THE MEADOWS CENTER FOR WATER AND THE ENVIRONMENT

No natural resource is more important to our future than Water. Water is what we do.

RESEARCH | STEWARDSHIP |
SERVICE | EDUCATION

The Meadows Center
for Water and the Environment
Texas State University

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CYPRESS CREEK

Let's keep it clean, clear & flowing

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201 San Marcos Springs Drive | San Marcos, TX. 78666
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Cypress Creek Watershed Goals

- **Activities to prevent pollution, protect flow**
- **Preserve water quality through local permitting, ordinances**
- **Improve tools for decision makers to calculate effects of land use changes on water quality**
- **Site-specific LID/Green Infrastructure demonstration sites**
- **Outreach and education efforts**
- **Monitoring and modeling water quality changes**

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Cypress Creek Watershed Plan Components

- Structural BMPs
- Non-structural BMPs (incentives, regulations, education)
- Source water protection
- Land management, conservation
- Research
- Monitoring

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GBRA - Clean Rivers Program

- GBRA partners with TCEQ to administer the Clean Rivers Program (CRP) for the Guadalupe River and Lavaca-Guadalupe Coastal Basins.
- The Wimberley Valley Watershed Association (WVWA) began funding the program with help from the City of Wimberley in 2003. The program contributes monitoring data collected under the Guadalupe Basin CRP quality assurance project plan (QAPP) from the Blanco River and Cypress Creek watersheds.
- TCEQ and USEPA quality assure data and program efforts.
- Meadows Center staff (trained by GBRA and listed in the QAPP collects data. GBRA laboratory analyzes data/samples.
- TCEQ uses the data for decision making purposes, water quality impairment listings
- Data has been collected on many sites since 1998

https://www.tceq.texas.gov/waterquality/clean-rivers

Cypress Creek Updates 2020

- Virtual Tour of Cypress BMPs:
  - https://www.cypresscreekproject.net/different-bmps-1
- Water Quality Ordinances for Wimberley and Woodcreek
- Jacob's Well Groundwater Management Zone
- The First One Water School in Texas!
- Outreach and education efforts
- One Water Library Expansion

Revised Water Quality Ordinances for Wimberley and Woodcreek

"the lower one-third of the watershed in a full-build out 2040 condition will essentially experience the same pollutant loads as the existing condition"

- Water quality best management practices that must remove at least 80% of the increase in TSS load through the TCEQ Edwards Aquifer Protection program or city requirements;
- Water quality measure inspection and maintenance requirements that are enforced by the local government to ensure pollutant treatment performance;
- Creek buffer zones, that function similarly to filter strips as they are designed so that upstream runoff is converted to sheet flow. Filter strips are noted as providing 85% TSS management;
- Water quality education materials and workshops that can reduce the use of landscape chemicals, and
- Construction sediment controls that significantly reduce sediment loads during the construction period.

