

POSGCD 2017 Educational Review

MEGAN HOMEYER, EDUCATION COORDINATOR

Past Presentations/Outreach

- Healthy Streams; May 26, 2017
- Rockdale Rotary Club; June 6, 2017
- NRCS – Annual Conservation Planning Meeting; July 3, 2017
- Well Water Screening Campaign; July 14, 2017
- Milam & Burleson Counties Groundwater Summit; August 16, 2017
- Caldwell Methodist Church Ladies Group Presentation; September 3, 2017
- Texas A&M University AGCJ 281 Panel; October 4, 2017
- Groundwater Educational Outreach Collaboration; November 20, 2017

Past Presentations/Outreach

- TAGD Groundwater Summit; August 29, 2017 – August 31, 2017
- Caldwell Methodist Church Ladies Group Presentation; September 3, 2017
- Local Water Utilities Workshop; September 26, 2017
- Texas A&M University AGCJ 281 Panel; October 4, 2017
- Rainwater Harvesting 101 Workshop; October 10, 2017
- Burleson County Farm Bureau Meeting; October 10, 2017
- Burleson County Ag Safety Day; October 18, 2017
- Brazos Valley GCD Water Field Day; October 24, 2017

Past Presentations/Outreach

- Earth-Kind Water Conservation Workshop; November 6, 2017
- Bell County Water Symposium; November 15, 2017
- TAGD Leadership Training; November 16 & 17, 2017
- Groundwater Educational Outreach Collaboration; November 20, 2017
- Rainwater Harvesting 101 Workshop; December 2, 2017
- POSGCD Christmas Open House; December 5, 2017

Upcoming Presentations/Outreach

- January — Collaboration Meeting with District AgriLife, Farm Bureau and USDA/NRCS
- March 3rd — Landscape & Irrigation: Planning and Installation Workshop
- Spring — School Presentations
- April — Spring Rainwater Harvesting 101 Workshop
- July — Well Water Screening Campaign

