

Project Summary

Status: Approved and Funded

MUD 1, 6, 7, and 60



Water Renewal
THE WOODLANDS

South Shore Gravity Main Rehabilitation



Project History

Some wastewater lines in The Woodlands' system have been in operation for over 40 years and are approaching their useful service life, making them vulnerable to failure, sewage overflows, and permit violations. San Jacinto River Authority (SJRA) Asset Management Program and the Sanitary Sewer Transmission Assessment and Renewal (SSTAR) Program identified high-risk line segments in 2019-2020 through Closed Circuit Television Video (CTTV) inspection, revealing significant deterioration in gravity mains.

Description

This project rehabilitates or replaces 1.8 miles of ductile iron (DI) gravity mains as part of a phased approach to strengthen wastewater infrastructure resilience.

Project Type

Design and Construction

Funding Source:

2017 Renewal and Replacement Bonds

Actions:



Wastewater
Treatment



Wastewater
Management



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www.waterrenewalthewoodlands.com



Project Summary

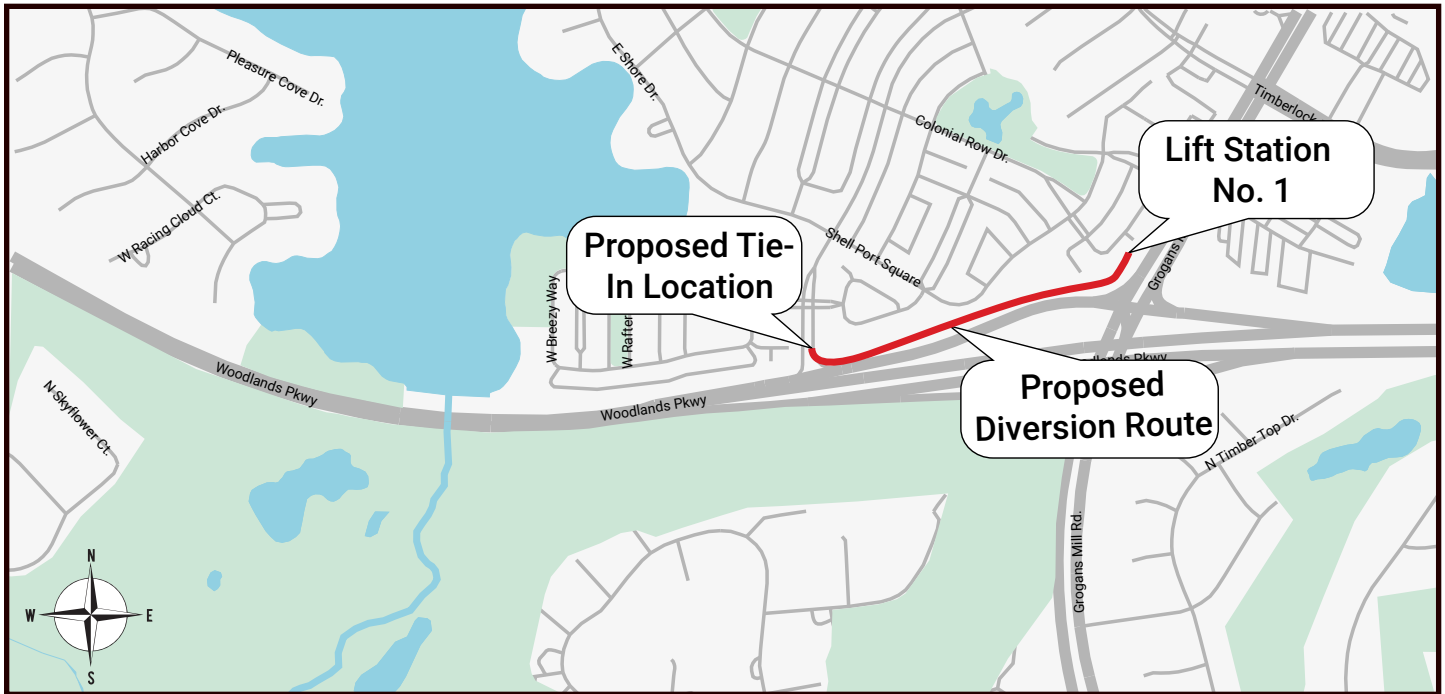
Status: Approved and Funded

MUD 6



Water Renewal
THE WOODLANDS

Lift Station No. 1 Gravity Main Bypass and Decommissioning



Project History

Lift Station No. 1, built in 1974 to manage wastewater along Grogan's Mill Road, has aged significantly, with its force main now in poor condition and requiring replacement. A 2023 feasibility study found that a 42-inch gravity line, installed in the mid-1990s just over a quarter mile west of the lift station, is suitably sized and deep enough to intercept flows currently managed by the lift station. This presents an opportunity to construct a gravity main, redirect wastewater, and decommission the aging lift station and force main, reducing long-term operational and maintenance costs.

Description

This project will construct a gravity sewer along Woodlands Parkway, redirecting flows from Lift Station No. 1 to an existing 42-inch gravity line. This will allow decommissioning the aging lift station and force main, reducing maintenance costs and improving wastewater efficiency.

Project Type

Design and Construction

Funding Source:

Renewal and Replacement funds

Actions:



