



# **ANNUAL REPORT**

## **Fiscal Year 2017**

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***General Manager: Gary Westbrook***

## 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 77<sup>th</sup> 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 2017. Additional information such as Agenda and location may be obtained from the District's website at [www.posgcd.org](http://www.posgcd.org).

### *Board Meetings During the 2017 Calendar Year*

<b>Date</b>	<b>Meeting Type</b>
02-07-17	Board Meeting
03-07-17	Board Meeting
03-28-17	Board Meeting & Public Hearing
04-04-17	Board Meeting
04-18-17	Board Meeting
05-03-17	Board Meeting
06-06-17	Board Meeting
08-01-17	Board Meeting
08-16-17	Milam & Burleson Counties Groundwater Summit
09-05-17	Board Meeting & Public Hearing
10-03-17	Board Meeting
11-07-17	Board Meeting & Public Hearings
11-09-17	Board Meeting & Public Hearings
12-05-17	Board Meeting & Public Hearing

### *Committee Meetings During the 2017 Calendar Year*

<b>Date</b>	<b>Meeting Type</b>
03-07-17	DFC Committee
03-09-17	DFC Committee
03-17-17	Grant Committee
03-28-17	DFC Committee
03-29-17	Rules Committee
04-11-17	DFC Committee
04-27-17	DFC & Rules Committees
05-03-17	DFC Committee
06-06-17	DFC Committee
07-19-17	Grant Committee
07-20-17	Rules Committee
07-27-17	Rules Committee
08-01-17	DFC Committee
09-05-17	DFC Committee
10-03-17	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 2017 included:

- General Manager's Annual Reports to the Commissioner's Courts of Milam and Burleson Counties.
- The District's General Manager (GM) served as a resource to legislators concerning efforts in the 85<sup>th</sup> legislature in 2017 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, and groundwater regulation of oil and gas industry.
- 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, ASR, and long-term permits during the 85 Legislature.
- The GM served on a panel at the Milam and Burleson Counties Groundwater Summit, August 16, 2017, 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 30, 2017 to discuss how GCDs within GMA are similar and how they are different.

- The Water Resource Management Specialist moderated two panels at the Texas Alliance of Groundwater Districts Groundwater Summit on August 29, 2017 and August 30, 2017.
- The GM and Water Resource Management Specialist attended the Texas Aquifers Conference June 9, 2016
- The President's designee served as the acting chairman for GMA 12
- POSGCD maintained 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 and consultants attended meetings 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**

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 drawdown 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.

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 2017 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 pre-existing 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**

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.

In 2017, 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 20 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.

## **Section 7. Desired Future Conditions**

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.

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

During 2017, on the dates of January 22, February 17, March 23, April 1, and September 29, the member districts of GMA 8 met in Cleburne, TX to participate in joint planning as required under Chapter 36.108, Texas Water Code.

During 2017, on the dates of March 27 and September 20, the member districts of GMA 12 met in Milano, TX to participate in joint planning as required under Section 36.108, Texas Water Code. The member districts of GMA 12 also met on August 16 in Caldwell to discuss their similarities and differences at the 2017 Milam & Burleson Counties Groundwater Summit. 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).

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

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

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.

## **Section 9. Water Well Inventory**

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.

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.

## **Section 10. Groundwater Monitoring**

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.

In 2017, 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 20 of the monitoring wells, POSGCD used transducers 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 neighboring 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 2018.

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

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

As part of its evaluation of the monitoring network in 2017, 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 01 and September 05 Board meetings 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**

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.

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.

## **Section 13. Actions, Procedures, Performance and Avoidance for Plan Implementation.**

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.

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 proactively with GMA 8, GMA 12, the Texas Water Development Board, Burleson 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 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.

## **Section 15. Aquifer Storage and Recovery Projects**

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.

There were no proposed ASR projects in 2017.

