OCTOBER 2022



PROJECT UPDATE

Lake Ralph Hall is a special place (a natural place, a quiet place, a hospitable place) both for people and for the environment, assuring a reliable water supply for generations to come.

Last Beam Placed on SH 34 for the North Sulphur River Bridge



The project team stands in front of the final beam for SH 34 Bridge.

Upper Trinity Regional Water District team members, Flatiron Constructors and Lamb-Star Engineering celebrated as the last beam for the SH 34 North Sulphur River bridge was laid on August 11th.

"In roughly 12 months the team has gone from grassland to this milestone of setting the final beam," said Project Manager Josh Pfingst with Flatiron Constructors. "This impressive milestone includes 360 drilled shafts, 144 columns, 48 caps and 353 TX-54 concrete girders. Most importantly, it was achieved safely and on schedule."

Flatiron and Lamb-Star were joined onsite for the milestone by key team members of Upper Trinity as well as

Huitt-Zollars, Inc, Fugro and Texas First Rentals. Attendees took the opportunity to sign their names on the last of the 120-foot-long beams before cheering as it was placed onto the completed bridge structure.

Work continues to pour the bridge's deck and finish a concrete traffic rail. Construction crews also continue to place columns and beams on the nearby Merrill Creek Bridge, which at 600 feet long is only about a tenth as long as the one over the North Sulphur River.

Watch the beam placement: https://www.youtube.com/ watch?v=ir5b9vkTxhY



PROJECT COMPONENTS UPDATE



Reservoir, Leon Hurse Dam & Spillway

Constructing a 2.3 mile-long dam, intake pump station to pump water into the untreated water pipeline and spillway to release excess water back into the North Sulphur River.

- Around 70 construction workers are onsite placing and compacting dirt for the embankment on both sides of the dam.
- Crews are essentially finished with demolition of structures and removing debris from the project area.
- Excavation for the spillway is mostly finished, and crews will begin to pour concrete in October.
- Work continues to install the slurry trenches to prevent seepage under the dam.

Roadway and Bridge Improvements

Constructing a new pedestrian-friendly SH 34 lake bridge, relocating part of FM 1550 and improvements and closures to various county roads.

- All the large beams have been set on the North Sulphur River Bridge.
- Workers, including subs, continue pouring the bridge decking on areas that are now structurally completed.
- Workers have also started construction on Merrill Creek bridge, which will provide access over a finger of the future lake.
- Construction continues on new sections of FM 1550 to accommodate the future lake shoreline, with plans to open the new roadway later this year.



Administration, Operation and Maintenance Facilities

Building facilities for the lake's day-to-day operation, management and maintenance facilities.

• Halff Associates and Freese & Nichols are currently planning/ designing all lake facilities

Pipeline

Installing a 32-mile underground pipeline and creating a balancing reservoir to provide water to Upper Trinity's water system for treatment and delivery.

- UTRWD continues the process of acquiring the necessary land for the pipeline and has acquired the property for the balancing reservoir.
- Engineers and construction managers are preparing construction plans for the pipeline and balancing reservoir.

Mitigation/Watershed Protection Areas

Returning a portion of the former North Sulphur River to its natural, meandering path. Leaving other areas in their natural condition to protect water quality in the lake.

- Designers are preparing final plans for stream mitigation.
- The temporary fossil park continues to attract fossil hunters from all around.

SPOTLIGHT

Work Begins on Leon Hurse Dam Spillway

Construction of the Leon Hurse Dam spillway is underway. Construction of the dam and spillway will continue into mid-2025. UTWRD contractor Granite Construction is using a combination of roller compacted concrete (a lean concrete mixture) and reinforced concrete for the spillway construction. Approximately 136,000 cubic yards of concrete will be used to construct the spillway.

October construction also includes work on several slurry trenches for the reservoir. These trenches create a low permeability barrier across the foundation to prevent seepage under the dam. The contractor will finish installing the final half of the slurry trench on the north side of the dam and begin on the remaining slurry trenches in October.



Leon Hurse Dam Spillway Excavation

Crews continue placing compacted dirt for the dam embankment on both sides of the dam. The completed dam will consist of approximately 5.02 million cubic yards, enough to fill a football field three thousand feet deep.

The spillway is designed to pass the 100-year flood. Any floods greater than a 100-year event will pass over the emergency spillway.



Lake Ralph Hall Project Schedule

