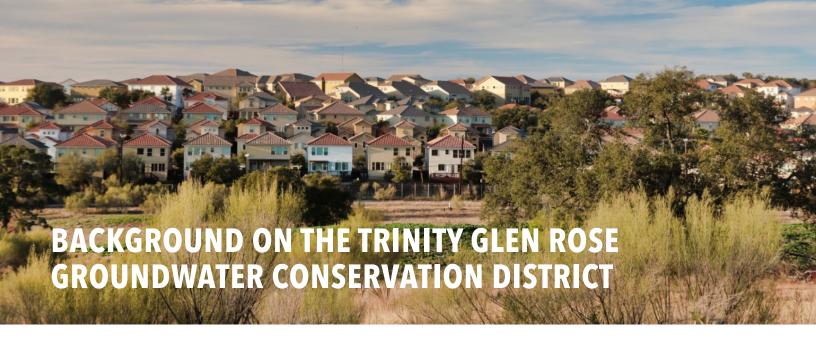


MISSION STATEMENT

The Trinity Glen Rose Groundwater Conservation District conserves and protects the Trinity Group of Aquifers in northern Bexar County using sound science, best management practices, community involvement and peer partnerships to preserve the resource for future generations.

Prepared by: George Wissmann and Emily Green 6335 Camp Bullis Road, Suite 25 San Antonio, TX 78257 www.trinityglenrose.com



The Trinity Glen Rose Groundwater Conservation District (TGR or the District) was created under HB 2005 (2001) for the purpose of conserving, preserving, recharging, protecting and preventing waste of groundwater from the Trinity Group of Aquifers within northern Bexar County. The District was created in response to the Texas Natural Resources Conservation Commission's (currently the Texas Commission of

Environmental Quality, or TCEQ) January 2001 designation of the Trinity Group of Aquifers within Bexar Country as a Priority Groundwater Management Area (PGMA). A PGMA designation is given to an area "that is experiencing, or is expected to experience, critical groundwater problems."

The District is the governing body of the portion of the Trinity Group of Aquifers located within northern Bexar County.

Portions of Kendall and Comal counties which have been annexed by the City of Fair Oaks Ranch fall within the District boundaries as a result of HB 1518 (2009) with a process in place to determine whether these annexed lands will fall under TGR jurisdiction. The Trinity Group of Aquifers is considered important to the State of Texas and subject to

provisions in the Texas Water Code §36. The State Legislature created TGR to ensure appropriate groundwater management techniques and strategies could be implemented at the local level to address groundwater issues within the District.

The District manages administrative and technical activities and programs to achieve its mission, including collecting and archiving water well and aquifer data, regulation of water well

The Trinity Group of Aquifers is considered important to the State of Texas and subject to provisions in the Texas Water Code §36. The State Legislature created TGR to ensure appropriate groundwater management techniques and strategies could be implemented at the local level to address groundwater issues within the District.

drilling and collection of production data from non-exempt wells, promotion of capping or plugging of abandoned wells, providing information and educational material to local property owners, collaborating with other governmental entities and organizations, and other groundwater-related activities necessary to achieve our mission.

BOARD OF DIRECTORS

The Trinity Glen Rose Groundwater Conservation District is divided into 5 sub-districts spanning northern Bexar County and portions of Kendall and Comal counties. As of February 2012, these Districts have been re-delineated based on 2010 census data and approved through the Department of Justice. The duty of the Board of Directors is to ensure the District complies with state and local statutes, in addition to meeting the District's primary mission to conserve, preserve, recharge, protect and prevent waste of groundwater from the Trinity Group of Aquifers in northern Bexar County.

