

**LOST PINES GROUNDWATER  
CONSERVATION DISTRICT**

**MANAGEMENT  
PLAN**

**Adopted September 15, 2004;  
Revised August 10, 2010;  
Revised September 19, 2012**

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MAPS

ATTACHMENT A: Chapter 36, Summary of Selected Provisions

APPENDICES

- Appendix A: Copy of GMA 12 Resolution and Submittal Adopting DFCs
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- Appendix D: Evidence of Public Notice and Hearing on Management Plan

## Section 1. THE DISTRICT

The Lost Pines Groundwater Conservation District (District) was created in 1999 by Senate Bill 1911, 76th Texas legislature, pursuant to Section 59, Article 16 of the Texas Constitution and Article 7880-3c, Texas Civil Statutes (now Chapter 36, Texas Water Code); ratified by the 77th Texas Legislature in 2001; and confirmed by voters in Bastrop and Lee counties in November 2002.

The District includes all of Bastrop and Lee counties (**Map 1**).

For state water planning purposes, the District was designated by the Texas Water Development Board (TWDB) as part of Groundwater Management Area 12 (GMA 12) (**Map 2**). The District participates in GMA 12 along with Mid-East Texas Groundwater Conservation District, Brazos Valley Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, and Fayette County Groundwater Conservation District.

The District participates in two of the State's sixteen Regional Planning Areas: Bastrop County is in Lower Colorado Regional Planning Group or Region K and Lee County is in Brazos River Regional Planning Group or Region G (**Map 3**).

## Section 2. DISTRICT MISSION AND GUIDING PRINCIPLES: Actions, Procedures, Performance and Avoidance Necessary to Effectuate the Management Plan

**Mission.** The District's mission is to conserve, preserve and protect interests in groundwater in Bastrop and Lee counties, while addressing statutory goals and requirements. In fulfilling its mission, the District will endeavor to manage groundwater to meet demands on a sustainable basis, by which the District means development, use, and reasonable long-term management of groundwater resources so that those resources can continue to be used by future generations. The District will address applicable statutory management goals, including:

- Providing the most efficient use of groundwater
- Controlling and preventing waste of groundwater
- Addressing conjunctive surface water management issues
- Addressing natural resource issues that impact the use and availability of groundwater and are impacted by the use of groundwater
- Addressing drought conditions
- Addressing conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, or brush control, where appropriate and cost effective, and
- Addressing the desired future conditions (meaning a quantitative description, adopted in accordance with Chapter 36, Texas Water Code,<sup>1</sup> of the desired condition of the groundwater resources for relevant aquifers (DFCs)), as those DFCs may be amended from time to time.

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<sup>1</sup> See §§ 36.001(30) (defining DFC) and 36.108 (joint planning process). References herein to "Chapter 36" are to Chapter 36, Texas Water Code. All references to a section of Chapter 36 are shown as "§ 36.[section number]."

Based on current conditions, the statutory goal of controlling and preventing subsidence is not applicable to the District.

***Guiding Principles.*** The District's guiding principles derive from its mission statement. Groundwater resources within the District are of vital importance to the residents and businesses in Bastrop and Lee counties and effectively constitute the only source of water available for most of the District. The District was created to provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater within the two counties, while complying with statutory requirements. The District believes its groundwater resources can be managed in a prudent manner through education and conservation coupled with reasonable regulation, and based on increasing quantitative understanding of available groundwater resources, recharge, and current and future demand, including real-time information on aquifer conditions developed via a network of monitoring wells.

***Policy.***

1. District groundwater is to be conserved, preserved, and protected and waste prevented to maintain the viability of the groundwater supply for future generations in the two counties, while complying with statutory requirements, as amended from time to time, including those applicable to permits for transport of water out-of-District, and including without limitation certain provisions of Chapter 36 which are summarized in Appendix A (which may be supplemented when appropriate).

2. To the extent consistent with statutory goals and requirements and with its DFCs, the District will attempt to manage District aquifers on a sustainable basis. The District defines sustainability as development, use, and reasonable long-term management of groundwater resources so that those resources can continue to be used by future generations.

3. The District, in cooperation with local municipalities and water supply companies, has established a monitoring well network and an aquifer water level monitoring program (the "Monitoring Well Program"), and a system for reporting water levels. The District will measure and monitor water levels to detect declines, to allow the District to consider appropriate action to avoid or minimize depletion of the water supply and to maintain or achieve water levels which are consistent with the DFCs. For instance, it may be necessary for the District to reduce the amount of groundwater that non-exempt users pump to avoid or to minimize depletion of the groundwater supply in specified areas within the District and to achieve water levels which are consistent with the DFCs.

4. This Management Plan and the District rules, as amended from time to time, will be based on the best technical advice available to the District. The District will undertake investigations of the District's groundwater resources, including through the Monitoring Well Program, and will cooperate with investigations of groundwater resources and the interaction of groundwater and surface water by TWDB, TCEQ, GMA 12 or other entities, and will make the results of such investigations available to the Board and to the public. The District recognizes that good long-term groundwater management is built on availability of high-quality data, improved understanding of groundwater flow systems, and increasingly better understanding of the interaction between groundwater and surface water. The District recognizes the uncertainties

inherent in long-term management of groundwater resources created by such factors as climate, drought, changes in exempt uses such as mining and oil and gas development, socioeconomic change and population growth, and also recognizes the uncertainties created by the geology and other characteristics of relevant aquifers. The District believes that uncertainties affecting decision-making can be reduced to some extent by reliance on high-quality data.

5. The District will treat all citizens equally. The District may exercise its discretion to consider unique situations or local conditions and the potential for adverse economic and environmental consequences, guided by this Management Plan, and such exercise of discretion shall not be construed as limiting the power and authority of the District.

6. In implementing this Management Plan, the District will seek cooperation from municipalities, water supply companies, irrigators, and other groundwater users, and will also seek to cooperate and coordinate with state and regional water planning authorities and agencies as well as the districts of GMA 12.

7. In support of its mission of conserving, protecting and preserving interests in groundwater within Bastrop and Lee counties, while addressing statutory goals and requirements, the Board may, among other actions, after notice and hearing, amend or revoke any permit for non-compliance, or reduce the groundwater production authorized by permit for the purpose of managing District groundwater resources consistent with the DFCs. The District may also enforce the terms and conditions of permits and District rules by fine and/or by enjoining the permit holder in a court of competent jurisdiction as provided by § 36.102.

The District's Board of Directors will implement this Management Plan and any necessary changes or modifications to adhere to the policy stated herein.

The rules are on the District website: <http://www.lostpineswater.org/Forms----Documents.aspx>.

### **Section 3. TIME PERIOD COVERED BY THE MANAGEMENT PLAN**

This Management Plan was adopted September 15, 2004, revised August 10, 2010, found administratively complete by TWDB on October 25, 2010, and revised September 19, 2012. The District may review the Management Plan annually, but at least once every five years, the District will review and re-adopt its Management Plan, with or without change, and submit it to TWDB pursuant to Chapter 36.<sup>2</sup>

### **Section 4. GOVERNANCE**

**Board of Directors.** The District is governed by a ten-member Board of Directors, five appointed by the Bastrop County Judge and five appointed by the Lee County Judge, qualified

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<sup>2</sup> See § 36.1072.

and sworn as required by law. After the initial appointment of directors and the setting of staggered terms, each Director is appointed to a four-year term beginning in January. Thus, every second year, following the initial appointment of directors, two directors are appointed by the Bastrop County Judge and two Directors are appointed by the Lee County Judge. The succeeding second year, three Directors are appointed by the Lee County Judge and three Directors are appointed by the Bastrop County Judge.

Each year, in January, the Board selects one of its members to serve as president to preside over Board meetings and proceedings, a second member to serve as vice-president to preside over Board meetings and proceedings in the absence or recusal of the president, and a third to serve as secretary-treasurer to keep a true and correct account of all proceedings of the Board. The Board may appoint an assistant secretary to assist the secretary-treasurer. Unless a vacancy occurs, members of the Board and officers serve until their successors are appointed, qualified to hold office, and sworn in. In the event of a vacancy in any office, the Board shall select one of its members to fill out the term of office. In the absence of a General Manager, the president of the Board will serve as General Manager.

The president may establish committees for formulation of policy recommendations to the Board and may appoint the chair and membership of the committees, which may include members of the Board and/or non-board members. Committee members serve at the pleasure of the president.

The Board will hold regular meetings at least four times a year on a day and at a place that the Board may establish from time to time by Board resolution. At the request of the president, or by written request of at least three Board members, the Board may hold a special meeting. The business of the District will be conducted at regular or special Board meetings when a quorum is present. All Board meetings will be conducted in accordance with the Open Meetings Act.

**Daily Operations.** The Board may employ a person to be the General Manager, with full authority to manage and to operate the affairs of the District, subject only to direction provided by the Board through policies and orders adopted by the Board. The General Manager may, with Board approval, employ all persons necessary to carry out daily operations. The General Manager may delegate duties as may be necessary to efficiently and expeditiously accomplish those duties; provided that no delegation will relieve the General Manager from his or her responsibilities under the Texas Water Code, the District enabling act, District rules, or District policies, orders and permits.

The Board shall establish by resolution an official office of the District, and the office will maintain regular business hours.

## **Section 5. DISTRICT DFCs (DESIRED FUTURE CONDITIONS)**

On August 10, 2010, the GMA-12 DFCs were adopted for the relevant aquifers, i.e., the major and minor Aquifers within the District other than the Yegua-Jackson (the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers) and submitted to TWDB. The Yegua-Jackson Aquifer was considered not relevant for the District and a DFC was not established for it. See **Appendix A**. On September 8, 2010, TWDB notified GMA 12 that the GMA-12 DFC submission was administratively complete. In adopting and submitting the GMA-12 DFCs, the

District stated that in its Management Plan it would further divide the recommended DFCs by county. *Id.* The District's DFC's by county and by aquifer, are as follows:

### Desired Future Conditions

Aquifer	County	District-wide DFC in 2060 (Average drawdown in feet)	DFC in 2060 (County-wide average drawdown in feet)
Sparta	Bastrop	7	7
	Lee	-	7
Queen City	Bastrop	13	10
	Lee	-	15
Carrizo	Bastrop	47	30
	Lee	-	60
Calvert Bluff	Bastrop	99	65
	Lee	-	135
Simsboro	Bastrop	237	145
	Lee	-	345
Hooper	Bastrop	129	90
	Lee	-	180

Pursuant to § 36.1071(h), the District used information from the applicable groundwater availability model (GAM) as a joint planning tool with GMA 12 for DFC development and in developing this Management Plan. The applicable GAM for the District was developed for the central parts of the Queen City, Sparta, and Carrizo-Wilcox aquifers<sup>3</sup>.

## Section 6. MODELED AVAILABLE GROUNDWATER ESTIMATE

Pursuant to the 2011 amendment of § 36.1071(e)(3), TWDB provided estimates of modeled available groundwater totals for the District, based on the DFCs established by GMA 12 under § 36.108. They are presented below in Table 1.

<sup>3</sup> Kelley, V. A., Deeds, N.E., Fryar, D.G., and Nicot, J.P., 2004, Groundwater availability models for the Queen City and Sparta aquifers: Contract report to the Texas Water Development Board.

**Table 1 - Modeled Available Groundwater Totals for the District**

All values are in acre-feet/year

AQUIFER	2010	2020	2030	2040	2050	2060
Sparta	2,405	2,236	5,315	1,980	1,885	1,877
Queen City	1,315	1,215	2,880	1,144	1,134	1,133
Carrizo	6,610	7,618	8,358	9,263	11,800	12,052
Calvert Bluff	1,785	2,226	2,633	3,183	3,912	3,985
Simsboro	29,556	32,731	31,362	34,916	36,544	37,249
Hooper	1,174	1,427	1,715	2,095	2,589	2,592
TOTAL	42,845	47,453	52,263	52,581	57,864	58,888

TWDB GAM Runs 10-044 MAG, 10-045 MAG, and 10-046 MAG.

## Section 7. DISTRICT WATER RESOURCES

This section presents information on District groundwater and surface water resources. The estimates below in Tables 2 and 6-9 comprise data from the TWDB 2012 State Water Plan Dataset for the District. The estimates in Tables 3-5 are from TWDB GAM Run 10-014, May 28, 2010, pursuant to Texas Water Code § 36.1071(h) (a district shall use groundwater availability modeling information to provide certain required information).

The District considered and used all information referenced in this Management Plan, including without limitation the information in Table 8 (water supply needs) and Table 9 (water supply management strategies).

