

# 2018 ANNUAL REPORT Post Oak Savannah Groundwater Conservation District



**POSGCD**  
[www.POSGCD.org](http://www.POSGCD.org)

# 2018 ANNUAL REPORT

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### Purpose and Scope

This Annual Report on the Post Oak Savannah Groundwater Conservation District's (District or POSGCD) performance in regards to achieving management goals and objectives for the fiscal year is being presented to the Board of Directors of the District (the Board) in accordance with Section 14 of the District's Management Plan. Texas Water Code, Chapter 36.1071 requires that a District develop a comprehensive management plan which addresses required management goals. The original Management Plan for the District was adopted in 2004. It has since been amended and readopted as of December 5, 2017 pursuant to State Law.

The District was created in 2001 by the 77th Legislature to operate in the area covered by Milam and Burleson counties. The District was confirmed by an election held in November 2002. The District is governed by a ten (10) member Board of Directors which serves without pay. Five Board members are appointed by the Commissioners Court of each of the counties composing the District. One member from each county is appointed to represent each of the following interests: agricultural, rural water supply, industry, municipal, and one at large.

The format of this report states the goal, the objective of the goal, the performance standard used to meet each goal and the activity or program the District used to achieve the goal as set out in the Management Plan. The Rules and Management Plan of the District, as well as many other valuable resources are available on the District's website at [www.posgcd.org](http://www.posgcd.org).

HB1784, the District's enabling legislation, requires the Board to meet at least quarterly. Listed here are the meetings and hearings of the Board for the year 2018. Additional information such as Agenda and location may be obtained from the District's website at [www.posgcd.org](http://www.posgcd.org).

## CREATION

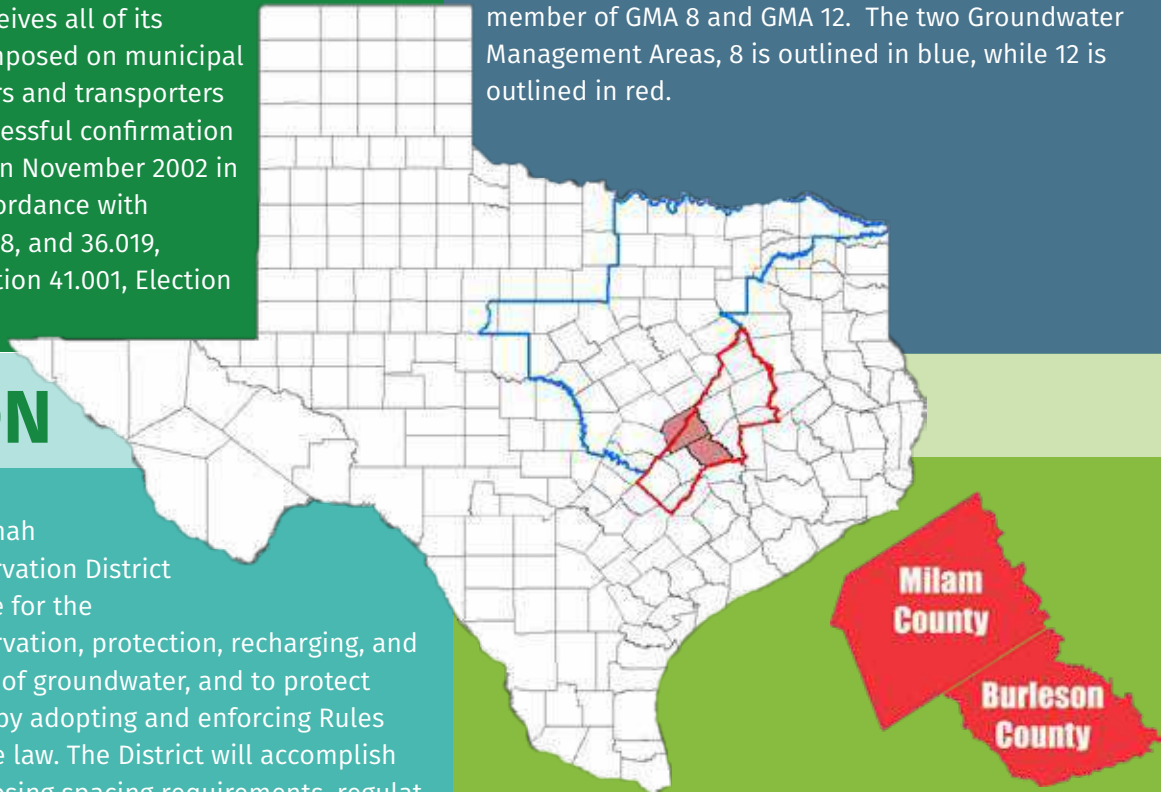
The POSGCD was created in Milam and Burleson counties by HB 1784, 77th Legislature in 2001, and a local confirmation election in November 2002. The purpose of this bill is to provide a locally controlled groundwater district to conserve and preserve groundwater, protect groundwater users, protect and recharge groundwater, prevent pollution or waste of groundwater in the central Carrizo-Wilcox area, control subsidence caused by withdrawal of water from the groundwater reservoirs in that area, and regulate the transport of water out of the boundaries of the districts. The POSGCD has 10 directors, 5 from each county. It does not have the power to tax and receives all of its revenue from fees imposed on municipal /commercial pumpers and transporters of groundwater. Successful confirmation elections were held in November 2002 in both counties in accordance with Sections 36.017, 36.018, and 36.019, Water Code, and Section 41.001, Election Code.

## LOCATION/RESOURCES

The POSGCD is located in Milam and Burleson counties, Texas. The District is bordered by Robertson and Brazos Counties to the East, Bell and Falls Counties to the North, Williamson and Lee Counties to the West and Washington County to the South. The POSGCD has within its boundaries formations of the Carrizo-Wilcox, Trinity, Queen City, Sparta, and Brazos River Alluvium aquifers. The District is part of two Groundwater Management Areas (GMA) created by the state. These two GMAs are among 16 GMAs throughout the state which hold joint planning meetings to comply with state law in Chapter 36 of the State Water Code. POSGCD is a member of GMA 8 and GMA 12. The two Groundwater Management Areas, 8 is outlined in blue, while 12 is outlined in red.

## MISSION

The Post Oak Savannah Groundwater Conservation District Mission is to provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater, and to protect groundwater users, by adopting and enforcing Rules consistent with state law. The District will accomplish this mission by imposing spacing requirements, regulating production, requiring permits for non-exempt wells and production, establishing limits on water draw down levels and monitoring groundwater levels and production, making appropriate adjustments to allowable and permitted production, and encouraging conservation.



## District Office and Contact Information

310 East Ave C  
Milano, TX 76556  
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(f) 512-455-9909

[www.POSGCD.org](http://www.POSGCD.org)

# BOARD OF DIRECTORS

## POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT



**Sidney Youngblood**  
Board President  
Milam Co Industrial

Sidney has lived in the Marlow community of Milam County for the majority of his life. He enjoys living the ranching lifestyle managing a cow/calf and replacement heifer operation. Sidney was appointed to serve on the Board in 2013 and was elected Board President in 2016.

Sidney has worked in school furniture sales for 30 plus years. He served as Vice-President of Sales with Royal Seating Corporation for almost 20 years valuing the mentorship received from recognized industry leaders.



**Steven Wise**  
Board Vice President  
Milam Co At Large

Steven Wise moved to Milam County in 1983, graduated from Yoe High and Texas A&M. He is an Executive Vice President for Citizens National Bank and resides in the Liberty Community with his family on land that has been owned by his family for 80 years. He was appointed to the Board in 2013 and elected Board Vice-President in 2016. He finds the science of groundwater management and hydrology very interesting and being a landowner/well owner in the shallower part of the Simsboro aquifer. He is dedicated to the equitable treatment of all property owners.



**Tommy Tietjen**  
Board Secretary  
Burlleson Co Municipal

Tommy lives in Burlleson county on a ranch land that has been in his family since the early 50s where he runs a cow calve and stocker operation. He serves on the Burlleson County FSA Board, is a Go Texan Volunteer and is a sponsor member for the Rocky Mountain Elk Foundation. He is the past Brazos Valley Chapter Chair of the Elk Foundation and a member of the SW Cattle Raisers Association. Tommy has served on Post Oak board since 2012. Tommy believes our natural resources are very important so we can pass on our land on to future generations in as good a condition as he received from his parents.



**Lee Alford**  
Director  
Burlleson Co Industrial

Lee serves as a Director on the Board of the International Brangus Breeders Association and is a Director on the Board of the TX Brangus Breeders Assoc. He is also a Ruling Elder on the Session of the First Presbyterian Church of Caldwell. Mr. Alford attended the University of Texas, Austin on a football scholarship. He is a 5th generation rancher in Burlleson County and ranches land that has been in his family since 1872. He raises both registered and commercial Brangus, Angus and Brahman cattle. He is widowed with two sons and three grandchildren.



**Becky Goetsch**  
Director  
Burlleson Co At Large

Becky has lived in Burlleson County since 1983, where she met and married her husband, Gabbo. She is an active member of Elizabeth Lutheran Church in Caldwell and was the coordinator of the Elizabeth Lutheran Community Pantry for five years.

After careers with Chevron Corporation and as a certified medical transcriptionist, she currently stays busy raising cattle with her husband on land that they proudly own in Burlleson County. Becky believes strongly in landowner rights and preservation, conservation, and protection of the aquifers underlying Burlleson and Milam counties.



**Durwood Tucker**  
Director  
Milam Co Agriculture

A native of Milam County and graduated from Thorndale ISD. He received a degree in Agribusiness from East Texas State University and managed a Hog Marketing Corporation for 12 years, He served local school board for 27 years. He is the Milam County Farm Bureau President, and married to Darleen Cumbie Tucker.

They have three children, seven grandchildren and one great-grandchild. Durwood feels that the new Aquifer Conservancy Program is the best program we have added the Distract in the 5 years he has been on the Board.



**Chris Whittaker**  
Director  
Milam Co Municipal

Chris has been the City Manager of Rockdale, TX since 2014 and serves on numerous boards and committees related to local government. He is a retired Army officer with 26 years of military experience and a resident of Texas. He previously lived in Killeen, TX with the U.S. Army at Ft. Hood. He has a bachelors degree from Virginia Military Institute, a masters from American Military University and a Certification in Public Management from Texas State University. He owns his own logistic consulting company.



**Jay Wilder**  
Director  
Burlleson Co Agriculture

Jay Wilder graduated from Texas A&M University with a degree in Animal Science. He is a graduate of Texas Agriculture Lifetime Leadership Program, is the president of the Texas Grain Sorghum Association and was President of the Tri-County committee with Texas AgriLife. He is a 4th-generation farmer and he and his wife, Molly, reside on his farm in the Brazos River Bottom near Snook where he has a cow/calf operation, and raises purebred Limousine cattle.



**Bob Wilson**  
Director  
Milam Co Rural Water

Bob Wilson is a Vietnam Veteran having served in the 173th Airborne Brigade as a U.S. Army Captain. He served as President of the Rockdale Branch of Citizens National bank and currently serves as President of the Southwest Milam Water. He served as President of the Rockdale Chamber of Commerce, is a member of the Rockdale Rotary Club and a Deacon and Church Treasurer of First Baptist Church, Mr. Wilson and his wife, Sharla, live just outside of Rockdale in County Club Estates.



**Robert Ware**  
Director  
Burlleson Co Rural Water

Robert Ware and his wife have owned property in Burlleson county since 1991. They are active members of the First United Methodist Church in Somerville, where Mr. Ware has served as chairman of the Board of Trustees and the church council. He is currently serving as Assistant Fire Chief with the Birch Creek Area VFD, where he was President from 2000-2008. He has also served on the Board of Directors for Burlleson County MUD # 1 since 2000, and is the current President. Mr. Ware was proudly discharged serving abroad in the U.S. Army.

# STAFF

## POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT



**Gary Westbrook**  
General Manager

Gary began work for the District in June of 2003 as General Manager. He has a B S in Agriculture Education from Sam Houston State University. Gary served as President of the TAGD from 2005-2007 and serves as the District's representative to GMA 8, and GMA 12, and on the Brazos Regional Water Planning Group. He has been married to Glenda Westbrook since 1980, and they have four children and two grandchildren. They own land in Milam County, as well as Westbrook Angus Farms, which was founded in 1969 by Gary and his father, the late Garland Westbrook. Gary has served as a local pastor in the United Methodist Church since 1999.



**Bobby Bazan**  
Water Resources Specialist

Bobby has worked for the District since 2012. He has a Bachelor of Science in Agricultural Systems Management and a Masters of Science in Water Management from Texas A&M University. Bobby previously worked for the US Forest Service Research as a Hydrologist.



**Elaine Gerren**  
Administrative Assistant

Elaine began working for the District in December of 2003. She has a Bachelor of Business Degree from Kennedy Western University.



**Ralph Sifuentes**  
Field Technician

Ralph joined the POSGCD in August 2017. He was born and raised in Hearne, before moving to Rockdale in 1979. Ralph has over 27 years of experience in drilling and groundwater. He began working for Alcoa as a driller and drilling supervisor. In 1994, he began supervising the drilling of groundwater monitoring wells. After working with Alcoa, Ralph worked for Luminant by supervising installation of wells and worked in groundwater mitigation and monitoring.



**Doug Box**  
Education Coordinator

Doug began working at POSGCD in May 2018. Doug brings 22 years experience as Executive Director of Texas Professional Photographers Association to POSGCD. He is a storyteller, photographer, videographer and professional speaker. Doug attended Texas Lutheran University and Blinn College where majored in Chemistry and Marketing.

## Committee Assignments

### Advisory Committee

Sidney Youngblood, Chair  
Steven Wise  
Tommy Tietjen  
Lee Alford

### Rules Committee

Robert Ware, Chair  
Sidney Youngblood  
Chris Whittaker  
Tommy Tietjen

### DFC Committee

Steven Wise, Chair  
Robert Ware  
Durwood Tucker  
Becky Goetsch

### Building Committee

Robert Ware, Chair  
Sidney Youngblood  
Lee Alford  
Durwood Tucker

### Grant Committee

Lee Alford, Chair  
Durwood Tucker  
Jay Wilder  
Steven Wise

### Education Committee

Bob Wilson, Chair  
Robert Ware  
Jay Wilder  
Chris Whittaker

### Legislative Committee

Durwood Tucker, Chair  
Bob Wilson  
Lee Alford  
Tommy Tietjen

### Outreach Committee

Sidney Youngblood, Chair  
Durwood Tucker  
Lee Alford  
Becky Goetsch

# LETTER FROM THE BOARD PRESIDENT

## SIDNEY YOUNGBLOOD



Dear Friends of Post Oak Savannah Groundwater Conservation District,

It is with sincere gratitude and good cheer that we send well wishes this holiday season and prosperity in the new year. We were able to achieve great things for our District this year with the support of our Board of Directors, staff, and communities. There is much progress to share and celebrate with you!

