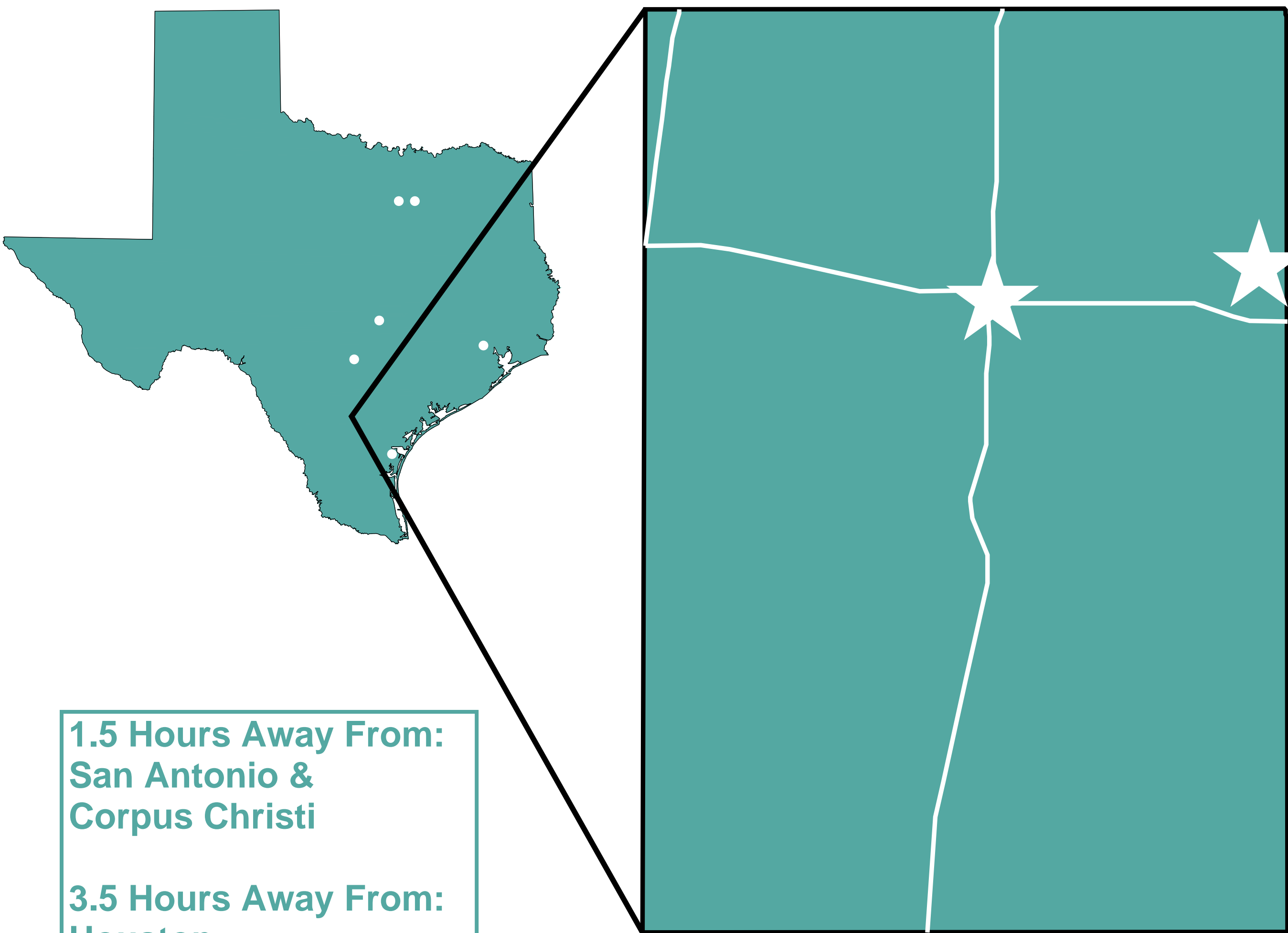


McMullen County Water and Wastewater Plants

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TILDEN, TEXAS

Unincorporated Community
 Population: 190 (2020)
 Area: 0.35 sq mi
 Named Tilden in 1877 after Presidential Nominee Samuel J. Tilden