**Table 2 - Estimated Historical Water Use (Groundwater and Surface Water)<sup>4</sup>**

BASTROP COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	2,524	205	0	927	2	231	3,889
	SW	0	0	5,411	2,088	0	1,808	9,307
1980	GW	3,861	173	0	749	0	616	5,399
	SW	0	0	4,249	2,640	200	864	7,953
1984	GW	5,155	169	0	325	10	624	6,283
	SW	1	56	4,002	805	0	937	5,801
1985	GW	4,959	165	0	105	10	562	5,801
	SW	0	390	4,500	260	0	844	5,994
1986	GW	5,043	166	0	51	10	524	5,794
	SW	0	41	3,849	200	0	786	4,876
1987	GW	5,798	62	0	51	12	558	6,481

<sup>4</sup> Groundwater and surface water use estimates are currently unavailable for 2005 and 2010. TWDB staff anticipates the calculation and posting of such estimates at a later date.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
	SW	0	6	3,960	200	0	838	5,004
1988	GW	6,083	30	0	75	10	591	6,789
	SW	0	3	5,506	300	6	888	6,703
1989	GW	6,432	28	0	273	10	581	7,324
	SW	0	2	4,052	273	6	871	5,204
1990	GW	6,247	26	0	323	10	572	7,178
	SW	0	1	2,967	322	6	859	4,155
1991	GW	5,978	64	0	322	26	585	6,975
	SW	0	0	2,911	322	6	879	4,118
1992	GW	5,876	43	0	323	20	610	6,872
	SW	0	0	2,694	323	12	915	3,944
1993	GW	6,577	69	0	181	20	609	7,456
	SW	0	0	3,810	120	12	915	4,857
1994	GW	6,542	72	0	423	20	632	7,689
	SW	1	0	3,468	273	9	948	4,699
1995	GW	6,755	72	0	443	22	598	7,890
	SW	0	0	3,904	295	6	897	5,102
1996	GW	7,883	81	0	443	22	704	9,133
	SW	1	0	5,715	295	6	1,056	7,073
1997	GW	7,470	71	0	395	22	510	8,468
	SW	1	0	2,638	263	6	764	3,672
1998	GW	8,451	31	0	343	22	585	9,432
	SW	0	0	3,588	228	6	878	4,700
1999	GW	8,892	41	0	234	22	629	9,818
	SW	2	0	3,721	162	6	945	4,836
2000	GW	8,753	55	0	904	22	609	10,343
	SW	3	0	1,944	942	6	913	3,808
2001	GW	8,492	43	0	834	12	403	9,784
	SW	87	0	3,417	869	28	1,136	5,537
2002	GW	7,990	47	0	834	12	402	9,285
	SW	82	0	2,944	869	28	1,135	5,058
2003	GW	8,047	90	0	400	12	437	8,986
	SW	83	0	2,944	0	28	1,231	4,286
2004	GW	8,803	59	0	539	12	441	9,854
	SW	90	0	2,944	0	28	1,242	4,304
2006	GW	11,335	97	0	596	0	325	12,353
	SW	2	8	3,514	0	0	1,301	4,825
2007	GW	9,740	66	0	365	0	231	10,402
	SW	2	30	2,019	0	0	924	2,975
2008	GW	11,060	70	0	371	0	267	11,768
	SW	19	12	7,306	0	0	1,066	8,403
2009	GW	10,986	79	0	2,915	2,117	257	16,354
	SW	0	10	4,535	0	48	1,027	5,620

## LEE COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	1,014	35	0	334	0	229	1,612
	SW	0	0	0	349	0	1,340	1,689
1980	GW	1,936	22	0	250	2	646	2,856
	SW	0	0	0	251	0	850	1,101
1984	GW	2,474	23	0	35	0	590	3,122
	SW	0	0	0	105	0	886	991
1985	GW	2,605	23	0	55	0	527	3,210
	SW	0	0	0	168	0	791	959
1986	GW	2,655	27	0	56	0	528	3,266
	SW	0	0	0	169	0	792	961
1987	GW	2,731	4	0	56	0	555	3,346
	SW	0	0	0	169	0	834	1,003
1988	GW	2,823	6	0	56	0	577	3,462
	SW	0	0	0	169	0	865	1,034
1989	GW	2,710	6	0	172	0	567	3,455
	SW	0	0	0	126	0	851	977
1990	GW	2,991	5	0	164	0	559	3,719
	SW	0	0	0	119	0	839	958
1991	GW	2,822	6	0	164	16	572	3,580
	SW	0	0	0	119	0	858	977
1992	GW	2,926	0	0	128	16	685	3,755
	SW	0	0	0	93	0	1,026	1,119
1993	GW	3,116	0	0	263	16	751	4,146
	SW	0	0	0	155	0	1,127	1,282
1994	GW	3,038	4	0	379	16	747	4,184
	SW	0	0	0	186	0	1,121	1,307
1995	GW	3,007	4	0	336	16	773	4,136
	SW	0	0	0	197	0	1,160	1,357
1996	GW	3,291	4	0	322	16	692	4,325
	SW	0	0	0	189	0	1,038	1,227
1997	GW	3,132	4	0	322	16	638	4,112
	SW	0	0	0	189	0	957	1,146
1998	GW	3,405	6	0	322	16	602	4,351
	SW	0	0	0	189	0	903	1,092
1999	GW	3,369	11	0	453	16	636	4,485
	SW	0	0	0	266	0	955	1,221
2000	GW	3,336	11	0	495	16	619	4,477
	SW	0	0	0	470	0	928	1,398
2001	GW	2,977	13	0	661	8	454	4,113
	SW	0	0	0	610	0	1,107	1,717
2002	GW	2,833	16	0	688	8	467	4,012
	SW	0	0	0	634	0	1,140	1,774
2003	GW	2,880	12	0	571	8	471	3,942
	SW	0	0	0	8	0	1,148	1,156
2004	GW	3,540	13	0	580	8	481	4,622

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
	SW	0	0	0	3	0	1,172	1,175
2006	GW	2,338	15	0	426	0	628	3,407
	SW	1	0	0	0	0	1,465	1,466
2007	GW	1,831	11	0	116	0	704	2,662
	SW	1	0	0	56	0	1,643	1,700
2008	GW	2,319	7	0	319	0	439	3,084
	SW	7	0	0	0	0	1,025	1,032
2009	GW	2,383	6	0	966	2,095	464	5,914
	SW	0	0	0	0	0	1,084	1,084

## A. GROUNDWATER RESOURCES

Except for a small area along the northwest border of Bastrop County south of the Colorado River that is not an aquifer, the geologic units exposed in Bastrop and Lee counties are Tertiary and Quaternary in age. All the Tertiary age geologic units dip or tilt to the southeast, and are composed of varying portions of sand, silt, and clay. From oldest (westernmost) to youngest (easternmost), these exposed Tertiary geologic units include the Midway Group, the Wilcox Group, the Carrizo Formation, the Reklaw Formation, the Queen City Sand, the Weches Formation, the Sparta Sand, the Cook Mountain Formation, the Yegua Formation, and the Jackson Group. Quaternary geologic units include river or stream alluvium, such as along the Colorado River and Middle Yegua Creek, as well as topographically higher terrace deposits.

### AQUIFERS

Most of these geologic formations found within the District will yield some quantity of water to wells, as shown by the stratigraphic section below.

**Figure 1 - Stratigraphic Section**

Aquifer or Unit	Maximum Thickness (feet)	Description	Water-Bearing Properties
Alluvium	100	Sand, gravel, silt, and clay	Yields small to moderate quantities of fresh to slightly saline water to wells
Yegua-Jackson	900	Medium to fine sand, silt, clay, some lignite	Yields small to moderate quantities of fresh to slightly saline water to wells
Cook Mountain Formation	400	Clay with some sand	Yields small quantities of fresh to slightly saline water to wells
Sparta Sand	170	Fine to medium sand with some clay and silt	Yields small to large quantities of fresh to slightly saline water to wells

Weches Greensand	100	Glauconitic clay and sand	Not known to yield significant quantities of water to wells
Queen City Sand	600	Fine to medium sand, clay, with some conglomerate	Yields small to large quantities of fresh to slightly saline water to wells
Reklaw Formation	100	Glauconitic sand and silt (lower) and clay with some sand (upper)	Yields very small water to wells in upper part of formation
Carrizo Sand	600	Fine to coarse sand with some sandstone and clay	Capable of yielding large quantities of water to wells
Calvert Bluff Formation (Wilcox Group)	1500	Fine to coarse grained sand and sandstone with some silt, mudstone, and lignite	Capable of yielding moderate quantities of water to wells
Simsboro Sand (Wilcox Group)	800	Massive, fine to medium, well sorted sand	Capable of yielding large quantities of water to wells
Hooper Formation (Wilcox Group)	1300	Predominantly mudstone, with some sand and lignite.	Capable of yielding small to moderate quantities of water to wells
Midway Group	?	Mostly shale	Not known to yield significant quantities of water to wells

However, only the Carrizo, Wilcox, Queen City, Sparta, and Colorado River alluvium aquifers yield sufficient quantities to have wells that have been permitted by the District. Each of these geologic units has different water-bearing characteristics and capabilities, and each is described separately below.

### **Carrizo-Wilcox Aquifer**

The Carrizo Formation and the Wilcox Group (which includes the Hooper Formation (lower), the Simsboro Formation (middle), and the Calvert Bluff Formation (upper)) form a single, hydrologically connected aquifer system recognized by the State as the Carrizo-Wilcox Aquifer. The Carrizo-Wilcox Aquifer is defined as a major aquifer by the state of Texas, and within Texas it stretches in a wide band from the Rio Grande in South Texas to Louisiana. The Carrizo-Wilcox crops out through the middle of Bastrop County and in the far northeastern portion of Lee County. Wells are completed in the Carrizo-Wilcox Aquifer in and near the outcrop of each of the four individual aquifer units.

*Hooper Formation* The lowermost aquifer within the Carrizo-Wilcox is the Hooper Formation, which is also generally the least productive of the three Wilcox Group aquifers. The Hooper is used by exempt wells in and near the outcrop area, as well as for municipal purposes by the City of Elgin, Aqua Water Supply Corporation, Manville Water Supply Corporation, and Lee County Water Supply Corporation.

The Hooper is comprised of predominantly mudstone, with varying amounts of sandstone, and some thin lignite beds in the upper part of the formation. The Hooper and the overlying Simsboro and Calvert Bluff Formations are no longer distinguishable as individual units much farther west than the Colorado River. Beyond this point the Wilcox Group aquifer is referred to as undifferentiated Wilcox.

The Hooper crops out in a band approximately 3 miles wide in northwestern Bastrop County near the Travis County line, as well as in far western Lee County. From the outcrop, the Hooper dips at a rate of 125 to 200 feet per mile, with the top of the Hooper reaching a maximum depth of more than 5,000 feet in southern Lee County, although wells completed in the Hooper in the District are generally less than 700 feet deep. The Hooper Formation can be up to 1,300 feet thick within the District.

The Hooper Formation produces a small to moderate amount of water to wells, mainly in the outcrop area. Well yields of larger, non-exempt wells are generally between 200 and 350 gpm, although some Hooper wells can yield more than 500 gpm. Water quality of groundwater produced from the Hooper is generally good, although water quality deteriorates farther downdip from the outcrop.

*Simsboro Formation* The middle aquifer within the Wilcox Group is the Simsboro Formation. This aquifer is identifiable only from the middle of Bastrop County and eastward, including all of Lee County, and is a highly productive unit. It is used by numerous exempt wells and by the City of Elgin, Aqua Water Supply Corporation, and Manville Water Supply Corporation for municipal supplies. Water is also produced by Alcoa from the Simsboro as part of its mining operations.

The Simsboro is primarily composed of a massive, fine to coarse-grained sand, with relatively small amounts of silt, clay, and mudstone. The Simsboro crops out in a band two to three miles wide across Bastrop and far northwestern Lee County. From the outcrop, the Simsboro dips at a rate of 125 to 200 feet per mile, with the top of the Simsboro reaching a maximum depth of nearly 4,500 feet in southern Lee County. Wells completed in the Simsboro in the District are generally less than 1,000 feet deep, although wells of more than 1,500 feet have been completed in the District. The Simsboro is up to 800 feet thick within the District, although it is generally less than 500 feet thick.

The Simsboro Formation produces large quantities of fresh to slightly saline groundwater to wells. Wells of over 2,000 gpm have been completed in the Simsboro Formation, and yields of 900 to 1,200 gpm in existing non-exempt wells are common. Water quality of groundwater produced from the Simsboro is good, although water quality deteriorates farther downdip from the outcrop.

*Calvert Bluff Formation* The uppermost aquifer within the Wilcox Group is the Calvert Bluff Formation. The Calvert Bluff is used by numerous exempt wells in and near the outcrop, as well as for irrigation by two non-exempt wells and for municipal purposes by Aqua Water Supply Corporation, Manville Water Supply Corporation, and Bastrop County Water Control Improvement District Nos. 1 and 2.