## **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.



### 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 110 wells that were a part of POSGCD monitoring well network in 2017, for which water levels were recorded at least once during that year. At 20 of these wells, data loggers coupled with transducers 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 2017. Those wells are identified in Table 4.1 and will be visited during 2018 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 2017 for which water levels were recorded at least once during that year. A report on this monitoring was presented to the Board on August 01, 2017 and on September 05, 2017 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.

## **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.

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.

### 16.3 Control and Prevent Subsidence

Management Objectives:

1. The District will monitor drawdowns 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.

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 drawdown 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 110 monitoring wells and did not find any evidence of drawdown that would be sufficient to cause land subsidence has occurred during the last few years or will occur in the next few years.

### 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.

### 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.

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 addition 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 4, 2017. The 2016-17 Water Wise report was presented to the Board on September 5, 2017. 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 2017, in the total amount of \$1664.

## 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.

### 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 August 16, 2017 and November 1, 2017 with representatives of the Brazos River Authority at BRA's offices, during trips to Region G Planning Group Meetings. 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 Objective:

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.

Performance Standard:

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.

### **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 29 permits for non-exempt wells in 2017 (see Tables 1 and 2), of which 8 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 Objective:

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.

Performance Standard:

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 2 qualified wells in 2017.

## 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.

### Performance Standard:

1. GWAP adopted before the end of 2018.

The GWAP was posted for a public hearing at the Board Meeting on January 9, 2018 and is set to be adopted before the end of 2018.

## 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.

### Performance Standard:

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 Gonzalez 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 meetings on September 05 and October 03.

#### **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.

##### 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 drawdown for each Management Zone calculated from the measured water levels of the monitoring wells within the Management Zone, a comparison of the average measured drawdowns 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 May 2016 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 2017 at the August 01 and September 05 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.

### **Financial Reports and Annual Financial Audit**

Financial reports are given at each meeting of the District's Board of Directors. The Financial Audit of the District for FY 2016 was presented to the Board at the May 3, 2017 Board Meeting.

### **Fines levied by the District in 2017**

No fines were levied by the District during 2017.



Table 1

*Production Permits Issued During 2017 Calendar Year*

Owner	Use	Aquifer	Permit Type	Permit #	Annual ac-ft
44 Farms	Irrigation	Hooper	D&O	POS-D&O-0231	20
44 Farms	Irrigation	Hooper	D&O	POS-D&O-0232	20
Abengoa Vista Ridge LLC	Rig Supply	Queen City	D&O	POS-D&O-0233	160
Abengoa Vista Ridge LLC	Rig Supply	Queen City	D&O	POS-D&O-0234	160
Abengoa Vista Ridge LLC	Rig Supply	Queen City	D&O	POS-D&O-0235	160
Abengoa Vista Ridge LLC	Rig Supply	Queen City	D&O	POS-D&O-0236	160
Abengoa Vista Ridge LLC	Rig Supply	Queen City	D&O	POS-D&O-0237	160
James M. Burns	Domestic & Irrigation	Hooper	D&O	POS-D&O-0238	4
Thomas Novosad Jr.	Irrigation	Queen City	D&O	POS-D&O-0239	400
Thomas Novosad Jr.	Irrigation	Queen City	D&O	POS-D&O-0240	500
Thomas Novosad Jr.	Irrigation	Queen City	D&O	POS-D&O-0241	500
Scamardo North Burleson LP	Irrigation	BRAA	D&O	POS-D&O-0242	110
Fred Keith Debault	Irrigation	Simsboro	D&O	POS-D&O-0243	1200
Paul A. Zimmerman	Irrigation	Little River Alluvium	D&O	POS-D&O-0244	20
Paul A. Zimmerman	Irrigation	Little River Alluvium	D&O	POS-D&O-0245	20
Ironhorse Ranch	Livestock	Yegua-Jackson	D&O	POS-D&O-0246	35
Ironhorse Ranch	Domestic	Yegua-Jackson	D&O	POS-D&O-0247	10
Somerville ISD	Irrigation	Yegua-Jackson	D&O	POS-D&O-0248	20
Bonnie & Calvin Cobb Investments, Ltd.	Irrigation	Little River Alluvium	D&O	POS-D&O-0249	260
William Gavranovic	Irrigation	Brazos River Alluvium	D&O	POS-D&O-0250	320
Joe Blaha Trust	Livestock	Sparta	D&O	POS-D&O-0251	10