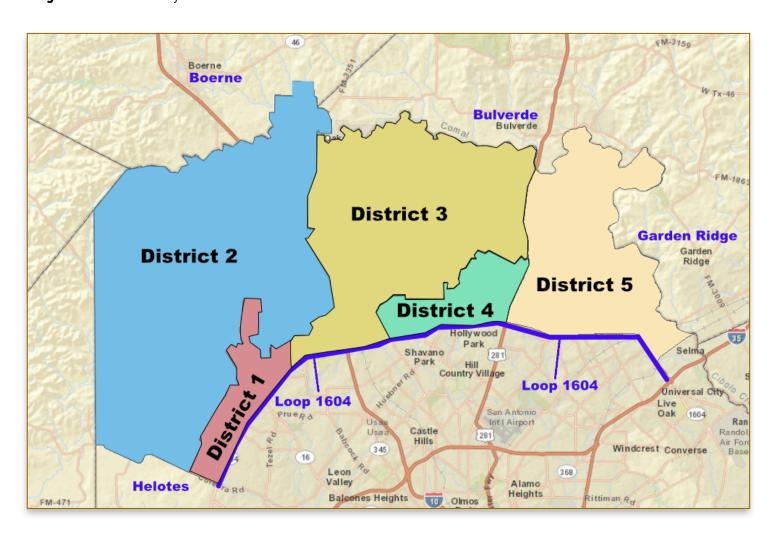
Joe duMenil - President - District 2

Don Reddout - Vice-President - District 1

Jorge Gonzalez - Secretary - District 5

Joe Silman - Treasurer - District 4

Harris Dickey - Asst. Secretary/Treasurer - District 3



TGR DISTRICT STAFF

TGR staff includes a General Manager, George Wissmann. Mr. Wissmann has been with the District for over 12 years. Prior to working for TGR, Mr. Wissmann spent over 20 years with the San Antonio Water System. The District employs one additional person, Emily Green, who has served as the Administrative Program Manager since October 2012. Both employees are part-time.



TGR maintained a solid financial position throughout the fiscal year ending September 30, 2018. The District's net position increased \$62,987 from prior fiscal year ending September 30, 2017 for a total of \$1,576,296. The District complies with all accepted accounting principles and applies all relevant Government Accounting Standards Board (GASB) pronouncements. A summary of the District's finances for FY 2018 is found below. A full audited financial report can be downloaded at www.TrinityGlenRose.com.

- The assets of the District exceeded its liabilities at the close of the fiscal year ended September 30, 2018 by \$1,576,296. Of this amount, \$1,571,661 is unrestricted net position available to meet the District's ongoing obligations and designated reserves.
- Total operating and non-operating revenue for the year was \$341,000.
- Total expenditures were \$278,013.
- Revenue exceeded expenses by \$62,987 and is being used to build the net assets of the District to maintain an adequate capital structure and fulfill adopted board designated reserves.

Financials - Continued

STAT	GROUNDWATER CONSER EMENTS OF NET POSITION	ON	ISTRICT	
SEP1	EMBER 30, 2018 AND 201			
╏╾┇┈┇╒╴┇┈┇╒╴┇┈┇╌╏╒┷┇╌╏╒┧┎╌╏╒╴┇╌┇╒╴┇╌╏╌╏╌╏╌┇╌┇┈┇╌┇┈┇╌┇┷┇╒╏╒╸┇┈┇ ┱┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯┸┯	┊ ╏╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫	2010	2017	
ACOPTO		2018	2017	
ASSETS	┇ ╇ ┇╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫╫			
Current Assets:				
Cash and Cash Equivalents	\$	181,942	\$ 426,210	
Investments		1,368,000	1,050,000	
Accounts Receivable		47,393	33,338	
Prepaid Expenses		4,488	3,254	
Total Current Assets		1,601,823	1,512,802	
Property, Plant, and Equipment				
Computers and Equipment		51,216	51,216	
Accumulated Depreciation		(46,581)	(42,955)	
		4,635		
Total Property, Plant, and E	quipmeni		8,261	
TOTAL ASSETS		1,606,458	1,521,063	
DEFERRED OUTFLOWS OF				
Pension Contributions Prior to the	ne Measurement Date	8,078		
LIABILITIES				
Accounts Payable		36,732	7,254	
Payroll Withholdings		1,508	500	
TOTAL LIABILITIES		38,240	7,754	
NET POSITION				
Net Investment in Capital Assets		4,635	8,261	
Unrestricted			1-1-1-1-1-1-1-1	
+ (+) (+) (+) (+) (+) (+) (+) (+) (+) (+		1,571,661	1,505,048	
TOTAL NET POSITION	<u> </u>	1,576,296	\$ 1,513,309	

Board Designated Reserve Fund

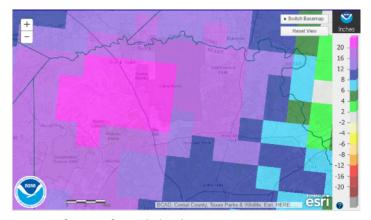
The Board of Directors has designated funds for future growth and liquidity needs. As of December 31, 2018, this amount totaled \$1,350,000. These are governing board non-restrictive designated reserves with the objective of setting funds aside to be drawn upon in the event of financial distress, immediate liquidity needs, or for capital improvements and programs as outlined below.