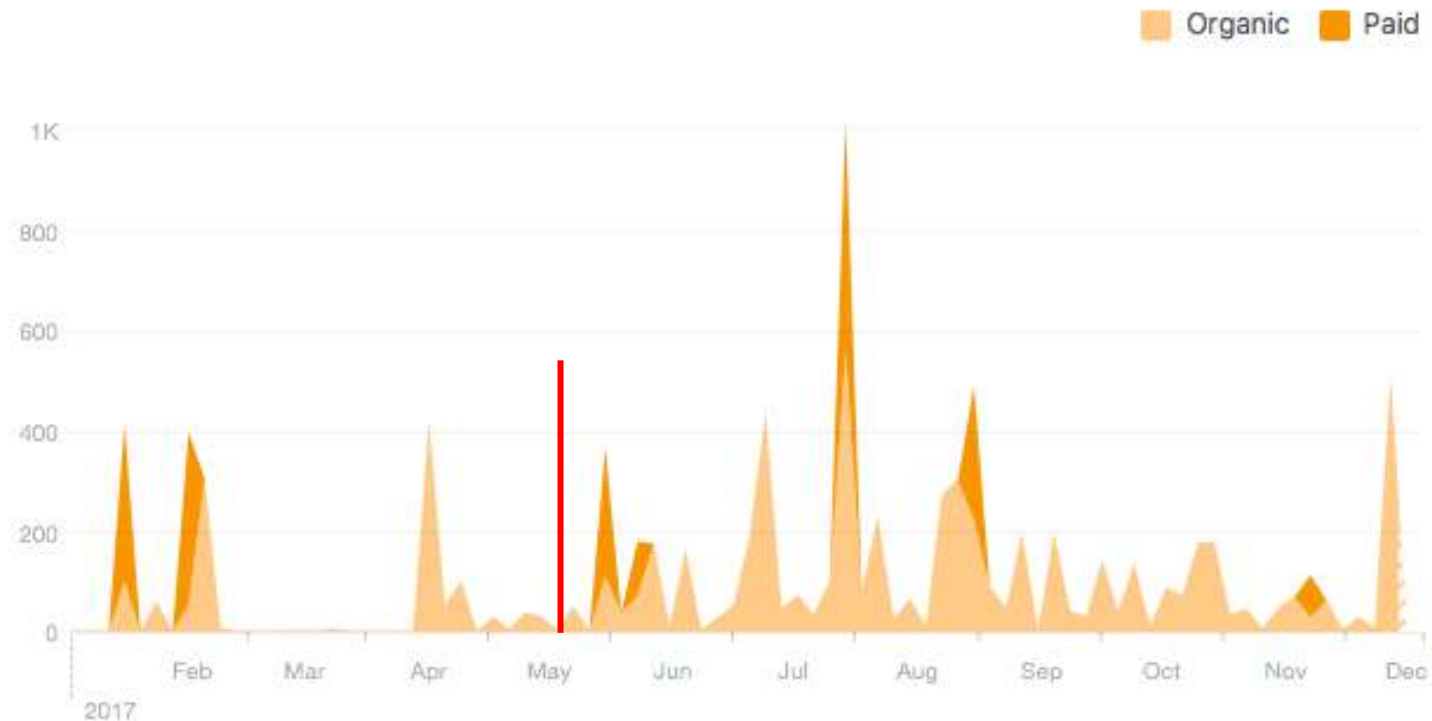
Social Media – Facebook



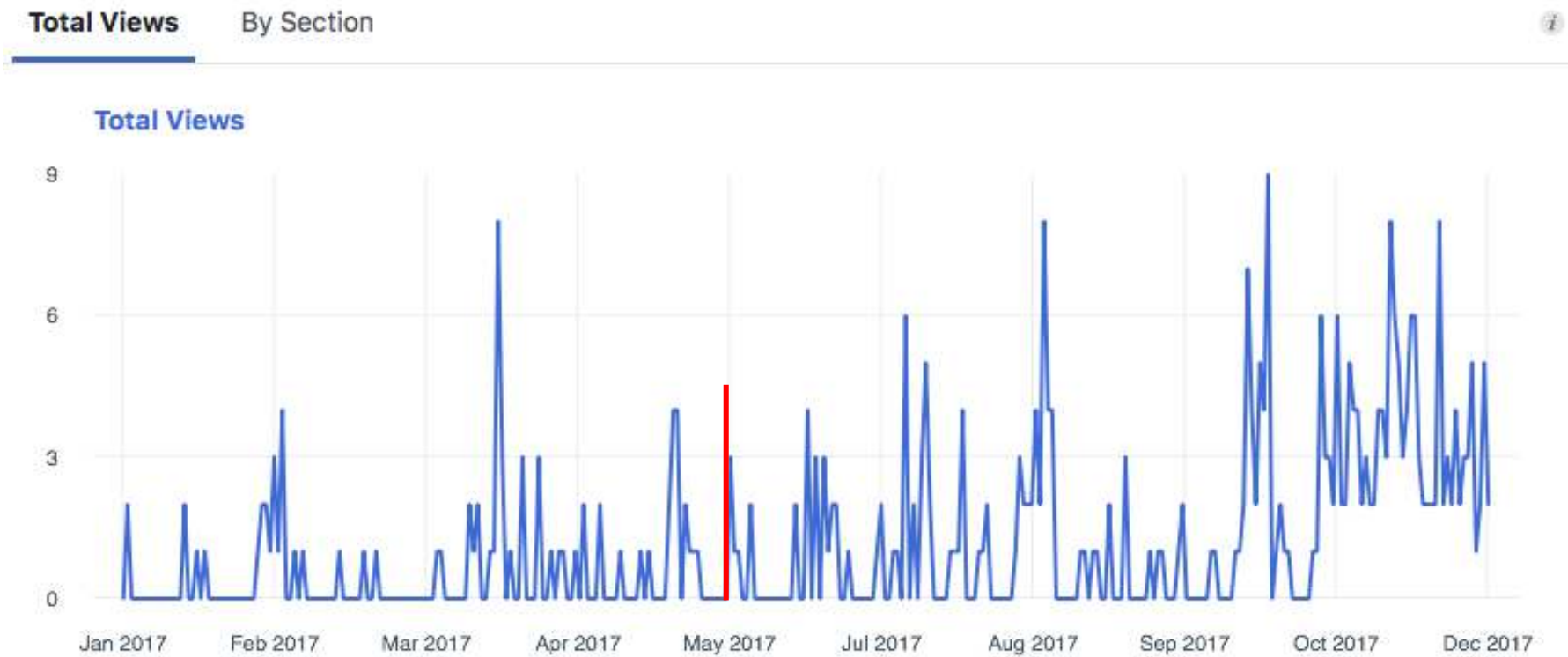
Social Media – Facebook

Post Reach

The number of people your posts were served to.