This year was memorable for us in several ways:

We officially announced, and made great strides with, the POSGCD Aquifer Conservancy Program. This program continues to pave the way for the future of water conservation as the interest increases for the program!

We added two full time staff members in Ralph Sifuentes, Field Tech, and Doug Box as Education Coordinator. Also, we are working with two interns; Lawrence Lin is helping Bobby Bazan update our current well records and Jaclyn Robertson is helping Doug Box in our education push especially in our Social Media efforts.

We dramatically increased the number of Monitoring wells in 2018 and we added 10 Acoustic Measurement tools to enable off-site and constant measuring of water levels.

Our 5th annual Milam and Burleson County Groundwater Summit was a great success with over 220 people in attendance. As always, the speakers received overwhelming approval in our survey.

We completed our 4th Rainwater Harvesting class offering this educational opportunity to over 120 students. Since the beginning of the program, the district has participated in the installation of 13 systems with over 51,500 gallons of total storage.

We worked with all 18 Fire Departments in our District. We reimbursed over \$20,000 for foam and for the Foam dispersing Pro-Paks, which conserves 50-90% of the water required to extinguish fires.

In the summer of 2018 we unveiled our Public Interface section of the website that brings field data to your desktop! This exciting new program provides real-time updates of groundwater data to increase transparency and collaboration between the district and landowners.

# LETTER FROM THE BOARD PRESIDENT

**SIDNEY YOUNGBLOOD**

We also continued providing Grants to Local Water Utilities in 2018 awarding \$1,254,150. Our goal is to obtain the active participation and cooperation of local water utilities in the funding and successful completion of programs and projects that will result in the conservation of groundwater in the District. The qualifying water conservation projects and programs will include, as appropriate, projects that result in the conservation of groundwater and reduce the loss or waste of groundwater.

The Abandoned Water Wells Grant program aids in plugging wells and is intended to protect the Aquifers from contamination from the abandoned wells. At first, we shared the cost, but the Board realized the importance of Plugging the Wells that they improved the program to pay 100% of the cost to plug a well for qualified applicants, up to a total District expense of \$2,500.00. This year five wells were plugged at of cost of \$10,175, protecting all of the aquifers in our District.

Our education program engaged local Lions club, Rotary Clubs, etc. We gave several town hall meetings to introduce the Aquifer Conservancy Program. We held two Public Outreach meetings, presented programs to school children from our District by working with the local county AgriLife offices, Brazos Valley GCD and Lone Star GCD. These programs teach students about the importance of natural resources, groundwater and environmental stewardship. We conducted two Well Education Programs, in conjunction with our Free water testing program in conjunction with Texas A&M AgriLife. We also hosted a program for the local water well drillers as well as a workshop for our local water utilities who deliver water and services to our local citizens. And finally, we hosted the local Master Gardeners class at our office.

POSGCD received a Clean Financial Audit for the Fiscal Year 2017 and an even bigger feather in our cap was the perfect score we received from the State Auditors Office of Texas for Groundwater Districts. The audit revealed POSGCD Fully Complied with All Statutory Requirements and according to the State Auditor, **The District fully complied with all nine applicable Texas Water Code requirements audited.**

Thank you for helping make 2018 a year of successes at POSGCD. We couldn't do this good work without you!

Help us spread the word to your friends and neighbours as we continue making progress toward our mission of conservation, preservation, protection, recharging, prevention of waste of groundwater, and leadership that ensures clean, abundant water for the citizens in our District.

And we encourage everyone to attend all of our functions including Board Meetings, Outreach Meetings, the Groundwater Summit, Town Hall Meetings and any of our classes. We encourage you to get involved!

Sincerely,



Sidney Youngblood

HB1784, the District's enabling legislation, requires the Board to meet at least quarterly. Listed here are the meetings and hearings of the Board for the year 2018. Additional information such as Agenda, materials and location may be obtained from the District's website at [www.posgcd.org](http://www.posgcd.org).

# Board Meetings

## Date

01.09.18  
02.06.18  
03.06.18  
04.03.18  
05.01.18  
06.05.18  
07.10.18  
08.07.18  
08.15.18  
09.11.18  
10.02.18  
11.06.18  
12.04.18

## Meeting Type

Board Meeting  
Board Meeting & Public Hearing  
Board Meeting  
Board Meeting  
Board Meeting  
Board Meeting  
Board Meeting  
Board Meeting  
Milam & Burleson Counties Groundwater  
Summit Board Meeting & Public Hearing  
Board Meeting  
Board Meeting & Public Hearings  
Board Meeting & Public Hearing

# Committee Meetings

01.09.18  
03.06.18  
04.03.18  
04.24.18  
06.05.18  
07.10.18  
08.07.18  
10.23.18  
11.06.18

DFC Committee  
DFC Committee  
Rules Committee  
Community Outreach Committee  
DFC Committee  
Rules Committee  
DFC Committee  
Community Outreach Committee  
DFC Committee



## Statewide Participation

The District participates from time to time as appropriate, through Board member, staff or consultants, as a resource or member for groups and associations, both local and statewide, where it is beneficial to the District's goals and mission. POSGCD participation in events in 2018 included:

- General Manager's Annual Reports to the Commissioner's Courts of Milam and Burleson Counties.

- The District's General Manager (GM) participated in the Texas Water Conservation Association (TWCA) Interim Groundwater Committee during 2018 in preparation for the 86th legislative session, working on possible legislative remedies to interim charges including groundwater as identified by the Senate Committee on Agriculture, Water, and Rural Affairs, and House Natural Resources Committee. These legislative issues included brackish groundwater production, aquifer storage and recovery (ASR), similar rules among GCDs, water conservation, joint planning, mitigation, and groundwater regulation of oil and gas industry. The GM continued to serve as a resource to legislators concerning these efforts in preparing for the 86th legislature in 2019.



- The GM served as representative from GMA 12 on Brazos G Regional Water Planning Group
- The GM served on the Texas Alliance of Groundwater District's (TAGD) Legislative Committee to offer expertise regarding legislation related to brackish groundwater production, aquifer storage and recovery (ASR), similar rules among GCDs, water conservation, joint planning, mitigation, and groundwater regulation of oil and gas industry in preparing for the 86th Legislature.



- The GM presented the District's new Aquifer Conservancy Program at the TWCA Mid-Year Conference on June 14, 2018.
- The GM and Board President gave a comprehensive update on activities and programs of the District at the Milam and Burleson Counties Groundwater Summit, August 15, 2018, to discuss the similarities and differences of GCDs within GMA 12.
- The GM served on a panel at the Texas Alliance of Groundwater Districts Groundwater Summit on August 29, 2018 to discuss the different tools afforded GCDs within Chapter 36, Texas Water Code, and ways those tools are used by GCDs in management or resources.

management or resources.

- The Water Resource Management Specialist moderated two panels at the Texas Alliance of Groundwater Districts Groundwater Summit on August 29, 2018 and August 30, 2018.
- The GM and one board member attended the Texas Aquifers Conference June 6-7, 2018
- District Staff, Board members, and consultants hosted town hall meetings to unveil and receive comment on the District's new Aquifer Conservancy Program in Caldwell on June 21, Rockdale on June 28, the District's office on July 10, and the Milam and Burleson Counties Groundwater Summit on August 15



- The President's designee served as the acting chairman for GMA 12
- POSGCD finalized its total commitment of \$230,000.00 to TWDB to assist their Groundwater Modeling Availability program to improve the Queen City-Sparta/Carrizo-Wilcox GAM for GMA 12.

- District Staff, Board members, and consultants hosted Community Outreach Committee meetings on April 24, and October 23, to receive input and comment from the public, and to address and answer questions from the public, concerning District Rules, Management Plan, programs and policies.

- District staff and consultants attended meetings where networking and discussions of interest were presented at TAGD in January, May, and August, and at TWCA in March, June, and October.

- District staff and consultants attended meeting where networking and discussions of interest were presented at TAGD in January, May, and August, and at TWCA in March, and October.



## Requirements of District Management Plan



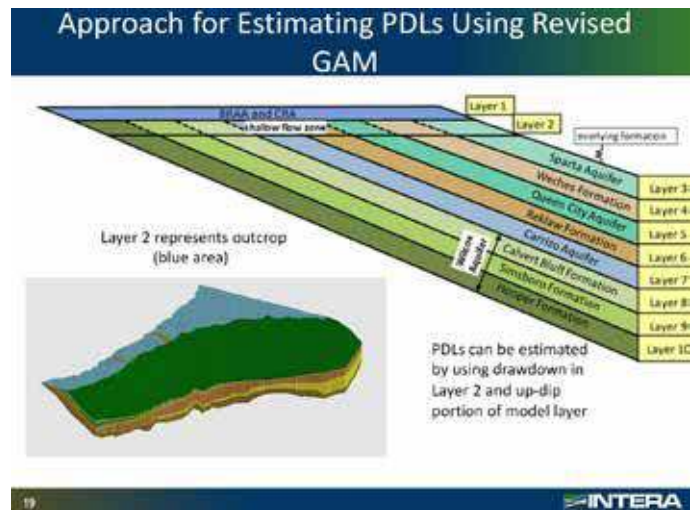
### Section 5. Management Zones

#### Goal

The District will establish and enforce Rules for the spacing of wells, the maximum allowable production of groundwater per acre of land located over an aquifer, require permits for production, regulate draw down and provide for a reduction in the maximum allowable production and permitted production of groundwater per acre of land based on the different surface and subsurface characteristics and different evaluation and monitoring within the Management Zones.

#### Action Taken

POSGCD maintains Rules to accomplish the objectives and goals expressed in the Management Plan in Section 1- District Mission, and Section 5 Management Zones. In 2018 POSGCD approved the permits listed in Table 1 after finding the applications to be in accordance with district rules and the management plan based on the findings of the District's staff, general counsel, and hydrogeologist. The District also accepted applications to register wells which are exempt, which were either preexisting or to be drilled, in accordance with district rules and management plan, and state law. These well registrations are listed in Table 3.



### Section 6. Management of Groundwater Supplies

#### Goal

The District will evaluate and monitor groundwater conditions and regulate production consistent with this plan and the District Rules.

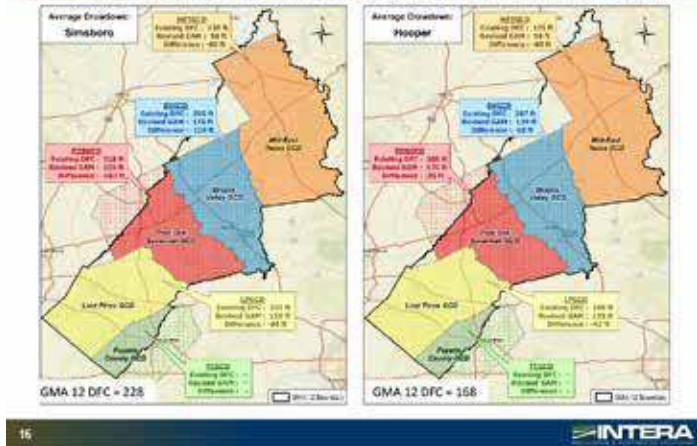
The District will adopt rules to regulate groundwater withdrawals by means of well spacing and production limits as appropriate to implement this Plan.

#### Action Taken

In 2018, POSGCD measured and evaluated water levels in the monitoring wells identified in the District's Well Monitoring Network. These wells provide coverage for all aquifers that are currently being pumped in the District for the purpose of joint planning. At 31 of the monitoring wells, POSGCD used transducers to continuously measure water levels. POSGCD maintains rules to regulate groundwater withdrawals by means of well spacing, measured water levels, and production limits per acre.

# Requirements of District Management Plan

## Predicted Average Drawdown(ft) and Current DFCs GMA 12: Simsboro and Hooper



### Section 7. Desired Future Conditions

#### Goal

The District shall participate in the joint planning process in Groundwater Management Area (GMA) 8 and GMA 12 as defined per TWC § 36.108, including establishment of Desired Future Conditions (DFCs) for management areas within the District. In its evaluation of potential DFCs, the District shall consider results from groundwater availability models, scientific reports, and the conditions of the aquifer within the management zones.

#### Action Taken

POSGCD participates in joint planning for GMA 8 and GMA 12 as required under Chapter 36.108, Texas Water Code.

During 2018 the member Districts of GMA 8 met in Cleburne, TX on June 27 and in Itasca, TX on November 30, to participate in joint planning as required under Chapter 36.108, Texas Water Code.

During 2018, on the dates of May 11 and October 9, the member districts of GMA 12 met in Milano, TX to participate in joint planning as required under Section 36.108, Texas Water Code. POSGCD continues to host meetings for GMA 12, and serves as the primary contact for GMA 12. The District's General Manager serves as the GMA 12 Representative on the Brazos G Regional Water Planning Group.

Minutes and presentations from the above meetings are available on the District's website, at [www.posgcd.org](http://www.posgcd.org).