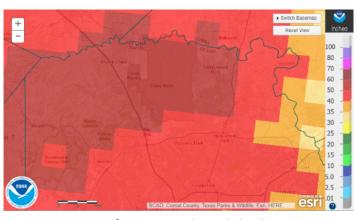
Board designated reserves at December 31, 2018 are as follows:

Election Reserve	\$40,000.00
Redistricting Reserve	\$40,000.00
Operating Expenses Reserve	\$250,000.00
Conservation Program Reserves	\$300,000.00
Aquifer Studies Reserves	\$300,000.00
Legal Reserves	\$200,000.00
Capital Improvements Reserve	\$220,000.00

ANNUAL DATA COLLECTION, PERMITTING, AND GROUNDWATER STUDIES

2018 RAINFALL





2018 Observed Precipitation

2018 Departure from Normal Precipitation

During 2018, the District experienced a wet year with observed precipitations totals as reported by the National Weather Service ranging from 35" in the eastern portion and in excess of 50" throughout the central and western portions. This reflects a departure from normal precipitation varying from 12-20"+ above normal precipitation.

The District continued to monitor forecasts generated by state and national drought indices, as well as, the TGR monitor well network to determine whether changes in drought stage declarations were necessary. This information was presented to the Board of Directors during regularly scheduled Board meetings throughout the year and the District continued to provide the public with conservation and education resources as drought conditions necessitate.

Water Well Activity

Total number of well permits issued in 2018 was 57; 43 for new or deepened domestic and commercial wells; 13 for the plugging of existing wells; 1 geothermal. The District continues to operate under an inter-local agreement with the San Antonio Water System (SAWS) to conduct well application processing and well inspections for newly constructed, plugged, and modified wells.

At this time, TGR has not implemented a system for assigning production amounts or limits to non-exempt wells located within the District.

GIS Data

TGR strives to maintain an accurate and up-to-date Geographic Information Systems (GIS) database. GIS data produced or modified by TGR staff includes well drilling locations, well plugging locations, parcel property lines, and district boundary adjustments. This spatially referenced data can be leveraged to perform spatial and location analysis, and in groundwater studies or long-term planning.

Monitor Well Activities

The District continues to maintain a monitor well program to better collect and analyze trends in groundwater levels within the District. As of 2018, the District continues to utilize six realtime groundwater monitoring stations and two groundwater monitoring stations where data is downloaded on a monthly basis. This information is reported to the Board of Directors during the regularly scheduled Board meetings throughout the year. In addition to these monitoring devices, the District receives groundwater data from several public supply purveyors located throughout the district. Links to data from the monitoring well network are available to the public through both the Texas Water Development Board website as well as the District website - www.TrinityGlenRose.com.

GMA-9 Planning Group

TGR is a member of the Groundwater

Management Area 9 (GMA-9) Joint Planning

Committee. This group is tasked with long-term



planning and management of groundwater resources for the Hill Country Priority Groundwater Management Area. During 2018, the District continued to meet and work with the GMA-9 Joint Planning Group to prepare for the next submittal of Desired Future Conditions (DFC), required by May of 2021. Desired Future Conditions are 50-year planning horizons set by groundwater management areas on how the aquifer levels look from a water quantity standpoint over that planning period. Every five years, GMAs are required to update their DFC explanatory reports.

In addition to discussing the submittal for the 2021 round of DFCs, the group has been working toward a standardized method for tracking DFC compliance. George Wissmann, continued to work as a member of the GMA-9 sub-committee working on the DFC process.

Following the most recent round of GMA-9 planning, the DFC for region was set for no more than a 30-foot average water level drawdown across the entirety of the GMA-9 planning boundaries. To assist the groundwater management area groups, the Texas Water Development Board identifies modeled available groundwater for each GCD to achieve in order for the region to achieve its desired future condition.



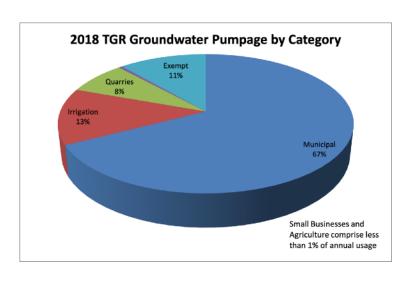
The TGR in conjunction with the Groundwater Management Area 9 in May of 2015 set the current Desired Future Conditions (DFCs) for the planning group. As a result of the DFCs, the Texas Water Development Board has issued Modeled Available Groundwater (MAG) numbers to each Groundwater District in order to achieve the DFCs. The MAG for the TGR is 25,511 acre feet annually.