Table 2

*Oil & Gas Permits Issued During 2017 Calendar Year*

Operator	Lease	Permit Type	Permit #	Permitted (ac-ft)
Wildhorse Resources Management	Goodnight #1	Frac	O&G-0218	128.89
Wildhorse Resources Management	Beseda WL1	Frac	O&G-0219	77.34
Wildhorse Resources Management	Beseda WL2	Frac	O&G-0220	77.34
Wildhorse Resources Management	Miman WL1	Frac	O&G-0221	90.23
Wildhorse Resources Management	Miman WL2	Frac	O&G-0222	90.23
Wildhorse Resources Management	Blaha WL2	Frac	O&G-0223	77.34
Wildhorse Resources Management	Stefka-Aulbaugh WL1	Frac	O&G-0224	148.00
Wildhorse Resources Management	Stefka-Aulbaugh WL2	Frac	O&G-0225	148.00

*Note: All permits were 365-day term permits.*

Table 3

*Exempt Well Registrations Issued During the 2017 Calendar Year*

Registration ID	Owner	County
POS-EW-3482	Donald W. Lampe - Bar L Ranch	Milam
POS-EW-3483	Louis F. Howard, Sr.	Burleson
POS-EW-3484	Thomas Novosad	Burleson
POS-EW-3485	Jamie T. Kitkoski	Burleson
POS-EW-3486	Clint H. Woodburn, Jr.	Burleson
POS-EW-3487	Leslie E. Carsey	Burleson
POS-EW-3488	Rogelio M. Ruiz	Burleson
POS-EW-3489	John C. Perez	Burleson
POS-EW-3490	Jamie C. Hargrove	Burleson
POS-EW-3491	McLane Ranch	Milam
POS-EW-3492	Rudolph Zalobny	Burleson
POS-EW-3493	Lewis C. Herrmann	Burleson
POS-EW-3494	New Tabor SPJST Hall	Burleson
POS-EW-3495	David Korkmas	Burleson
POS-EW-3496	Douglas Pitts	Burleson
POS-EW-3497	Mark Allen Stuart	Burleson
POS-EW-3498	Todd Anthony Higgins	Burleson
POS-EW-3499	John R. Russell	Burleson
POS-EW-3500	Arthur Garza	Milam
POS-EW-3501	Kevin & Monica Odenbach	Burleson
POS-EW-3502	Richard J. Sebesta	Burleson
POS-EW-3503	Darwin D. Stiles	Milam
POS-EW-3504	Floyd Collins	Burleson
POS-EW-3505	Weldon & Diane Clark	Milam
POS-EW-3506	Ray Fox	Milam
POS-EW-3507	Larry Krenek	Burleson
POS-EW-3508	Ricky Cox	Burleson
POS-EW-3509	William Todd Marsh	Milam
POS-EW-3510	Bruce Alford	Burleson
POS-EW-3511	Bruce Alford	Burleson
POS-EW-3512	Terri Machac	Milam
POS-EW-3513	Kurt Butler	Burleson
POS-EW-3514	Joe C. Foster	Milam
POS-EW-3515	Peggy McNeese	Milam
POS-EW-3516	Eliot & Kim Lawrence	Milam
POS-EW-3517	Michael & Dawn Andrews	Milam
POS-EW-3518	Evrin Ben Flencher, Jr.	Burleson
POS-EW-3519	Joan C. Poel	Burleson
POS-EW-3520	Gary Morgan	Milam
POS-EW-3521	Esmaralda Esparaza	Burleson
POS-EW-3522	Don Wyatt	Milam

