

# Aqua Texas Aquifer Test Overview, Purpose, and Collaborative Effort

Hays Trinity Groundwater Conservation District Board of Directors Briefing

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## Presenters:

- Scot Foltz, Aqua Texas, Environmental Compliance Officer
- Robin Gary, Director of Watershed Protection and Conservation Science, Watershed Association
- Doug Wierman, Hydrogeologist, Blue Creek Consulting, LLC

## Overview

Aqua Texas recently drilled two test wells near the FM 2325 and Ballpark Rd intersection and proposes to perform an aquifer test in collaboration with surrounding well owners and groundwater organizations. Aqua Texas will be requesting an exemption to perform an aquifer test during a declared drought curtailment situation.

## Purpose of the aquifer test

The pump test will provide pumpage data and water level responses to help determine if pumping the new wells will have an impact on flow at Jacobs Well and other nearby wells.

## Aqua Texas Test Wells

During the proposed aquifer test, the two test wells will be pumped simultaneously with a combined pumping rate of approximately 390 gallons per minute.

## Pumpage volume

Approximately 1,000,000 gallons will be pumped and discharged to the land surface.

## Collaborative field effort

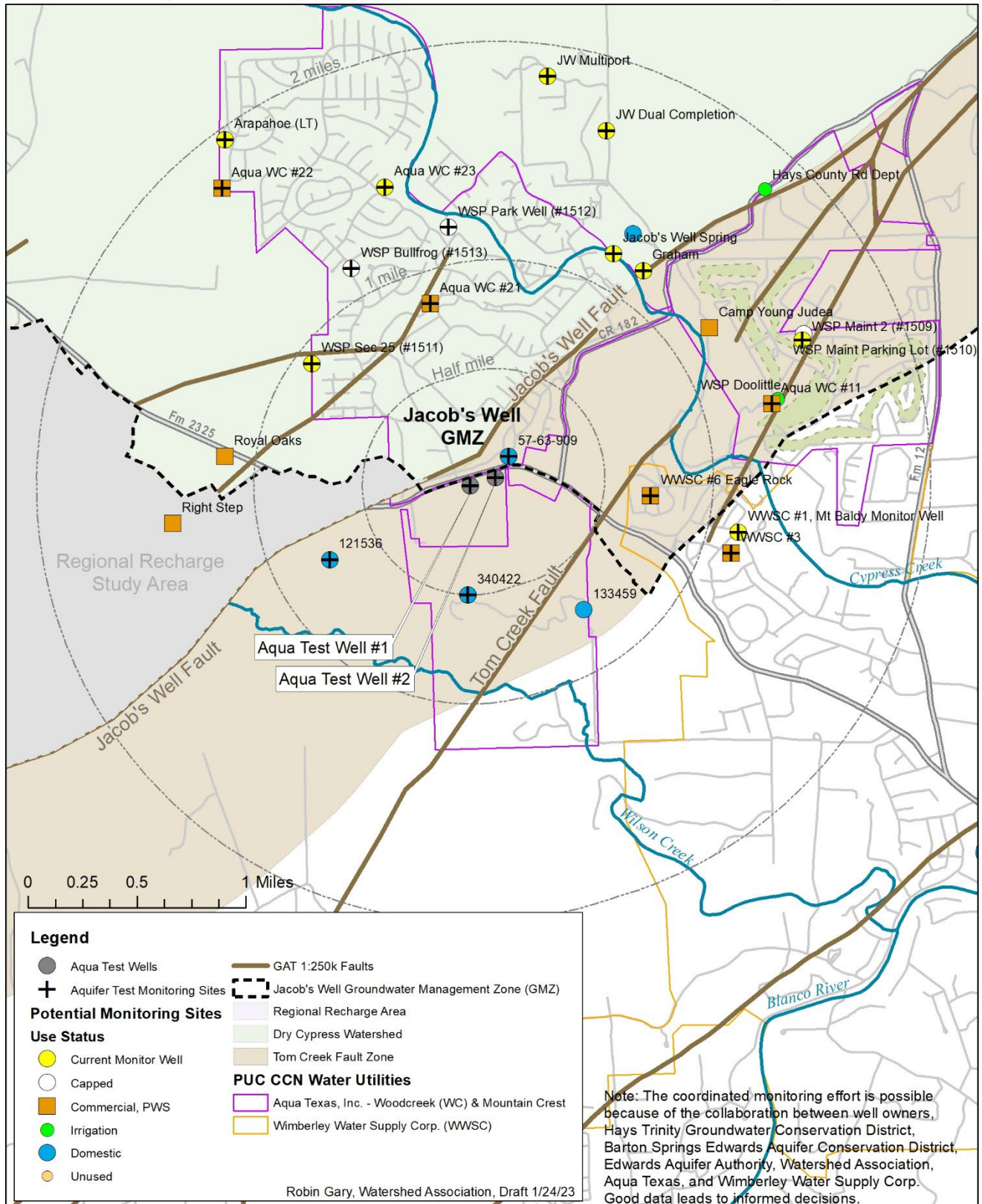
Planning and discussion to monitor approximately 20 sites within 2 miles of the test wells have included input from Aqua Texas, HTGCD, the Watershed Association, Wimberley Water Supply Corporation, Edwards Aquifer Authority, Barton Springs Edwards Aquifer Conservation District, City of Wimberley, City of Woodcreek, and Hays County. (Map and monitoring site table attached)