The table 1 below illustrates historical use of groundwater within TGR since 2008 based on monthly data collection. In 2018, 15,180 acre-ft of water was produced from the Trinity Group of Aquifers; a decrease of 4,415 ac-ft from 2017. This decrease can largely be attributed to a decline in municipal pumpage due to contracted limits related to aquifer levels.

Table 1.TGR Historical Groundwater Usage based on calendar years (in acre-ft) 2008-2018

User Group	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Marie al DIMC	0405	6245	7040	70.00	0000	6504	F070	44700	40427	4.45.00	10212
Municipal PWS	8405	6245	7010	7969	8096	6584	5878	11799	19127	14569	10212
Irrigation	2360	2069	1874	2533	1745	1969	1901	1917	1878	2255	1991
Quarries	1229	1230	1458	1155	1032	1480	822	864	972	956	1162
Agriculture	100	100	100	100	100	100	100	100	100	100	100
Exempt	1500	1500	1500	1500	1500	1714	1615	1634	1767	1690	1715
Total	13594	11144	11942	13257	12473	11847	10376	16375	23888	19595	15180

The chart to the right depicts how groundwater pumped within TGR was utilized during 2018. The majority of groundwater pumped (67%) within the TGR is used to meet municipal supply needs. The second largest groundwater use (13%) within TGR is for irrigation purposes. The remainder of groundwater pumped within TGR is utilized for exempt users (estimated 11%), quarries (8%), agriculture (<1%), and small business (<1%).



COMMUNITY AWARENESS, CONSERVATION INITIATIVES

During 2018, the Trinity Glen Rose Groundwater Conservation District continued efforts to inform and involve the community in its mission to protect, conserve and preserve the Trinity Aquifer. District staff, working with Boggess Communications, began to implement strategies outlined within

the Strategic Communications Plan adopted in January 2016.
Based on an initial round of interviews with TGR stakeholders in June 2016, the district began implementing programs to increase awareness about the District, creating beneficial partnerships with local organizations

and leveraging both to inform and involve homeowners and businesses throughout the TGR service area. In early 2017, the team finalized its group of stakeholder meetings that began in 2016.



TGR AWARENESS AND
WATER CONSERVATION
PROGRAMS AND
PARTNERSHIPS - 2018

A large variety of organizations, public agencies and other potential partners were outlined in the strategic communication plan with additions suggested by the public. The list was prioritized on the basis of organizations most likely to partner with TGR and where the application of TGR resources could bring the greatest awareness for the

District and water savings.
In 2018, TGR built on 2017 successes and completed programs with these partners in water conservation.

San Antonio Water
System (SAWS) – TGR
continued partnering on
conservation and
community conservation
programs such as the
Watersaver Landscape
Design Schools, Watersaver

Landscape Tour and Irrigation Consultations.

City of Fair Oaks Ranch -

TGR developed partnership with the City of Fair Oaks Ranch regarding water conservation programs for the city in order to reduce its per capita water use.

During 2018 TGR held 2 separate landscape workshops which filled.

Community Awareness and Conservation Initiatives - Continued

Large HOAs, POAs –TGR worked with Stone Oak POA and Creekhaven HOA on various water saving programs and educational opportunities

SA Parks and Recreation - TGR discussed development of a rain barrel event at one of the parks managed by

of the outreach efforts, TGR worked with Finch in developing a potential TV show focusing landscape maintenance and water savings. The team approached KSAT-TV first, but couldn't reach an agreement. The idea still has merit and discussions were held about reaching

component of the program created 552,000 gross impressions (based on TPR's audience ratings) and each of the six banner ads created 30,000 website impressions which ran in six months.

Milberger's Nursery and Stone &

Soil – TGR continued working





the City of San Antonio within the TGR District.

Gardening Volunteers of
South Texas – TGR entered
into an inter-local agreement
with the Gardening
Volunteers of South Texas to
hold water saving landscape
design schools throughout
the District and to help
sponsor and coordinate the
annual water saver landscape
tour this year scheduled for the

tour this year scheduled for the Stone Oak area.

Calvin Finch (one of San Antonio's most prominent horticulturists and water conservation advocates) – continued working with Finch on watersaving landscape ideas and stories for the TGR newsletter and website. As part

TGR teamed up with SAWS for irrigation consultations.

out to other stations.