The Calvert Bluff Formation is comprised primarily of fine to coarse-grained sand and sandstone, interbedded with silt, mudstone, and some lignite. The Calvert Bluff crops out in a band six to eight miles wide in Bastrop and Lee counties, and from the outcrop the Calvert Bluff dips at a rate of 125 to 200 feet per mile. The top of the Calvert Bluff is more than 3,000 feet deep in southern Lee County, although wells completed in the Calvert Bluff within the District are generally less than 1,000 feet deep. The Calvert Bluff is up to 1,500 feet thick within the District.

The Calvert Bluff is more productive than the Hooper but not nearly as productive as the underlying Simsboro or overlying Carrizo aquifers. Typical non-exempt Calvert Bluff well yields within the District are 150 to 350 gpm, although several wells with yields of 500 to 1,000 gpm are present. Water quality in the Calvert Bluff is generally good, although water quality deteriorates farther downdip from the outcrop.

*Carrizo Formation* The uppermost aquifer within the “Carrizo-Wilcox” Aquifer is the Carrizo Formation. The Carrizo is a highly utilized aquifer within the District, with a large number of smaller, exempt wells producing from it in and near the outcrop. In addition, numerous non-exempt wells produce from the Carrizo for municipal purposes, including those operated by the Cities of Lexington, Smithville, and Giddings, as well as by Aqua Water Supply Corporation and Lee County Water Supply Corporation. Some water produced from the Carrizo is also used for irrigation purposes.

The Carrizo Formation is predominantly a fine to coarse-grained massive sand. It crops out in a band one to two miles wide through Bastrop and Lee counties. From the outcrop the Carrizo dips at a rate of about 140 feet per mile when not affected by faulting, with the top of the Carrizo being found at more than 2,500 feet in southern Lee County. The Carrizo can be up to 600 feet thick within the District, but is generally between 300 and 500 feet thick. The Carrizo is a highly productive aquifer throughout much of its extent not only in the District but throughout much of Texas.

Yields of non-exempt Carrizo wells within the District are generally between 400 and 750 gpm, although well yields of up to 1,500 gpm have been observed. Water quality in the Carrizo is good, although, as with most aquifers in the District, water quality deteriorates farther downdip from the outcrop.

### **Queen City Aquifer**

The Queen City Aquifer is defined as a minor aquifer by the state of Texas. It is located stratigraphically above the Carrizo-Wilcox aquifer, between the Reklaw and Weches formations. The Queen City is used by a large number of exempt wells within the District, as well as for municipal purposes by the cities of Lincoln and Giddings, and the Lee County Water Supply Corporation.

The Queen City Formation is comprised of a massive to thin-bedded, fine to medium-grained sandstone with some silt, clay, shale, and lignite. It crops out in a band two to four miles wide across both Bastrop and Lee counties. From the outcrop the Queen City dips at a rate of 70 to 140 feet per mile, with the top of the formation being found at approximately 2,000 feet in southern Lee County. However, most Queen City wells are located in or near the outcrop area, with most being less than 1,400 feet deep. The Queen City is generally between 200 and 600 feet thick within the District.

The Queen City yields small to moderate quantities of fresh to slightly saline water to wells in and near the outcrop. Non-exempt Queen City wells in the District area typically yield between 130 and 250 gpm, although one Queen City well produced more than 450 gpm.

### **Sparta Aquifer**

The Sparta Aquifer is defined as a minor aquifer by the state of Texas. It is located stratigraphically above the Queen City aquifer, between the Weches and Cook Mountain formations. The Sparta is used by exempt wells within the District for domestic and livestock purposes, and for municipal purposes by the Lee County Fresh Water Supply District and Lee County Water Supply Corporation.

The Sparta is primarily a loosely cemented, sand-rich unit, with some interbedded silt and clay. The Sparta crops out in a band one to ten miles wide from southern Bastrop County to northeastern Lee County. From the outcrop the Sparta dips at a rate of approximately 100 feet per mile, with the top of the formation being found at approximately 1,500 feet in southern Lee County. Most Sparta wells are located in or near the outcrop and are less than approximately 500 feet deep. However, one well (59-50-706) is nearly 1,500 feet deep. The Sparta is up to 170 feet thick within the District, and yields small to moderate quantities of fresh to slightly saline water to wells. Yields of non-exempt wells in the District typically range from 100 to 250 gpm. Water quality of groundwater produced from the Sparta is generally good, although, as with other dipping aquifers in the District, water quality deteriorates farther down dip from the outcrop area.

### **Other Aquifers**

*Colorado River Alluvium Aquifer* In addition to the major and minor aquifers described above, the alluvium along the Colorado River also yields significant quantities of water to wells. The Colorado River Alluvium is not defined as a major or a minor aquifer by the State, and a DFC was not established for this aquifer. But this aquifer is used for water for municipal supply by the City of Bastrop, as well as for irrigation purposes, from several non-exempt wells.

The Colorado River Alluvium includes alluvial deposits in river bottom land along the Colorado River. The alluvium generally consists of sand, with some small gravel and disconnected layers of silt and clay. The alluvium can be on one side of the river or on both sides. It is not always connected beneath the river, and the maximum thickness is less than 100 feet. The alluvium along the Colorado River generally yields small to moderate quantities of fresh to slightly saline water.

In addition to the alluvium along the Colorado River, most other streams have some alluvium associated with them. Small, exempt wells may be installed in these very localized alluvial aquifers.

*Trinity Aquifer* The Trinity Aquifer, classified as a major aquifer by the state of Texas, underlies the District. However, it is virtually unused because of the extreme depth and poor water quality of this aquifer with the District. No known wells are completed in the Trinity Aquifer within the District.

*Yegua-Jackson Aquifer* The Yegua-Jackson Aquifer is classified as a minor aquifer by the state of Texas, and is found in the southeastern third of Lee County and a very small part of Bastrop County. The Yegua-Jackson Aquifer is comprised of the Yegua Formation and the Jackson Group. These units consist of interbedded sand, silt, and clay, with some lignite beds.

The thickness of the Yegua-Jackson Aquifer in the District is as much as 900 feet. A few exempt wells are completed in the Yegua-Jackson Aquifer, primarily in Lee County. Within the District, no non-exempt wells are completed in this aquifer, and it is not expected to yield significant quantities of water to wells within the District.

*Midway Group* The Midway Group is located stratigraphically beneath the Wilcox Group. The Midway consists of clay, silt, glauconitic sand, and thin beds of limestone and sandstone and can be more than 800 feet thick. Wells drilled into the Midway outcrop may yield small quantities of slightly to moderately saline water, and a few wells within the District have been installed into the Midway.

*Reklaw Formation* The Reklaw Formation is located stratigraphically between the overlying Carrizo and underlying Queen City Formations. The Reklaw is composed primarily of glauconitic sand and silt, and is about 100 feet thick. It is not considered to be an aquifer by the state of Texas, however a few exempt wells have been completed in the Reklaw within the District, mostly in the outcrop area.

*Weches Formation* The Weches Formation, sometimes referred to as the Weches Greensand, is located between the Queen City and Sparta Formations. The Weches consists of glauconitic shale, some sandstone, and some thin limestone beds, and is about 100 feet thick. It is not considered to be an aquifer by the state of Texas, however a few exempt wells have been completed in the Weches within the District, mostly in the outcrop area.

*Cook Mountain Formation* The Cook Mountain Formation is located stratigraphically above the Sparta Formation and below the Yegua Formation. The Cook Mountain consists primarily of clay, with some lenses of sand, sandstone, limestone, glauconite, and gypsum, and can be as much as 400 feet thick within the District. It is not considered to be an aquifer by the state of Texas, however exempt wells producing very small quantities of fresh to moderately saline groundwater have been completed in the Cook Mountain within the District, mostly in the outcrop area.

## **RECHARGE, DISCHARGE, AND GROUNDWATER FLOW**

Recharge is the addition of water to an aquifer. Recharge to aquifers occurs from direct precipitation on aquifer outcrop at ground surface, from losses from surface water bodies to the underlying aquifer, and from inter-formational leakage between aquifers. Recharge estimates for the major and minor aquifers present within the District are included in **Table 3**.

The amount of recharge that occurs due to direct precipitation appears to be more a function of the specific soils in an area than the amount of precipitation. Recharge of direct precipitation where sandy aquifer units crop out is higher than where the soils and formations at ground surface are clay-dominated. Effective recharge from precipitation, i.e. recharge that moves down dip into the deeper portions of the aquifer and is not discharged to surface streams, is typically only a few percent of average annual rainfall. Leakage between formations accounts for a large component of total recharge to an individual aquifer. Losses from surface water bodies to the underlying aquifers appear to be a minimal source of recharge for most of the aquifers in the District.

Discharge is the loss of water from an aquifer. Before the development of aquifers for groundwater supply purposes, all discharge was natural. This includes discharge to surface water sources such as springs, streams, rivers, and lakes, as well as the removal of groundwater from an aquifer by evapotranspiration and inter-formational leakage. Discharge to surface water bodies is shown in **Table 4**. After the development of District aquifers for supply purposes, most discharge that occurs is to wells. Other sources of anthropogenic discharge may include gravel pits, mining operations, or other activities that intersect the water table.

Groundwater moves from areas of higher hydraulic head to areas of lower hydraulic head, which is from areas of recharge to areas of discharge. Under normal conditions within the District, the movement of water is in a downdip direction. However, these normal, undeveloped conditions are altered by pumpage that occurs in the aquifer. Because pumpage has become the dominant form of discharge from many of the aquifers in the District, groundwater tends to flow towards areas of pumpage. These natural and altered flow patterns result in not only the movement of groundwater across District boundaries, but also between aquifers within the District. **Tables 5 and 6** summarize the amount of water that flows laterally into and out of the District to adjacent districts or counties, and the amount of water that moves vertically between aquifers, respectively.

Negative values in these tables indicate water that is leaving the aquifer noted in the table. These values do not distinguish between fresh, brackish, and saline water, and therefore all flows include all of these water types.

**Table 3 - Estimated precipitation recharge totals for major and minor aquifers**

	<b>Precipitation Recharge (acre- feet/year)</b>
Sparta	10,142
Queen City	7,256
Carrizo- Wilcox	29,604
Trinity	0
Yegua- Jackson	38,859
<b>Total</b>	<b>85,861</b>

Source: TWDB GAM Run 10-014

**Table 4 - Estimated discharge to surface water bodies from major and minor aquifers**

	<b>Surface Water Discharge (acre-feet/year)</b>
Sparta	4,564
Queen City	5,488
Carrizo-Wilcox	32,780
Trinity	0
Yegua-Jackson	35,780
<b>Total</b>	<b>78,612</b>

Source: TWDB GAM Run 10-014

**Table 5A - Estimated flow into and out of District in major and minor aquifers**

	<b>Flow Into District (acre-feet/year)</b>	<b>Flow Out Of District (acre-feet/year)</b>
Sparta	1,299	733
Queen City	670	3,354
Carrizo-Wilcox	14,023	19,713
Trinity	517	661
Yegua-Jackson	5,883	10,155
<b>Total</b>	<b>22,392</b>	<b>34,616</b>

Source: TWDB GAM Run 10-014

**Table 5B - Estimated flow between major/minor and adjacent aquifers**

Figure 1, Stratigraphic Section, lists overlying and underlying aquifers.

	<b>Flow to/from Overlying Aquifer (acre-feet/year)</b>	<b>Flow to/from Underlying Aquifer (acre-feet/year)</b>
Sparta	NA	970
Queen City	-946	-179
Carrizo-Wilcox	1,309	NA
Trinity	NA	NA
Yegua-Jackson	NA	NA
<b>Total</b>	<b>363</b>	<b>791</b>

Source: TWDB GAM Run 10-014. NA= Not applicable per GAM Run 10-014 report.

## **B. SURFACE WATER RESOURCES**

Bastrop and Lee counties lie along the inner edge of the Texas Gulf Coastal Plain. The topography is flat to gently rolling, with elevations ranging from slightly less than 400 feet where the Colorado River exits Bastrop County to slightly more than 650 feet along the Bastrop-Lee county line just north of the upper reaches of West Yegua Creek.

The District lies within three river basins: the Guadalupe, Colorado, and Brazos. The Colorado River bisects Bastrop County, and a majority of Bastrop County and the southern quarter of Lee County lie within the Colorado River Basin and its tributaries, including Cummins, Rabbs, Pin Oak, Big Sandy, Wilbarger, and Cedar Creeks. The remainder of Lee County lies within the Brazos River basin, with the significant tributaries to the Brazos River within Lee County being the Middle and West Yegua Creeks. In addition to the Colorado and Brazos River basins, the extreme southern portion of Bastrop County lies within the Guadalupe River basin, an area drained by Peach Creek.

