

WATER UTILITY SYSTEM FACILITIES IMPROVEMENTS

The Water Utility System (System) relies on both surface and ground water supplies. Surface water is taken from Lake Conroe and Lake Houston in the San Jacinto River System and Lake Livingston in the Trinity River System. In aggregate, these supplies are sufficient to meet the City's expected water requirements beyond the year 2035. However, additional water supplies must be developed to meet our long-term needs. In addition, the System continues to shift its supply source from groundwater to surface water in accordance with state mandates.

The System delivers treated surface and ground water to customers through a series of storage tanks, pump stations and transmission and distribution mains. This potable water is sold to domestic, commercial, industrial, governmental and other customers in the Houston metropolitan area. Untreated surface water is delivered for sale to governmental, industrial and agricultural customers.

The Water Utility System Capital Improvements Program (CIP) continues to focus on neighborhood renewal by replacing old, unreliable water lines along with upgrading/improving the City's water transmission and treatment system to replace an aging infrastructure and to meet the demands of new growth. The five-year program totals \$742.8 million and is financed with revenue bonds.

Highlights of the FY2006-2010 CIP include:

- Expansion and improvement of the Southeast and East Water Purification Plants.
- Construction of surface water transmission lines to provide a reliable surface water supply for Houston.
- Installation of fire hydrants on undersized water lines to increase fire protection.
- Increase security of water treatment plants and water supply sources to meet the Federal Vulnerability Assessment Requirements.
- Rehabilitation of Large Diameter Water Transmission Lines.
- Continued replacement of neighborhood water mains to improve customer service, water quality, system reliability and assure compliance with TCEQ regulations (\$56.6 million in FY2006).
- Improvements of water distribution system in Houston Hope areas (S-0036).
- Increased participation in water main construction cost with Developers to promote inner city development.

2006-2010 CAPITAL IMPROVEMENT PLAN

CITY OF HOUSTON

SOURCE OF FUNDS SUMMARY (\$THOUSANDS)									
Source of Funds	Appropriations through Dec. 31, 2004	Estimated Appropriations Jan.1 - June 30 2005	Fiscal Year Planned Appropriations					Total	Total
			2006	2007	2008	2009	2010	2006-2010	
Annexed District Bond Fund	5,361							0	5,361
C.I.W.A. Bond Fund	36,000							0	36,000
Water & Sewer Cons. Const. Fund	1,583,367	127,143	152,076	162,028	157,906	144,188	126,579	742,777	2,453,287
Water & Sewer Ren. & Rep. Fund	24,621							0	24,621
Total	1,649,349	127,143	152,076	162,028	157,906	144,188	126,579	742,777	2,519,269

Water Facilities

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

Water Facilities

S-0012	C,D,E	SOUTHEAST WATER PURIFICATION PLANT EXPANSION/IMPROVEMENTS	10,000 C	22,800 C	15,000 C	7,600 C		55,400C
S-0019	ALL	EMERGENCY NEEDS (ACQUISITION, ENGINEERING & LEGAL)	7,500 AC	9,000 AC	9,000 AC	9,000 AC	9,000 AC	43,500AC
S-0035	ALL	NEIGHBORHOOD RENEWAL: MASTER CATEGORICAL - WATER MAINS	45,465 DC	64,497 DC	54,906 DC	59,688 DC	53,679 DC	278,235DC
S-0036	B,H,I,D	HOUSTON HOPE PROJECT	640 D	3,831 C				4,471DC
S-0037	ALL	CORROSION PREVENTION AND REHABILITATION PROGRAM	1,600 C	8,000C				
S-0056	I	EAST WATER PURIFICATION PLANT UPGRADE AND OPTIMIZATION	5,000 C	2,000 D	10,000 C	10,000 C		27,000DC
S-0200	ALL	WATER WELL REWORK CATEGORICAL PROJECT	1,500 C	7,500C				
S-0500	ALL	UTILITY IMPROVEMENTS UNDER STREET & BRIDGE AND OTHER CIP PROJECTS	10,341 C	6,000 C	6,500 C	6,500 C	6,500 C	35,841C
S-0521	ALL	WATER MAIN REPLACEMENT-GOVERNMENTAL AGENCIES	4,000 C	4,200 C	4,300 C	4,300 C	4,300 C	21,100C
S-0522	I	CENTRAL CONTROL SYSTEM EXPANSION	2,000 C	10,000C				
S-0530	ALL	WELL HEAD PROTECTION	1,000 C	5,000C				
S-0533	ALL	SAFE DRINKING WATER ACT REQUIREMENTS	4,500 C					4,500C

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

Water Facilities

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

Water Facilities

S-0536	ALL	PLANT CONSOLIDATION	750 C	3,750C				
S-0600	ALL	STORAGE TANK REHABILITATION CATEGORICAL PROJECT	5,000 DC	25,000DC				
S-0610	ALL	NEW STORAGE TANKS	6,400 C	250 D		2,000 C		8,650DC
S-0700	ALL	GRID EXTENSIONS CATEGORICAL PROJECT	2,780 DC	2,650 DC	4,950 DC	2,650 DC	2,650 DC	15,680DC
S-0701	ALL	ON-CALL REHAB & REPLACEMENT LARGE DIAMETER WATER LINES (16-INCH AND LARGER)	1,500 C	1,500 C	4,500 C		1,500 C	9,000C
S-0702	ALL	VALVE REPLACEMENT & INSTALLATION	3,000 C		3,000 C		3,000 C	9,000C
S-0800	ALL	SPONSOR PARTICIPATION-WATER MAINS CATEGORICAL PROJECT (RESIDENTIAL)	5,000 C	25,000C				
S-0801	ALL	PROVIDING WATER SERVICE TO AREAS INSIDE THE CITY CURRENTLY NOT SERVED BY THE CITY	2,500 C	2,000 C	2,000 C	2,000 C	2,000 C	10,500C
S-0802	ALL	SPONSOR PARTICIPATION-WATER MAINS CATEGORICAL PROJECT (COMMERCIAL)	500 C	2,500C				
S-0900	ALL	SURFACE WATER TRANSMISSION	25,600 DC	20,450 DC	20,900 DC	17,600 DC	21,100 DC	105,650DC
S-0901	ALL	LARGE DIAMETER INSPECTION, REPLACEMENT/REHABILITATION	3,000 C	15,000C				

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

Water Facilities

FY2006 - 2010 CAPITAL IMPROVEMENT PLAN
(\$THOUSANDS)

CIP NO.	COUNCIL DISTRICT	PROJECT NAME	FY2006	FY2007	FY2008	FY2009	FY2010	TOTAL FY2006 - 2010
---------	------------------	--------------	--------	--------	--------	--------	--------	------------------------

Water Facilities

S-0936	All	WELL COLLECTION LINE AND LINE FLOW METER PROGRAM	1,000 C	5,000C				
S-1000	ALL	PUMP STATION UPGRADE	1,500 DC	7,500DC				

TOTAL PLAN:

152,076	162,028	157,906	144,188	126,579	742,777
---------	---------	---------	---------	---------	---------

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