

The seal of the City of Houston, Texas, is a circular emblem. It features a central illustration of a steam locomotive with a star above it, and a plow below. The words "CITY OF HOUSTON" are written in an arc at the top, and "TEXAS" is written in an arc at the bottom. The seal is rendered in a light gray, semi-transparent style.

WATER UTILITY SYSTEM FACILITIES

Water Utility System

The Water Utility System delivers treated surface and ground water to customers through a series of storage tanks, pump stations, transmission and distribution mains. This potable water is sold to domestic, commercial, industrial, governmental and other customers in the Houston metropolitan area. In addition, untreated surface water is delivered for sale to governmental, industrial and agricultural customers. The System provides water to the residents of Houston as well as municipalities, municipal utility districts, and water authorities outside the City limits. The service population is approximately 4 million.

The System relies on 86% Surface Water and 14% Groundwater sources. Surface water is sourced 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 demands beyond the year 2060. However, additional water supply strategies have been developed to meet the long-term needs. In addition, the System continues to shift its supply source from groundwater to surface water in accordance with state mandates.

The Capital Improvement Plan (CIP) provides an estimate of delivery by fiscal year for the next five years. The FY 2022-2026 CIP includes approximately \$1.65 billion of Water Utility System improvements financed by a combination of pay-as-you-go, revenue bonds and proposed contributed capital.

Highlights of the FY 2022-2026 CIP:

- Continue funding the Design-Build contract for the 320 MGD expansion of the Northeast Water Purification Plant with regional water authority funding partners
- Continue to construct surface water transmission lines to access and deliver expanded treated surface water supplies for Houston and surrounding water authorities

- Continue funding for replacement of neighborhood water mains to improve fire protection, water quality, system reliability and assure compliance with Texas Commission on Environmental Quality (TCEQ) regulations
- Install chloramination chemical systems at 30 groundwater pump stations
- Rehabilitate wells, ground storage tanks and pump stations as part of long range asset management

Project Allocation	Fiscal Year Planned Appropriations					2022-2026
	2022	2023	2024	2025	2026	
Planning						
Acquisition-Land	28,553	552	550	550	550	30,755
Design	19,763	17,903	10,950	9,700	10,100	68,416
Construction	563,606	230,383	328,744	213,421	150,354	1,486,509
Equipment Acquisition	5,388	5,498	5,500	5,500	21,555	43,441
Salary Recovery						
Other	5,625	5,200	3,950	4,750	3,950	23,475
Total Allocation	622,936	259,536	349,694	233,921	186,508	1,652,596
Source of Funds						
4042 - DDSRF CAPITAL FUND-DRAINAGE CHARGE						
5430 - Federal State Local - HPW Pass thru DDSR						
8500 - HPW-W&S Syst Consolidated Constr Fd	282,818	259,536	289,765	210,012	186,508	1,228,640
8505 - Water Authorities Capital Contrib-NEWPP	319,770					319,770
8509 - HPW-SETL Capital Contribution	20,348		50,756	20,992		92,097
8510 - HPW-SETL Construction Fund			9,172	2,917		12,089
Total Funds	622,936	259,536	349,694	233,921	186,508	1,652,596

Some projects in this section are related to the impact of Hurricane Harvey DR4332 and it is the City's intent to seek reimbursement from the Federal Emergency Management Agency (FEMA) and any other eligible sources for such expenditures, with the FEMA share being 90% of eligible costs.

**WATER UTILITY SYSTEM FACILITIES - Summary of Funds
2022-2026 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project	Fiscal Year Planned Appropriations					2022-2026
		2022	2023	2024	2025	2026	
S-000019	Emergency Needs for Water Utility						
	8500 - HPW-W&S Syst Consolidated Constr Fd	541	552	550	550	550	2,743
	Project Total	541	552	550	550	550	2,743
S-000020	Miscellaneous Water Needs						
	8500 - HPW-W&S Syst Consolidated Constr Fd	97	308	238	337	238	1,219
	Project Total	97	308	238	337	238	1,219
S-000035	Neighborhood Water Main Replacement						
	8500 - HPW-W&S Syst Consolidated Constr Fd	9,277	38,332	34,500	38,500	29,500	150,109
	Project Total	9,277	38,332	34,500	38,500	29,500	150,109
S-000056	East Water Purification Plant						
	8500 - HPW-W&S Syst Consolidated Constr Fd	29,008		100,000	100,000	100,000	329,008
	Project Total	29,008		100,000	100,000	100,000	329,008
S-000065	NE Water Purification Plant Expansion						
	8500 - HPW-W&S Syst Consolidated Constr Fd	81,366					81,366
	8505 - Water Authorities Capital Contrib-NEWPP	319,770					319,770
	Project Total	401,136					401,136
S-000100	New / Replacement Ground Water Wells						
	8500 - HPW-W&S Syst Consolidated Constr Fd	1,200	7,750	9,000	7,750	1,250	26,950
	Project Total	1,200	7,750	9,000	7,750	1,250	26,950
S-00019A	Real Estate Annual Appropriation						
	8500 - HPW-W&S Syst Consolidated Constr Fd	541	552	550	550	550	2,743
	Project Total	541	552	550	550	550	2,743
S-000200	Water Well Renewal Program						
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,031	3,864	5,000	5,000	5,000	23,895
	Project Total	5,031	3,864	5,000	5,000	5,000	23,895