Currently surface water resources are little used in Bastrop and Lee counties because of lack of availability and because what is available has already been appropriated. Surface water from the Colorado River is used as make-up water for Lake Bastrop (which functions as a cooling pond for the LCRA Sim Gideon power plant), for cooling water for another privately owned power plant in Bastrop County, for some irrigation, and for livestock watering in Lee County. No other District uses of surface water are known. The current availability of surface water within Bastrop and Lee counties is summarized in **Table 6**.

**Table 6 - Projected Surface Water Supplies - 2012 State Water Plan**

**BASTROP COUNTY**

All values are in acre-feet/year

RWPG <sup>5</sup>	WUG <sup>6</sup>	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
K	COUNTY-OTHER	COLORADO	HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	1,634	1,634	1,634	1,634	1,634	1,634
K	IRRIGATION	COLORADO	COLORADO RIVER COMBINED RUN-OF-RIVER IRRIGATION	750	750	750	750	750	750
K	LIVESTOCK	BRAZOS	LIVESTOCK LOCAL SUPPLY	154	154	154	154	154	154
K	LIVESTOCK	COLORADO	LIVESTOCK LOCAL SUPPLY	696	696	696	696	696	696
K	LIVESTOCK	GUADALUPE	LIVESTOCK LOCAL SUPPLY	5	5	5	5	5	5
K	MANUFACTURING	COLORADO	OTHER LOCAL SUPPLY	48	48	48	48	48	48
K	MINING	COLORADO	OTHER LOCAL SUPPLY	10	8	7	7	9	9
K	STEAM ELECTRIC POWER	COLORADO	HIGHLAND LAKES LAKE/RESERVOIR SYSTEM	16,720	16,720	16,720	16,720	16,720	16,720
<b>Sum of Projected Surface Water Supplies (acre-feet/year)</b>				<b>20,017</b>	<b>20,015</b>	<b>20,014</b>	<b>20,014</b>	<b>20,016</b>	<b>20,016</b>

**LEE COUNTY**

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	IRRIGATION	BRAZOS	BRAZOS RIVER COMBINED RUN-OF-RIVER IRRIGATION	181	181	181	181	181	181
G	LIVESTOCK	BRAZOS	LIVESTOCK LOCAL SUPPLY	1,299	1,299	1,299	1,299	1,299	1,299
G	LIVESTOCK	COLORADO	LIVESTOCK LOCAL SUPPLY	248	248	248	248	248	248
<b>Sum of Projected Surface Water Supplies (acre-feet/year)</b>				<b>1,728</b>	<b>1,728</b>	<b>1,728</b>	<b>1,728</b>	<b>1,728</b>	<b>1,728</b>

**C. DISTRICT WATER DEMANDS, NEEDS AND STRATEGIES**

Over the planning horizon, regional water planning data from Region G and Region K shows population in the District is expected to increase from 84,449 in 2010 in Bastrop County to 288,683 in 2060 (an increase of 241.8%), and from 17,789 in 2010 in Lee County to 26,946 in

<sup>5</sup> “RWPG” means Regional Water Planning Group; TWDB divides Texas into 16 distinct planning areas (A through P), with Bastrop County in Region K and Lee County in Region G.

<sup>6</sup> “WUG” means Water User Group, defined by TWDB as one of the following: cities with Census 2000 population equal to or greater than 500; “Select Census Designated Places”; utilities providing more than 280 acre-feet of municipal water per year (average of 250,000 gallons per day); rural/unincorporated areas of municipal water use, summed for each county (referred to as “County-Other”); or manufacturing, steam-electric power, mining, irrigated agriculture and livestock water use by county.

2060 (an increase of 51.5%). In addition, over the planning horizon, total water demands for the District are projected to increase in Bastrop County from 33,532 acre-feet/year in 2010 to 65,266 acre-feet/year in 2060, and to decrease in Lee County from 10,882 acre-feet/year in 2010 to 6,603 acre-feet/year in 2060.<sup>7</sup>

Groundwater currently meets virtually all District demand for municipal, manufacturing, mining, livestock, and irrigation purposes. with surface water used principally to meet some irrigation and all steam-electric demand (cooling water). Currently, the two largest uses are mining and municipal purposes, including rural-domestic use. Almost all mining water use is from the Simsboro Aquifer.

It is important to note that the 2012 State Water Plan Projected Net Water Demands below:

- do not distinguish between projected demands met by surface water and those met by groundwater;
- do not include out-of-District demand for District groundwater;
- do not account for groundwater pumpage within the District that is exported out-of-District (such as demand represented by the District’s current export of groundwater to Fayette County) (demand estimates from Regions G and K submitted to TWDB are for in-District demands only);
- do not account for demand in areas outside the District which are served by pumpage within the District by retail rural water sellers or other special utility districts whose “Certificate of Convenience and Necessity” (CCN) extends beyond District boundaries.

Such demands must be separately evaluated.

The District expects that improvements to the applicable GAM and expanded data from the Monitoring Well Program will allow better understanding of District groundwater resources and better future estimates of groundwater availability as the District seeks to manage the District’s groundwater resources consistently with the DFCs and its mission.

**Table 7 - 2012 State Water Plan Projected Net Water Demands<sup>8</sup>**

**BASTROP COUNTY**

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
K	COUNTY-OTHER	BRAZOS	97	135	171	226	270	325
K	MINING	BRAZOS	10	9	10	11	11	11
K	IRRIGATION	BRAZOS	89	78	68	59	52	45
K	LIVESTOCK	BRAZOS	259	259	259	259	259	259
K	LEE COUNTY WSC	BRAZOS	49	70	87	115	135	163

<sup>7</sup> Data in this paragraph for Bastrop County comes from the Region K Plan 2011, Appendix 2B-1, Comparison Between 2006 RWP [Regional Water Plan] and 2011 RWP, 2B-1, 2B-25. Data for Lee County comes from the 2011 Brazos G Regional Water Plan, Section 2, Current and Projected Population and Water Demand Data for the Region, Tables 2-1 and 2-5 to 2-9.

<sup>8</sup> Demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
K	SMITHVILLE	COLORADO	904	1,233	1,551	2,018	2,398	2,884
K	ELGIN	COLORADO	1,658	2,278	2,847	3,703	4,404	5,295
K	MANUFACTURING	COLORADO	84	101	119	137	155	167
K	STEAM ELECTRIC POWER	COLORADO	12,000	14,000	16,000	18,000	19,500	19,500
K	MINING	COLORADO	5,016	5,018	5,018	18	19	20
K	IRRIGATION	COLORADO	1,521	1,329	1,158	1,013	882	769
K	LIVESTOCK	COLORADO	1,202	1,202	1,202	1,202	1,202	1,202
K	AQUA WSC	COLORADO	5,629	8,046	9,604	12,573	14,939	17,959
K	BASTROP COUNTY WCID #2	COLORADO	341	473	626	801	1,029	1,315
K	CREEDMOOR-MAHA WSC	COLORADO	19	26	33	43	51	62
K	LEE COUNTY WSC	COLORADO	77	108	136	178	211	254
K	MANVILLE WSC	COLORADO	67	94	125	161	207	266
K	POLONIA WSC	COLORADO	18	26	32	41	50	60
K	BASTROP	COLORADO	1,992	2,739	3,459	4,517	5,382	6,469
K	COUNTY-OTHER	COLORADO	2,361	3,304	4,181	5,517	6,608	7,944
K	COUNTY-OTHER	GUADALUPE	63	88	112	147	176	212
K	MINING	GUADALUPE	7	8	8	8	8	8
K	LIVESTOCK	GUADALUPE	61	61	61	61	61	61
K	MANUFACTURING	GUADALUPE	8	10	11	13	14	16
<b>Sum of Projected Water Demands (acre-feet/year)</b>			<b>33,532</b>	<b>40,695</b>	<b>46,878</b>	<b>50,821</b>	<b>58,023</b>	<b>65,266</b>

**LEE COUNTY**

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	LEXINGTON	BRAZOS	270	305	334	357	378	397
G	LEE COUNTY WSC	BRAZOS	721	834	931	1,011	1,079	1,143
G	COUNTY-OTHER	BRAZOS	53	51	49	47	46	46
G	AQUA WSC	BRAZOS	443	494	532	567	596	625
G	GIDDINGS	BRAZOS	617	702	771	824	873	918
G	MINING	BRAZOS	5,450	5,450	5,450	5,450	13	13
G	IRRIGATION	BRAZOS	738	720	700	681	661	643
G	LIVESTOCK	BRAZOS	1,299	1,299	1,299	1,299	1,299	1,299
G	MANVILLE WSC	BRAZOS	19	25	30	34	38	41
G	SOUTHWEST MILAM WSC	BRAZOS	44	52	58	63	67	71
G	COUNTY-OTHER	COLORADO	276	265	256	247	241	239
G	MANUFACTURING	COLORADO	13	14	15	16	17	18
G	IRRIGATION	COLORADO	202	196	191	186	181	175
G	LIVESTOCK	COLORADO	248	248	248	248	248	248
G	GIDDINGS	COLORADO	489	556	611	652	691	727
<b>Sum of Projected Water Demands (acre-feet/year)</b>			<b>10,882</b>	<b>11,211</b>	<b>11,475</b>	<b>11,682</b>	<b>6,428</b>	<b>6,603</b>

**Table 7A - Region K and Region G Projected Demand Detail<sup>9</sup>**

All values are in acre-feet/year

**BASTROP COUNTY**

	2010	2020	2030	2040	2050	2060
MINING	5,033	5,035	5,036	37	38	39
STEAM-ELECTRIC	12,000	14,000	16,000	18,000	19,500	19,500
MANUFACTURING	92	111	130	150	169	183
MUNICIPAL	13,275	18,620	22,964	30,040	35,860	43,208
IRRIGATION	1,610	1,407	1,226	1,072	934	814
LIVESTOCK	1,522	1,522	1,522	1,522	1,522	1,522

**LEE COUNTY**

	2010	2020	2030	2040	2050	2060
MINING	5,450	5,450	5,450	5,450	13	13
STEAM-ELECTRIC	0	0	0	0	0	0
MANUFACTURING	13	14	15	16	17	18
MUNICIPAL	2,932	3,284	3,572	3,802	4,009	4,207
IRRIGATION	940	916	891	867	842	818
LIVESTOCK	1,398	1,547	1,547	1,547	1,547	1,547

Municipal demands are expected to more than triple in Bastrop County and double in Lee County by 2060. Projected changes in the 2012 State Water Plan are relatively insignificant for the District in other demand categories - manufacturing, livestock, and irrigation.

Not reflected in Table 7 are revised estimates of exempt usage (including an increase in mining) which the District provided to TWDB in 2011 in response to its request that districts provide updated data on exempt usage. These are included below as **Table 7B**:

**Table 7B - 2011 Updated Estimates of District Exempt Use**

All values are in acre-feet/year

**Estimated Non-System Residential Demand (District-Wide)**

	2010	2020	2030	2040	2050	2060
<b>Non-System Residential Total</b>	1,533	1,935	2,336	2,774	3,176	3,577

**Estimated Livestock Demand**

	2010	2020	2030	2040	2050	2060
<b>Bastrop County</b>	304	304	304	304	304	304
<b>Lee County</b>	464	464	464	464	464	464
<b>Livestock Total</b>	768	768	768	768	768	768

<sup>9</sup> Data for Bastrop County is from 2011 Region K Regional Water Plan, Appendix 2A; data for Lee County is from 2011 Brazos Region G Regional Water Plan, Tables 2-5 through 2-10.

**Estimated Eagle Ford Shale Demand**

	2010	2020	2030	2040	2050	2060
<b>Bastrop County</b>	0	0	0	0	0	0
<b>Lee County</b>	0	47	249	272	215	159
<b>Eagle Ford Shale Total</b>	0	47	249	272	215	159

**Estimated Mining Demand**

	2010	2020	2030	2040	2050	2060
<b>Bastrop County</b>	2,164	2,613	5,662	5,725	5,810	5,887
<b>Lee County</b>	2,089	2,547	5,749	5,772	5,715	5,659
<b>Mining Total</b>	4,253	5,160	11,411	11,497	11,525	11,546

**Estimated Irrigation Demand (District-wide)**

	2010	2020	2030	2040	2050	2060
<b>Irrigation Total</b>	5,112	5,112	5,112	5,112	5,112	5,112

**Table 8 - 2012 State Water Plan Projected Water Needs<sup>10</sup>**

BASTROP COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
K	AQUA WSC	COLORADO	3,812	1,157	-602	-3,709	-6,221	-9,415
K	BASTROP	COLORADO	-65	-812	-1,532	-2,590	-3,455	-4,542
K	BASTROP COUNTY WCID #2	COLORADO	830	698	545	370	142	-144
K	COUNTY-OTHER	BRAZOS	266	287	315	298	266	211
K	COUNTY-OTHER	COLORADO	524	-663	-1,879	-3,437	-4,528	-5,864
K	COUNTY-OTHER	GUADALUPE	133	108	84	49	20	-16
K	CREEDMOOR-MAHA WSC	COLORADO	0	0	0	0	0	0
K	ELGIN	COLORADO	21	-604	-1,176	-2,033	-2,734	-3,624
K	IRRIGATION	BRAZOS	-61	-50	-40	-31	-24	-17
K	IRRIGATION	COLORADO	-58	134	305	450	581	694
K	LEE COUNTY WSC	BRAZOS	676	655	638	610	590	562
K	LEE COUNTY WSC	COLORADO	1,046	967	870	774	680	550
K	LIVESTOCK	BRAZOS	75	75	75	75	75	75
K	LIVESTOCK	COLORADO	4,816	4,816	4,816	4,816	4,816	4,816
K	LIVESTOCK	GUADALUPE	341	341	341	341	341	341
K	MANUFACTURING	COLORADO	2	-7	-17	-25	-32	-44
K	MANUFACTURING	GUADALUPE	-8	-10	-11	-13	-14	-16
K	MANVILLE WSC	COLORADO	101	79	54	27	0	0
K	MINING	BRAZOS	18	19	18	17	17	17
K	MINING	COLORADO	-4,293	-4,297	-4,298	0	0	0

<sup>10</sup> Negative values (in red) reflect a projected water supply need, positive values a surplus.