Social Media – Facebook



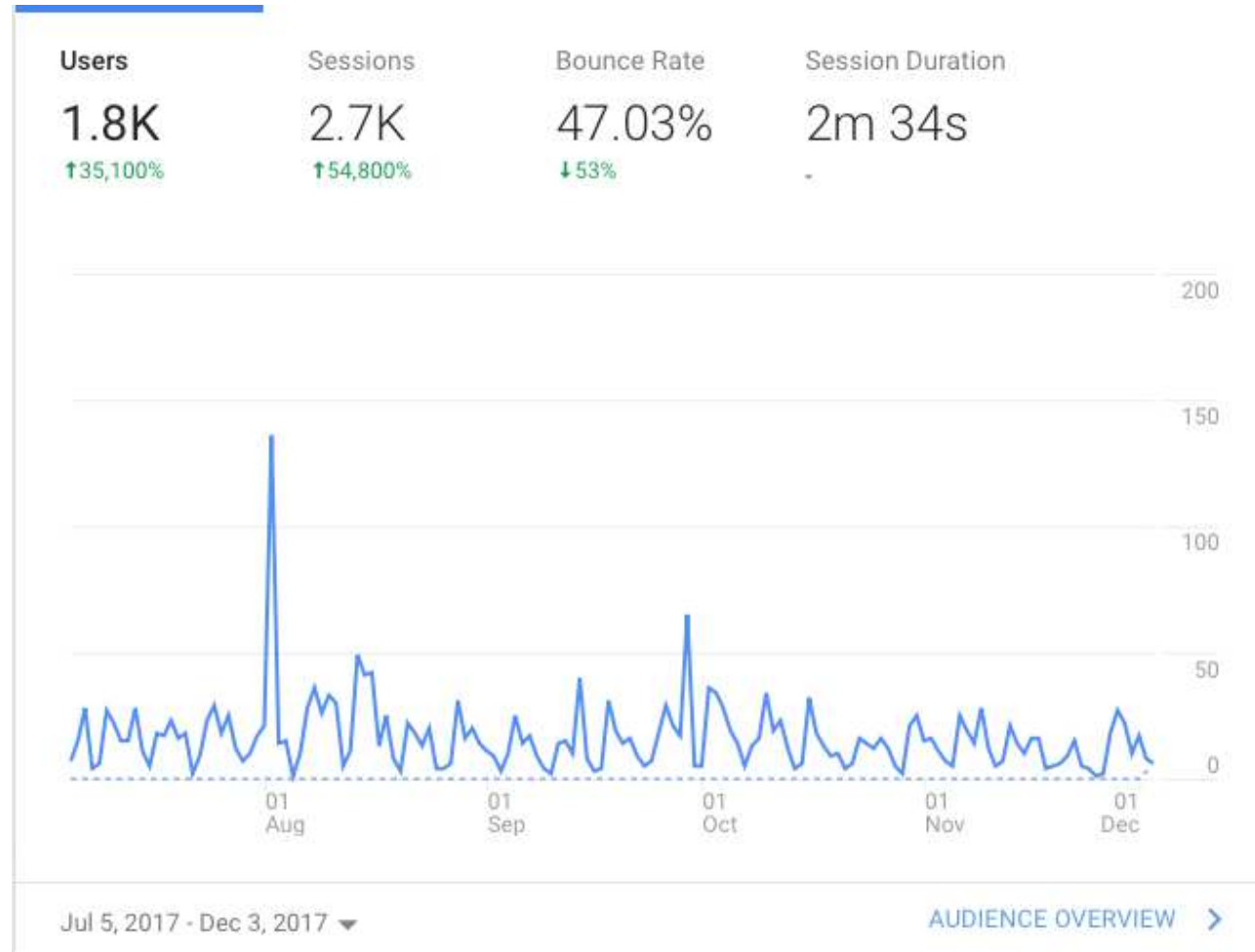
Social Media – Facebook

Month	Impressions	Total Reach	Post Reach
August	239864	88830	86556
September	184982	58138	55290
October	115416	31346	28072
November	103534	27463	28075