**WATER UTILITY SYSTEM FACILITIES - Summary of Funds
2022-2026 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2022-2026	
		2022	2023	2024	2025	2026		
S-000500	Water Improvements under M/N							
	8500 - HPW-W&S Syst Consolidated Constr Fd	15,232	20,466	14,117	14,246	2,666	66,727	
	Project Total	15,232	20,466	14,117	14,246	2,666	66,727	
S-000521	Water Main Replacement by Other Govt							
	8500 - HPW-W&S Syst Consolidated Constr Fd	2,920	2,440	1,400	1,400	1,400	9,560	
	Project Total	2,920	2,440	1,400	1,400	1,400	9,560	
S-000600	Water Storage Tank Rehabilitation							
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,305	10,930	8,000	8,000	8,000	40,235	
	Project Total	5,305	10,930	8,000	8,000	8,000	40,235	
S-000700	Water Main Grid Extensions Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd	1,000	3,312		3,200		7,512	
	Project Total	1,000	3,312		3,200		7,512	
S-000701	Lg Diameter Water Line Rehab							
	8500 - HPW-W&S Syst Consolidated Constr Fd		2,119	14,540	7,000	7,000	30,659	
	Project Total		2,119	14,540	7,000	7,000	30,659	
S-000702	Valve Replacement & Installation Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd		4,416		4,500		8,916	
	Project Total		4,416		4,500		8,916	
S-000800	Sponsor Participation-Water Mains Prog.							
	8500 - HPW-W&S Syst Consolidated Constr Fd	2,164	2,208	2,000	2,000	2,000	10,372	
	Project Total	2,164	2,208	2,000	2,000	2,000	10,372	
S-000890	Lake Houston Dam Projects							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		10,699				10,699	
	5430 - Federal State Local - HPW Pass thru DDSR		32,097				32,097	
	Project Total		42,796				42,796	

**WATER UTILITY SYSTEM FACILITIES - Summary of Funds
2022-2026 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2022-2026	
		2022	2023	2024	2025	2026		
S-000894	San Jacinto River Authority							
	8500 - HPW-W&S Syst Consolidated Constr Fd	824	841	800	800		3,266	
	Project Total	824	841	800	800		3,266	
S-000900	Surface Water Transmission Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd	102,189	123,529	61,156			286,874	
	8509 - HPW-SETL Capital Contribution	20,348		50,756	20,992		92,097	
	8510 - HPW-SETL Construction Fund			9,172	2,917		12,089	
	Project Total	122,537	123,529	121,085	23,909		391,060	
S-000901	Condition Assessment and Rehabilitation							
	8500 - HPW-W&S Syst Consolidated Constr Fd	3,547	5,910	5,500	5,500	5,500	25,957	
	Project Total	3,547	5,910	5,500	5,500	5,500	25,957	
S-000956	Automatic Meter Reading Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd					16,055	16,055	
	Project Total					16,055	16,055	
S-000958	Meter Replacement & Upgrade Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd	5,388	5,498	5,500	5,500	5,500	27,386	
	Project Total	5,388	5,498	5,500	5,500	5,500	27,386	
S-001000	Pump Station Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd	12,416	25,232	25,615	3,879		67,142	
	Project Total	12,416	25,232	25,615	3,879		67,142	
S-002015	Water Substitute Service Program							
	8500 - HPW-W&S Syst Consolidated Constr Fd	271	276	300	300	300	1,447	
	Project Total	271	276	300	300	300	1,447	

**WATER UTILITY SYSTEM FACILITIES - Summary of Funds
2022-2026 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2022-2026	
		2022	2023	2024	2025	2026		
S-900001	Upgrades to CUS-Owned Support Facilities							
	8500 - HPW-W&S Syst Consolidated Constr Fd	4,500	1,000	1,000	1,000	1,000	8,500	
	Project Total	4,500	1,000	1,000	1,000	1,000	8,500	
S-NA0000	Funding Offset							
	4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR		-10,699				-10,699	
	5430 - Federal State Local - HPW Pass thru DDSR		-32,097				-32,097	
	Project Total		-42,796				-42,796	
	Total Appropriations:	622,936	259,536	349,694	233,921	186,508	1,652,596	



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