Table 3 Continued

Registration ID	Owner	County
POS-EW-3523	Brad & Betty Burkhart Trust	Milam
POS-EW-3524	Cyril M. Matula, III	Burleson
POS-EW-3525	Shane Stanger	Milam
POS-EW-3526	Tanya Richardson	Burleson
POS-EW-3527	James R. Trehern	Burleson
POS-EW-3528	Rayfield Slovacek	Burleson
POS-EW-3529	Andrew Sidney Youngblood	Milam
POS-EW-3530	Craig Scarmardo	Burleson
POS-EW-3531	Charles Nowlin	Milam
POS-EW-3532	Albert Wilhelm	Burleson
POS-EW-3533	Iron Horse Ranch	Burleson
POS-EW-3534	Iron Horse Ranch	Burleson
POS-EW-3535	Malissa S. Dingman	Burleson
POS-EW-3536	Raymond W. Zboril	Burleson
POS-EW-3537	James R. Kirkpatrick	Burleson
POS-EW-3538	William A. Newton III	Burleson
POS-EW-3539	Norman F. Godwin	Milam
POS-EW-3540	Michael & Rita Davis	Milam
POS-EW-3541	Travis Wood	Burleson
POS-EW-3542	Dock Hester	Burleson
POS-EW-3543	Daniel Marek	Milam
POS-EW-3544	Timothy L. Richardson	Milam
POS-EW-3545	Ulises DeLeon	Burleson
POS-EW-3546	Harry J. Young	Milam
POS-EW-3547	Ronald Willard Clawson II	Milam
POS-EW-3548	Ronald Willard Clawson II	Milam
POS-EW-3549	Jeremy L. Finch	Burleson
POS-EW-3550	Cheri H. Teague	Milam
POS-EW-3551	Arpit Shah	Milam
POS-EW-3552	Ceripo Muniz	Burleson
POS-EW-3553	Judith Krause	Burleson
POS-EW-3554	Clarence L. Junek	Burleson
POS-EW-3555	Clarence L. Junek	Burleson
POS-EW-3556	Clarence L. Junek	Burleson

Table 4

*District Monitoring Wells Measured in Early Spring 2017 for and Reported to TWDB*