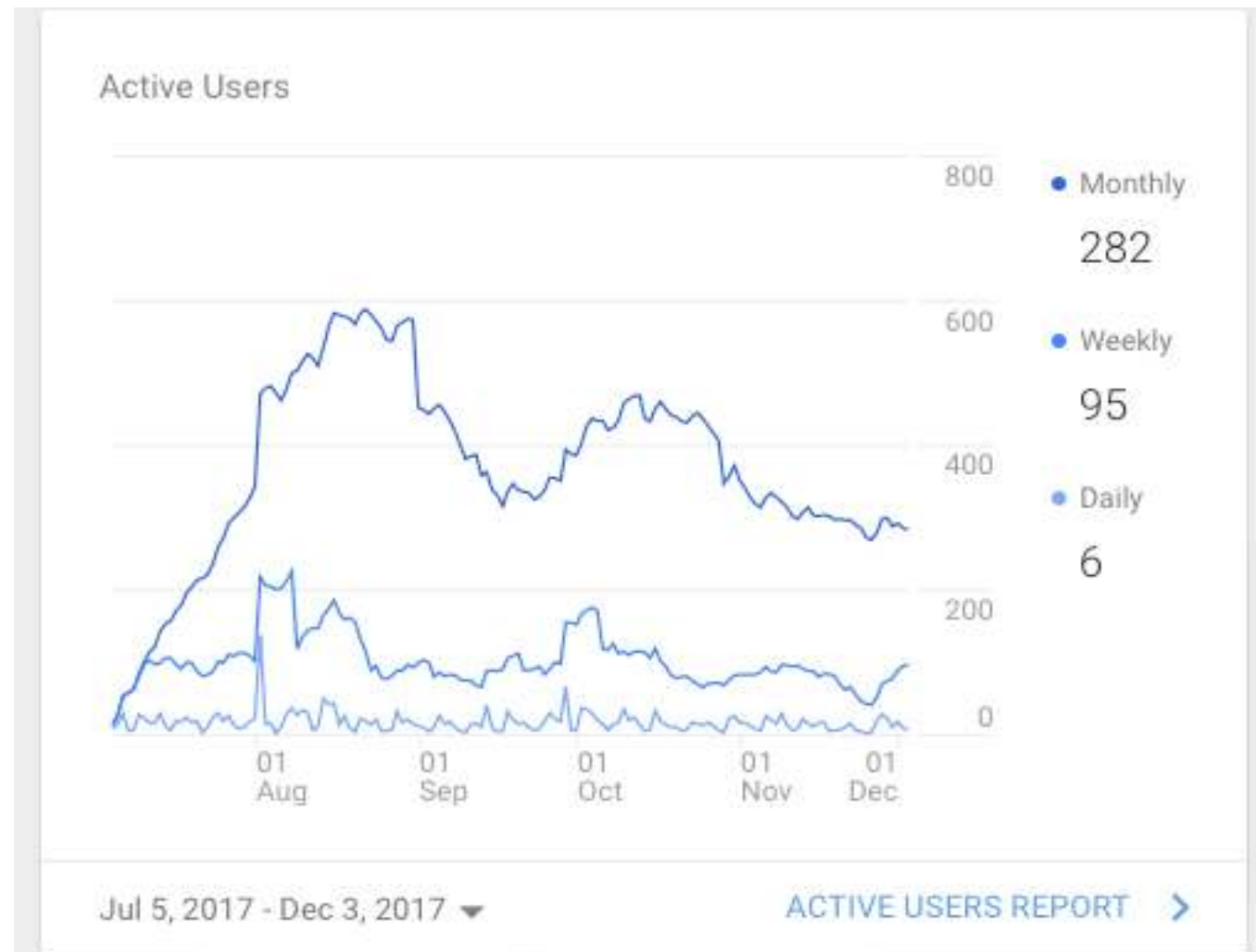
Social Media - Twitter

Month	Tweets	Impressions	New Followers	Profile Visits	Mentions
January	-	113	3	34	-
February	-	41	3	15	-
March	-	18	4	30	-
April	10	530	2	108	-
May	11	1195	179	191	-
June	15	1493	7	147	-
July	18	2669	10	202	4
August	39	6774	11	259	1
September	20	4263	4	150	1
October	18	5119	6	241	3
November	22	3467	8	195	1

Website



Website



Website – Top Pages (July – Nov.)