K	MINING	GUADALUPE	67	66	66	66	66	66
K	POLONIA WSC	COLORADO	7	-2	-7	-16	-23	-30
K	SMITHVILLE	COLORADO	-74	-311	-526	-946	-1,115	-1,601
K	STEAM ELECTRIC POWER	COLORADO	4,720	2,720	720	-1,280	-2,780	-2,780
<b>Sum of Projected Water Supply Needs (acre-feet/year)</b>			<b>-4,559</b>	<b>-6,756</b>	<b>-10,088</b>	<b>-14,080</b>	<b>-20,926</b>	<b>-28,093</b>

**LEE COUNTY**

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	AQUA WSC	BRAZOS	3	-48	-86	-212	-150	-179
G	COUNTY-OTHER	BRAZOS	2	4	6	8	9	9
G	COUNTY-OTHER	COLORADO	0	11	20	29	35	37
G	GIDDINGS	BRAZOS	361	276	207	154	105	60
G	GIDDINGS	COLORADO	280	213	158	117	78	42
G	IRRIGATION	BRAZOS	140	158	178	197	217	235
G	IRRIGATION	COLORADO	0	6	11	16	21	27
G	LEE COUNTY WSC	BRAZOS	-173	-286	-383	-463	-531	-595
G	LEXINGTON	BRAZOS	420	385	356	333	312	293
G	LIVESTOCK	BRAZOS	0	0	0	0	0	0
G	LIVESTOCK	COLORADO	0	0	0	0	0	0
G	MANUFACTURING	COLORADO	5	4	3	2	1	0
G	MANVILLE WSC	BRAZOS	40	34	29	25	21	18
G	MINING	BRAZOS	0	0	0	0	0	0
G	SOUTHWEST MILAM WSC	BRAZOS	3	-5	-11	-15	-19	-23
<b>Sum of Projected Water Supply Needs (acre-feet/year)</b>			<b>-173</b>	<b>-339</b>	<b>-480</b>	<b>-599</b>	<b>-700</b>	<b>-797</b>

**Table 9 - Projected Water Management Strategies - 2012 State Water Plan Data<sup>11</sup>**

**BASTROP COUNTY**  
WUG, Basin (RWPG)

All values are in acre-feet/year

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
<b>AQUA WSC, COLORADO (K)</b>							
ADDITIONAL MUNICIPAL CONSERVATION	CONSERVATION [BASTROP]	0	0	0	122	396	908
DROUGHT MANAGEMENT	DROUGHT MANAGEMENT [BASTROP]	0	0	0	0	0	898
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	0	602	3,709	6,109	7,850
<b>BASTROP, COLORADO (K)</b>							
EXPANSION OF OTHER AQUIFER	OTHER AQUIFER [BASTROP]	0	416	777	1,366	2,017	2,814
MUNICIPAL CONSERVATION	CONSERVATION [BASTROP]	146	396	755	1,224	1,438	1,728

<sup>11</sup> As described in the 2012 State Water Plan, “[R]egional water planning groups evaluate and recommend water management strategies to meet the needs or water during a severe drought.”

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
<b>BASTROP COUNTY WCID #2, COLORADO (K)</b>							
EXPANSION OF CARRIZO-WILCOX AQUIFER [BASTROP]	0	0	0	0	0	0	144
<b>COUNTY-OTHER, COLORADO (K)</b>							
ADDITIONAL MUNICIPAL CONSERVATION	CONSERVATION [BASTROP]	0	0	0	400	631	936
DEVELOPMENT OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	0	0	0	975	1,230
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	663	1,879	3,037	2,922	3,700
<b>COUNTY-OTHER, GUADALUPE (K)</b>							
DEVELOPMENT OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	0	0	0	0	16
<b>ELGIN, COLORADO (K)</b>							
DROUGHT MANAGEMENT	DROUGHT MANAGEMENT [BASTROP]	0	0	0	0	0	265
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	525	1,136	2,033	2,734	400
MUNICIPAL CONSERVATION	CONSERVATION [BASTROP]	91	79	40	0	0	0
NEW LCRA CONTRACTS	COLORADO RIVER COMBINED RUN-OF-RIVER - LCRA SUPPLY REALLOCATION [TRAVIS]	0	0	0	0	0	3,000
<b>IRRIGATION, BRAZOS (K)</b>							
EXPANSION OF QUEEN CITY AQUIFER	QUEEN CITY AQUIFER [BASTROP]	40	40	40	31	24	17
TEMPORARY DROUGHT PERIOD USE OF QUEEN CITY AQUIFER	QUEEN CITY AQUIFER [BASTROP]	21	10	0	0	0	0
<b>IRRIGATION, COLORADO (K)</b>							
EXPANSION OF QUEEN CITY AQUIFER	QUEEN CITY AQUIFER [BASTROP]	58	0	0	0	0	0
<b>MANUFACTURING, COLORADO (K)</b>							
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	7	17	25	32	44
<b>MANUFACTURING, GUADALUPE (K)</b>							
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	8	10	11	13	14	16
<b>MINING, COLORADO (K)</b>							
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	4,293	4,297	4,298	0	0	0
<b>POLONIA WSC, COLORADO (K)</b>							
EXPANSION OF CARRIZO-WILCOX AQUIFER	CARRIZO-WILCOX AQUIFER [BASTROP]	0	2	7	16	23	30
<b>SMITHVILLE, COLORADO (K)</b>							
DEVELOPMENT OF QUEEN CITY AQUIFER	QUEEN CITY AQUIFER [BASTROP]	0	0	0	0	0	580
DROUGHT MANAGEMENT	DROUGHT MANAGEMENT [BASTROP]	0	0	0	0	0	288
EXPANSION OF CARRIZO-	CARRIZO-WILCOX	49	311	526	946	1,115	733

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
WILCOX AQUIFER	AQUIFER [BASTROP]						
MUNICIPAL CONSERVATION	CONSERVATION [BASTROP]	25	0	0	0	0	0
<b>STEAM ELECTRIC POWER, COLORADO (K)</b>							
AMEND LCRA CONTRACT	COLORADO RIVER COMBINED RUN-OF-RIVER - LCRA SUPPLY REALLOCATION [TRAVIS]	0	0	0	1,280	2,780	2,780
<b>Sum of Projected Water Management Strategies (acre-feet/year)</b>		<b>4,731</b>	<b>6,756</b>	<b>10,088</b>	<b>14,202</b>	<b>21,210</b>	<b>28,377</b>

LEE COUNTY  
WUG, Basin (RWPG)

All values are in acre-feet/year

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
<b>AQUA WSC, BRAZOS (G)</b>							
ADDITIONAL CARRIZO AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	CARRIZO-WILCOX AQUIFER [LEE]	0	388	373	355	336	315
<b>LEE COUNTY WSC, BRAZOS (G)</b>							
ADDITIONAL CARRIZO AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	CARRIZO-WILCOX AQUIFER [LEE]	806	806	806	806	806	806
<b>SOUTHWEST MILAM WSC, BRAZOS (G)</b>							
ADDITIONAL CARRIZO AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	CARRIZO-WILCOX AQUIFER [BURLESON]	0	5	11	15	19	23
<b>Sum of Projected Water Management Strategies (acre-feet/year)</b>		<b>806</b>	<b>1,199</b>	<b>1,190</b>	<b>1,176</b>	<b>1,161</b>	<b>1,144</b>

## Section 8. MANAGEMENT GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS

### A. Statutory Goals.

#### **GOAL 1: Provide the most efficient use of groundwater.**

Management Objective 1.1: The District will develop and evaluate a schedule for expanding the monitoring well network in the Monitoring Well Program from the current seven wells and will measure and record water levels in the monitoring wells to provide groundwater use data.

Performance Standard: The District will annually evaluate and report to the Board on the monitoring well network, and will include monitoring well water level data in a hydrologic data study to be provided annually to the Board.

Management Objective 1.2: The District will make available to the public information on efficient use of groundwater, at the District office, on the District website, and/or by public workshops or other presentations.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, on information on efficient use of groundwater which has

been made available, identifying the publications and the number and dates of any public workshops or other presentations.

**GOAL 2: Controlling and preventing waste of groundwater.**

Management Objective 2.1: The District will make available to the public information on controlling and preventing waste of groundwater, at the District office, on the District website, or by public workshops or other presentations.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, on information on efficient use of groundwater which has been made available, identifying the publications and the number and dates of any public workshops or other presentations.

Management Objective 2.2: The District will document and promptly report to the relevant water supply entity any water leaks from pipelines or distribution systems which are noted or reported to the District.

Performance Standard: The District will report annually to the Board, in the Annual Report or otherwise, any leaks noted and reported.

**GOAL 3: Controlling and preventing subsidence:** Under current conditions this goal is not applicable to the District.

**GOAL 4: Address conjunctive surface water management issues.**

Management Objective 4.1: The District will encourage the use of surface water supplies, where available and practical, to meet the needs of specific user groups within the District.

Performance Standard: The District will participate at least annually in the Region G and Region K Regional Water Planning processes, encourage the development of surface water supplies where appropriate, and document any such activity in the Annual Report.

**GOAL 5: Address natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater.**

Management Objective 5.1: The District will make available to the public at the District Office and/or on the District website or at public meetings or presentations information on issues that impact use and availability of groundwater and are impacted by groundwater use, which may include without limitation such issues as drought, mining, endangered species, District hydrologic data, out-of-District export of groundwater, protection of endangered species, and the spread of phreatophytic vegetation.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, information made available on natural resource issues that impact the use and availability of groundwater and are impacted by the use of groundwater, identifying the publications and the number and dates of any public workshops or other presentations.

Management Objective 5.2: The District will produce a hydrologic data report discussing the status of groundwater use, availability, and water levels within the District, including information on well registrations for exempt wells and permits for non-exempt wells.

Performance Standard: The hydrologic data report will be presented annually to the Board and, upon review and acceptance by the Board, made available to the public

**GOAL 6: Address drought conditions.**

Management Objective 6.1: The District will monitor information on drought severity and provide a link to the drought information on the District website.

Performance Standard: The District will monitor a public source on local drought conditions, such as <http://www.twdb.state.tx.us/data/drought/>, make the information available to the public on the District website, and report annually to the Board on the status of this objective in the Annual Report or otherwise.

Management Objective 6.2. The District will develop and implement a Drought Management Strategy Plan within five years of the adoption and approval of this Management Plan, including drought stage categories and notification requirements for affected permittees.

Performance Standard: The Drought Management Strategy Plan will be developed and implemented within five years of the adoption and approval of this Management Plan, with status reported annually to the Board in the Annual Report or otherwise.

Management Objective 6.3. The District will monitor District monitoring wells at specified intervals.

Performance Standard: A summary of water levels in District monitoring wells will be provided annually to the Board in the hydrological data report.

**GOAL 7: Address conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, or brush control, where appropriate and cost-effective.**

Recharge enhancement: The District does not currently have the financial resources to buy property and construct recharge structures. Therefore, based on current conditions, this goal is not currently applicable.

Precipitation enhancement: The District does not know of any precipitation enhancement activity currently applicable to the District; this goal is not currently applicable.

Management Objective 7.1: The District will make available to the public at the District office and/or on the District website information on water conservation on topics such as advances in plumbing fixtures that conserve water, xeriscaping, and other related subjects, where appropriate and cost-effective, identified by the District.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, on information on conservation which has been made available, identifying the information and the number and dates of any public workshops or other presentations.

Management Objective 7.2. The District will make available to the public at the District office and/or on the District website information concerning rainwater harvesting where appropriate and cost effective, including one or more publications related to advances in rainwater harvesting or any other related subject identified by the District.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, on information on rainwater harvesting which has been made available, identifying the information and the number and dates of any public workshops or other presentations.