## Discussion of "MAG Peak Factor" and Possible Considerations in Texas State Water Planning



Presented to  
 Post Oak Savannah GCD Board of Directors  
 February 6, 2018  
 By Gary Westbrook, POSGCD General Manager  
 Office: 512-455-9900  
 Cell: 979-571-5761  
[Email: gwestbrook@posgcd.org](mailto:gwestbrook@posgcd.org)  
[Website: www.posgcd.org](http://www.posgcd.org)

Serving the citizens of Milam and Burleson Counties

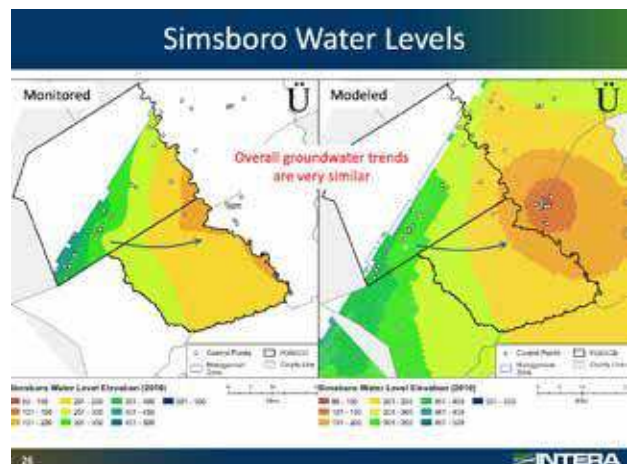
### Section 8. Modeled Available Groundwater (MAG)

#### Goal

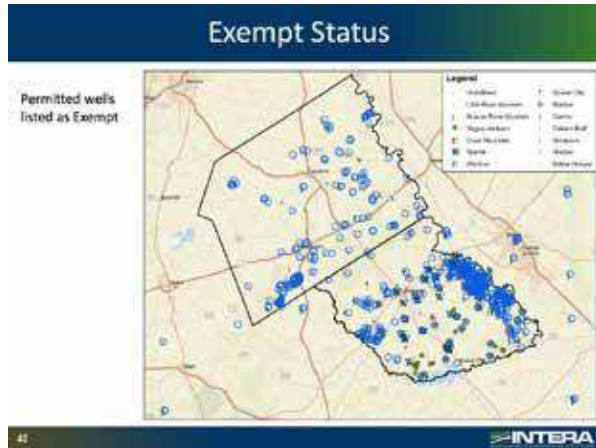
As referenced in Section 7, Chapter 36 requires the DFCs to be updated every five years.

#### Action Taken

The DFCs and Explanatory Reports for both GMA 8 and GMA 12 were adopted during 2017 and declared administratively complete by the Executive Administrator of the Texas Water Development Board. Upon the adoption of the DFCs the Executive Administrator of the Texas Water Development Board will establish the MAG and advise the Districts as to the amount of water that may be produced on an average annual basis to achieve each of the DFCs.



## Requirements of District Management Plan



### Section 9. Water Well Inventory

#### Goal

The District will assign permitted wells to a management zone and to an aquifer based on the location of the well’s screen or well depth using the Rules of the District.

#### Action Taken

POSGCD assigned permitted wells to management zones and documented these assignments in the District well database. POSGCD also continued discussions with TWDB to reconcile differences between aquifer identifications for monitoring wells in the two databases. This is an ongoing process.

The District’s website, [www.posgcd.org](http://www.posgcd.org), now hosts a web application which allows users to query and visualize the location of wells in the District’s Water Well inventory.



**WELL MONITORING NETWORK**  
Having a monitoring well is essential to better understand the system and gain insights on how important a monitoring well is to your site.

**COLLECTED DATA**  
Data collected from the well is used by the District to monitor aquifer health. Because the monitoring network is a collection of the health of the aquifer, the District will use the data to make informed management decisions and use engineering that might be needed to ensure the protection and replenishment of our best groundwater resources.

**REQUIREMENTS**  
The monitoring well will be in the Network, you will own the well and be responsible for the well. The well will be installed by the District's well contractor and will be installed by the District's well contractor and will be installed by the District's well contractor.

**MEASURING WELLS**  
The District will continue to add to the network of monitoring wells in the District. The District will continue to add to the network of monitoring wells in the District.

### Section 10. Groundwater Monitoring

#### Goal

The District will maintain a monitoring well network that will be used by the District to obtain measured water levels.

The District shall perform groundwater monitoring. The monitoring of the wells will be performed under the direction of the general manager, by trained personnel using a Standard Operation Procedure adopted by the District.

#### Action Taken

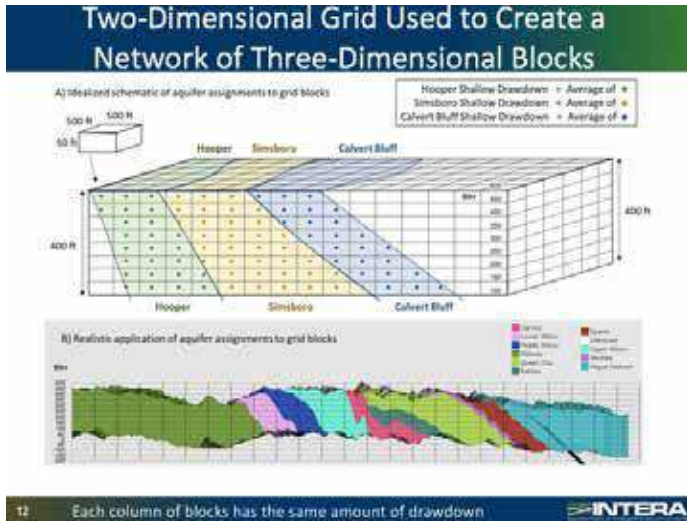
In 2018, POSGCD measured and evaluated water levels in the monitoring wells identified in the District’s Well Monitoring Network. These wells provide coverage for all aquifers declared relevant by the District for the purpose of joint planning. At 31 of the monitoring wells, POSGCD used transducers and WellIntell acoustic measurement technology to continuously measure water levels.

The District also completed the addition of approximately 50 monitoring wells, including 25 wells that had previously been part of the Texas Railroad Commission’s monitoring network for the Sandow Mine. As a result, the District now has monitoring wells located throughout the District, and in adjacent counties, as listed in Table 4, at locations shown on maps located on the District’s website at [www.posgcd.org](http://www.posgcd.org)

The District also shares monitoring responsibilities and exchanges monitoring information with neighbouring GCDs in an attempt to improve collection, exchange of information, and management of the groundwater resources within GMA 12

The District conducted several meetings with the TWDB to discuss and exchange information and ideas regarding a best approach for associating aquifer assignments to monitoring wells. These discussions will continue into 2019.

## Requirements of District Management Plan



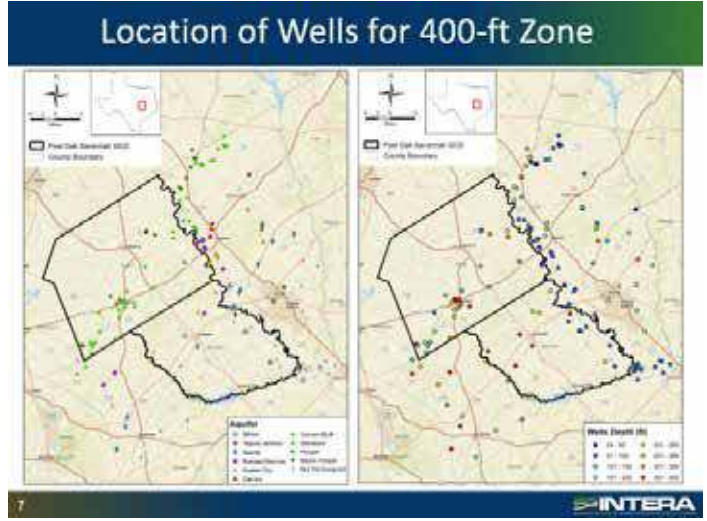
### Section 11. Threshold levels and analysis of groundwater level data

#### Goal

The District shall use threshold levels to help achieve its DFCs and to conserve and preserve groundwater availability and protect groundwater users.

#### Action Taken

As part of its evaluation of the monitoring network in 2018, District staff, in coordination with the District’s hydrogeologists, provided reports to the Board on changes in water levels in monitor wells in the District, and evaluations of those aquifer conditions and compliance with current Desired Future Conditions (DFCs), during public meetings. This topic was revisited at the August 7, 2018 Board meeting in a comprehensive evaluation of monitoring results compared to the DFCs and management goals identified in the District’s management plan.



### Section 12. Production and Spacing of Wells

#### Goal

Production and spacing of all wells within the District will be regulated by the District according to the Rules of the District. Well spacing and the rate of production of the well will be dependent on the management zone and the aquifer associated with the well, and other factors included in the Rules of the District.

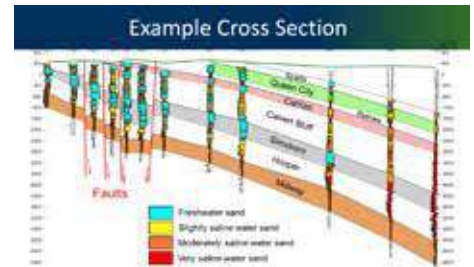
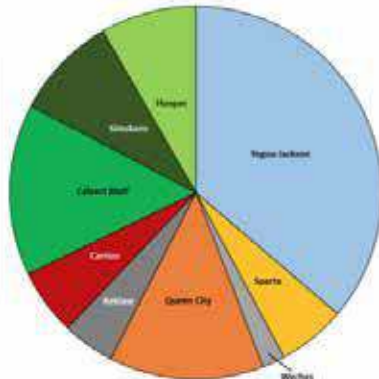
#### Action Taken

Each application to drill and operate a non-exempt well filed with the District is reviewed for completeness. In conducting this review, the desired spacing and rate of production are considered within the requirements of the Rules and the management zone spacing and production rates for the applicable management zone identified in the District’s Management Plan. All applications were reviewed and approved by one or more of the following, as appropriate: District staff, the District’s general counsel, and the District’s hydrologist.

## Requirements of District Management Plan

### Aquifer Volumes in the Three-Dimensional Grid

Aquifer	Volume	
	# Blocks	% Blocks
Yegua-Jackson	379,398	36%
Sparta	61,867	6%
Weches	20,636	2%
Queen City	140,746	13%
Reklaw	47,699	5%
Carrizo	59,867	6%
Calvert Bluff	155,577	15%
Simsboro	94,110	9%
Hooper	87,155	8%
<b>Total</b>	<b>1,047,055</b>	<b>100%</b>



### Section 14. Methodology for Tracking District Progress in Achieving Management Goals

The general manager of the District will prepare and present to the Board an annual report on the District's performance and accomplishment of the management goals and objectives.

This report satisfies that requirement.

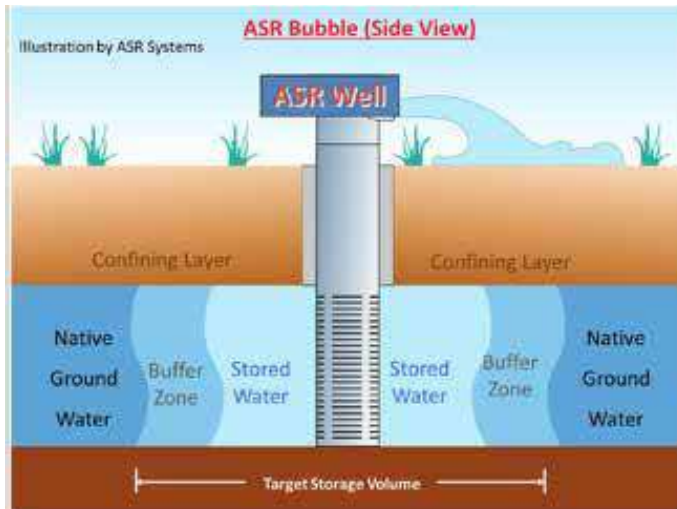
### 13. Actions, Procedures, and Avoidance for Plan Implementation.

#### Goals

The District's Management Plan has been reviewed and approved by the Texas Water Development Board. The plan complies with state and federal law, recognized water conservation and management practices, and provides protections for individual property rights. The District has adopted comprehensive rules pursuant to Chapter 36 as provided in the Management Plan, and those rules have been reviewed, updated and amended as needed to provide more specific protection for individual aquifers, to limit some restrictions on wells that provide water for a household and/or livestock, and to assure consistency with amendments to Chapter 36 and the intent of the Management Plan. As an example, a 2014 amendment of the rules, in response to economic development interests within the District, enabled the District to maintain all the requirements for permitting and production, eliminate delays and serve the best interests of the landowners, the general public and the taxing authorities within the District.

#### Action Taken

The District offers groundwater and water conservation educational programs to the school districts within the District, and has established a grant program for public water utilities to fund repairs and improvements to water systems to conserve, and limit the loss of water. The District also continues to work pro actively with GMA 8, GMA 12, the Texas Water Development Board, Burluson and Milam counties, the Texas Alliance of Groundwater Districts, the Brazos River Authority and other public organizations and private citizens, to assure the implementation of the Management Plan, and the protection of the groundwater supplies, aquifers, and property rights of all landowners. In this respect, it is noted that no amendment to either the Management Plan or the rules has been required as a result of significant court decisions regarding groundwater, the rights of landowners or groundwater districts.



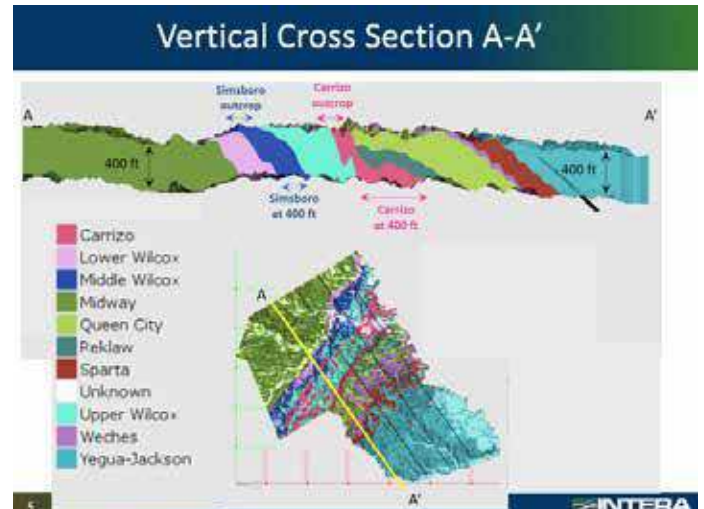
## Section 15. Aquifer Storage and Recovery Projects

### Goals

An Aquifer Storage and Recovery (ASR) project involves the injection of water into a geological formation for subsequent recovery and beneficial use. The District acknowledges that ASR projects can help to improve the overall management of water resources in GMA 12. However, the District also recognizes that poorly designed and instrumented ASR project can be operated in such a manner as to adversely affect the production capacity of existing wells located near the ASR project. As ASR projects are identified, the District will coordinate with the Texas Commission on Environmental Quality to provide data and/or technical expertise that could assist with the evaluation of the proposed ASR project.