Texas Public Radio (TPR) - TGR completed a media campaign for the second year with Texas Public Radio. The campaign, created primarily to raise awareness of the District, consisted of radio public service announcements and TPR website banner ads presented over 11 months of 2018. The radio

relationships with Milberger's
Nursery and Stone & Soil to help
promote water conservation and
to build TGR's database of
newsletter subscribers. In the
spring, TGR offered a \$50
coupon Milberger's or Stone &
Soil for anyone visiting all of the
homes featured in the 2018
Water Saver Landscape tour.
Approx. 140 individuals

completed the tour and provided TGR with the information to qualify for the coupon.

Greenspaces Alliance - TGR began efforts to connect with Greenspaces Alliance. Three meetings were held, but here were no specific programs outlined for partnering in 2018.

Community Awareness and Conservation Initiatives - Continued

SAWS - Landscape Coupon Program – TGR continued to collaborate on the SAWS landscape coupon program. TGR offered an additional coupon amount for any participants in the SAWS program who also resided within the Trinity Glen Rose District. Program details were agreed to in summer of 2017. The first sets of approximately 1,000 direct mail letters were sent to neighborhoods on the west side of the District by SAWS in the fall of 2017. TGR offered through these mail-outs a \$50 coupon for landscaping materials if the resident completed an irrigation system audit and consultation at their home with a SAWS specialist. The program continued throughout 2018 and 11 individuals submitted their information for the coupon.

TGR Irrigation Consultations -

TGR established an irrigation consultation program modeled after SAWS' program where residents who utilize residential sprinkler systems within the district who are not served by SAWS who either rely on an individual water well or served by another water purveyor may request a consultation. TGR staff will conduct an assessment of their system and offer a \$50 coupon to Milberger's or Stone & Soil along with any recommended water saving tips



identified during the consultation. In 2018 TGR staff conducted 18 irrigation consultations.

Additional Public Outreach

The District continues to seek outreach and continuing education opportunities throughout the year in an effort to meet groundwater management goals and increase awareness of the District and its mission. Information regarding specific events can be found in the Appendix.

- Throughout 2018, Boggess Communications continued to create and publish a monthly newsletter focusing on water-related activities throughout the District. The monthly newsletter was distributed through email to 1,015 subscribers and is published on the District's website.
- TGR participated in the Witte Museum's second planning session in its effort to develop a world-class water exhibit for the museum.
- Additional pages were added to the TGR website to reflect new water conservation programs and partnerships developed over the year.
- The District continued to provide information to Stone Oak and the City of Fair Oaks Ranch for inclusion in their newsletters.
- In April 2018 during the Stone Oak POA Earth Day event, District staff hosted rain barrel workshop and information and educational materials were provided to the participants.

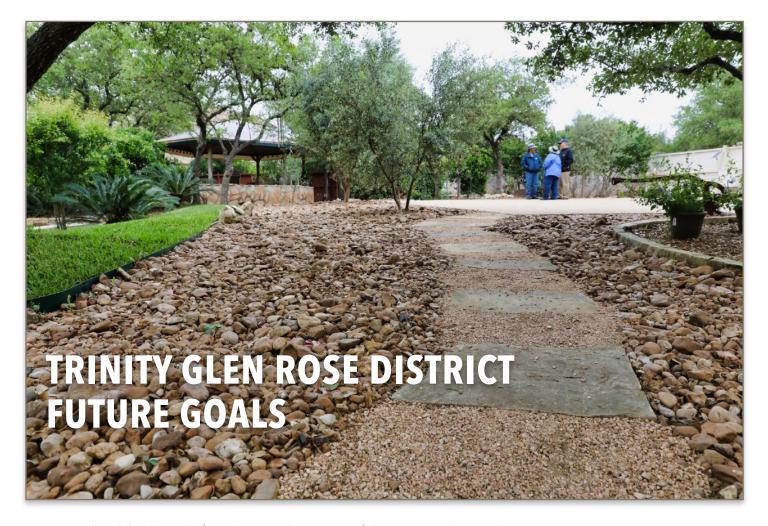
Community Awareness and Conservation Initiatives - Continued