Management Objective 7.3. The District will make available to the public information concerning brush control where appropriate and cost effective, including on topics related to brush control or any other related subject identified by the District.

Performance Standard: The General Manager will report annually to the Board, in the Annual Report or otherwise, on information on brush control which has been made available, identifying the information and the number and dates of any public workshops or other presentations.

**GOAL 8: Address desired future conditions (DFCs) of the groundwater resources established pursuant to § 36.108.**

Management Objective 8.1: The District will include in the hydrologic data report information on the consistency of water levels with DFCs, including by county.

Performance Standard: The hydrologic data report will be updated annually, will include information on the consistency of water levels with DFCs, including by county, and will be presented annually to the Board and, upon review and acceptance by the Board, made available to the public.

Management Objective 8.2: The District will regularly assess whether or not management zones should be established within its counties, or, if established, modified.

Performance Standard: The General Manager will at least every five years assess and report to the Board whether management zones should be established within its counties, or, if established, modified.

## **B. District-Specific Goals**

### **GOAL: Provide public education on groundwater resources.**

Management Objective: The District will make available to the public, with a focus on children, information related to the occurrence, distribution, behavior, and use of groundwater.

Performance Standard: At least once each year in each county of the District, the District will present a program dealing with the above matters at a public school.

### **GOAL: Register all wells within District boundaries.**

Management Objective: The District will register all exempt wells drilled since the District Rules became effective and work towards registering all pre-existing exempt wells.

Performance Standard: The District will encourage registration of newly drilled exempt wells by refunding the drilling permit fee upon submittal of completion reports, well logs, and well registration materials. Because registration of exempt wells existing prior to the effective date of District rules is voluntary, the General Manager or the General Manager's designated representative will note the existence of unregistered wells, locate such wells on a map as best possible, and visit with the landowner, if possible, to encourage registration of the wells. The District will document such attempts at the District office.

### **GOAL: Publicize operating permit requirements**

Management Objective: The District will publicize the requirement for operating permits for non-exempt wells, not otherwise excluded, and notify operating permit holders of the need to renew their operating permit at least sixty days prior to expiration.

Performance Standard: At least annually, the District will notify all known water-well drillers and pump installers operating in the District of the requirement for owners of non-exempt wells, not otherwise excluded, to obtain an operating permit and the requirement that the driller and/or pump installer insure that no non-exempt well, not otherwise excluded, is placed into service within the District without an operating permit. Such notice may be by publication in one or more newspapers of general circulation in Bastrop and Lee counties.

### **GOAL: Publicize transport permit requirements**

Management Objective: The District will publicize the requirement for transport permits and to notify holders of transport permits of the need to renew their transfer permit prior to expiration.

Performance Standard: At least annually, the District shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties a publication

including or related to the requirement to obtain a transport permit to transport groundwater out of the District.

**GOAL: Timely process operating permits and transport permits.**

Management Objective: The District will endeavor to set an application on the agenda for a Board meeting within sixty (60) days of the date on which the General Manager determines that an application is Administratively Complete as defined by District rules.

Performance Standard: On an annual basis the District will track the dates on which applications and components of requested information are received, the dates on which (following technical review) an application is determined to be administratively complete, and the dates on which the Board considers applications. For any permit application taking longer than sixty days to process, the General Manager will cause a brief comment to be included in the files as to the reason for the delay. The General Manager will include an annual summary of permit application tracking in the Annual Report. Upon review and approval of the Annual Report, the District will make it available for public review at the District office.

**GOAL: Maintain a database of registration of exempt wells, operating permits of non-exempt wells, and transport permits, permitting development of spacing and completion information for District wells and other information which facilitates management of groundwater consistent with DFCs.**

Management Objective: The District will maintain a database of each registration of an exempt well, each operating permit for a non-exempt well, and each transport permit, such that the District can generate plots of the locations of each registered and permitted well, access available completion and other relevant information for wells, and compute distances between the wells.

Performance Standard: Data on each registration of an exempt well, each operating permit for a non-exempt well, and each transport permit shall be entered in the database within sixty (60) days of issuance of the operating permit or registration. A summary of exempt wells will be provided in the annual hydrological data report.

## **Section 9. DISTRICT CERTIFICATIONS**

### **A. Regional Cooperation and Coordination**

Evidence of coordination by the District with the relevant surface water entities in its boundaries is provided in Appendix B. In addition:

*Lower Colorado River Regional Planning Group (Region K).* The District regularly coordinates with Region K by participating at regional planning meetings and by written and verbal communication as needed.

*Brazos River Regional Planning Group (Region G).* The District regularly coordinates and communicates with Region G. A District representative commonly attends Region G planning meetings.

*Lower Colorado River Authority (LCRA).* The District communicates with LCRA through the Region K planning group and directly as needed. The District will participate when regular communication begins on conjunctive use of surface and groundwater (which has not occurred to date in Bastrop and Lee counties).

*Brazos River Authority (BRA).* The District communicates with BRA through the Region G planning group and directly as needed. BRA representatives commonly attend District Board meetings. The District will participate when regular communication begins on conjunctive use of surface and groundwater (which has not occurred to date in Bastrop and Lee counties).

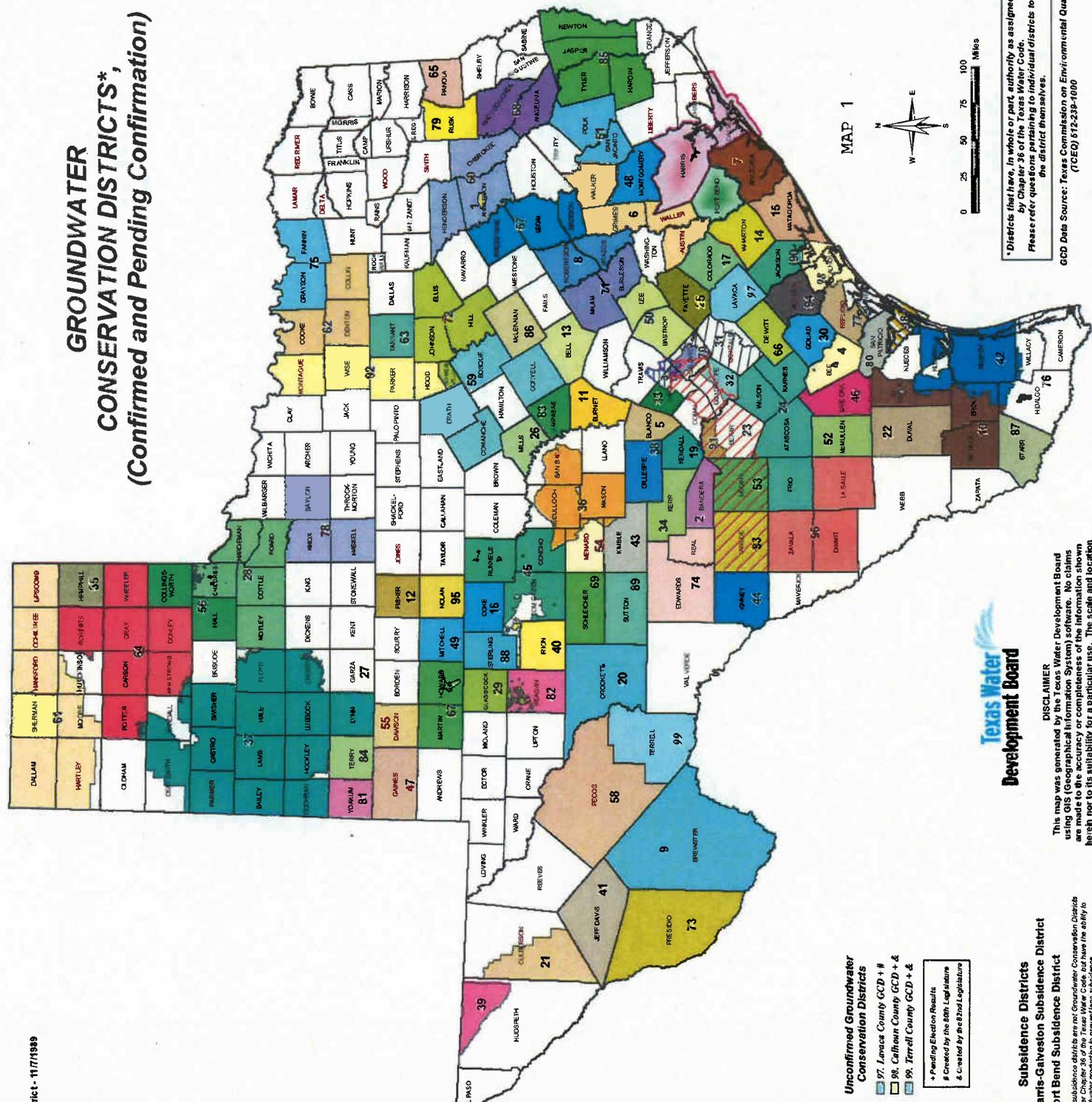
### **B. District's Resolution Adopting Management Plan**

Appendix C contains a certified copy of the District resolution adopting this Management Plan.

### **C. Evidence of Public Notice and Hearing of Management Plan**

Appendix D contains evidence of public notice and hearing prior to adoption of this Management Plan.

# GROUNDWATER CONSERVATION DISTRICTS\* (Confirmed and Pending Confirmation)



- Unconfirmed Groundwater Conservation Districts**
1. Anderson County UWCD - 10/17/1987
  2. Bandera County River Authority & Ground Water District - 11/19/1989
  3. Barton Springs/Edwards Aquifer CD - 8/13/1987
  4. Bee CD - 1/20/2001
  5. Blanco-Pedernales GCD - 1/23/2001
  6. Blumhorst GCD - 11/5/2002
  7. Brazos Valley GCD - 11/8/2005
  8. Brazos Valley GCD - 11/5/2002
  9. Brewster County GCD - 11/6/2001
  10. Brush County GCD - 11/3/2009
  11. Central Texas GCD - 9/24/2005
  12. Clear Fork GCD - 11/5/2002
  13. Clearwater UWCD - 8/21/1999
  14. Coastal Bend GCD - 11/6/2001
  15. Coastal Plains GCD - 11/6/2001
  16. Comal County UWCD - 11/16/2001
  17. Comal County UWCD - 11/6/2001
  18. Corpus Christi BAS GCD - 6/17/2005
  19. Corpus Christi BAS GCD - 11/5/2002
  20. Crockett County GCD - 1/25/1991
  21. Culberson County GCD - 5/21/1998
  22. Duval County GCD - 7/25/2009
  23. Edwards Aquifer Authority - 7/26/1996
  24. Evergreen UWCD - 8/30/1965
  25. Fayette County GCD - 11/6/2001
  26. Fox Crossing Water District - 4/4/1985
  27. Garza County UWCD - 11/6/1995
  28. Gateway GCD - 6/3/2003
  29. Glasscock GCD - 8/22/1981
  30. Goliad County GCD - 11/6/2001
  31. Gonzales County UWCD - 11/21/1994
  32. Guadalupe County GCD - 11/14/1989
  33. Hays Trinity GCD - 6/3/2003
  34. Headwaters GCD - 11/6/1991
  35. Hemphill County UWCD - 11/4/1997
  36. Hickory UWCD No. 1 - 8/14/1982
  37. High Plains UWCD No. 1 - 9/29/1951
  38. Hill County UWCD - 6/8/1987
  39. Hudspeth County UWCD No. 1 - 10/5/1957
  40. Iron County WCD - 8/21/1985
  41. Jeff Davis County UWCD - 11/21/1993
  42. Kenney County GCD - 11/2/2004
  43. Kimble County GCD - 5/3/2002
  44. Kinney County GCD - 11/2/2002
  45. Lipan-Kickapoo WCD - 11/3/1987
  46. Live Oak UWCD - 11/7/1988
  47. Llano Escarpment UWCD - 11/25/1988
  48. Lone Wolf GCD - 2/12/2001
  49. Lower Rio Grande GCD - 11/7/2006
  50. Lower Rio Grande GCD - 11/7/2006
  51. Loving County GCD - 11/6/2001
  52. Loving County GCD - 11/6/2001
  53. Medina County UWCD - 8/14/1989
  54. Menard County UWCD - 8/14/1989
  55. Mesa GCD - 11/4/1986
  56. Mesquite GCD - 11/4/1986
  57. Mid-East Texas GCD - 11/5/2002
  58. Middle Pecos GCD - 11/5/2002
  59. Middle Trinity GCD - 6/4/2002
  60. Neches & Trinity Valleys GCD - 11/6/2007
  61. North Plains GCD - 12/1/2009
  62. North Texas GCD - 12/1/1955
  63. Northern Trinity GCD - 6/15/2007
  64. Panhandle GCD - 1/21/1956
  65. Panola County GCD - 11/6/2001
  66. Pecos Valley GCD - 11/6/2001
  67. Permian Basin UWCD - 9/21/1985
  68. Pineywoods GCD - 11/6/2001
  69. Plateau UWC and Supply District - 3/41/1974
  70. Plum Creek CD - 5/1/1993
  71. Post Oak Savannah GCD - 11/25/2002
  72. Praidlands GCD - 9/12/2009
  73. Pecos County UWCD - 8/31/1989
  74. Real Edwards C and R District - 5/30/1999
  75. Real Edwards C and R District - 5/30/1999
  76. Real Edwards C and R District - 5/30/1999
  77. Real Edwards C and R District - 5/30/1999
  78. Real Edwards C and R District - 5/30/1999
  79. Rolling Plains GCD - 1/25/1999
  80. Rolling Plains GCD - 6/6/2004
  81. San Antonio County GCD - 6/12/2007
  82. San Antonio County GCD - 6/12/2007
  83. Santa Rita UWCD - 8/19/1989
  84. Saratoga UWCD - 11/7/1989
  85. Southeast Texas GCD - 2/8/1992
  86. Southeast Texas GCD - 11/2/2004
  87. Starr County GCD - 11/6/2001
  88. Sterling County UWCD - 11/3/1987
  89. Sutton County UWCD - 4/6/1986
  90. Tarrant GCD - 11/6/2001
  91. Tarrant Glen Rose GCD - 11/6/2002
  92. Upper Trinity GCD - 11/6/2007
  93. Upper Trinity GCD - 8/17/1993
  94. Victoria County GCD - 6/3/2005
  95. West-Fox GCD - 11/2/2002