Wastewater
Treatment



Wastewater
Management



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Project Summary

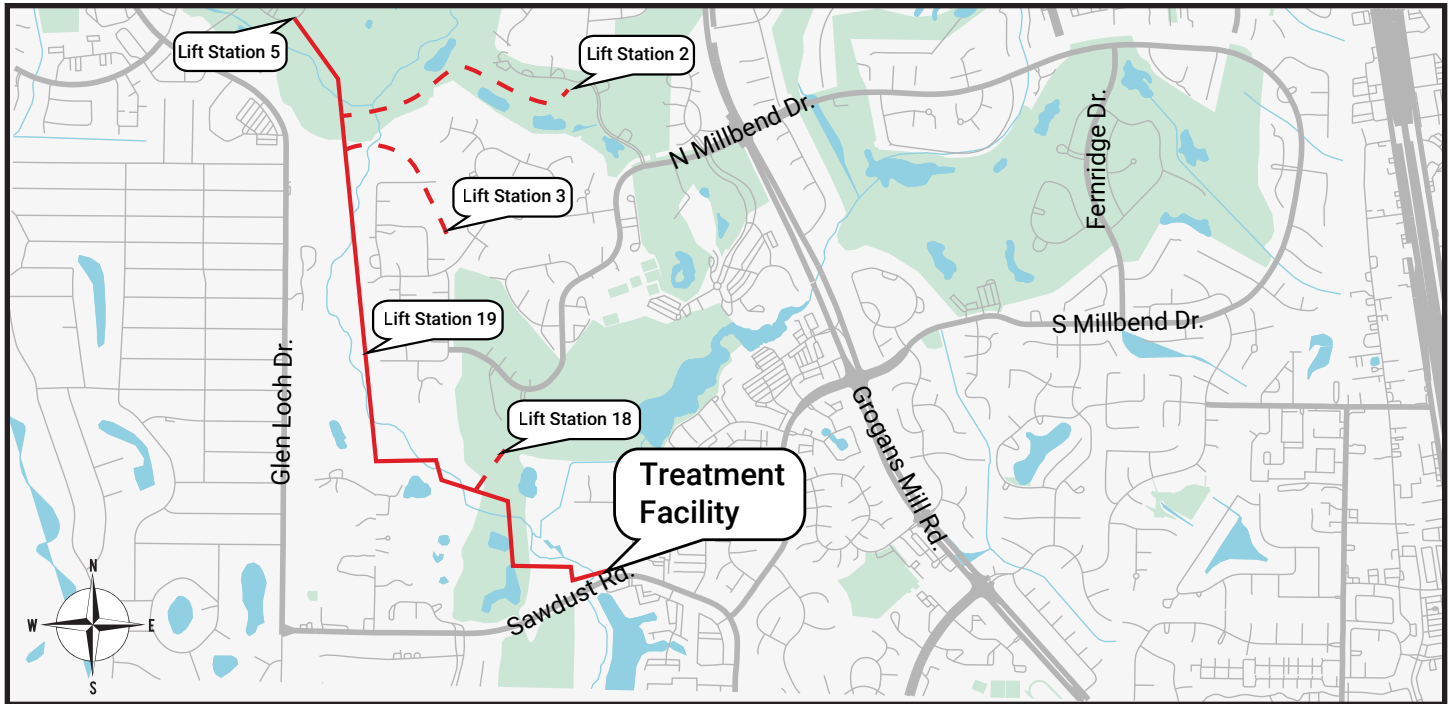
Status: Approved and Funded

MUD 1, 6, and 7



Water Renewal
THE WOODLANDS

Wastewater Conveyance Optimization



Project History

A deteriorated force main for Lift Station No. 5 prompted an initial replacement plan, but recent Wastewater Strategic Planning identified potential to abandon Lift Station No. 5 and nearby lift stations by replacing their force mains with gravity lines. A Route Study is underway to assess the feasibility of this approach, including evaluating routes, obstructions, land needs, and methods to ensure uninterrupted flow to Wastewater Treatment Facility No. 1 (WWTF No. 1). No final plan has been determined, as the project remains in the study phase.

Description

This project begins with a study to assess the feasibility and logistics of constructing a large-diameter gravity main to WWTF No. 1 while planning the abandonment of the identified lift stations.

Project Type

Study and Design

Funding Source:

2017 Renewal and Replacement Bonds

Actions:



Wastewater
Treatment



Wastewater
Management



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Project Summary

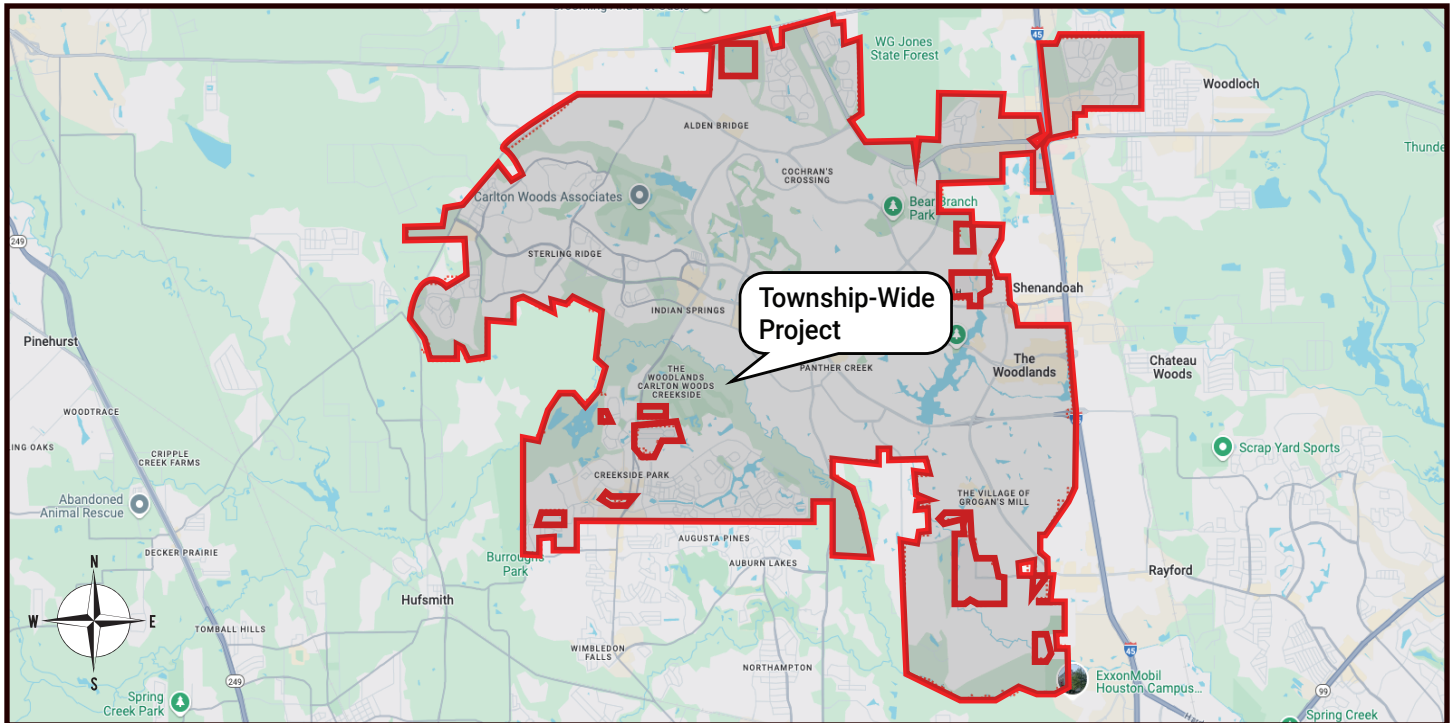
Status: Approved and Funded

All Montgomery County MUDs



Water Renewal
THE WOODLANDS

Digital Water System



Project History

The San Jacinto River Authority (SJRA) Woodlands Division is developing a digital water system (DWS) to streamline asset renewal planning, data review, and reporting. This integrated platform combines software, databases, and web applications to organize and visualize water-related data, fostering a “smarter” water system that connects SJRA’s people, processes, and technology from planning through to operations.

Description

The DWS consolidates data from GIS, SCADA, water models, and other systems into dashboards for project planning and asset management, enhancing water quality monitoring, outage response, and rate planning to directly improve customer service and system reliability.

Project Type

Design

Funding Source:

Renewal and Replacement funds

Actions:



Water
Quality



Wastewater
Management



Water
Treatment



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Project Summary

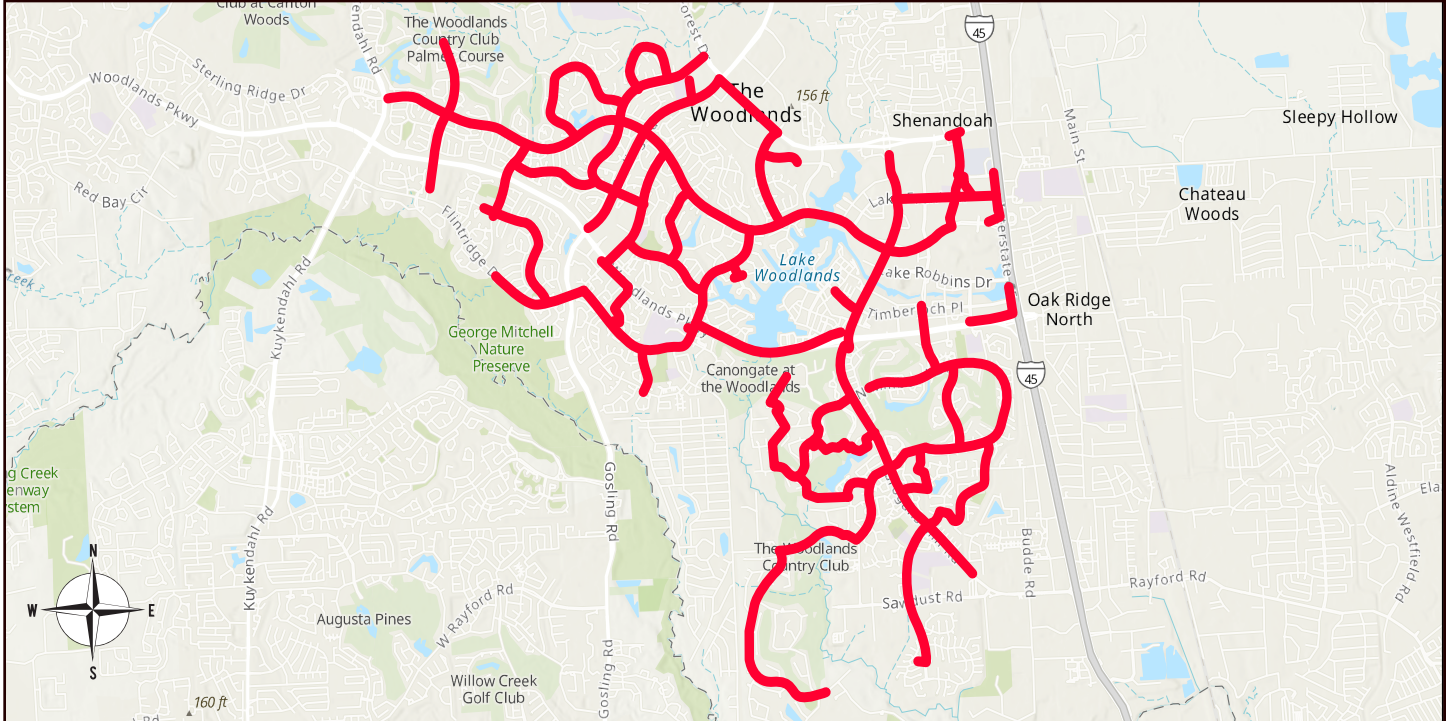
Status: Approved and Funded

MUDs 1, 6, 7, 36, 46, 60, 67, & Metro



Water Renewal
THE WOODLANDS

Water Lines Condition-Based Assessment



Project History

The San Jacinto River Authority (SJRA) Woodlands Division operates more than 121 miles of potable water distribution lines that are 12 inches in diameter and larger, including over 48 miles installed between 1973 and 1995. Many of the oldest lines, constructed from a range of materials such as asbestos cement (AC) and PVC, are approaching or past their expected service life. While earlier efforts focused on AC lines, SJRA is now evaluating the condition of all water lines to plan replacements before the end of their useful life.

Description

SJRA is conducting a system-wide water line condition assessment to determine the remaining service life of its infrastructure and prioritize replacements. The study includes a review of historical data and water line break records, field and laboratory testing, and engineering analysis. Results will produce a prioritized list of replacement projects and schedules, with field assessments conducted by SJRA, HDR, and associated vendors on selected pipeline segments throughout The Woodlands.

Funding Source:

Renewal and Replacement Bonds

Actions:



