

## Liberty Hill's Independent, Sustainable Water Future

### Why does Liberty Hill need a Pure Water program?

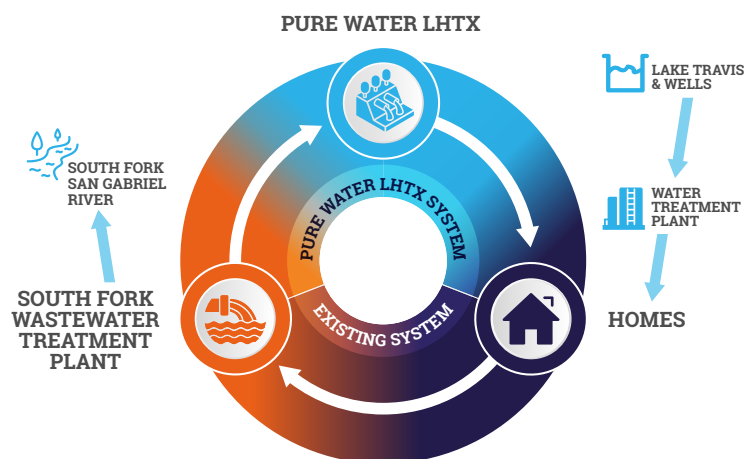
The City of Liberty Hill has experienced tremendous growth over the last five years, and this growth is expected to continue. The City's current water resources, including local groundwater wells and surface water from Lake Travis, will not be able to sustain this rate of growth. The City of Liberty Hill is moving forward with plans to develop and test direct potable reuse through advanced water purification to augment our current water supply.

#### About the Pure Water LHTX program:

Currently, Liberty Hill's South Fork Wastewater Treatment Plant serves the Liberty Hill community by cleaning wastewater to meet regulatory standards for non-potable reuse. Under this program, the recycled water from the treatment plant will be sent to an advanced water purification facility. This new facility will include a multi-barrier system of proven technologies that safely and efficiently purifies recycled wastewater into drinking water.

By creating a sustainable, cost-effective and independently controlled water supply, we will be protecting Liberty Hill's ability to sustain growth while securing our water source for generations to come.

#### Pure Water LHTX Completes the Urban Water Cycle:

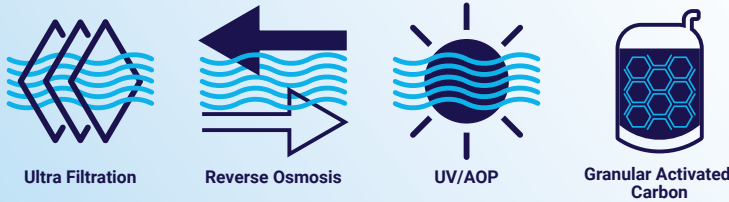


# Multi-barrier Treatment Process

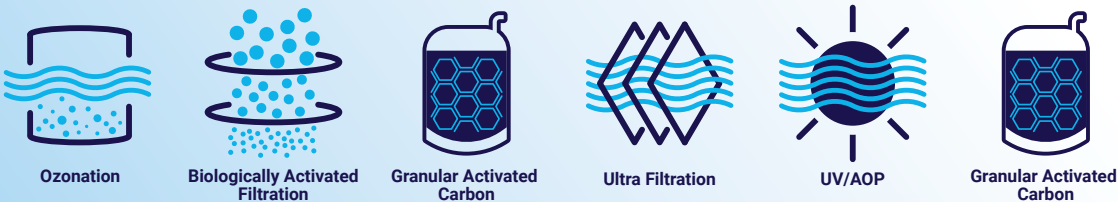
The Advanced Water Purification process will produce purified water by removing contaminants, including organic and inorganic material, such as PFAS (Per- and polyfluoroalkyl substances).

The City will pilot test two proven multi barrier treatment processes to determine which approach is best for our community. Robust water quality testing will be conducted throughout the pilot testing period to ensure the facility is producing water that meets or exceeds local, state, and federal drinking water standards.

## Traditional Advanced Treatment



## Carbon Based Advanced Treatment



# Program Timeline

Liberty Hill has been developing a plan for Advanced Water Purification since 2024. The next steps include designing and building a pilot facility, completing extensive testing of the purified water produced, and then designing and building the full-scale facility. At the program’s completion, Liberty Hill could produce up to 5.0 million gallons of purified water per day to help create a safe, reliable and sustainable water supply for our community.



TCEQ is the Texas Commission on Environmental Quality

AWPF is the full-scale Advanced Water Purification Facility

Timelines are subject to change.