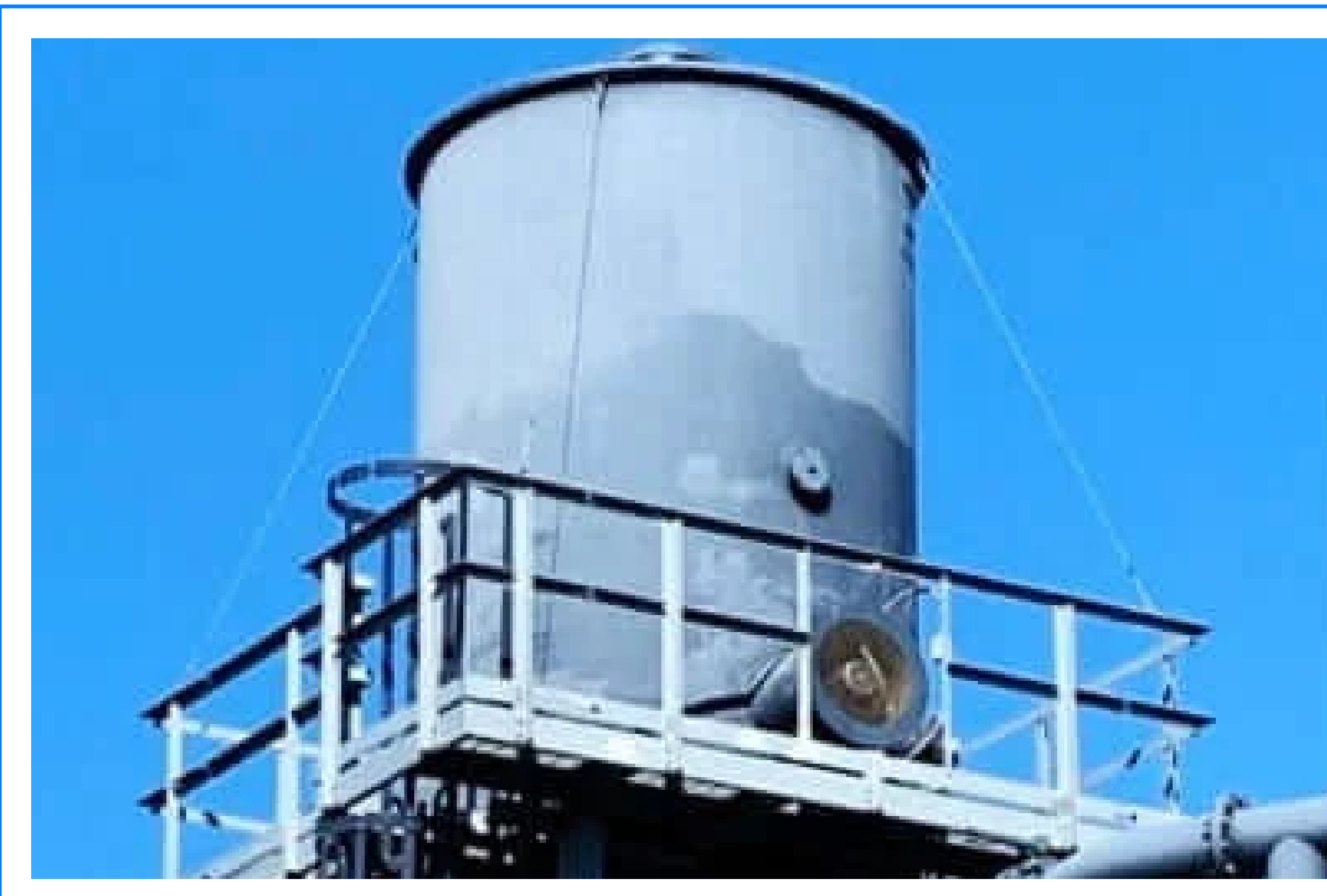
CALLIHAM, TEXAS

Unincorporated Community
 Population: 151 (2020)
 Located near Choke Canyon State Park
 Founded in 1918 after an oil prospecting boom on the Calliham Family Ranch

New Calliham Water Plant

EXISTING CHALLENGES

- Need to extend cemetery property next to existing Water Plant No. 2
- Aging infrastructure
- Water Plant No. 1 located inside State Park



EQUIPMENT

- Water Well: 5,400' ft deep in Carrizo Wilcox Aquifer and typically 150 °F
- Cooling Towers and Aeration
- For H₂S and Temperature treatment
- Concrete Ground Storage Tanks vs Steel Tanks



Tilden Water Plant & Wastewater Plant

CAPITAL IMPROVEMENT PLANS

- Plan for Budgeting and Project Requirements
- Plan for Regular Maintenance
- Plan for Scope of Future Projects
- Identify immediate needs and upcoming projects in the near future to include in Scope of Work



LEFT: Water Plant Cooling Tower Structure is failing and needs immediate repair.



BELOW: The Influent Lift Station Pumps at the Wastewater Treatment Plant have failed and need to be replaced.