### Action Taken

There were no proposed ASR projects in 2018.



## Section 16. Management Goals, Objectives, & Performance Standards

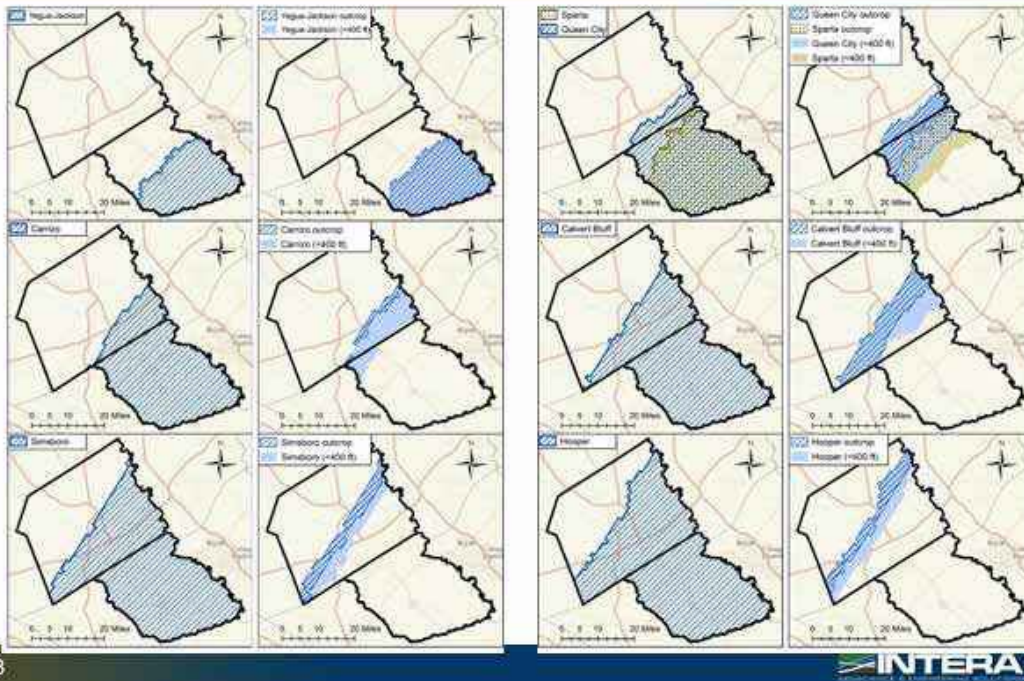
### 16.1 Efficient Use of Groundwater

#### Management Objectives:

1. The District will maintain a monitoring well network with at least 50 monitoring wells to provide coverage across management zones and aquifers within the District. The District will measure water levels at the monitoring well locations at least once every calendar year. A written analysis of the water level measurements from the monitoring wells will be made available through a presentation to the Board of the District at least once every three years.
2. The District will provide educational leadership to citizens within the District concerning this subject. The activity will be accomplished annually through at least one printed publication, such as a brochure, and public speaking at service organizations and public schools as provided for in the District's Public Education Program.

# Requirements of District Management Plan

## Footprint Comparisons of Aquifer and 400-ft Zone



### Section 16. Management Goals, Objectives, & Performance Standards

#### 16.1 Efficient Use of Groundwater

##### Performance Standards:

1. Maintain a monitoring well network and its criteria, and measure at least 100 monitoring wells at least once every calendar year.

Table 4 lists 175 wells that were a part of POSGCD monitoring well network in 2018, for which water levels were recorded at least once during that year. At 31 of these wells, data loggers coupled with transducers or WellIntel acoustic measurement technology units were used to obtain continuous water level measurements. The POSGCD monitoring well network includes additional wells which either did not yield useful measurements or were not available for measurement during 2018. Those wells are identified in Table 4 and will be visited during 2019 monitoring efforts to record information for use by the District and forwarded to the Texas Water Development Board.

2. Number of monitoring wells measured annually by the District. Written report presented to the Board to document that water levels at these monitoring wells have been measured a minimum of once each year.

Table 4 lists wells that were a part of POSGCD monitoring well network in 2018 for which water levels were recorded at least once during that year. A report on this monitoring was presented to the Board on August 7, 2018 in a comprehensive evaluation of monitoring results compared to DFCs and management goals as identified in the District's management plan.

3. The number of publications and speaking appearances by the District each year under the District's Public Education Program.

Table 5 lists the instances and publications where this topic was addressed.



## Requirements of District Management Plan



### 16.2 Controlling and Preventing Waste of Groundwater.

#### Management Objectives:

1. The District will provide educational leadership to citizens within the District concerning this subject. The activity will be accomplished annually through at least one printed publication, such as a brochure, and public speaking at service organizations and public schools as provided for in the District's Public Education Program. During years when District revenues are sufficient, the District will consider funding a grant to obtain a review, study, or report of pertinent groundwater issues, or to sponsor the attendance of students at summer camps/seminars that place emphasis on the conservation of water resources.



### 16.2 Controlling and Preventing Waste of Groundwater.

#### Performance Standards:

1. The number of publications and speaking appearances by the District each year, and the number of grants considered and students actually accepting and attending an educational summer camp or seminar.

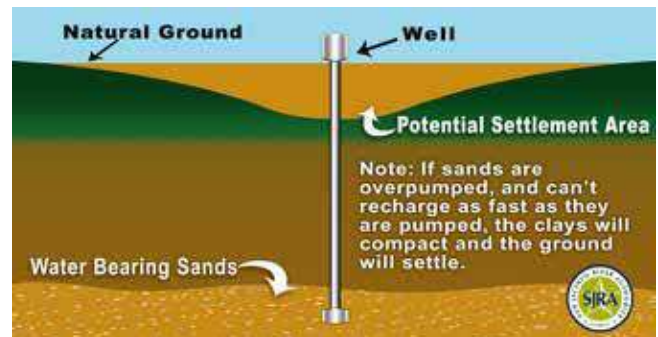
Table 5 lists the instances and publications where this topic was addressed.

# Subsidence

## 16.3 Control and Prevent Subsidence

### Management Objectives:

1. The District will monitor draw downs with due consideration to the potential for land subsidence. At least once every three years, the District will assess the potential for land subsidence for areas where water levels have decreased more than 100 feet since the year 2000.



## 16.3 Control and Prevent Subsidence

### Performance Standards:

1. Within three years of the approval of this plan and every three years thereafter, the District will map any region where more than 100 feet of draw down has occurred since the year 2000 and assess the potential for land subsidence. The results of this assessment will be presented and discussed in a District Board meeting.

POSGCD evaluated water level measurements from over 175 monitoring wells and did not find any evidence of draw down that would be sufficient to cause land subsidence has occurred during the last few years or will occur in the next few years.

## Requirements of District Management Plan



### **16.4 Conservation of Groundwater including Rainwater Harvesting, Precipitation Enhancement, Brush Control, Conjunctive Use, and/or Recharge Enhancement of Groundwater Resources in the District**

#### **Management Objectives:**

1. The District will provide educational leadership to citizens within the District concerning this subject. The educational efforts will be through at least one printed publication, such as a brochure, and at least one public speaking program at a service organization and/or public school as provided for in the District's Public Education Program. Each of the following topics will be addressed in that program:

- A. Conservation
- B. Rainwater Harvesting
- C. Brush Control
- D. Recharge Enhancement
- E. Conjunctive Use
- F. Precipitation Enhancement

2. During years when District revenues are sufficient, the District will consider sponsoring the attendance of students and/or teachers at summer camps/seminars that place emphasis on the conservation of groundwater, rainwater harvesting, brush control, groundwater recharge enhancement, conjunctive use, precipitation enhancement of water resources, or a combination of such groundwater management programs.

3. The District will encourage and support projects and programs to conserve and/or preserve groundwater, and/or enhance groundwater recharge, by annually funding the District's Groundwater Conservation and Enhancement Grant Program, during years when the District's revenues remain at a level sufficient to fund the program. The objective of this program is to obtain the active participation and cooperation of local water utilities, fire departments and public agencies in the funding and successful completion of programs and projects that will result in the conservation of groundwater and the protection or enhancement of the aquifers in the District. The qualifying water conservation projects and programs will include, as appropriate, projects that: result in the conservation of groundwater, reduce the loss or waste of groundwater, recharge enhancement, rainwater harvesting, precipitation enhancement, brush control, or any combination thereof. The District's objective is to benefit the existing and future users of groundwater in the District by providing for the more efficient use of water, increasing recharge to aquifers, reducing waste, limiting groundwater level declines, and maintaining or increasing the amount of groundwater available, by awarding at least one grant under the program in each county annually.

## Requirements of District Management Plan



### 16.4 Conservation of Groundwater including Rainwater Harvesting, Precipitation Enhancement, Brush Control, Conjunctive Use, and/or Recharge Enhancement of Groundwater Resources in the District

#### Performance Standards:

1. The number of publications and speaking appearances by the District each year under the District's Public Education Program.

Table 5 lists the instances and publications where this topic was addressed.

2. The number of students sponsored to attend a summer camp/seminar emphasizing the conservation of water.

The District offered the opportunity to students and youth through schools in the District but no applications were received. The District continued support during 2018 for the Texas A&M Agri-Life Texas 4-H Water Ambassadors Program through annual sponsorship in its program. Students from the District and other areas of the state benefit from this sponsorship. Details can be found on facebook at: @TX4HWaterAmbassador

3. Annual funding, when applicable, for the District's Groundwater Conservation and Enhancement Grant Program, and the number of projects and programs reviewed, approved, and funded under that program. A written report providing estimated benefit of the amount of groundwater conserved, of the recharge enhancement, and/or of additional groundwater protection provided by the program.

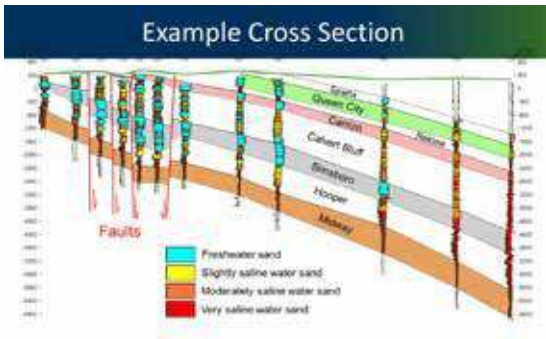
Table 6 lists the successful applications awarded District funds for this purpose.

4. The number and content of reports submitted regarding sponsored programs.

The report regarding Table 6 was given at the Board meeting at which Grant Awards were made on April 3, 2018. The 2017-18 Water Wise report was presented to the Board on September 11, 2018. This report is available on the District's website at [www.posgcd.org](http://www.posgcd.org) and upon request from the District.

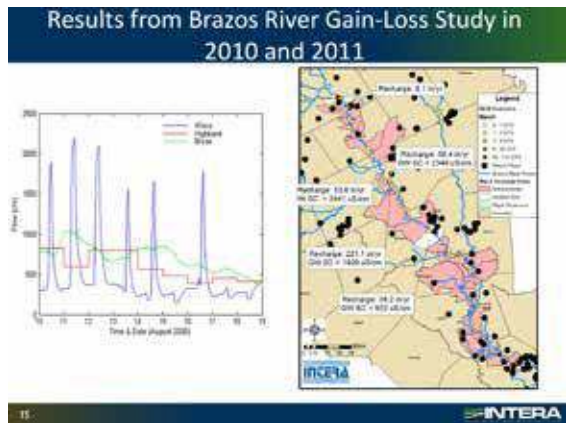
The District also provided funding for groundwater conservation efforts by fire departments within the District during 2018, in the total amount of \$22,681.36.

# Requirements of District Management Plan



## 16.5 Conjunctive Use of Surface and Groundwater Management Objective:

1. The District will confer annually with the Brazos River Authority(BRA)on cooperative opportunities for conjunctive resource management.

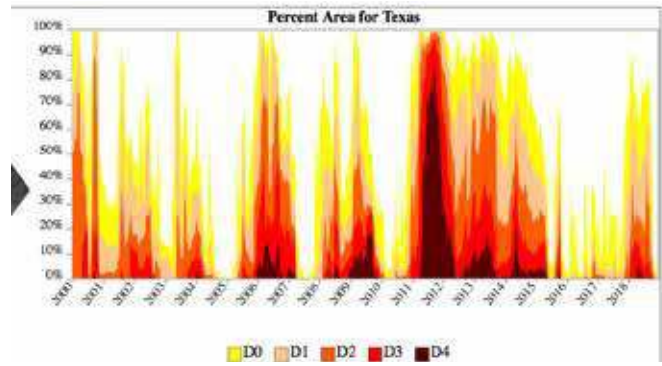


## 16.5 Conjunctive Use of Surface and Groundwater Performance Standard:

1. The number of conferences with the BRA on conjunctive resource management.
2. The number of times each year in which the applicant, general manager or the Board considers conjunctive use in the permitting process.

The District’s General Manager discussed this item on March 8, 2018 with representatives of the Brazos River Authority during meetings held at the Texas Water Conservation Association’s Spring Conference.

No applications for conjunctive use were filed with the District.

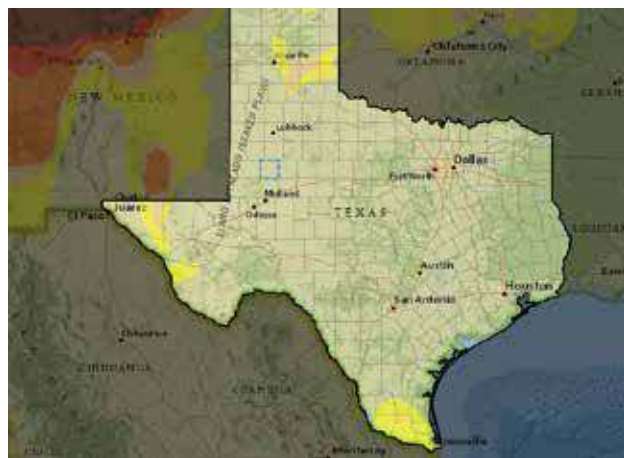


## 16.6 Drought Management Strategy

The aquifers within the District are substantially resistant to water level declines during drought conditions. As a result, the District does not have a drought management strategy based on precipitation metrics such as the Palmer Drought Index. The District management strategy is to review and to verify enforcement of Drought Management Plans adopted by District permit holders and entities that contract to purchase water from District permit holders.