## Monitoring overview

Approximately 20 wells plus Jacobs Well will be monitored for water levels during an initial 7-14 day background monitoring period, followed by a 48 hour pumping period, then a recovery period.

**Monitoring data:** Data will be distributed between participating collaborators for analysis.

# Aqua Woodcreek North Test Wells Proposed Aquifer Test Coordinated Monitoring Sites



## Table of Proposed Monitoring Sites

*BSEACD: Barton Springs Edwards Aquifer Conservation District; EAA: Edwards Aquifer Authority; HTGCD: Hays Trinity Groundwater Conservation District; JW: Jacob's Well; PT: Pressure Transducer (device used to continuously measure water levels); SWN: State Well Number; WC: Woodcreek; WL: Water Level; WSP: Wimberley Springs Partners; WWSC: Wimberley Water Supply Corporation, USGS: United States Geological Survey.*

SWN or Tracking Number	Well Name	Well Depth	Monitoring Org	Proposed Monitoring Type
620893	Aqua Test Well #1	440	Wet Rock, Aqua	Continuous PT, Pumpage Volume, Pump start/stop
620892	Aqua Test Well #2	440	Wet Rock, Aqua	Continuous PT, Pumpage Volume, Pump start/stop
5764702	Aqua WC #22	400	Wet Rock, Aqua	Continuous PT, Pumpage Volume, Pump start/stop
5763904	Aqua WC #21	400	Wet Rock, Aqua	Continuous PT, Pumpage Volume, Pump start/stop
	Aqua WC #11	400	Wet Rock, Aqua	Continuous PT, Pumpage Volume, Pump start/stop
	WSP Park Well (#1512)	284	Wet Rock, Aqua	Continuous PT
5763902	WSP Bullfrog (#1513)	370	Wet Rock, Aqua	Continuous PT
5764705	WWSC #1, Mt Baldy Monitor Well	400	TWDB	Continuous PT
5763604	Arapahoe (LT)	680	HTGCD	Continuous PT
5764716	Graham	153	HTGCD	Continuous PT
5763901	WSP Sec 25 (#1511)	300	HTGCD	Continuous PT
5764703	WSP Maint 2 (#1509)	450	HTGCD	Continuous PT
5763908	Aqua WC #23	284	HTGCD	Continuous PT
340422	Private Well	430	HTGCD	Frequent WL
5763909	Private Well	365	HTGCD	Frequent WL
121536	Private Well	390	HTGCD	Frequent WL
5763905	Jacob's Well Spring	0	EAA, USGS	Continuous PT, Realtime Gauge
5764707	WWSC #3	400	BSEACD, WWSC	Continuous PT, Pumpage Volume, Pump start/stop
5764712	WWSC #6 Eagle Rock	350	BSEACD, WWSC	Continuous PT, Pumpage Volume, Pump start/stop
604846	JW Dual Completion Monitor Well	238	BSEACD	Continuous PT
604845	JW Westbay Multiport Monitor Well	Cow Creek	BSEACD	Continuous PT

Note: Map and table of proposed monitoring sites compiled by the Watershed Association in collaboration with well owners, Hays Trinity Groundwater Conservation District, Barton Springs Edwards Aquifer Conservation District, Edwards Aquifer Authority, Watershed Association, Aqua Texas, and Wimberley Water Supply Corporation.