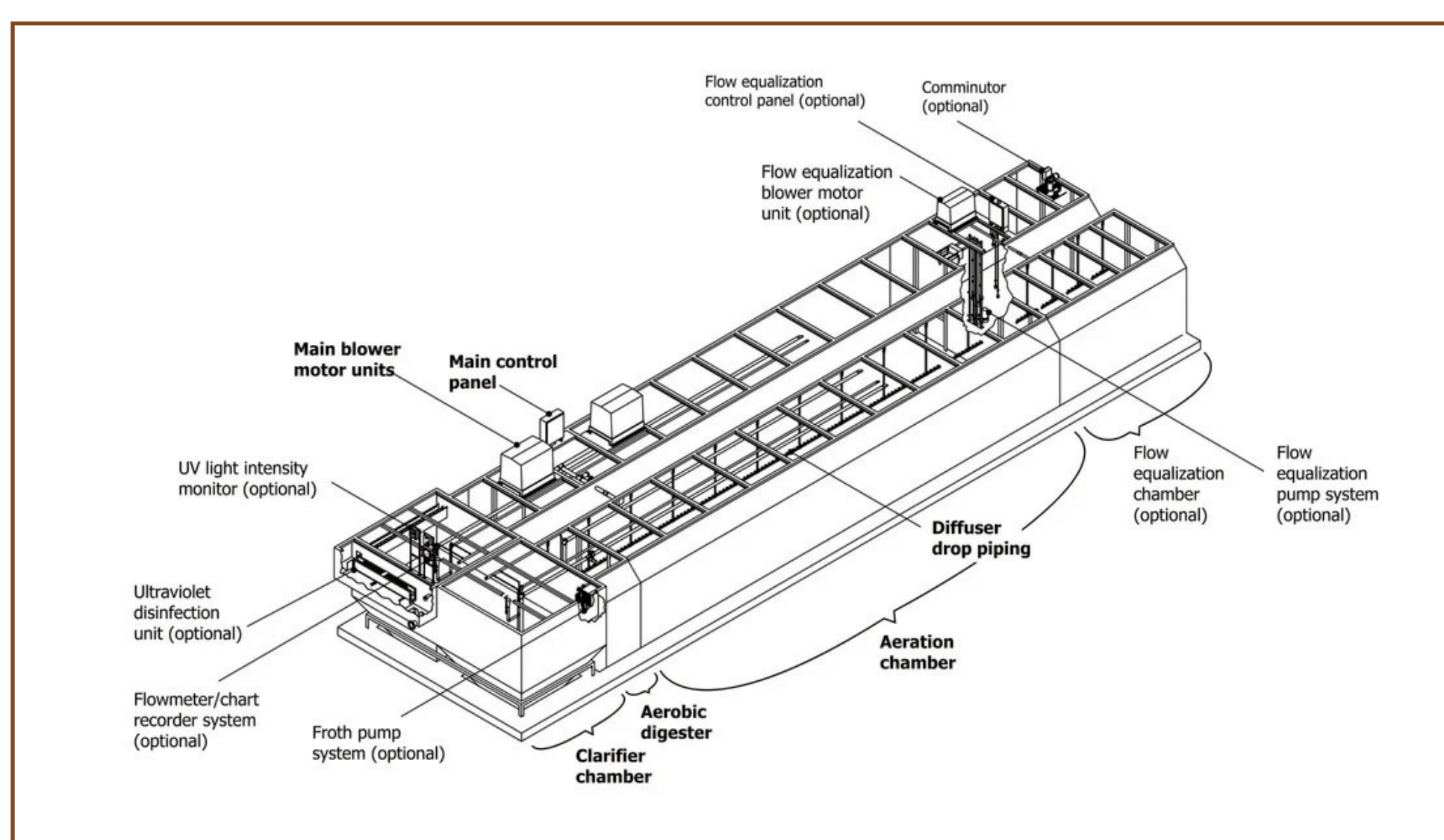
RIGHT: Well No. 1 failed recently. Well No. 2 is not authorized for use due to regulatory paperwork needing to be done. Emergency approval of use was granted for Well No. 2.



Proposed Calliham Wastewater Treatment Plant

EXISTING CHALLENGES

- Current wastewater trucked 11 miles to Tilden
- \$50K/month
- Population is growing in the area
- Failing infrastructure in Tilden



PACKAGE PLANTS

PROS:

- Faster Construction
- Smaller Footprint
- Lower Construction Costs
- Easily Replicated

CONS:

- Limited Capacity Sizes
- Potential Higher Maintenance And Operation Costs
- Shorter Lifespan