### Management Objectives:

1. When permits or contracts are issued, as applicable, the District will confirm that all entities have a Drought Management Plan or Drought Contingency Plan that has been approved by the Texas Commission on Environmental Quality or another regulatory agency in the State of Texas.



## 16.6 Drought Management Strategy

### Performance Standards:

2. State approved Drought Management Plans or Drought Contingency Plans on file at the District Offices.

The District hydrogeologists have reviewed the monitoring well data during the last ten years and have confirmed that the aquifers of the Districts are substantially resistant to water level declines during drought. The District’s Rules require that all permit holders with Drought Plans or Management Strategies are required to abide by those plans and strategies.

## Requirements of District Management Plan



### 16.7 Natural Resource Issues That Impact the Use and Availability of Groundwater and Which are Impacted by the Use of Groundwater

The District reviewed applications and approved issuance of 40 permits for non-exempt wells in 2018 (see Tables 1 and 2), of which 14 were limited term permits for Oil and Gas fracturing (see Table 2). None of these permits were deemed to have sufficient pumping to potentially cause significant water level change.

#### Management Objectives:

1. The District will confer at least once every two years with appropriate agencies on the impact of groundwater resources in the District.
2. The District will evaluate permit applications for new wells and the information submitted by the applicants on those wells prior to drilling. The District will assess the impact of these wells on the groundwater resources in the District.
3. The District will implement the POSGCD Well Closure Program. The objective of the well closure program is to obtain the closure and plugging of derelict and abandoned wells in a manner that is consistent with state law, for the protection of the aquifers, the environment, and the public safety. The District will conduct a program to identify, inspect, categorize and cause abandoned and derelict water, oil and gas wells to be closed and plugged, by annually funding the program or segments or phases of the program appropriate to be funded in such fiscal year. The District will fund the closure of at least one abandoned well during years when the District's revenues remain at a level sufficient to fund the program.



### 16.7 Natural Resource Issues That Impact the Use and Availability of Groundwater and Which are Impacted by the Use of Groundwater

#### Performance Standards:

1. The number of conferences with a representative of appropriate agencies.

The General Manager (GM) participated on TAGD (August 30, 2017) and TWCA (January 13, 2017) committees to discuss oil and gas uses of groundwater, and District regulation of the same.

2. Reports to the Board on the number of new well permit applications filed, and the possible impacts of those new wells on the groundwater resources in the District.

These reports are given at the regular meetings of the Board and are available in the District's meeting minutes, which may be found on the District's website at [www.posgcd.org](http://www.posgcd.org).

3. Annual funding, when applicable, for the District's Well Closure Program, and the number of wells closed and plugged as a result of the Well Closure Program.

The District funded well plugging for 5 qualified wells in 2018.

## Requirements of District Management Plan



### 16.8 Groundwater Well Assistance Program

#### Management Objective:

1. Beginning in 2018, the District will maintain a Groundwater Well Assistance Program (GWAP). The primary purpose of the GWAP is to help restore a water supply to well owners in the District who own wells that have experienced significant adverse impacts, and where applicable to address well conditions to prevent significant adverse impacts, from groundwater level declines caused by aquifer-wide groundwater pumping in GMA 12. A secondary purpose of the GWAP is to improve the POSGCD monitoring program and the POSGCD's understanding of groundwater aquifer systems in POSGCD by increasing the number of monitoring wells in the monitoring well network and by performing localized hydrogeological studies at these monitoring locations.



### 16.8 Groundwater Well Assistance Program

#### Performance Standard:

The objective was met when the GWAP was adopted at the Board Meeting on January 9, 2018.

# Mitigation

### 16.9 Mitigation

#### Management Objective:

The District will require filing with the District of mitigation plans required by the District or any State agency regarding impacts caused by groundwater pumping in the District.



### 16.9 Mitigation

#### Performance Standards:

1. Mitigation plans on file at the District that are related to groundwater pumping in the District.

During 2013, ALCOA's mitigation plan, required by the Railroad Commission of Texas (TRRC) in conjunction with mining permits from TRRC, and the mitigation plan adopted by Gonzales Co. UWCD were reviewed by District staff, attorneys, and hydrogeologists. These plans were revisited during 2017 in development of the Groundwater Well Assistance Program.

At the November 10, 2015 Board Meeting a presentation was given to the Board by Mr. Fred Russell, of Gause, TX, concerning the benefits of a District mitigation program. At this time, the District maintains successful management under current District Rules and management strategies negates this need, however, to address this request from citizens, the District has developed a Groundwater Well Assistance Plan during 2017, and will adopt this plan in 2018.

The District will continue to review mitigation plans prepared by other agencies.

2. Report of the impacts and predicted impacts on well owners in the District on file at the District Offices.

District staff presented reports and/or discussion on this topic during evaluations of compliance with adopted Desired Future Conditions at Board meeting on August 7, 2018.

## Requirements of District Management Plan

### 16.10 Desired Future Conditions (DFCs)

#### Management Objective:

1. At least once every three years, the District will monitor water levels and evaluate whether the change in water levels is in conformance with the DFCs adopted by the District. The District will estimate total annual groundwater production for each aquifer based on the water use reports, estimated exempted use, and other relevant information, and compare these production estimates to the MAGs listed in Table 8-1.

### 16.10 Desired Future Conditions (DFCs)

#### Performance Standard:

1. At least once every three years, the general manager will report to the Board the measured water levels obtained from the monitoring wells within each Management Zone, the average measured draw down for each Management Zone calculated from the measured water levels of the monitoring wells within the Management Zone, a comparison of the average measured draw downs for each Management Zone with the DFCs for each Management Zone, and the District's progress in conforming with the DFCs.

2. At least once every three years, the general manager will report to the Board the total permitted production and the estimated total annual production for each aquifer and compare these amounts to the MAGs listed in Table 8-1 for each aquifer.

The District's staff and hydrologist covered this topic at the August 7, 2018 Board meeting in a comprehensive evaluation of monitoring results compared to the DFCs and management goals identified in the District's management plan, and the results indicated that, at that time, the District was in conformance with the DFCs adopted by the District in 2010 as part of the joint planning process.

The District staff reported results of evaluations of compliance with DFCs during 2018 at the August 7 and December 4 Board Meetings.

The District will continue this process by developing additional methodologies to evaluate these items. The District's Staff will also continue ongoing reports to the Board during public Board Meetings covering all of these factors.

# DFCs

## FINANCES & DISTRICT AUDITS

### Financial Reports and Annual Financial Audit

Financial reports are given at each meeting of the District's Board of Directors. The Annual Financial Audit of the District for Fiscal Year 2017 was presented to the Board at the April 3, 2018 Board Meeting and yielded a clean report.

[www.posgcd.org/posgcd-background/district-finances/](http://www.posgcd.org/posgcd-background/district-finances/)

### State Audit Reveals Perfect Score

Post Oak Savannah GCD was one of five GCDs selected by the State Auditors Office. These GCDs were audited on their (1) achievement of selected groundwater management plan goals and (2) compliance with selected statutory requirements for each district's fiscal year 2017. **Post Oak Savannah Groundwater Conservation District fully achieved all of their management plan goals and fully complied with all applicable Texas Water Code requirements.** [www.posgcd.org/category/press-releases/](http://www.posgcd.org/category/press-releases/)

### Fines levied by the District in 2018

One fine in the amount of \$1000 was levied by the District during 2018. This fine was levied against Wildhorse Resources for using water from a well for a purpose other than the purpose indicated in the well permit.

### State Validates Groundwater District's Management Practices

The Texas Commission on Environmental Quality (TCEQ) ON May 9, 2018 rejected a petition filed against the Post Oak Savannah Groundwater Conservation District (POSGCD) by a local resident who believed the District was not doing enough to protect the groundwater in Milam and Burleson counties. After consideration of all information, the TCEQ Commissioners voted unanimously to dismiss the petition. The Commissioners all agreed POSGCD was following the law and meeting the needs of the local land owners, while providing long term protection of the groundwater in the aquifers of the District. Both the TCEQ Executive Director and the TCEQ Office of Public Interests Council recommended in April to dismiss the petition, noting the petitioner had not produced evidence to support his claims.

# MONITORING WELLS

# 35% Increase

for 2018

## NEW NEXT GENERATION MONITORING ACOUSTIC MEASUREMENT TECHNOLOGY



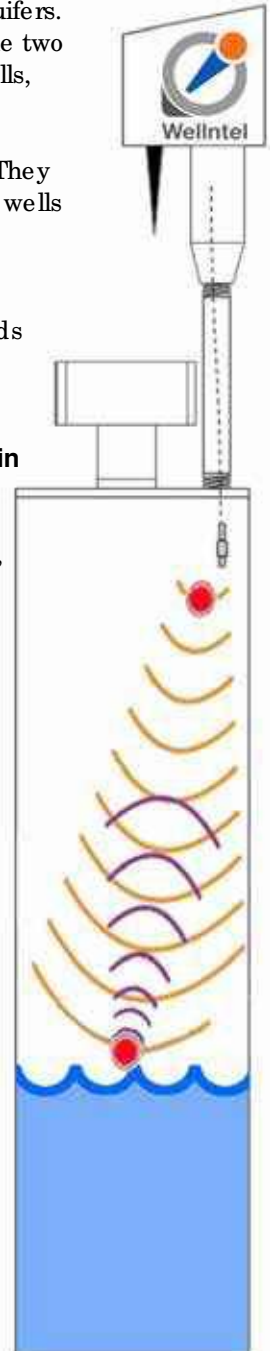
Well Monitoring is one of the most important tools Post Oak Savannah Groundwater Conservation District has to track the health of the Aquifers. At the present time the District has over 200 Monitor Wells across the two counties which include Rural Water Suppliers, landowner exempt wells, and wells the District has drilled for the sole purpose of monitoring.

Monitor wells give us a snapshot of the water levels in the aquifers. They also give us a tool for making better decisions on installation of new wells and the amounts of water available for pumping.

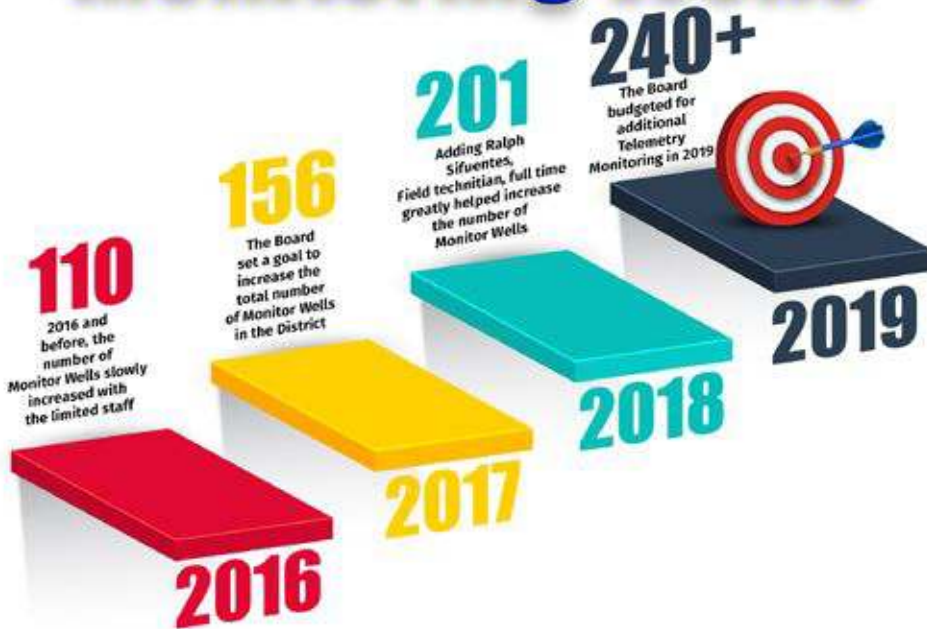


Ralph Sifuentes, POSGCD Field Technician, measures most monitor wells at least once a year. We take the date and water level he records and enter everything into our database. We are then able to use our hydrological models to make better decisions about managing these aquifers. **The more monitoring wells we have help us better understand the Aquifers and how pumping impacts water levels in specific areas.**

New for this year, we are implementing a patented, next-generation, acoustic measurement technology, These include remote telemetry, and a cloud platform to collect accurate and reliable groundwater level measurements.



# Monitoring Wells





# GROUNDWATER SUMMIT

## 5th Annual Milam & Burleson Co Summit



The 2018 Milam and Burleson Counties Groundwater Summit

Central Texas residents gathered on August 15, 2018 for the fifth annual Groundwater Summit at the Caldwell Civic Center for information and education on groundwater topics relevant to our local communities. We had a great attendance with over 220 people registered from Burleson, Milam, Brazos, Travis, Robertson, and Lee counties!



Topics presented at the Summit included:

- Overview of the Carrizo-Wilcox Aquifer
- Groundwater Availability Models (GAMs)
- Groundwater Property Rights & Rule of Capture
- POSGCD/AgriLife Programs
- POSGCD Monitoring Update
- Oil & Gas Fracking and Disposal Wells
- The NEW Aquifer Conservancy Program



This years Groundwater Summit was a big success

Everyone enjoyed the great venue, food, door prizes, and the speaker presentations about the aquifers and water law. It was a great opportunity for the District to contribute and connect with the public about groundwater conservation and the legacy of stewardship. We hope to see YOU at the Groundwater Summit next year!



# RAINWATER CONSERVATION GRANT PROGRAM



BURLESON AND MILAM COUNTIES AVERAGE  
= 37 INCHES  
OF RAIN PER YEAR



= 320 GALLONS  
AVERAGE HOME WATER  
USE PER DAY

100 GALLONS  
USED OUTDOORS  
DAILY



1000-SQUARE FOOT ROOF  
CATCHES 400 GALLONS OF WATER  
IN A 1" RAIN



### RAINWATER HARVESTING BENEFITS

- REDUCES CONTAMINATION OF SURFACE WATER
- CONSERVES WATER
- REDUCES RUN-OFF
- REDUCES EROSION
- CONSERVES ENERGY
- REDUCES PERSONAL WATER BILLS



### RAINWATER

- IT SUPPORTS LANDSCAPE HEALTH
- IS FREE OF SODIUM AND CHLORINE
- PH IS OPTIMIZED TO SUPPORT PLANT
- IMPROVES MICROBIAL SOIL LIFE
- HELPS RECHARGE AQUIFERS
- RAINWATER IS FREE
- PREVENT IMPACT OF STORMWATER RUN-OFF



### RAINWATER CAN BE USED



POST OAK SAVANNAH  
GROUNDWATER CONSERVATION DISTRICT



## RAINWATER HARVESTING

In September of 2017, Post Oak Savannah Groundwater Conservation District (POSGCD) and Texas A&M AgriLife Extension Service (AgriLife) collaborated to offer a Water Conservation Program through the District. The program includes: a rainwater harvesting system, rainwater harvesting rebate program, drought-tolerant garden and irrigation demonstration sites, and series of educational workshops.