Total Pageviews: 6,546

Page	Pageview Breakdown
Groundwater Summit	247 (3.77%)
Applications	225 (3.44%)
Prospective Well Drillers	204 (3.12%)
Archived Minutes	187 (2.86%)
Current Minutes	173 (2.64%)
Contact	167 (2.55%)
Rainwater Harvesting	159 (2.43%)
Current Well Users	147 (2.25%)
Staff	138 (2.11%)
Governing Documents	117 (1.79%)



ADMINISTRATION

DISTRICT INFORMATION

RESOURCES

OUTREACH

GMAS

WELL USERS

CONTACT



MEETING MINUTES AND AGENDAS

Applications



ABOUT US

MEETINGS

PROGRAMS & EDUCATION

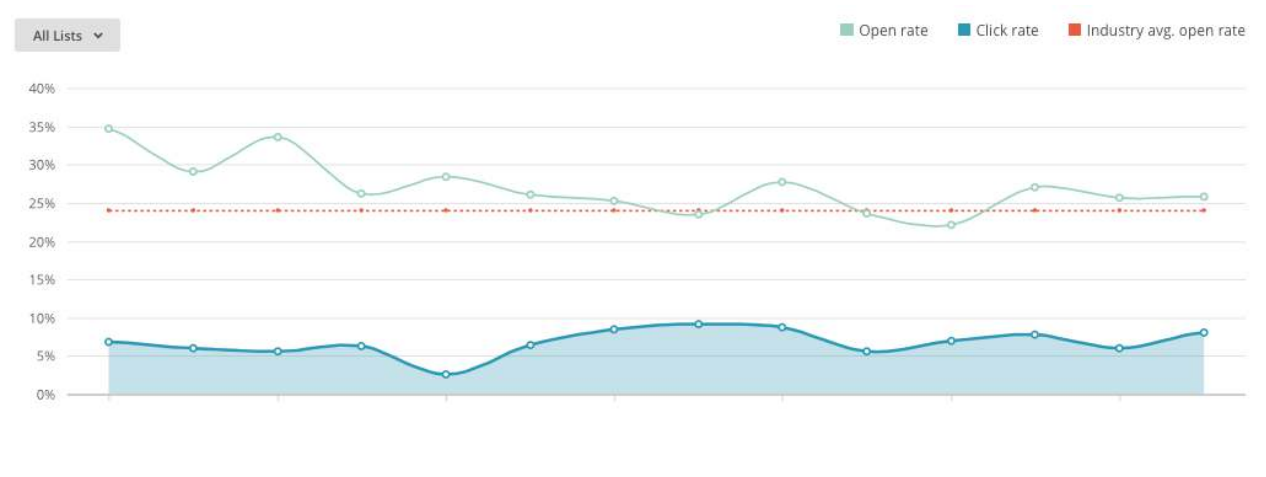
NEWS & PUBLICATIONS

DRILLING & WELLS

CONTACT



Newsletters



Folders ▾ Filter ▾ Download All Reports

POSGCD Water News - November 27, 2017 Regular • POSGCD Newsletter Sent on Mon, Nov 27, 2017 3:12 pm	346 Subscribers	25.8% Opens	8.1% Clicks	View Report ▾
POSGCD Water News - November 13, 2017 Regular • POSGCD Newsletter Sent on Mon, Nov 13, 2017 2:32 pm	347 Subscribers	25.7% Opens	6.1% Clicks	View Report ▾
Happy Halloween - POSGCD Water News Regular • POSGCD Newsletter Sent on Mon, Oct 30, 2017 2:33 pm	349 Subscribers	27.1% Opens	7.8% Clicks	View Report ▾
POSGCD Bi-Weekly Updates for October 16, 2017 Regular • POSGCD Newsletter Sent on Mon, Oct 16, 2017 12:29 pm	345 Subscribers	22.2% Opens	7.0% Clicks	View Report ▾
POSGCD Bi-Weekly Updates for October 2, 2017 Regular • POSGCD Newsletter	347 Subscribers	23.7% Opens	5.6% Clicks	View Report ▾

Recharge:

Your Groundwater Resource

A quarterly newsletter dedicated to keeping you informed about current groundwater issues, conservation practices and Post Oak Savannah GCD events.