- In April 2018 TGR staff participated in the neighborhood of Creekhaven Home and Garden Event held in the Creekhaven Subdivision natural area. TGR provided information and educational materials for participants. Additionally TGR provided a prize for their raffle.
- In October 2018, District staff sponsored a tree care workshop and information at the Stone Oak Homeowner's Arbor Day event. Educational materials were provided to the participants as well.
- The District continues to maintain drought and water conservation-related materials, including rainwater harvesting, available to the public both in the District office as well as through the District webpage.
- Submitted news release to media regarding drought stage changes

Continuing Education

- April 2018 District staff and board member Joe duMenil attended the Kent Butler Water Summit in San Marcos.
- April 2018 Emily Green attended the Water Policy Conference in College Station.
- June 2018 Staff attended an eminent domain panel discussion in San Antonio.
- June 2018 Staff attended a Local Control Forum discussion in Comal County
- August 2018 District staff, Joe Silman and Joe duMenil attended Texas Groundwater Summit.



- Research and develop wells for inclusion and expansion of the monitor well network.
- Continue to build hydro-geologic data to gain a more comprehensive understanding of the Trinity Group of Aquifers in northern Bexar County and Hill Country.
- Manage the groundwater resource to remain on track with established Desired Future Conditions determined by the District and the GMA 9 Joint Planning Committee.
- Continue to increase public awareness of the District through workshops, community events, conservation audits, and collaboration with peer partnerships.
- Work with Communication Consultant to increase public awareness as outlined in the District Strategic Communications Plan and revisions to the District's website.
- Develop and implement new District rules to address existing and changing conditions with regards to groundwater issues in Northern Bexar County.
- Incorporate new management goals and adopt legislative changes as necessary.
- Provide new opportunities for continued education for staff and board members.



APPENDIX

Community Outreach Events

Creekhaven HOA Home and Garden Event held on 4/14/2018

Staff attended was George Wissmann and Emily Weiner

Time: 10 am- 2 am

Staff hosted an information table and 2 raffle giveaways (rain barrel and chairs)

15 - TGR brochures were handed out.

20 - TGR rain gauges were handed out

3 - HCA Native Landscaping

GVST Landscape Workshop held on 3/24/2018

Staff attending: George Wissmann, Emily Weiner

Time: 8:00 am- 10:30 pm

Staff provided 31 attendees bag and conservation-related items along with educational display

31 - TGRGCD reusable bags

31 - TGRGCD brochures

31 - TGRGCD rain gauges

31 - Moisture Meters

31 - Water: Yours, Mine, Ours handbooks

GVST Landscape Workshop held on 5/5/2018

Staff attending: George Wissmann, Emily Green

Time: 8:30 am- 10:30 pm

Staff provided 30 attendees bag and conservation-related items along with educational display

30 - TGRGCD reusable bags

30 - TGRGCD brochures

30 - TGRGCD rain gauges

30 - Moisture Meters

30 - Hose timers

30 - Water: Yours, Mine, Ours handbooks

30 - TGRGCD ball caps

30 - HCA Native Landscaping handout

APPENDIX

GVST Landscape Workshop held on 9/8/2018

Staff attending: Emily Green

Time: 8:30 am- 10:30 pm

Staff provided informational presentation to 31 attendees

GVST Landscape Workshop Fair Oaks Ranch held on 10/27/2018

Staff attending: George Wissmann, Emily Green

Time: 8:30 am- 10:30 am

Staff provided informational presentation to 14 attendees

14 - TGRGCD reusable bags

14 - TGRGCD brochures

14 - TGRGCD rain gauges

14 - Moisture Meters

14 - Hose timers

14 - Water: Yours, Mine, Ours handbooks

14 - TGRGCD ball caps

14 - HCA Native Landscaping handout

Stone Oak POA Earth Day Event held on 10/20/2018

Staff attended was George Wissmann and Emily Green

Time: 8:30 am- 11:00 am

District sponsored tree trimming workshop. With 4 participants in attendance

Brochures and GVST workshop info cards made available to participants

Stone Oak POA Earth Day Event held on 4/21/2018

Staff attended was George Wissmann and Emily Green

Time: 8:30 am- 10:30 am

Staff hosted a rain barrel presentation.

4 - TGR brochures were handed out.

4 - TGR rain gauges were handed out

4 - Moisture Meters

4 - CCGCD Water: Yours, Mine, and Ours

4 - TGR hats

4 - TGR tote bags

4 - hose timers



2018 ANNUAL REPORT

Prepared by: George Wissmann and Emily Green 6335 Camp Bullis Road, Suite 25 San Antonio, TX 78257 www.TrinityGlenRose.com