### 13 SYSTEMS INSTALLED

Through education workshops and the POSGCD rebate program, to date thirteen, rainwater harvesting systems have been constructed throughout the District.



### 51,550 TOTAL STORAGE

Gallons of storage. The rebate program is based on \$1/gallon of tank capacity up to \$3,000 per household. Despite the maximum of 3,000 gallon cistern or \$3,000 reimbursement, participants have installed an average about 4,000 gallon cisterns per system.



### 23 TOTAL CISTERNS

The 13 installed systems consist of 23 total cisterns. Rainwater harvesting system has benefited the environment by reducing erosion around the office and by providing an outlet for heavy rains to be diverted into storage tanks then applied slowly through drip emit-



### 658,323 GALLONS

The potential to collect 658,323 gallons\* of water per year. (\*based off collection surface and average rainfall). These systems will reduce erosion, divert and slow down flood water, promote groundwater recharge, and lessen the burden on groundwater and surface water.



# FIRE DEPARTMENT REIMBURSEMENT GRANT

## 14

ProPaks

ProPaks aid the Fire Fighters in reducing the amount of water need to extinguish the fire by delivering foam to the fire. These units are refillable.

## FOAM

Replacement

The foam deprives the fire of oxygen, thereby reducing heat. By Suppressing combustion, the foam reduces the use of water by making the equivalent 15,000 gallons of water from only 250.

## 9

VFD's Milam County

Rockdale VFD,  
Thorndale VFD,  
Milano VFD,  
Minerva VFD  
Bartlett-Davilla FD,  
Cameron VFD,  
Burlington VFD,  
Buckholts VFD,  
Gause VFD

## 9

VFD's Burleson County

Caldwell Fire & Rescue  
Somerville VFD  
Snook VFD Black Jack  
Volunteer FD  
Beaver Creek VFD  
Birch Creek Area VFD  
Cooks Point VFD  
Deanville VFD  
Cade Lake VFD

Post Oak Savannah GCD Board of Directors continued its support of local Fire Departments and efforts in water conservation in the District by providing a check for \$6,975 to the Milam County and \$13,486 to Burleson County Fire Chiefs Association for the purchase of nine new ProPaks that use foam to suppress fires instead of water. This fire fighting system is portable and self-contained to better combat both Class A (combustibles) and Class B (flammable liquids) fires. The replaceable ProPaks attach to the end of a fire hose to coat the fire in foam which deprives the fire of oxygen, thereby reducing heat. By suppressing combustion, the foam reduces the use of water by making the equivalent 15,000 gallons of water from only 250 gallons.

Additional benefits for using foam include:

- Reduction of water necessary to suppress fires
- Reduction of man-hours and equipment needed
- Reduction of number of trips needed to deliver suppressant
- Reduced air pollution
- Lessens firefighter risk of exposure to airborne carcinogens
- Lowers amount of runoff & water pollution
- Less water damage to property

Post Oak Savannah Groundwater Conservation District is thankful for the service of our fire departments and proud to support safer, more environmentally friendly alternatives for fighting fires by these local heroes.

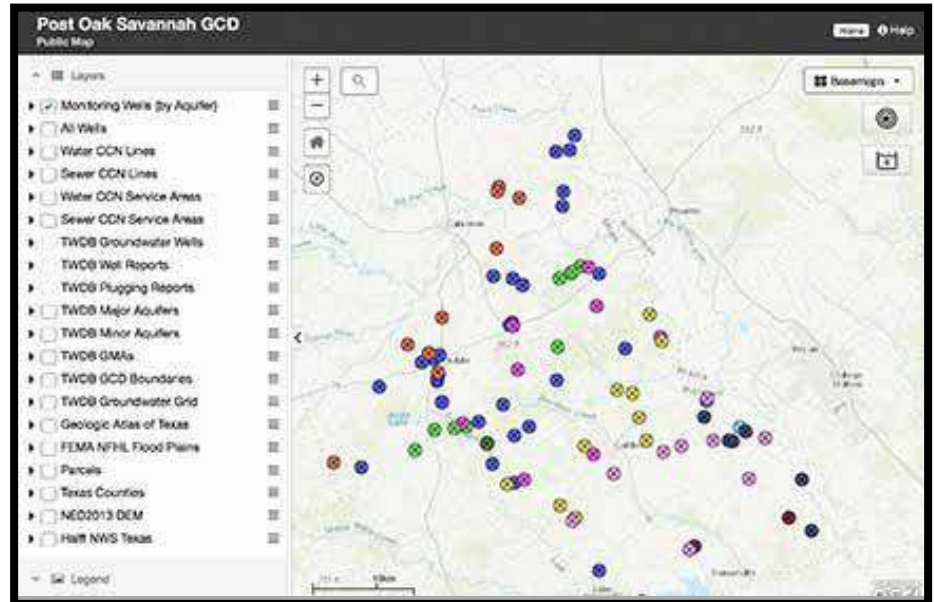


# PUBLIC INTERFACE

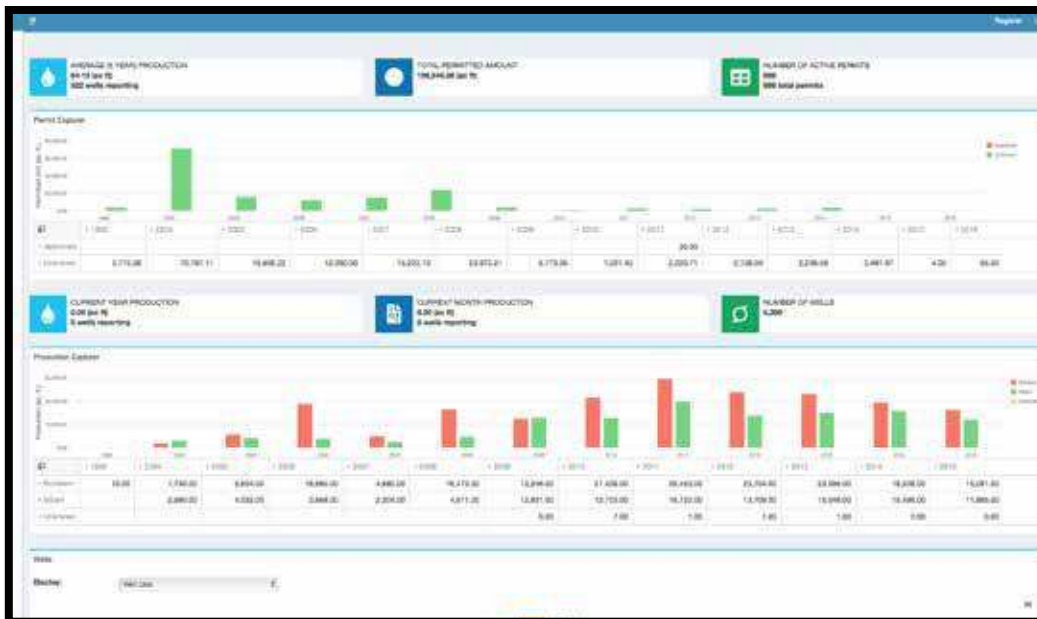
Post Oak Savannah GCD is proud to announce the launch of the NEW Public Interface section of the website that brings field data to your desktop! This exciting new program provides real-time updates of groundwater data to increase transparency and collaboration between the district and landowners. Resources include the ability to view aquifer coverage, aquifer depths, and productivity of all monitored wells within the POSGCD jurisdiction on a standard Internet browser.

The web page is organized into three user-friendly components: Tutorials, Dashboard, and Public Maps.

- The Tutorials section is a collection of videos with step-by-step instructions for navigating the new interface and using these new tools.
- The Dashboard provides information about District registrations, permits, and production which is represented in both graphical and numerical forms.



**The Public Interface allows landowners to access aquifer depths and coverage in addition to monitored well locations.**



- The “jewel” of this new interface is the Public Maps. This section provides a visual interpretation of district information through several interactive Geographic Information System (GIS) mapping tools. The “Virtual Boring Tool” allows landowners to access aquifer depths and coverage in addition to monitored well locations. No additional software downloads are necessary.

These innovative new tools increase accessibility with ever-improving accuracy to enable easier sharing of information between stakeholders. We encourage you to explore the tutorials and information available on our website. Feel free to contact the office with any questions.

# AQUIFER CONSERVANCY PROGRAM



## AQUIFER CONSERVANCY PROGRAM

### THE PURPOSE OF THE ACP

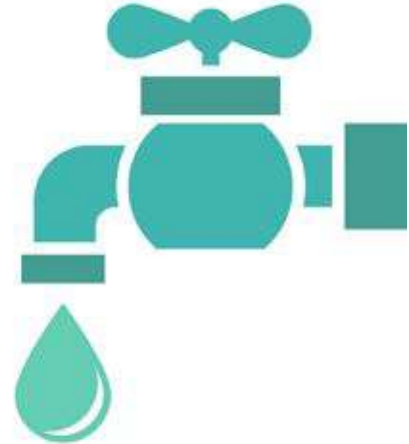
- Empower landowners through stewardship
- Conserve groundwater for future generations
- Establish a legacy of conservation
- Compliment current sustainable practices
- Add a long-term tool to POSGCD toolbox of management strategies provided by state law.

### WHY THE AQUIFER CONSERVANCY PROGRAM

As Texas continues to grow, demands on groundwater resources increase. In response to these concerns, together with local landowners we have developed this proactive solution. (The legislative purpose of the District is to provide balance between production and

### HOW DOES THE ACP HELP CONSERVE THE AQUIFERS

Do I lose my property or water rights? No!  
 Do I have to commit ALL my land? No!  
 Can I still have my personal well? Yes!  
 The program survives the current Board and management. This is a longterm commitment by citizens toward the sustainability of the aquifers and water for future generations.



The Post Oak Savannah Aquifer Conservancy Program (ACP) continues to pave the way for future of water conservation as program outreach and interest increase!

The program was founded to support local landowner legacies through long-term, sustainable stewardship of groundwater resources. The Board of Directors hold landowner interests and concerns with high regard and have made recent changes in response to local concerns:

- First, an enrollment incentive of \$10/acre for 2019 will be available for the first annually recurring 90-day enrollment period (dates to be announced).
- Second, after receiving input from the public, the Board modified the program to address concerns. Now, any change in ownership of property enrolled in

the program will end the commitment, with the option to continue available to the new owner.

- Third, the Board has implemented Flexible Commitment Options.

The following terms of commitment will receive the identified annual payment:  
 (A) Five years- \$5/acre/year  
 (B) Ten years- \$8/acre/year  
 (C) Twenty years- \$10/acre/year.

The Directors continue to work diligently on this program to conserve the local legacies of the communities it represents, and plan to publish the formal draft for public comment again October 2.

For the most current updates, review of the program details, and answers to frequently asked questions, refer to <https://posgcd.org/pacp> main page.

# EDUCATION SCHOOLS

Post Oak Savannah GCD offers educational tools and presentations to 4<sup>th</sup> and 7<sup>th</sup> grade classrooms to schools in our District. The POSGCD Water Wizard Program covers the state required subject matter about how natural events and human activity impact groundwater and surface water in a watershed. Within the presentation, students get a chance to see a groundwater model in action, as well as learn about human effects through pumping and recharge. Students also learn about the importance of water conservation and different ways that we can all do our part to protect our groundwater resources.

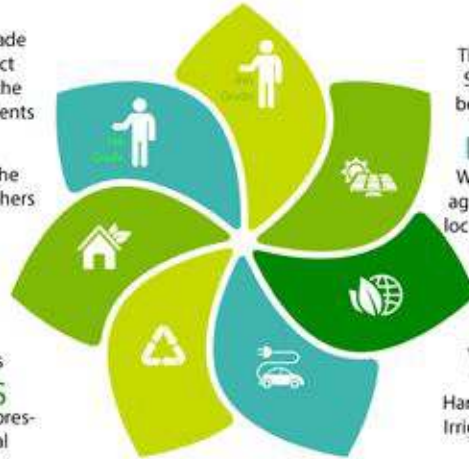
## EDUCATION PRESENTATIONS

**4th GRADE**  
We work with 4th grade teachers in the District assisting them with the Texas state requirements

**7th GRADE**  
We also work with the local 7th grade teachers to assist them

**AgriLife**  
We work with the AgriLife Extension Agents in Burleson and Milam Counties

**SERVICE CLUBS**  
We are available to present programs at local service clubs



**SUMMIT**

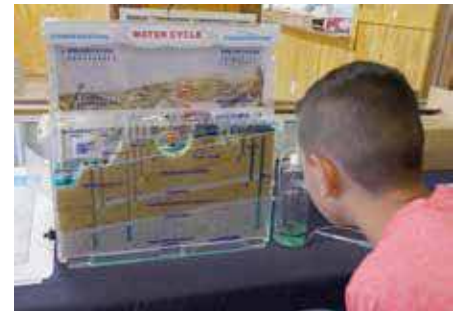
The annual Groundwater Summit has some of the best speakers in the state

**LOCAL GROUPS**

We offer programs for all ages that are available for local libraries or anywhere your group meets

**OUTREACH**

We offer classes at our facilities on Rainwater Harvesting, Landscaping, Irrigation Alternatives for the Rainfall Harvester



## ADULT EDU

The District provides community services and educational presentations to the citizens of the District concerning groundwater and conservation:  
Annual Milam & Burleson Counties Groundwater Summit  
Printed Publications  
Social Media