IN THIS ISSUE

Upcoming Groundwater Summit.....	p 1
Well Water Screening Campaign.....	p 2
District Rule Changes.....	p 3
New Awarded Grants.....	p 2
Well Monitoring System.....	p 2
District Future Conditions.....	p 3
New Staff Highlight.....	p 3

NEW GRANT AWARDS

POSGCD has approved six grant awards so far in 2017. These awards are listed below and equal to a total of \$947,521 for projects in the District to enhance groundwater conservation.

Recipient	Awarded
Milano WSC	\$95,000
Southwest Milam WSC	\$176,030
Burleson Co. MUD #1	\$317,421
City of Somerville	\$216,000
Lyons WSC	\$108,300
Marlow WSC	\$34,770

CONTACT



Post Oak Savannah GCD
310 East Ave. C, P.O. Box 92, Milano, Texas 76556

Phone: 512.455.9900 Fax: 512.455.9909
Email: admin@posgcd.org Web: www.posgcd.org

2017 Milam & Burleson Counties Groundwater Summit

The fourth annual Milam & Burleson Counties Groundwater Summit will be held August 16, 2017 at the Caldwell Civic Center. We are excited to announce an amazing speaker lineup this year with some great topics.

Speakers

Sarah Schlessinger, *Executive Director*, Texas Alliance of Groundwater Districts
Honorable Mike Sutherland, *Burleson County Judge*
Honorable David Barkemeyer, *Milam County Judge*
Robert Mace, *Deputy Executive Administrator*, Texas Water Development Board
Larry French, *P.G. Division Director*, Texas Water Development Board
Kevin Spencer, *Principal*, R W Harden & Associates
John Seifert, *Principal*, LBG-Guyton Associates
Steven Wise, *Vice President of Board of Directors*, Post Oak Savannah GCD
Bobby Bazan, *Water Resources Management Specialist*, Post Oak Savannah GCD
Gary Westbrook, *General Manager*, Post Oak Savannah GCD
Alan Day, *General Manager*, Brazos Valley GCD
Jim Totten, *General Manager*, Lost Pines GCD
David Bailey, *General Manager*, Mid-East Texas GCD
David Van Dresar, *General Manager*, Fayette County GCD

List of Topics

- Impacts of Production in the Carrizo-Wilcox Aquifer
- Groundwater Availability Models
- Desired Future Conditions
- GMA 12 General Managers & POSGCD Management
- POSGCD Groundwater Well Assistance Program
- POSGCD Monitoring Update

Admission to the Milam & Burleson Counties Groundwater Summit is free and lunch will be provided. The summit will begin at 9 a.m.

Looking for Monitoring Wells

POSGCD is currently looking for more wells within the District to add to their well-monitoring network. The District's Management Plan and Rules are created and implemented based on the health of the aquifers, which is measured by water levels.

Bobby Bazan, Water Resources Management Specialist at Post Oak Savannah GCD, said when he is monitoring water levels, he is measuring where the current level is at in relation to past and future predicted levels.

Having more monitoring wells is essential to better understand the

aquifer and gain insights on how pumping is impacting the water levels in specific areas.

"The main purpose of monitoring additional wells is to improve the quality of data we are currently using," Bazan said. "Collecting data from more wells gives a better representation of the overall health of the aquifer and that only becomes clearer when you have more data points."

There are two reasons landowners should consider adding their well to the monitoring network — a more accurate reading of water levels at their

location and a better understanding of how pumping in and around the district impacts their wells.

Data collected from the wells will be used in-house, as well as added to the state Groundwater Availability Model, to help the District improve their management plans and rules.

If you have a well that you are considering adding to the monitoring network or have any questions, please contact Bobby Bazan at bbazan@posgcd.org or (512) 455-9900.

Get your well water tested!

From June 19 – 22, you can drop off a sample of your water well at the AgriLife Extension offices in either Burleson or Milam Counties. To participate, pick up your sample packet at:

Burleson County AgriLife Extension
100 West Buck Street, Ste. 105
Caldwell, Texas 77836

– OR –

Milam County AgriLife Extension
100 East 1st Street
Cameron, Texas 76520

Samples must be dropped off at the Burleson or Milam County Extension Offices between June 19 – 22 between 8 a.m. and 1:30 p.m. Please make sure that you collect the sample the same day that you drop it off.

Two different results meetings will be held on July 14:

Milam County - 9 a.m.
POSGCD Office
310 East Avenue C
Milano, Texas 76556

Burleson County - 12 p.m.
Burleson County Fair Expo Center
905 SH 36 South
Caldwell, Texas 77836

POSGCD Mission Statement:

Our 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 drawdown levels and monitoring groundwater levels and production, making appropriate adjustments to allowable and permitted production, and encouraging conservation.