- Unconfirmed Groundwater Conservation Districts**
- 97. Lavaca County GCD + #
  - 98. Calhoun County GCD + #
  - 99. Terrell County GCD + #
- \* Pending Election Results  
# Created by the 8th Legislature  
& Created by the 2nd Legislature

- Subsidence Districts**
- Harris-Gaveston Subsidence District
  - Fort Bend Subsidence District

**Disclaimer**  
This map was generated by the Texas Water Development Board using GIS (Geographical Information System) software. No claims are made to the accuracy or completeness of the information shown herein nor to its suitability for a particular use. The scale and location

**MAP 1**  
Scale: 0 25 50 75 100 Miles  
North Arrow

\*Districts that have, in whole or part, authority as assigned by Chapter 36 of the Texas Water Code. Please refer questions pertaining to individual districts to the district themselves.  
GCD Data Source: Texas Commission on Environmental Quality (TCEQ) 512-239-1000





**Attachment A**  
**Summary of selected provisions of Chapter 36, Texas Water Code**  
**as of the date of this Management Plan**

1. In establishing desired future conditions (DFCs) for relevant aquifers as part of District participation in joint planning in GMA12, the District will establish (and revise as necessary) DFCs that provide for the reasonable long-term management of groundwater resources consistent with statutory management goals under § 36.107(a), and that provide a balance between the conservation, preservation, protection, recharging, and prevention of waste of groundwater and control of subsidence in the management area and the highest practicable level of groundwater production.<sup>12</sup>

2. Before adopting DFCs the District will consider<sup>13</sup>:

- aquifer uses or conditions within the management area, including conditions that differ substantially from one geographic area to another;
  - the water supply needs and water management strategies included in the state water plan;
  - hydrological conditions, including for each aquifer in the management area the total estimated recoverable storage as provided by the executive director of the Texas Water Development Board (TWDB), and the average annual recharge, inflows and discharge;
  - other environmental impacts, including impacts on spring flow and other interactions between groundwater and surface water;
  - the impact on subsidence;
  - socioeconomic impacts reasonably expected to occur;
  - the impact on the interests and rights in private property, including ownership and the rights of management area landowners and their lessees and assigns in groundwater as recognized under § 36.002;
  - the feasibility of achieving the DFC; and
- any other information relevant to the specific DFC.

3. The Management Plan's goals and objectives shall be consistent with achieving consistency with the DFCs of the relevant aquifers<sup>14</sup>.

4. To the extent possible, the District shall issue permits up to the point that the total volume of exempt and permitted groundwater production will achieve an applicable DFC under § 36.108.<sup>15</sup> In issuing permits, the District shall manage total

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<sup>12</sup> See § 36.108(d)(2).

<sup>13</sup> See § 36.108(d).

<sup>14</sup> See § 36.1085.

<sup>15</sup> See § 36.1132.

groundwater production on a long-term basis to achieve the applicable DFC for each aquifer, and shall consider<sup>16</sup>:

- the modeled available groundwater determined by TWDB;
- TWDB's estimate of the current and projected amount of groundwater produced under exemptions granted by District rules and § 36.117;
- the amount of groundwater authorized under permits previously issued by the District;
- a reasonable estimate of the amount of groundwater that is actually produced under permits issued by the District; and
- yearly precipitation and production patterns.

5. The District may adopt and will enforce rules pursuant to Chapter 36, including without limitation rules limiting groundwater production, to provide for conserving, preserving, protecting, and recharging of the groundwater in order to control subsidence, to minimize as far as practicable the drawdown of the water table or the reduction of artesian pressure, to prevent or lessen interference between wells, to prevent degradation of water quality, or to prevent waste and achieve water conservation. District rules may regulate the spacing of water wells and the production of groundwater.<sup>17</sup> The District may impose permit conditions, including without limitations conditions requiring conservation or drought contingency plans.<sup>18</sup> In adopting rules under Chapter 36, the District shall:

- consider all groundwater uses and needs;
- develop rules that are fair and impartial;
- consider the groundwater ownership and rights described by § 36.002;
- consider the public interest in conservation, preservation, protection, recharging, and prevention of waste of groundwater, and of groundwater reservoirs or their subdivisions, and in controlling subsidence caused by withdrawal of groundwater from those groundwater reservoirs or their subdivisions, consistent with the objectives of Section 59, Article XVI, Texas Constitution;
- consider the goals developed as part of its Management Plan under § 36.1071; and
- not discriminate between land that is irrigated for production and land that was irrigated for production and enrolled or participating in a federal conservation program.<sup>19</sup>

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<sup>16</sup> See § 36.1132.

<sup>17</sup> See § 36.116.

<sup>18</sup> See Chapter 36 generally, including without limitation §§ 36.101, 36.102, 36.113, 36.116 and 36.122.

<sup>19</sup> See §§ 36.101.

**Appendix A:**  
**Copy of GMA 12 Resolution and Submittal Adopting DFCs**



**Post Oak Savannah Groundwater Conservation District**

Post Oak Savannah  
Groundwater  
Conservation District  
310 East Avenue C  
P. O. Box 92  
Milano, Texas 76556

Phone: 512-455-9900  
Fax: 512-455-9909  
Email: [posgcd@tconline.net](mailto:posgcd@tconline.net)  
Website: [www.posgcd.org](http://www.posgcd.org)

**Gary Westbrook, General Manager**

August 12, 2010

Mr. J. Kevin Ward, Executive Administrator  
Texas Water Development Board  
P.O. Box 13231  
Austin, Texas 78711-3231

*Sent via U.S. Mail Certified # 7009 3410 0000 9242 3156*

Dear Mr. <sup>Kevin</sup> Ward,

On behalf of the Groundwater Conservation Districts (GCDs) of Groundwater Management Area 12 (GMA 12), I am pleased to submit the enclosed packet of required information concerning formal adoption of GMA 12 Desired Future Conditions (DFCs) which took place at an appropriately noticed and posted meeting of the GCDs of GMA 12 on August 11, 2010. This packet contains all of the information as required by Chapter 36, Texas Water Code, and the Texas Water Development Board (TWDB) checklist as provided in TWDB's publication, "How to Submit Desired Future Conditions to the Texas Water Development Board."

I will also serve as contact for GMA 12 for this purpose. Should you have any questions or require additional information, please do not hesitate to contact me at the address listed above.

Sincerely,

Gary Westbrook  
General Manager  
Post Oak Savannah GCD

**RESOLUTION TO ADOPT DESIRED FUTURE CONDITIONS  
FOR AQUIFER(S) IN GROUNDWATER MANAGEMENT AREA 12**

THE STATE OF TEXAS

§  
§  
§  
§  
§

GROUNDWATER MANAGEMENT AREA 12

GROUNDWATER CONSERVATION DISTRICTS

**WHEREAS**, Texas Water Code § 36.108 requires the groundwater conservation districts located in whole or in part in a groundwater management area (“GMA”) designated by the Texas Water Development Board to adopt desired future conditions for the relevant aquifers located within the management area;

**WHEREAS**, the groundwater conservation districts located wholly or partially within Groundwater Management Area 12 (“GMA 12”), as designated by the Texas Water Development Board, as of the date of this resolution are as follows: Mid-East Texas Groundwater Conservation District, Brazos Valley Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Lost Pines Groundwater Conservation District, and Fayette County Groundwater Conservation District (collectively hereinafter “the GMA 12 Districts”);

**WHEREAS**, the GMA 12 Districts are each governmental agencies and bodies politic and corporate operating under Chapter 36, Water Code;

**WHEREAS**, the GMA 12 Districts desire to fulfill the requirements of Texas Water Code § 36.108 through mutual cooperation and joint planning efforts;

**WHEREAS**, the GMA 12 Districts have had numerous public meetings, including a Stakeholder meeting for the specific purpose of receiving comments and input from stakeholders within GMA 12, at which they have engaged in joint planning efforts to promote more comprehensive management of the aquifers located in whole or in part in Groundwater Management Area 12;

**WHEREAS**, the GMA 12 Districts may establish different desired future conditions for: (1) each aquifer, subdivision of an aquifer, or geologic strata located in whole or in part within the boundaries of GMA 12; or (2) each geographic area overlying an aquifer in whole or in part or subdivision of an aquifer within the boundaries of GMA 12;

**WHEREAS**, the GMA 12 Districts recognize that GMA 12 includes a geographically and hydrologically diverse area with a variety of land uses and a diverse mix of water users;

**WHEREAS**, the GMA 12 Districts have considered the relevant aquifers, subdivisions thereof, and geologic strata located in whole or in part within the boundaries of GMA 12, and

[Type text]

**WHEREAS**, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 12 Districts have considered all of the criteria required by Chapter 36 of the Texas Water Code and other information, including without limitation groundwater availability models and runs of those models to determine the effects of various conditions and parameters, hydrogeologic reports available for the relevant aquifers, and other technical data and information;

**WHEREAS**, many of the groundwater availability models, runs, hydrogeologic reports, and other technical data and information considered and determined to be reliable sources of information by the GMA 12 Districts in establishing these desired future conditions for the aquifer(s) have been attached hereto or referenced in the documents attached hereto under Appendix B;

**WHEREAS**, in establishing these desired future conditions for the aquifer(s) set forth under Appendix B, the GMA 12 Districts have considered the uses and conditions of the aquifer(s) in different geographic areas within GMA 12 and what the effects and impacts of adopting such desired future conditions will have upon the condition of the aquifer(s) and the uses and users of groundwater from the aquifer(s) both now and in the future;

**WHEREAS**, after considering such anticipated effects and impacts these desired future conditions will have on the aquifer(s), uses, and users of groundwater, and considering all of the other criteria required by Chapter 36 of the Texas Water Code, including without limitation the groundwater resource management duties and responsibilities of the GMA 12 Districts individually and collectively, the GMA 12 Districts have determined that the desired future conditions for the aquifer(s) set forth under Appendix B are reasonable;

**NOW, THEREFORE, BE IT RESOLVED BY THE AUTHORIZED VOTING REPRESENTATIVES OF THE GMA 12 DISTRICTS AS FOLLOWS:**

1. The above recitals are true and correct.
2. The authorized voting representatives of the GMA 12 Districts hereby establish the desired future conditions of the aquifer(s) as set forth in Appendix B by the vote reflected in the above recitals.
3. The GMA 12 Districts and their agents and representatives, individually and collectively, are further authorized to take any and all actions necessary to implement this resolution.
4. The desired future conditions of the aquifer(s) adopted by the GMA 12 Districts and attached hereto shall be effective immediately and shall continue in effect until amended, superseded, or repealed.

have further considered the hydrogeologic characteristics of the same, as well as the various uses and users of groundwater produced from such aquifers, subdivisions, and strata;

**WHEREAS**, GMA 12 Districts held a meeting, which was open to the public, at 10:00 a.m. on Wednesday, August 11, 2010, in the Milano Community and Civic Center located at 120 West Avenue E, Milano, Texas;

**WHEREAS**, notice of said August 11, 2010, meeting was properly given by each and all of the GMA 12 Districts in accordance with Chapter 36, Water Code, and Chapter 551, Government Code, and a true and correct copy of each of the notices has been attached hereto in Appendix A and is incorporated herein for all purposes;