Water
Quality



Water
Distribution



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Project Summary

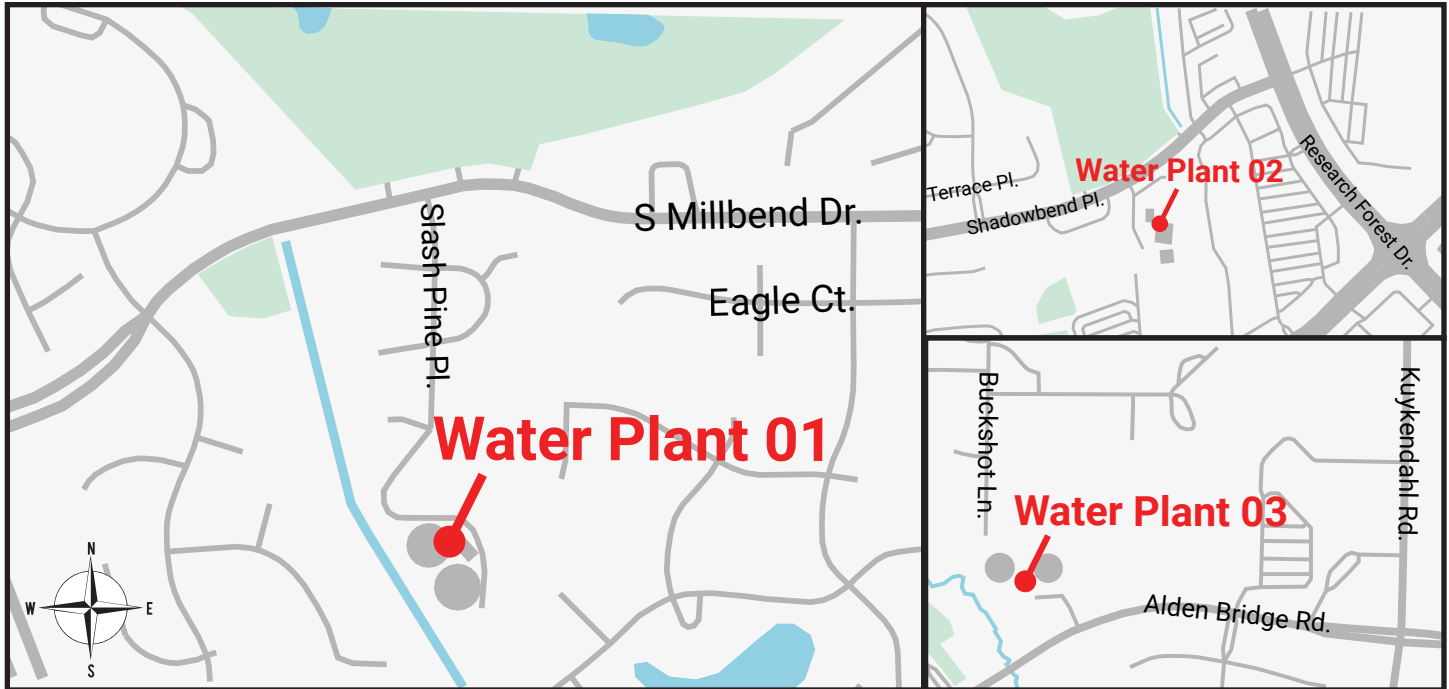
Status: Approved and Funded

MUD 36, 47



Water Renewal
THE WOODLANDS

Water Plants 1, 2, and 3 Generator Replacement



Project History

Water Plants 1, 2, and 3 in The Woodlands, managed by the San Jacinto River Authority (SJRA), play essential roles in blending groundwater with surface water and chlorinating it for distribution. The backup power systems for these plants, including engines and generators installed decades ago, are reaching the end of their useful lives. Given increasing water demands and the need for reliable service during power outages, SJRA has prioritized upgrading backup power capacity to ensure uninterrupted service to customers.

Description

This project upgrades backup power systems at Water Plants 1, 2, and 3 with modern diesel generators to enhance reliability and maintain service during outages, supporting growing water demands and ensuring a resilient supply system.

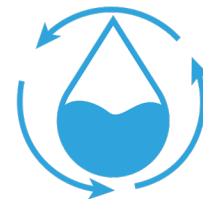
Project Type

Construction

Funding Source:

2017 Renewal and Replacement Bonds

Actions:



Water
Treatment



Water
Distribution



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Project Summary

Status: Approved and Funded

MUD 47

Elevated Storage Tank 6



Water Renewal
THE WOODLANDS



Project History

In January 2017, the San Jacinto River Authority (SJRA) Received a Notice of Violation from the Texas Commission on Environmental Quality (TCEQ) for insufficient elevated water storage. While a temporary variance was granted, expanding storage is essential to support system growth. Elevated Storage Tank 6, a 1-million-gallon composite tank, is planned for The Woodlands' upper pressure plane to stabilize pressure, reduce booster pump reliance, and provide emergency reserves.

Description

The future Elevated Storage Tank 6, a 1-million-gallon composite tank, will enhance system pressure and reliability, connecting to an existing 16-inch water line. The tank will be built on SJRA-owned land near Research Forest Drive, ensuring capacity for future growth.

Project Type

Design and Construction

Funding Source:

Renewal and Replacement Funds

Actions:



Water
Quality



Water
Distribution



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