Post Oak Savannah GCD is sponsoring this campaign in partnership with the Texas A&M AgriLife Extension offices in Burleson and Milam Counties, as well as Texas Water Resource Institute and Texas Well Owner's Network.

New District Rule Changes:

After public hearing at their May 3 Board Meeting, the Board amended the rules which allows the District to become more proactive in the protection and conservation of the aquifers within the district. Listed below are the summaries of the accepted rule changes.

A new term, "Property Line," was added in Rule 1.1 and other terms were alphabetically sorted. Within Rule 4.1, the Yegua-Jackson aquifer spacing requirements were combined with the other minor aquifers. Those spacing requirements shall be determined based on production capacity of the wells. In addition, well locations established by permits may be modified if necessary. Rule 12.1 was modified for clarity.

Section 16 included the most significant rule changes. Rule 16.3 was amended that actions in Rules 16.4 and 16.6 will be taken regardless of any changes to the DFCs for a specific aquifer or Management Zone that may follow a threshold being reached. Within Rule 16.4, the Threshold Levels were changed as following:

- Threshold Level 1 production was changed from 70% to 60%
- Threshold Level 1 drawdown level for Management Zones and Shallow Management Zones was changed from 60% to 50%
- Threshold Level 2 production was changed from 80% to 70%
- Threshold Level 2 drawdown level for Management Zones and Shallow Management Zones was changed from 80% to 60%.
- Threshold Level 3 was changed from 95% to 75%.

Once Threshold Levels are reached, the District will perform studies with a professional hydrogeologist to understand the causes and effects of pumping within and outside of the District, and where indicated in the Rules, take appropriate actions.

Definition: Desired Future Conditions

A Desired Future Condition (DFC) is a quantifiable condition of an aquifer at a specified future time. These conditions may be based on aquifer levels, spring flows, or volumes of water in the aquifer. It is up to the GCDs to balance groundwater production with conservation and protection of the aquifer while managing that production on a long-term basis to achieve and maintain the DFC.

Plugging Abandoned Wells

Do you have an abandoned well that needs to be plugged? There is grant money available from Post Oak Savannah GCD that will pay 100% of the cost to plug your abandoned well, up to \$2,500.

Drew Gholson, Ph.D., is an Extension Program Specialist for the Texas A&M Department of Soil & Crop Sciences. Gholson says that an abandoned

well is a direct conduit to the aquifer.

"Abandoned wells could be a pollution source," Gholson said. "The landowner is responsible for plugging them up."

Call the POSGCD office at (512) 455-9900 for more information.



New Staff Highlight



Megan Homeyer began working at POSGCD on May 17, 2017 as the Education Coordinator. Homeyer grew up in Caldwell, Texas and graduated with her M.S. in Agricultural Leadership, Education and Communications from Texas A&M University in December 2016. As the Education Coordinator, she will give educational presentations for school classrooms, organizations and clubs about the District's aquifers and conservation practices. Other duties include writing articles, informing the public of POSGCD events and meetings and engaging with the public through talks and social media.

Recharge

Your Groundwater Resource



Fall 2017
Volume 9 Issue 2



Sign up for
the October
10th Rainwater
Harvesting
Workshop

Rainwater Harvesting Grant Program

We are excited to announce our new Rainwater Harvesting Grant Program! Available to all residents of Burleson and Milam Counties, this program is designed to encourage groundwater conservation through the capture and use of rainwater.

For every square foot of a collection surface, you can get about 0.6 gallons of water for every 1 inch of rainfall. In other words, every 2,000 square feet of collection surface generates 1,200 gallons of water.

Harvesting rainwater reduces dependency on groundwater in landscapes, improves soil and plants with higher water quality, and reduces on-site flooding and pollution from storm water.

The District will award \$1.00 per gallon of rainwater storage of the completed system (500 gallon tank = \$500 rebate) and up to a maximum of \$3,000 can be awarded per household per lifetime.

To qualify for the rebate, applicants must first complete an approved rainwater harvesting course.

Rainwater harvesting site plans must also be submitted and approved before expenses can be considered for the rebate.