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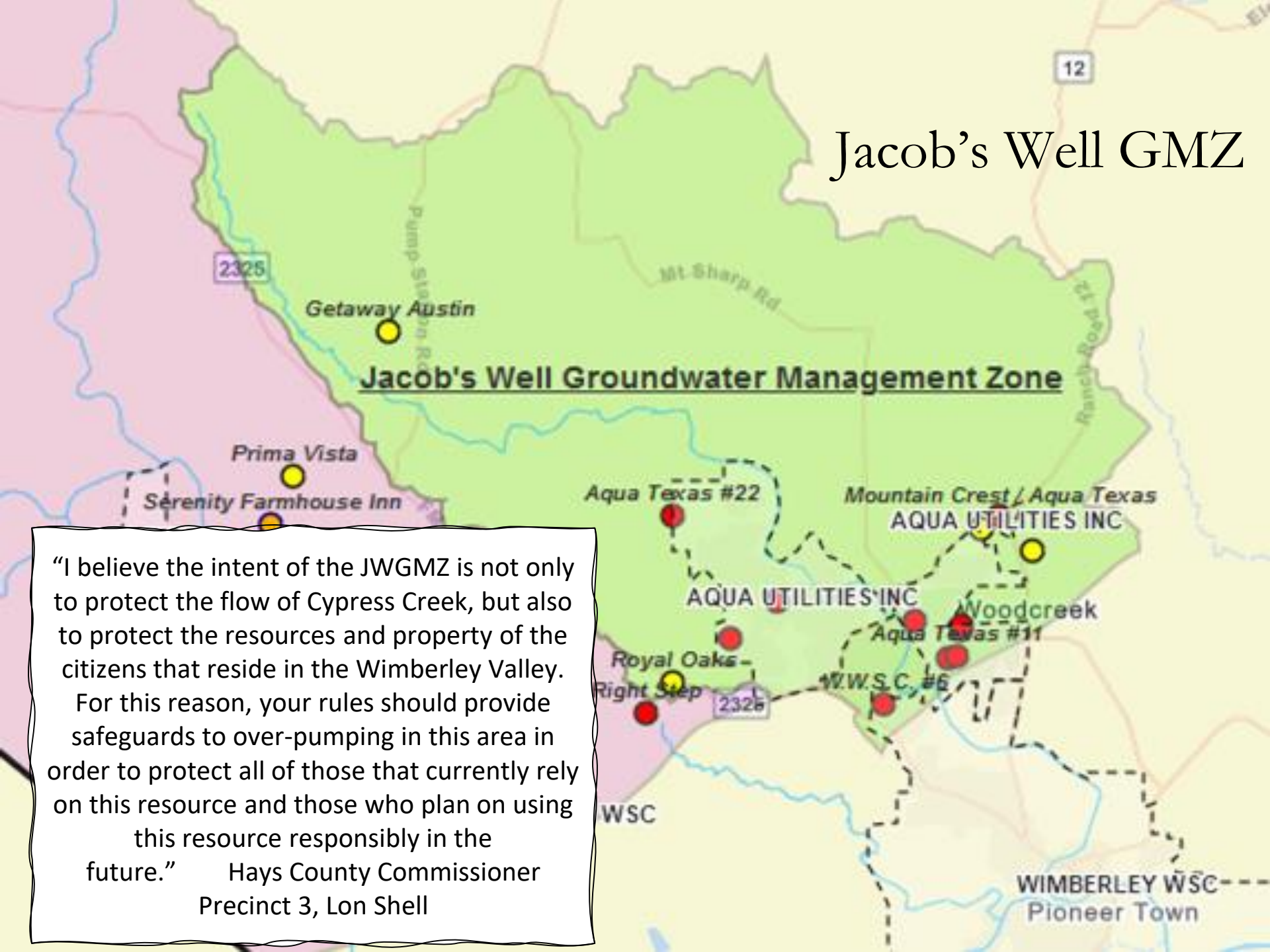
Jacob's Well GMZ



"I believe the intent of the JWGMZ is not only to protect the flow of Cypress Creek, but also to protect the resources and property of the citizens that reside in the Wimberley Valley. For this reason, your rules should provide safeguards to over-pumping in this area in order to protect all of those that currently rely on this resource and those who plan on using this resource responsibly in the future." Hays County Commissioner Precinct 3, Lon Shell

2020 Texas Water Development Board Rain Catcher Award Winner!!!

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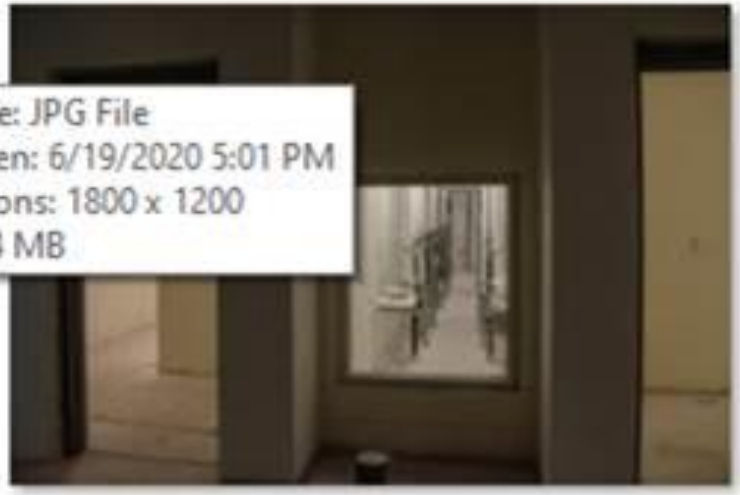
OneWaterSchool_Campus_wvwa



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OneWaterSchool_RainwaterACCondensateCollection_wvwa

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tion2_wvwa

OneWaterSchool_RainwaterTank_wvwa

Meadows MOU with the Wimberley Village Library

- Rainwater harvesting
  - Toilet flushing and landscape watering
  - Stormwater management
  - NPS pollutant reduction
- HVAC condensate collection
  - Toilet flushing and landscape watering
  - Energy efficiency
- Permeable pavers and raingardens
  - Stormwater management
  - NPS pollutant reduction
  - Aquifer recharge
  - Urban heat island mitigation
- Educational resources

"The Wimberley Village Library community – trustees, staff, Friends and Foundation – welcomes and enthusiastically embraces this opportunity to put into practice the essential principles of the One Water approach to design and construction. We look forward to providing a center for information and programs to further knowledge and understanding of the critical role of water resources in western Hays County," Dell Hood, President Board of Trustees - Wimberley Village Library District.

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EXPLORE SPRING LAKE.ORG