SWN	WID	Owner	DTW (ft)	Date	Method
5917409	25	City of Rockdale (Belton)	170.42	4/17/17	eline
5917103	26	Ralph Summers- Mary Jane Boyd	75.70	2/22/17	tape
5909901	53	Richard Frock	--		
5911402	59	Harold Lange	147.50	2/16/17	tape
5910907	73	Willard Kornegay	130.70	4/27/17	eline
5919302	84	James Ayers	34.60	4/27/17	eline
5925508	99	Larry Sexton	51.20	3/16/17	tape
5925102	107	Noack Family Partnership, Ltd.	116.60	4/17/17	eline
5917715	115	L.B. Kubiak	--		
5917714	121	City of Rockdale (Texas)	--		
5917713	138	City of Rockdale (Tracy)	148.70	3/22/17	eline
5824914	170	Rockdale ISD	126.70	4/17/17	eline
5909605	221	Marlow WSC	136.40	2/21/17	eline
5902706	223	North Milam WSC	35.90	2/16/17	tape
5902309	234	Wendy Breck	37.90	2/16/17	eline
5902307	236	Jared & Heather Campbell	--		
5902901	256	North Milam WSC	121.10	4/27/17	tape
5832101	268	Wayne Diver	5.00	3/16/17	eline
5927716	308	R. B. Wilkens	110.90	4/27/17	tape
5927606	341	Rudy Steck	96.30	2/17/17	eline
5920410	433	Milano WSC- Rita Test	24.30	2/17/17	eline
5920409	434	L. C. Hall, Sr.	--		
5919502	457	Milano WSC - Well 4	284.90	3/1/17	eline
5927204	518	Dale Hill	24.00	2/27/17	tape
5937611	579	Camilla J. Godfrey	32.30	3/15/17	eline
5937329	596	Finley Company	--		
5937101	638	Snook well #1	39.30	4/27/17	eline
5936802	661	Lyons Water Supply	--		
5943608	698	Birch Creek Recreation	52.90	2/28/17	eline
5938701	787	Burnside Services, Inc.	6.30	3/20/17	eline
5935208	791	Juanita Amidon	68.60	2/27/17	tape
5929456	859	Marion Malazzo	9.30	2/28/17	tape
5929457	860	Marion Malazzo	9.20	2/28/17	tape
5928619	877	Tunis Water Supply	--		
5928601	894	P. G. Haines	15.20	3/2/17	eline
5928702	895	Sarah Engleman	--		
5934106	943	Nathan Ausley	138.10	2/23/17	tape
5929537	1023	Texas A & M University	26.70	2/28/17	tape
5934607	1061	Deanville Water Supply Corporation 2	110.60	4/27/17	tape
5918101	1062	Milano WSC - Well # 1	287.20	4/27/17	eline
5918104	1063	Milano WSC - Well # 2	272.60	3/1/17	eline
5918908	1064	Milano WSC - Well # 3	304.20	3/1/17	tape
5918705	1066	Milano WSC - Buer Well	--		
5911703	1082	Gause Water Supply # 1	170.90	2/16/17	tape
5824611	1110	Southwest Milam Water Supply Corp.	141.70	3/17/17	tape
5917712	1117	City of Rockdale (runway)	--	3/22/17	
5917711	1118	City of Rockdale (airport)	154.80	3/22/17	eline
5929410	1166	Holland Porter	7.40	2/28/17	eline
5934107	1197	Nathan C. Ausley	95.90	4/27/17	eline
5934601	1573	Deanville Water Supply Corporation 1	70.80	3/2/17	tape
5927718	1575	Deanville Water Supply Corporation 4	174.80	4/27/17	eline

Table 4 Continued

SWN	WID	Owner	DTW (ft)	Date	Method
5911403	1789	Terry & Sheryl Hall	212.70	42787	tape
5832704	1883	Martin Hobbs	91.40	3/16/17	tape
5925409	2152	Glynn Phillips	--		
5917716	2191	L.B. Kubiak	--		
5902904	2423	Gary & Deryl Emola	--		
5927611	6145	Alvin J. Kutach	111.40	42796	tape
5925502	6243	Birdie Kristoff	76.70	3/16/17	tape
5832908	6305	Charles Lee McDaniel	15.00	2/22/17	tape
5926402	6621	Frederick A. Jackson	--	42797	
5926403	6910	Charles & Jacquelin Stone Revocable Living Trust	287.70	3/3/17	eline
5824612	7364	Richard H. Griffith	56.70	2/22/17	tape
5824610	7506	Southwest Milam Water Supply Corp.	--		
5910910	7773	Todd Russell	195.40	3/15/17	tape
5910705	7774	Jay Wise	--		
5925103	7793	Noack Family Partnership, Ltd.	102.50	42842	eline
5929408	7965	Heirs of Mary Anne oliver	+17.80	3/23/17	tape
5910908	7998	Walter D. Fischer	261.40	42787	tape
5831904	8172	Norbert B. Zeschke	108.30	3/21/17	tape
5928804	8239	Providence Baptist Church	28.50	3/2/17	eline
5902311	8274	Dominic Izzo	80.70	2/16/17	tape
5943104	8388	Wayne Edwards	--		
5929433	8415	Portee FLP	--		
5925408	8451	Antonio E. Cantu	85.70	3/16/17	tape
5910706	8658	Randal C. Leo	183.80	3/17/17	eline
5934108	8767	Terry Ausley	197.80	2/23/17	transducer
5901904	8935	Donald R. Schuerman	34.10	2/16/17	tape
5918602	8959	John Pruett	173.70	2/15/17	tape
5928343	9064	Royalty Pecan Farms	93.00	3/2/17	
5910707	9095	Randal C. Leo	154.80	3/17/17	tape
5928342	9104	David L. Hodges	--		
5936809	9157	Burleson County Pct. 4	76.10	2/28/17	tape
5918108	9166	Post Oak Savannah	259.25	4/20/17	tape
5918109	9167	Post Oak Savannah	59.50	4/20/17	tape
5925904	9215	Linda Garrison	--		
5925302	9230	David Pawlowski	--		
5901905	9327	Naomi White	28.70	2/17/17	tape
5925905	9346	David L. Hancock	--		
5925906	9372	David Hancock	--		
5934609	9445	Burleson County Pct. 1	43.70	3/20/17	tape
5925511	9446	Walter Wentzel	--		
5824915		Rodgers	134.70	2/22/17	tape
5824916		Bocenegra (Simmons)	125.70	2/22/17	tape
5831905		Ansley	107.90	3/21/17	eline
5831906		Hirt	130.60	3/21/17	tape
5832304		Young	119.10	2/22/17	tape
5832404		R. Crump	95.00	3/16/17	eline
5832705		K. Biehle	104.00	3/21/17	tape
5832706		Smith	92.30	3/16/17	tape
5839303		Jordan	103.80	3/16/17	tape
5917510		L. Warren	141.60	2/22/17	eline
5917302		J. Denio	--		
5917411		Caywood	57.50	2/22/17	tape