After the course is completed and the site plan is approved and equipment is installed, qualified staff will perform a completion inspection and file the report along with qualifying receipts for reimbursement.

The first workshop is scheduled for October 10, 2017 at the POSGCD office from 6 - 8 p.m.

For more information, upcoming workshops and online sign-up, go to <http://posgcd.org/outreach/rainwater/>



Roughly 140 people attended the 4th annual Groundwater Summit

Milam & Burleson Counties Groundwater Summit Overview

Groundwater experts from across the state came to the Caldwell Civic Center on August 16, 2017 to speak at the fourth annual Milam & Burleson Counties Groundwater Summit. The seven hour summit was packed with amazing groundwater information. Speakers discussed groundwater policies, groundwater management strategies and how aquifers worked. Post Oak Savannah GCD also gave District updates and talked about upcoming events.

Sarah Schlusser, the Executive Director of Texas Alliance of Groundwater Districts, was the Master of Ceremonies.

Groundwater Availability Models

Robert Mace, a Deputy Executive Administrator of the Texas Water Development Board, was the first speaker. He gave an overview of the characteristics of aquifers and groundwater before diving into Groundwater Availability Models (GAMs). Mace told attendees that aquifers aren't large ponds of water beneath the surface. Aquifers are dirt and rocks that water moves through.

Mace walked through figures and meanings of aquifers and groundwater.

Recharge | Fall 2017 | 4

He then talked about groundwater flow and the differences between confined and unconfined aquifers.

After his 'Aquifer 101' set up, Mace talked about GAMs. He said models are essentially taking what is known about aquifers and putting that knowledge into a computer to simulate them. The models are then used by GCDs to help create Desired Future Conditions and District Management Plans.

Desired Future Conditions

Larry French, P.G., Director of the Groundwater Division of the Texas Water Development Board, talked about Desired Future Conditions (DFCs) after Mace's presentation. A DFC is a measurable condition of an aquifer at a

specified future time.

French started his presentation by going over two approaches to managing groundwater in the United States. In Texas, landowners own groundwater as a private property right. In other states, such as New Mexico and Colorado, groundwater is owned by the state.

DFCs are part of the joint planning process in Texas to help manage, regulate and protect aquifers and groundwater at the local level. French said groundwater could care less about county, state or any other political lines. That is why it is essential to implement management practices across areas that share resources.

The process to adopt DFCs include three groups: district representatives in groundwater management areas, individual districts and the Texas Water Development Board.

At the District level, residents have the opportunity to look at and comment on the proposed DFCs, after which the DFC moves to adoption. DFCs are not set in stone and can be modified and adjusted as improvements in data happen; and Districts are responsible for managing aquifers and allowing DFCs to be reached.

The next presentation was a panel that discussed the Carrizo-Wilcox Aquifer.



Master of Ceremonies, Sarah Schlusser, opens the Summit



Chad Norris, Kevin Spencer and Toya Jones discuss production in the Carrizo-Wilcox Aquifer while Robert Mace moderates

Impacts of Production in the Carrizo-Wilcox Aquifer

Kevin J. Spencer, P.G., President of R.W. Harden and Associates, Inc. has more than 25 years of experience developing fresh and brackish groundwater resources and was the first panelist to present.

Spencer began the panel by talking about how pressure in aquifers work and how that affects water level measurements. He said that the outcrop area and water table are better measuring tools to measure how pumping affects an aquifer.

Spencer went on to say that there is

more groundwater in the Carrizo and Simsboro Aquifers than all of the lakes in Texas. He said that if the DFC were to be reached by 2060, that only 1.13% of the total water in the aquifers will be produced.

In summary, Spencer said that the Carrizo-Wilcox Aquifer system is a productive major aquifer, drought resistant, has large volumes of water in storage and is a long-term, reliable supply of water.

Second to speak was Chad Norris, an aquatic biologist representing the Water Resources Branch from Texas Parks and Wildlife Department. Norris said that TPWD has a responsibility to protect fish and wildlife resources in Texas and that they provide input to GCDs and CMAs as requested.

Norris said that surface water and groundwater interaction is extremely important to aquatic environments. Habitats such as streams, hillside bogs, ponds and rivers are dependent on groundwater.

When water is withdrawn from groundwater wells, it has to come from somewhere, Norris said. He knows there will be some change with groundwater withdrawal, but cannot predict where that change will happen.

Recharge | Fall 2017 | 5