9,410 DC	15,000 DC	30,000 DC	25,000 DC	30,000 DC	109,410DC
R-0266	ALL	NEIGHBORHOOD SEWER REHABILITATION VARIOUS SERVICE AREAS	30,454 C	32,000 C	32,000 C	32,000 C	32,000 C	158,454C
R-0267	ALL	PUMP AND LIFT STATION RENEWAL/REPLACEMENT	9,839 DC	10,000 DC	13,500 DC	16,000 DC	21,000 DC	70,339DC
R-0268	ALL	REHABILITATION/REPLACEMENT OF VARIOUS WASTEWATER FACILITIES	200 D	1,474 DC	1,474 DC	1,500 DC	2,000 DC	6,648DC
R-0290	E	HORSEPEN GULLY REGIONAL WASTEWATER TREATMENT PLANT					3,000 D	3,000D
R-0298	D	ALMEDA SIMS WASTEWATER TREATMENT AND SLUDGE PROCESSING FACILITY		19,000 C			3,000 D	22,000DC
R-0302	ALL	WASTEWATER FACILITIES SAFETY IMPROVEMENTS		589 DC	589 DC	600 DC	600 DC	2,378DC
R-0500	ALL	UTILITY IMPROVEMENT UNDER STREET & BRIDGE CIP PROJECTS	3,000 C	3,000 C	3,500 C	4,000 C	4,000 C	17,500C
R-0509	I	69TH STREET WASTEWATER TREATMENT PLANT IMPROVEMENTS	4,000 C	6,000 C	1,930 D	10,000 C	2,000 D	23,930DC
R-0512	ALL	SUPERVISORY CONT. & DATA ACQUISITION (SCADA) SYS. & PROCESS IMPROVMENTS	3,012 DC	3,000 C	400 D	2,500 C		8,912DC

LEGEND: A = ACQUISITION D = DESIGN C = CONSTRUCTION E = EQUIPMENT O = OTHER R = ART

WasteWater Facilities

FY2003 - 2007 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2003	FY2004	FY2005	FY2006	FY2007	TOTAL FY2003 - 2007
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

WasteWater Facilities

R-0521		GOVERNMENT AGENCIES - SEWER LINE REPLACEMENT	2,000 DC	1,950 DC	1,950 DC	1,950 DC	1,950 DC	9,800DC
R-0534	D	CULLEN MAINTENANCE FACILITY		983 D	5,000 C			5,983DC
R-0535	ALL	NORTHWEST MAINTENANCE FACILITY FOR WASTEWATER OPERATIONS			980 D	5,000 C		5,980DC
R-0536	ALL	PLANT CONSOLIDATION	5,500 C	1,965 D	7,860 C	5,000 DC	3,000 C	23,325DC
R-0537	I	DOWNTOWN PROJECTS	2,750 DC					2,750DC
R-0541	ALL	INFRASTRUCTURE MANAGEMENT SYSTEM	700 C	2,500 DC				3,200DC
R-0542	ALL	CONSTRUCTION MANAGEMENT	1,500 C	7,500C				
R-0543	ALL	SEWER MODEL MANAGEMENT	3,800 D	4,000 D	4,000 D	4,000 D	4,000 D	19,800D
R-0544	ALL	NEIGHBORHOOD SEWER SYSTEM ANALYSIS	7,500 D	37,500D				
R-0545	I	COTSWOLD 2000	2,300 DC					2,300DC
R-0546	ALL	FACILITY EXPANSION AND IMPROVEMENT AT 718 E. BURRESS		1,000 D	2,000 C		3,000 DC	6,000DC

LEGEND: A = ACQUISITION D = DESIGN C = CONSTRUCTION E = EQUIPMENT O = OTHER R = ART

WasteWater Facilities

FY2003 - 2007 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2003	FY2004	FY2005	FY2006	FY2007	TOTAL FY2003 - 2007
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

WasteWater Facilities

R-0800	ALL	COLLECTION SYS. - SPONSOR PARTICIPATION CATEGORICAL (RESIDENT.)	4,000 C	20,000C				
R-0801	ALL	PROVIDING SEWER SERVICE TO AREAS INSIDE THE CITY CURRENTLY NOT SERVED	8,500 C	3,000 DC	3,000 C	5,000 DC	8,000 C	27,500DC
R-0802	ALL	COLLECTION SYS. - SPONSOR PARTICIPATION CATEGORICAL (COMMERC.)	600 C	3,000C				
R-1000	ALL	Evaluation of Wastewater Treatment Plant Service Area	1,500 D	5,000 C	4,000 DC	6,000 DC	8,000 DC	24,500DC
R-2003	BHI	NORTHSIDE SEWER RELIEF TUNNEL REHABILITATION I		8,000 DC	10,000 DC	10,000 DC	10,000 DC	38,000DC
R-2010	I	BARGE LOADING FACILITY AT 69TH ST. UPGRADE		1,000 C				1,000C
R-2011	ALL	NEIGHBORHOOD SEWER SYSTEMS IMPROVEMENTS	10,548 DC	12,000 DC	15,000 DC	15,000 DC	24,000 DC	76,548DC
R-2013	ALL	LARGE DIAMETER SEWER (LDS) REHABILITATION PROGRAM		11,000 DC	6,000 C	5,000 DC		22,000DC
R-ART	VAR	UNDETERMINED CIVIC ART PROJECTS	142 O	89 O	361 O			592O

TOTAL PLAN:

	130,255	164,150	165,144	173,150	178,150	810,849
--	---------	---------	---------	---------	---------	---------

LEGEND: A = ACQUISITION D = DESIGN C = CONSTRUCTION E = EQUIPMENT O = OTHER R = ART