Table 4 Continued

SWN	WID	Owner	DTW (ft)	Date	Method
5917505		Ed Garner	99.40	2/22/17	tape
5917705		Keys	169.70	3/16/17	tape
5917717		Brahm	--		
5917804		Wiggins	63.40	3/16/17	eline
5925410		David Cork	147.30	2/22/17	tape
5925512		E. Crump	114.30	3/16/17	tape
5839510		Hobbs	70.00	3/21/17	tape

Table 4.1

*New Monitor Wells Added During the 2017 Calendar Year*

SWN	WID	Owner	Aquifer	Well Depth (ft)
5925905	9346	David L. Hancock	Queen City	80
5925906	9372	David Hancock	Queen City	120
Pending		Gerald Briggs	Calvert Bluff	440
Pending	8037	Lee Walters	Calvert Bluff	430
Pending	1786	Earl Campbell	Calvert Bluff	436
Pending	7614	Robert & Sharon Lefler	Calvert Bluff	460
Pending	6330	Robert & Sharon Lefler	Calvert Bluff	410
Pending		Bruce Brinkmann	Sparta	520
Pending		Darren Broeche	Sparta	269
Pending		Dock Hester	Yegua-Jackson	260
Pending	6153	Andrea Moss	Queen City	620
Pending		Tommy Tietjen	Sparta	532
Pending		New Tabor Brethren Church	Carrizo	1235
Pending		CPS-86-37MS / Luminant	Simsboro	499
Pending		58-39-8A1 / Mary Cain	TBD	135
Pending		58-40-4A6 / Lancaster	TBD	544
Pending		58-40-4A9N / Sorenson	TBD	255
Pending		58-40-704 / Turner	TBD	454
Pending		59-25-7A6 / Art Gary	Calvert Bluff	620
Pending		CPS-86-5MS / Luminant	Simsboro	300
Pending	8865	Billy Ogea	Calvert Bluff	160
Pending		Bill O'Brien	Yegua-Jackson	350
Pending		Bill O'Brien	Yegua-Jackson	400
Pending	7183	Mark Ofczarzak	Queen City	570
Pending	1390	Charles Stone	Calvert Bluff	1120
Pending	1120	Cooks Point WSC	Carrizo	1252
5909701	186	Minerva WSC #1	Hooper	218
5824802	148	Billy Ogea/ Leo Ogea	Hooper	212
Pending		Richard Ramsey	Sparta	520
Pending		Richard Ramsey	Yegua-Jackson	226
Pending		Ronnie Coleman	Calvert Bluff	680
Pending		Ronnie Coleman	Calvert Bluff	700
Pending		Amy Hinnant Jurica	Sparta	550
Pending		Tommy Tietjen - Anthony #1	Sparta	533
5938709		Clay WSC	Yegua-Jackson	513
Pending		Lee Alford	Queen City	199