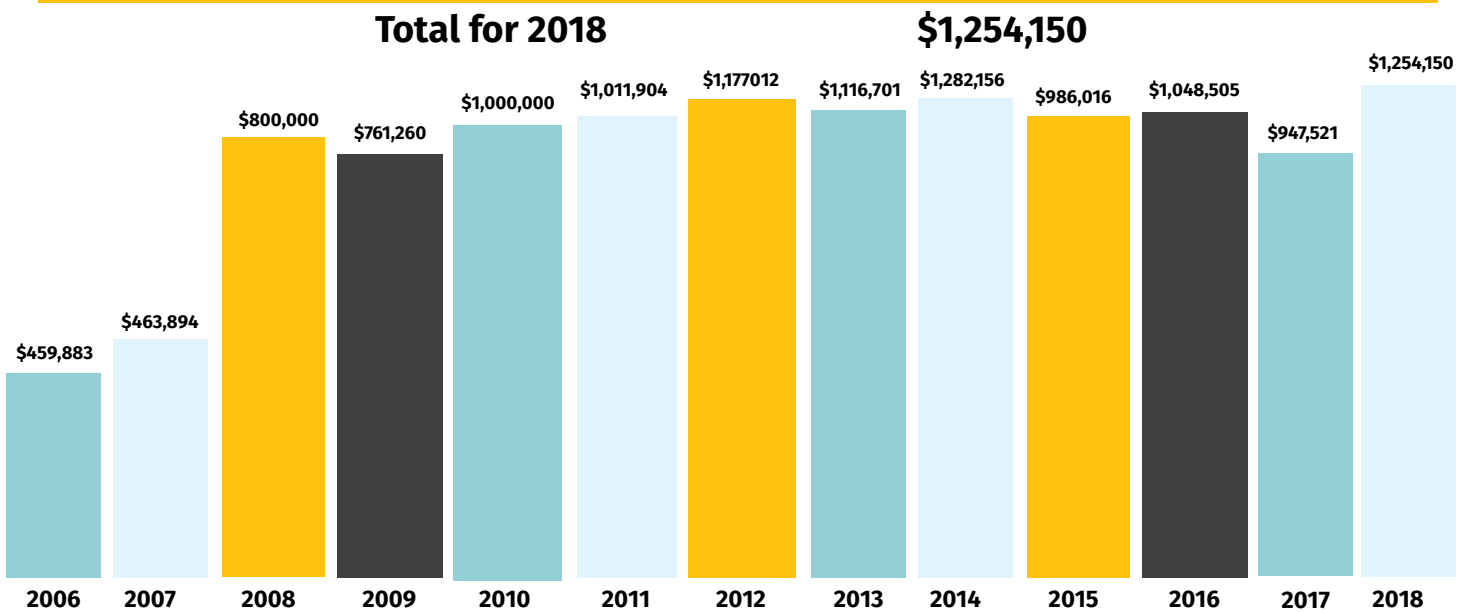


# POSGCD GROUNDWATER CONSERVATION GRANTS

Post Oak Savannah Groundwater Conservation District has had Grant programs in the District since 2006, just 4 years after it was formed. The Board of Directors realized that one of the best ways to encourage people in the District was to help with the expense. One of our first programs was to The objective of this program is to obtain the active participation and cooperation of local water utilities in the funding and successful completion of programs and projects that will result in the conservation of groundwater in the District. The qualifying water conservation projects and programs will include, as appropriate, projects that result in the conservation of groundwater and reduce the loss or waste of groundwater. The first year, 2006, the District helped five different applicants, the city of Rockdale, city of Somerville, Milano WSC, Birch Creek WSC and Lyons WSC to remove and improve obsolete and deteriorating water lines for a total of \$459,883.

Since that first year, the program has continued thru the present day, we have helped over 25 different local water utilities for a total of over \$12,309,003.97. We estimate that we have saved over 173.55 Million gallons of water per year and growing.

## LOCAL WATER UTILITIES GROUNDWATER CONSERVATION GRANTS



**Total for the years 2006 - 2018 \$12,309,003.97**

### GROUNDWATER WELL ASSISTANCE PROGRAM (GWAP)

On January 9, 2018, the Board of Directors adopted the POSGCD Groundwater Well Assistance Program (GWAP). This program was created to assist well owners whose wells are projected to experience water level declines in their wells below the pump during normal operations as a result of groundwater production in GMA 12.

**In 2018 no applications were received to assist landowners.**

### WELL PLUGGING GRANT PROGRAM

There is grant money available from Post Oak Savannah GCD that will pay 100% of the cost to plug a landowners abandoned well, up to \$2,500. An abandoned well is a direct conduit to the aquifer and could be a pollution source. Landowners are responsible for plugging them up, but Post Oak Savannah GCD can help with the cost.

**In 2018 POSGCD assisted landowners to plug 5 wells for a total of \$10,175.**

Table 1 Non-Exempt Permits Issued During 2018 Calendar Year

Permit No.	Applicant	Use	Aquifer	Acre Ft
POS-D&O-0252	Bonnie & Calvin Cobb Investments, Ltd.	Irrigation	Little River Alluvium	180
POS-D&O-0253	RBH Holdings, LLC	Irrigation & Domestic	Carrizo	20
POS-D&O-0254	William Gavranovic	Irrigation	Brazos River Alluvium	200
POS-D&O-0255	Gary Michael Morris	Domestic	Carrizo	5
POS-D&O-0256	Gary Michael Morris	Domestic	Carrizo	5
POS-D&O-0257	Kevin Ferrell	Irrigation	Yegua-Jackson	5
POS-D&O-0258	Randy Anthony Tereau	Irrigation	Hooper	47
POS-D&O-0259	RNR, LLC	Irrigation	Calvert Bluff	39.77
POS-O-0042	Pete A. Scarmardo	Livestock	Sparta	15
POS-O-0043	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0044	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0045	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0046	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0047	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0048	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0049	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0050	Goodman 502 UE LLC	Irrigation	Little River Alluvium	27.5
POS-O-0051	Emanuel James Chmelar	Domestic & Livestock	Carrizo	15
POS-O-0052	Dan Tucker	Irrigation	Queen City	2
POS-O-0053	Frank Weisse	Irrigation	Sparta	20
POS-O-0054	Kermit Maass	Irrigation	Sparta	20
POS-O-0055	Dept. of Wildlife & Fisheries, TAMUS	Aquaculture	Yegua-Jackson	35
POS-LP-008	Joseph D. Wiggins	Farm HQ	Sparta	1
POS-LP-009	Jason M. Velsor	Garge	Sparta	1
POS-LP-0010	Burleson Sand LLC	Commercial	Queen City	13.879
POS-LP-0011	Burleson Sand LLC	Commercial	Queen City	13.879



Table 1. Oil Gas Permits Issued During 2018 Calendar Year

Permit No.	Applicant	Lease & Unit	Acre Feet
O&G-0226	Wildhorse Resources Management	Helweg WW#1	148.00
O&G-0227	Wildhorse Resources Management	Helweg WW#2	148.00
O&G-0228	Verdun Oil Company	Kruse WL#1	95.44
O&G-0229	Verdun Oil Company	Kruse WL#2	167.05
O&G-0230	Wildhorse Resources Management	Loehr WL#1	148.00
O&G-0231	Wildhorse Resources Management	Loehr WL#2	148.00
O&G-0232	Wildhorse Resources Management	Ferguson WL#1	79.43
O&G-0233	Wildhorse Resources Management	Ferguson WL#2	79.43
O&G-0234	Wildhorse Resources Management	D Brinkman WL#1	148.00
O&G-0235	Wildhorse Resources Management	D Brinkman WL#2	148.00
O&G-0236	Wildhorse Resources Management	L Brinkman Blum WL#1	148.00
O&G-0237	Treadstone Energy Partners	Drgac-Martin Unit #1	15.34
O&G-0238	Treadstone Energy Partners	Sophie	30.69
O&G-0239	Wildhorse Resources Management	Matcek	820.00

**Table 3****Exempt Well Registrations Issued During the 2018 Calendar Year**

Well Registration Number	Owner Last Name	Owner First Name	Owner Company
POS-EW-3557	Contreras	Francisco	
POS-EW-3558	Solis	Martha	
POS-EW-3559	Pate	Robin A.	
POS-EW-3560	Baker	Joan	
POS-EW-3561	Chappell	James	
POS-EW-3562	Ferrell	Kevin D.	
POS-EW-3563	Tharp, Sr.	Kenneth	
POS-EW-3564	Asparza	Michael	
POS-EW-3565			Mollie Collina Fattoria LLC
POS-EW-3566	Ferrell	Andrea L.	
POS-EW-3567	Scarmardo	Craig	
POS-EW-3568	Jones	Richard	
POS-EW-3569	Horcica	Jimmy	
POS-EW-3570	Hood	David	
POS-EW-3571	McNeal	Linda	
POS-EW-3572	Caps	Author	
POS-EW-3573	Authement	Cory	
POS-EW-3574	Beard	Newman	
POS-EW-3575	Hirt	Melvin	
POS-EW-3576	Landry	John J.	
POS-EW-3577	Jurica-Hennant	Amy	
POS-EW-3578	Shiflett	Micah	
POS-EW-3579	Flanagan	Shannon	
POS-EW-3580	Clark	John & Stacey	
POS-EW-3581	Spacek	Dana	
POS-EW-3582	Mueller	Ken	K & E Ranch LLC
POS-EW-3583	Treherm	James	
POS-EW-3584	Odstrcil	Jackie	
POS-EW-3585	Lednický	Clem	
POS-EW-3586	Needham	Billy	
POS-EW-3587	Wendland	Jennifer	
POS-EW-3588	Lewis	Steve	
POS-EW-3589	Murray	Seth E.	
POS-EW-3590	White	Kristen D.	
POS-EW-3591	Johnson	Daniel J.	
POS-EW-3592	Brown	Mark & Faye	
POS-EW-3593	Suehs	Duane Alan	
POS-EW-3594	Lispcomb	Brad	
POS-EW-3595	Gardenhire	Alan	
POS-EW-3596	Gardenhire	Alan	
POS-EW-3597	Castillo Morales	Paulina	
POS-EW-3598	Arledge	Tim	
POS-EW-3599	Burns	Steve	
POS-EW-3600	Granzin	Tiffany L.	
POS-EW-3601	Andrews	Robert W.	
POS-EW-3602	Lewis	Bobby	
POS-EW-3603	Witte	James	
POS-EW-3604			Wildhorse Resource Management Co, LLC
POS-EW-3605	Stewart	Gary	
POS-EW-3606	Althaus	Robert	
POS-EW-3607	Godfrey	Ben	
POS-EW-3608	Landry	John J.	
POS-EW-3609	Schluens	Cameron J.	
POS-EW-3610	Weisse, Jr.	Frank W.	
POS-EW-3611	Abercrombie	James T.	
POS-EW-3612	Woods	Lloyd W.	
POS-EW-3613	Elkins	William Chad	
POS-EW-3614	Oddo	David	
POS-EW-3615	Washington	Odell	
POS-EW-3616	Henry	Rick	
POS-EW-3617	Higgins	Robert	
POS-EW-3618	Weller	Donald	
POS-EW-3619	Ward	Raye Elizabeth	
POS-EW-3620	Schlemmer	Tonetta R.	
POS-EW-3621	Wise	Craig	

**Table 3 Continued**  
**Exempt Well Registrations Issued During the 2018 Calendar Year**

POS-EW-3622	Adams	Sherry	
POS-EW-3623	Moss	Andrea	
POS-EW-3624	Garcia	Frank	
POS-EW-3625	Navarro	Aurelio	
POS-EW-3626	Vollentine	Guy	
POS-EW-3627	Deschaaf	Jayne	
POS-EW-3628	Ripple	Roney	
POS-EW-3629	Bilski	Melissa	
POS-EW-3630	Hart	Dennis	
POS-EW-3631	Ponnaiya	Vijay	
POS-EW-3632	McDermott	Charles & Lana	
POS-EW-3633	McDermott	Charles & Lana	
POS-EW-3634	Howard	Janell	
POS-EW-3635	Zientek	Norman	
POS-EW-3636	Zientek	Norman	
POS-EW-3637	Zientek	Norman	
POS-EW-3638	Juneau	Benjamin P.	
POS-EW-3639	Wise	Byron F.	
POS-EW-3640	Svetlik	Victor	
POS-EW-3641	Svetlik	Victor	
POS-EW-3642	Brinkley	Greg	
POS-EW-3643	Baldwin	Chad	
POS-EW-3644	Martinez	Cecilly E.	
POS-EW-3645	Brown	Ray	
POS-EW-3646	Clark	Lillian	
POS-EW-6194	Andrews	Robert	
POS-EW-6197	Kovar	Mike & Dawn	
POS-EW-6198	Conner	Michael	
POS-EW-6199	Conner	Michael	
POS-EW-6200	Ely	Myron	
POS-EW-6201	Ely	Myron	
POS-EW-6202	Chism	John	
POS-EW-6203			Wildhorse Resource Management Co, LLC
POS-EW-6204			Wildhorse Resource Management Co, LLC
POS-EW-6205			Wildhorse Resource Management Co, LLC
POS-EW-6206	Williams	Lon A.	
POS-EW-6209	Hirt	Melvin	
POS-EW-6211	Cook	John	
POS-EW-6212	Courtney	Cheryl	
POS-EW-6213	Rodriguez	Derek	
POS-EW-6214	Janac	Maurice	IRE Management
POS-EW-6215	Griffith	Richard H.	
POS-EW-6216	Dunsmoor	Janice	
POS-EW-6217	Weller	Donald	
POS-EW-6218	Gerlach	Rosland	
POS-EW-6220	Tietjen	Thomas A.	
POS-EW-6222	Pomykal, Jr.	William & Charlotte	
POS-EW-6223	Beseda	Doris	
POS-EW-6224	Broesche	Roger	
POS-EW-6225	Rychlik	Randy	
POS-EW-6226	Dorsett	Paul	
POS-EW-6227	Salvato	Joe	ETC Texas Pipeline, LTD
POS-EW-6228	Broesche	Roger	
POS-EW-6230	Erwin	Charles	
POS-EW-6233	Hurska	Julie Marie	
POS-EW-6234	Skubal	Cody	
POS-EW-6235	Shaw	Joe	
POS-EW-6236	Morris	Gary M.	
POS-EW-6238	Parker-Simmons	Paige	
POS-EW-6240	Perry	Pamela	
POS-EW-6244	Robinson	Zachary	
POS-EW-6247	Eanes	Jim	
POS-EW-6248	Eanes	Jim	
POS-EW-6249	Talley	J.T.	
POS-EW-6253	Gonzales	Charlotte	
POS-EW-6254	Marchesano	Ralph	
POS-EW-6255	Blaskey	Stephen	Double BFD Ranch, LLC

Table 4 District Monitoring Wells Measured in Early Spring 2018 for and Reported to TWDB

SWN	owner_1	posgcd_aquifer	DTW (ft)
5917409	City of Rockdale (Belton)	Simsboro	170.6
5917103	Ralph Summers- Mary Jane Boyd	Hooper	76.75
5909901	Richard Frock	Simsboro	115.2
5911402	Harold Lange	Carrizo	148.3
5910907	Willard Kornegay	Calvert Bluff	131.4
5919302	James Ayers	Queen City	33
5925508	Larry Sexton	Carrizo	57.6
5925102	Noack Family Partnership, Ltd.	Simsboro	111.6
5917715	L.B. Kubiak	Simsboro	144
5917714	City of Rockdale (Texas)	Simsboro	142.7
5917713	City of Rockdale (Tracy)	Simsboro	150.8
5824914	Rockdale ISD	Simsboro	127.3
5909605	Marlow WSC	Hooper	139.7
5902706	North Milam WSC	Hooper	37.1
5902309	Wendy Breck	Simsboro	37.9
5902901	North Milam WSC	Simsboro	122
5832101	Wayne Diver	Simsboro	6.2
5927716	R. B. Wilkens	Queen City	111.6
5927606	Rudy Steck	Queen City	105.1
5920410	Milano WSC- Rita Test	Carrizo	28.3
5920409	L. C. Hall, Sr.	Queen City	44.5
5919502	Milano WSC - Well 4	Simsboro	288.1
5937611	Camilla J. Godfrey	Yegua-Jackson	32.5
5937101	Snook well #1	Sparta	43.9
5943608	Birch Creek Recreation	Yegua-Jackson	53.9
5938701	Burnside Services, Inc.	Brazos Alluvium	11.4
5935208	Juanita Amidon	Sparta	83.6
5929456	Marion Malazzo	Brazos Alluvium	9.9
5929457	Marion Malazzo	Brazos Alluvium	9.8
5928619	Tunis Water Supply	Sparta	75.1
5928601	P. G. Haines	Brazos Alluvium	12.7
5928702	Dennis Engleman	Sparta	103.3
5929537	Texas A & M University	Sparta	33.4
5934607	Deanville Water Supply Corporation 2	Queen City	133.4
5918101	Milano WSC - Well # 1	Simsboro	289.7
5918104	Milano WSC - Well # 2	Simsboro	271.6
5918908	Milano WSC - Well # 3	Simsboro	305.8
5918705	Milano WSC - Buer Test Well	Carrizo	220
5911703	Gause Water Supply #1	Simsboro	171.3
5824611	Southwest Milam Water Supply Corp.	Hooper	145.9
5917711	City of Rockdale (airport)	Simsboro	147.7
5929410	Holland Porter	Brazos Alluvium	11.7
5934107	Nathan C. Ausley	Queen City	96.4
5934601	Deanville Water Supply Corporation 1	Queen City	77.8

Table 4 District Monitoring Wells Measured in Early Spring 2018 for and Reported to TWDB  
 Contued page 2

5911403	Terry & Sheryl Hall	Calvert Bluff	212.9
5832704	Martin Hobbs	Simsboro	89.7
5902904	Gary & Deryl Emola	Simsboro	120.4
5927611	Alvin J. Kutach	Queen City	128.2
5925502	Birdie Kristoff	Calvert Bluff	75.5
5832908	Charles Lee McDaniel	Calvert Bluff	15
5926402	Frederick A. Jackson	Simsboro	278.5
5926403	Charles & Jacquelin Stone Revocable Living Trust	Simsboro	287.4
5824612	Richard H. Griffith	Hooper	58
5910910	Todd Russell	Calvert Bluff	195.4
5910705	Jay Wise	Simsboro	151.93
5925103	Noack Family Partnership, Ltd.	Simsboro	96.5
5929408	Heirs of Mary Anne oliver	Queen City	+17.8
5910908	Walter D. Fischer	Calvert Bluff	261.4
5831904	Norbert B. Zeschke	Hooper	107.9
5928804	Providence Baptist Church	Sparta	29.9
5902311	Dominic Izzo	Simsboro	84.5
5943104	Wayne Edwards	Simsboro	109.9
5925408	Antonio E. Cantu	Calvert Bluff	79.2
5910706	Randal C. Leo	Simsboro	183.8
5934108	Terry Ausley	Simsboro	200.8
5901904	Donald R. Schuerman	Hooper	39.9
5918602	John Pruett	Calvert Bluff	171.6
5928343	Royalty Pecan Farms	Simsboro	95
5910707	Randal C. Leo	Simsboro	154.8
5928342	David L. Hodges	Sparta	66
5936809	Burleson County Pct. 4	Yegua-Jackson	76.1
5918108	Post Oak Savannah	Simsboro	259.25
5918109	Post Oak Savannah	Carrizo	59.5
5925904	Linda Garrison	Simsboro	165.2
5901905	Naomi White	Hooper	30.4
5925905	David L. Hancock	Queen City	18
5925906	David Hancock	Queen City	48.9
5934609	Burleson County Pct. 1	Sparta	49
5925511	Walter Wentzel	Simsboro	187.1
5824915	Rodgers(Staub)	Simsboro	131.9
5824916	Bocenegra (Simmons)	Simsboro	125.4
5831905	Ansley	Hooper	106.1
5831906	Hirt	Simsboro	127.8
5832304	Young	Simsboro	112.1
5832404	R. Crump	Simsboro	93.1
5832705	K. Biehle	Simsboro	102.7
5832706	Smith	Simsboro	91.2
5839303	Jordan	Simsboro	102.2
5917510	Randy Clanton (L. Warren)	Calvert Bluff	143.1
5917411	Caywood	Simsboro	59.8

Table 4 District Monitoring Wells Measured in Early Spring 2018 for and Reported to TWDB  
Continued Page 3

5917505	Ed Garner	Simsboro	99.4
5917705	Keys	Simsboro	167.3
5917804	Wiggins	Simsboro	62.9
5925410	Mickey & Robin Exner	Simsboro	133.9
5925512	E. Crump	Simsboro	108.4
5839510	Hobbs (Dooley)	Simsboro	69.7
<i>New Monitor Wells Added During the 2018 Calendar Year</i>			
<b>SWN</b>	<b>owner_1</b>	<b>posgcd_aquifer</b>	<b>DTW (ft)</b>
	David & Glenda Cork	Simsboro	110
5840704	Turner	Simsboro	59.7
	Mary Cain	Simsboro	58.7
	Sorenson	Simsboro	54.4
	CPS-86-37MS	Simsboro	261.8
	CPS-86-5MS	Simsboro	187.5
	POSGCD/CWM-3	Simsboro	84.7
	POSGCD/CWM-4	Simsboro	65.2
	POSGCD/CWM-5	Yegua-Jackson	64.6
	POSGCD/CWM-6	Simsboro	53.9
	Lee Alford	Queen City	77.4
	Charles Stone	Calvert Bluff	231.9
	Andrea Moss	Queen City	149.7
	New Tabor Brethen Church	Carrizo	207.8
	Darren Broesche	Queen City	65.4
	Bill O'Brien	Yegua-Jackson	82.6
	Bill O'Brien	Yegua-Jackson	103.9
	Mark & Janice Ofczarzak	Queen City	44.2
	Bruce Brinkman	Sparta	64.3
	Tommy Tietjen	Sparta	77.4
	Richard Ramsey	Yegua-Jackson	35.8
	Richard Ramsey	Sparta	57.1
	Doc Hester	Yegua-Jackson	65.02
	Doug & Michelle Van Meter	Hooper	62
	Doug & Michelle Van Meter	Hooper	26.3
	Doug & Michelle Van Meter	Hooper	31.4
	Doug & Michelle Van Meter	Hooper	32.7
	Jack Marino	Calvert Bluff	257.5
	Earl Campbell	Calvert Bluff	180.7
	Ronald Coleman	Calvert Bluff	179
	Ronald Coleman	Calvert Bluff	191.8
	Amy Hinnant Jurica	Not Assigned	48.9
	Linda McBride	Not Assigned	55.1
	Linda McBride	Not Assigned	93.1
	Tony Luksa	Queen City	67.7
	Sharon Lefler	Calvert Bluff	193.6
	Sharon Lefler	Calvert Bluff	207.7
5909701	Minerva WSC #1	Hooper	91
	Ralph Dizzine	Calvert Bluff	214.31

Table 4 District Monitoring Wells Measured in Early Spring 2018 for and Reported to TWDB  
Continued Page 4

Mike Conner/House	Calvert Bluff	197.93
Mike Conner/Rig supply	Calvert Bluff	146.8
Myron Ely /Rig supply	Carrizo	54.33
Lonnie Williams	Carrizo	160.5
Royalty Pecan Farms - QC	Queen City	14.42
Larry Hein	Queen City	155.9
Brian Rok	Queen City	142
Antoine Schrader	Yegua-Jackson	12.6
Richard Griffin#2 well	Hooper	90.6
JW Zalmanek	Carrizo	129.5
Clint & Lindy Sanders	Hooper	56.8
Duane Sueha	Sparta	73
Rick Henry	Simsboro	89.4
Harlin Chapel Baptist Church	Hooper	84.8
Odell Washington	Hooper	46.5
Alex Sundstrom	Hooper	20.3
Greg Brinkley	Hooper	109.7
Victor Svetlik/House	Hooper	155.1
Victor Svetlik	Hooper	135
Alan Gardenhire/old well	Hooper	111.5
Melvin Hirt	Hooper	110.9
Durwood Tucker	Hooper	65
Leroy Stephens	Hooper	77
Thomas Goodnight	Queen City	109.9
Tim Arledge/12 inch well	Carrizo	60.5
Tim Arledge/rig supply	Carrizo	44.95
Ann Louise #1	Sparta	97.35
Anthony #1	Sparta	136
Brad Lipscomb	Simsboro	155.4
Ray Brown	Hooper	85.25
Gretchen Deflorio	Calvert Bluff	202.31
Wayne Edwards/Rig supply	Yegua-Jackson	64.39
John & Sherry Adams	Sparta	127.2
Thomas Calvin/Adams	Yegua-Jackson	115.52
Thomas Calvin	Sparta	109.63
Robert Higgins	Calvert Bluff	178.3
RS-1	Queen City	48.6
RS-6	Queen City	3.4
RS-7	Queen City	47.7
RS-8	Queen City	29.46

**Table 5. District Education During the 2018 Calendar Year**

Date	Location	
2/28/18	Cameron Lions Club	Cameron, TX
3/2/18	Landscape & Irrigation Workshop	Milano, TX
3/26/18	Water Wizards Gause School	Gause, TX
3/29/18	Water Wizards Somerville School	Somerville, TX
4/12/18	Rainwater Harvesting 101 Workshop	Milano, TX
4/17/18	Lecture on GCDs at TAMU Env. Assessment Class	College Station, TX
4/18/18	Water Wizards Cameron School	Cameron, TX
4/19/18	Water Wizards Milano School	Milano, TX
4/24/18	Public Outreach Committee Meeting	Milano, TX
5/15/18	Watershed Stewardship Farm Bureau	Cameron, TX
5/21/18	TAGD Leadership Training	Austin, TX
5/25/18	Press Conference Aquifer Conservancy Program	Milano, TX
6/21/18	Town Hall Meeting – Aquifer Conservancy Program	Caldwell, TX
6/28/18	Town Hall Meeting – Aquifer Conservancy Program	Caldwell, TX
7/9/18	Cameron Lions Club - Aquifer Conservancy Program	Cameron, TX
7/10/18	Town Hall Meeting – Aquifer Conservancy Program	Milano, TX
7/18/18	Rotary Club - Aquifer Conservancy Program	Cameron, TX
7/24/18	Groundwater Educational Outreach Collaborative	Waco, TX
7/24/18	Drillers Continuing Education Class	Milano, TX
7/27/18	Rainwater Harvesting 101 Workshop	Milano, TX
8/15/18	Water Sampling Program	Caldwell, TX
8/15/18	Milam & Burleson Counties Groundwater Summit	Caldwell, TX
8/28/18	TAGD Summit	San Antonio, TX
9/11/18	TX Well Owners Network “Well Educated” program	Caldwell TX
9/11/18	Lynnwood Master Gardeners	Milano, TX
9/12/18	TX Well Owners Network “Well Educated” program	Milano, TX
9/17/18	Cameron Farm Bureau	Cameron, TX
10/9/18	Rainwater Harvesting 101 Workshop	Milano, TX
10/10/18	Pizza Ranch Brazos Valley	College Station, TX
10/23/18	Community Outreach	Milano, TX
10/24/18	TAGD Leadership Training	San Antonio, TX
10/25/18	Water Utility Workshop	Milano, TX
10/10/18	Burleson County Farm Bureau Meeting	Caldwell, TX



**Table 5. District Education During the 2018 Calendar Year**

10/18/18	Burleson County Ag Safety Day	Caldwell, TX
10/23/18	Brazos Valley GCD Water Field Day	Franklin, TX
10/24/18	TAGD Leadership Training	Milano, TX
10/31/18	Safety Day Burleson County AgriLife	Caldwell, TX
11/25/18	Project Wet Education Training	Austin, TX
11/25/18	Water Utility Workshop	Milano, TX
11/15/18	Bell County Water Symposium	Austin, TX
11/16/18	Selecting the Best Trees, shrubs and vines	Milano, TX
12/12/18	Lonestar GCD - Montgomery School	Montgomery, TX

**Table 6 Summary Report of Post Oak Savannah GCD Grants Awarded 2018**

<u>Applicant</u>	<u>Awarded</u>	<u>Use</u>	<u>Groundwater saved</u>
<u>2018</u>			
Somerville	\$381,105	Replace Obsolete Water Lines	200,000 gallons/ yr
Birch Creek Rec.	\$98,045	Install Isolation Valves	100,000 gallons/ yr
Thorndale	\$385,000	Rehab Elevated Storage Tank	300,000 gallons/ yr
SW Milam WSC	\$390,000	Replace Obsolete Water Lines	695,000 gallons/ yr
<b>Totals</b>	<b>\$1,254,150</b>		<b>1.295 Million Gallons/ yr</b>

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**POSGCD**