Table 4.1 Continued

SWN	WID	Owner	Aquifer	Well Depth (ft)
Pending	7838	Durwood Tucker	Hooper	194
Pending	1986	Leroy Stephens	Hooper	412
Pending	8795	Douglas & Michelle Van Meter	Hooper	279
Pending	8772	Douglas & Michelle Van Meter	Hooper	115
Pending	9094	Douglas & Michelle Van Meter	Hooper	315
Pending	9162	Douglas & Michelle Van Meter	Hooper	300
Pending		POSGCD CWM-3	TBD	To be drilled
Pending		POSGCD CWM-4	TBD	To be drilled
Pending		POSGCD CWM-5	TBD	To be drilled
Pending		POSGCD CWM-6	TBD	To be drilled
Pending		POSGCD CWM-7	TBD	To be drilled
Pending		POSGCD CWM-8	TBD	To be drilled

Table 5

*District Education During the 2017 Calendar Year*

Date	Group	Location
01-03-17	Update to Burleson Co. Commissioner's Court	Caldwell, TX
05-18-17	POSGCD Open House	Milano, TX
05-26-17	Milano Texas A&M AgriLife; Healthy Streams	Cameron, TX
06-06-17	Rockdale Rotary Club	Rockdale, TX
07-03-17	NRCS – Annual Conservation Planning Meeting	Caldwell, TX
07-14-17	Well Water Screening Campaign Results Meeting	Milano; Caldwell, TX
08-16-17	Milam & Burleson Counties Groundwater Summit	Caldwell, TX
08-31-17	TAGD Groundwater Summit	San Marcos, TX
09-03-17	Caldwell Methodist Church Ladies Group	Caldwell, TX
09-26-17	Local Water Utilities Workshop	Milano, TX
10-04-17	Texas A&M University AGCJ 281 Class	College Station, TX
10-10-17	Rainwater Harvesting 101 Workshop	Milano, TX
10-10-17	Burleson County Farm Bureau Meeting	Caldwell, TX
10-18-17	Burleson County Ag Safety Day	Caldwell, TX
10-24-17	Brazos Valley GCD Water Field Day	Franklin, TX
11-06-17	Earth-Kind Water Conservation Workshop	Milano, TX
11-15-17	Bell County Water Symposium	Killeen, TX
11-16; 17-17	TAGD Leadership Training	Salado, TX
11-20-17	Groundwater Educational Outreach Collaborative	Waco, TX
12-02-17	Rainwater Harvesting 101 Workshop	Milano, TX
12-05-17	POSGCD Christmas Open House	Milano, TX
Jan – Dec	Facebook & Twitter posts	
May – Dec	Bi-weekly E-newsletters	
May – Dec	Quarterly Mailed Newsletters	

Table 6

*District Conservation Grants Awarded for Calendar Year 2017 on April 4, 2017*

Applicant	Amount Awarded	Use
Milano WSC	\$95,000.00	Replace obsolete water lines
Southwest Milam WSC	\$176,030.00	Replace obsolete water lines and meters
Burleson Co. MUD #1	\$317,421.00	Replace obsolete water lines
City of Somerville	\$216,000.00	Replace obsolete water lines
Lyons WSC	\$108,300.00	Replace obsolete water lines
Marlow WSC	\$34,770.00	Replace obsolete water meters
Total:	\$947,521.00	

During 2017, the District reimbursed fire departments which used groundwater and located in the District for purchase of foam and foam dispersion equipment in the amount of \$1664.