**WHEREAS**, at least two-thirds of the GMA 12 Districts had a voting representative in attendance at said August 11, 2010, meeting in accordance with Section 36.108, Texas Water Code; to wit, the following districts had a voting representative in attendance at said meeting: Mid-East Texas Groundwater Conservation District, Brazos Valley Groundwater Conservation District, Post Oak Savannah Groundwater Conservation District, Lost Pines Groundwater Conservation District, and Fayette County Groundwater Conservation District;

**WHEREAS**, it is the intent and purpose of the GMA 12 Districts by adoption of this resolution to fulfill the requirements of Texas Water Code § 36.108, including establishing “desired future conditions for the relevant aquifers” within GMA 12 for the specific aquifer(s) and desired future conditions described under “Appendix B” attached hereto and incorporated herein for all purposes;

**WHEREAS**, at said August 11, 2010, meeting, after a motion was duly made and seconded that the GMA 12 Districts adopt this resolution establishing desired future conditions for the aquifer(s) described under “Appendix B”, the motion prevailed by the following vote:

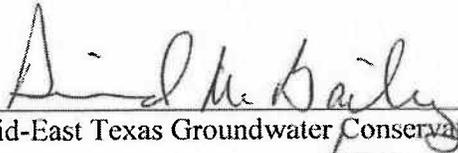
<u>Hooper</u>	5 Ayes, 0 Nays;
<u>Simsboro</u>	5 Ayes, 0 Nays;
<u>Carrizo</u>	5 Ayes, 0 Nays;
<u>Calvert Bluff</u>	5 Ayes, 0 Nays;
<u>Queen City</u>	5 Ayes, 0 Nays;
<u>Sparta</u>	5 Ayes, 0 Nays;
<u>Yegua-Jackson</u>	5 Ayes, 0 Nays;
<u>Brazos Alluvium</u>	5 Ayes, 0 Nays;

[Type text]

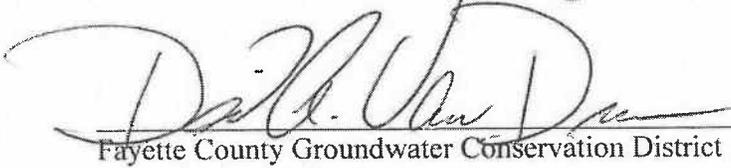
AND IT IS SO ORDERED.

PASSED AND ADOPTED on this 11th day of August, 2010.

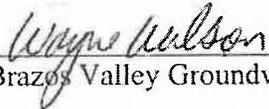
ATTEST:



Mid-East Texas Groundwater Conservation District



Fayette County Groundwater Conservation District



Brazos Valley Groundwater Conservation District



Lost Pines Groundwater Conservation District



Post Oak Savannah Groundwater Conservation District

ATTACHMENTS

Appendix A: Copies of notices of August 11, 2010, meeting

Appendix B: Adopted Desired Future Conditions and supporting information

[Type text]

**APPENDIX B**  
**GMA 12 DESIRED FUTURE CONDITIONS**  
**August 11, 2010**

**Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, Hooper Aquifers**

GMA 12 member Groundwater Conservation Districts (GCDs) submitted Desired Future Conditions (DFCs) as average drawdowns that occur between January 2000 and December 2059. Table B-1 lists the final set of DFCs submitted by each district for the Sparta, Queen City, Carrizo, Calvert Bluff, Simsboro, and Hooper Aquifers.

**Table B-1. Adopted Desired Future Conditions for GMA 12**

Groundwater Conservation District or County	Average Aquifer Drawdown (Ft) Measured From January 2000 To December 2059					
	SPARTA	QUEEN CITY	CARRIZO	CALVERT BLUFF	SIMSBORO	HOOPER
BRAZOS VALLEY	15	12	47	106	270	170
FAYETTE COUNTY	60	60	60	-	-	-
LOST PINES	7	13	47	99	237	129
MID-EAST TEXAS	0	0	55	70	115	95
POST OAK SAVANNAH	30	30	65	140	300	180
FALLS COUNTY	-	-	-	-	0	20
LIMESTONE COUNTY	-	-	-	9	43	40
NAVARRO COUNTY	-	-	-	0	1	1
WILLIAMSON COUNTY				-10	50	55

GMA 12 predicted future drawdown by using version 2.2 of the Central Queen City and Sparta GAM (Kelley and others, 2004). One reason that GMA 12 performed predictive simulations was to demonstrate that the DFCs are compatible and physically possible. Table B-2 presents average drawdowns simulated using the GAM and a MODFLOW pumping file created by GMA 12 (called Run GAM12\_7B). The pumping file for Run GAM12\_7B was submitted to the TWDB under a separate cover.

**Table B-2. Calculated Average Drawdowns Based from a Predicted Simulation Using the Central Queen City and Sparta GAM and Pumping File Run GAM 7B**

Groundwater Conservation District or County	Average Drawdown (ft) in Each Aquifer Calculated from the Start of Year 2000 to the Start of Year 2060					
	SPARTA	QUEEN CITY	CARRIZO	CALVERT BLUFF	SIMSBORO	HOOPER
BRAZOS VALLEY	14	12	48	109	271	177
FAYETTE COUNTY	59	58	59	126	220	172
LOST PINES	4	13	47	94	236	133
MID-EAST TEXAS	0	-3	53	67	114	96

POST OAK SAVANNAH	28	28	61	137	298	178
FALLS COUNTY	-	-	-	-	-1	20
LIMESTONE COUNTY	-	-	-	9	43	40
NAVARRO COUNTY	-	-	-	-1	1	1
WILLIAMSON COUNTY	-	-	-	-11	47	56

Based on the principle of using the GAM as a joint planning tool and the fact that the GAM predictions contain uncertainty, GMA 12 considered the DFCs to be compatible and physically possible if the difference between modeled drawdown results for model Run 12\_7B and the DFC drawdown targets were within 5 feet or 5 percent of the DFC drawdown targets. Factors considered for determining tolerance criteria include:

- model calibration results and statistics,
- information used to calibrate the GAM,
- aquifer and recharge information collected since the GAM was developed,
- sensitivity of the GAM calibration and GAM predictions to changes in the model parameters, and
- range of uncertainty in the model parameters including historical and future pumping, and temporal variation in recharge distribution and magnitude.

**Reference:**

Kelley, V. A., Deeds, N. E., Fryar, D. G., and Nicot, J-P, 2004. Groundwater Availability Models for the Queen City and Sparta Aquifers, prepared for the Texas Water Development Board, Austin, Texas

**Yegua-Jackson Aquifer**

GMA-12 adopted DFCs for its member districts based on the average aquifer drawdown (ft) from January 2000 or January 2010 to January 2060. All GCDs except Brazos Valley GCD considered the Jackson Aquifer and Yegua Aquifer as a single unit. Therefore a single DFC was adopted for the Yegua-Jackson Aquifer. Brazos Valley GCD adopted separate DFCs for the Jackson Aquifer and the the Yegua Aquifer. Table B-3 lists the final set of DFCs submitted by each district. Lost Pines GCD did not submit a DFC for the Yegua-Jackson Aquifer because the district declared it as a non-relevant aquifer.

**Table B-3. Adopted Desired Future Conditions for GMA 12 for the Yegua and Jackson Aquifers**

District	Aquifer(s)	Time Period	Average Aquifer Drawdown (ft)
BRAZOS VALLEY	Yegua	2010 to 2060	70
	Jackson		110
FAYETTE COUNTY	Yegua-Jackson	2010 to 2060	75
LOST PINES	Yegua-Jackson	-	declared as non-relevant
MID-EAST TEXAS	Yegua-Jackson	2000 to 2060	0
POST OAK SAVANNAH	Yegua-Jackson	2010 to 2060	100

**Brazos Alluvium Aquifer**

In the GMA-12, the Brazos Alluvium Aquifer is lies within two GCDs in GMA 12: the Post Oak Savannah GCD and the Brazos Valley GCD. GMA-12 adopted DFCs for Post Oak Savannah as listed in Table B-4. GMA-12 agreed to delay adoption of a DFC for BVGCD pending results from additional studies of that aquifer.

**Table B-4. Adopted Desired Future Conditions for GMA 12 for the Brazos Alluvium Aquifer in POSGCD**

County	DFC Statement
Milam County	A decrease of 5 ft in the average saturated thickness over the period from 2010 to 2060. The baseline average saturated thickness for 2010 is estimated at 24.5 feet and is based on an analysis of historical water level data and well depth values
Burleson County	A decrease of 6 ft in the average saturated thickness over the period from 2010 to 2060. The baseline average saturated thickness for 2010 is estimated at 38.5 feet and is based on an analysis of historical water level data and well depth values

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

**August 11, 2010 – 10:30 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas**

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**AGENDA**

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Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 12, as designated by the Texas Water Development Board, consisting of the Post Oak Savannah Groundwater Conservation District (GCD), Fayette County GCD, Lost Pines GCD, Mid-East Texas GCD, and Brazos Valley GCD, will hold a Joint Planning meeting at 10:30 a.m. on Wednesday, August 11, 2010, in the Milano Community and Civic Center, located at 120 West Ave. E, Milano, Texas. The meeting will be open to the public.

**The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.**

1. Minutes of earlier August 11, 2010, 10:00 a.m. GMA 12 Meeting
2. Process for Setting Desired Future Conditions of the Aquifers and formations in GMA 12
3. Improvements to current Central Queen City/Sparta/Carrizo Groundwater Availability Model
4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 22nd day of July, 2010.



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Elaine Gerren, Administrative Assistant, POSGCD

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**NOTICE OF MEETING**  
**GROUNDWATER MANAGEMENT AREA 12**  
**August 11, 2010 – 10:30 a.m.**  
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**120 West Ave. E**  
**Milano, Texas**

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**AGENDA**

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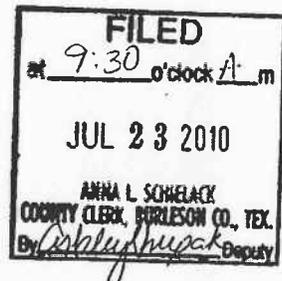
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Elaine Gerren, Administrative Assistant, POSGCD



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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

August 11, 2010 – 10:30 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

JUL 26 2010

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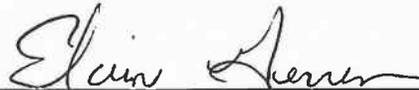
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7. Adjourn

Signed this 22nd day of July, 2010.



Elaine Gerren, Administrative Assistant, POSGCD

Filed 23 day of July  
in 2010, At 9:40 M.  
BARBARA VANSA  
County Clerk, Milam County, Texas  
By Janice Hall  
Deputy

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

August 11, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

JUL 26 2010

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**AGENDA**

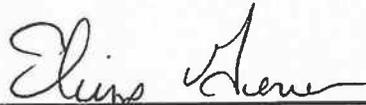
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1. Welcome and introductions
2. Minutes of May 26, 2010 GMA 12 second Meeting
3. Presentation of proposed desired future conditions (DFCs), and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board
4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

Signed this 22nd day of July, 2010.



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Elaine Gerren, Administrative Assistant, POSGCD

Filed 23 day of July  
in 2010, At 9:40 M.  
BARBARA VANSA  
County Clerk, Milam County, Texas  
By [Signature]  
Deputy

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

August 11, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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**AGENDA**

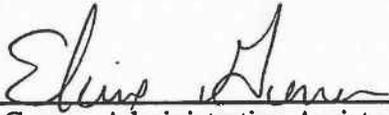
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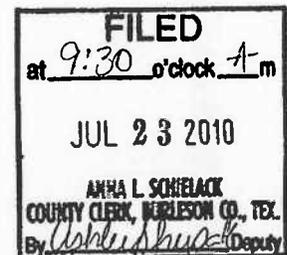
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5. Adjourn

Signed this 22nd day of July, 2010.

  
\_\_\_\_\_  
Elaine Gerren, Administrative Assistant, POSGCD



# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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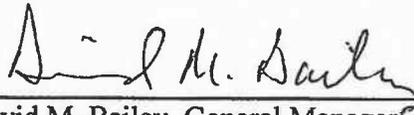
### Agenda

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Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 12, as designated by the Texas Water Development Board, consisting of the Post Oak Savannah Groundwater Conservation District (GCD), Fayette County GCD, Lost Pines GCD, Mid-East Texas GCD, and Brazos Valley GCD, will hold a ***Joint Planning meeting at 10 a.m. on Wednesday, August 11, 2010***, in the Milano Community and Civic Center, located at 120 West Ave. E, Milano, Texas. The meeting will be open to the public. **The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.**

1. Welcome and introductions
2. Minutes of May 26, 2010 GMA 12 second Meeting
3. Presentation of proposed desired future conditions (DFCs), and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board
4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

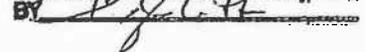
Signed this 26th day of August, 2010.



David M. Bailey, General Manager  
Mid-East Texas GCD

FILED FOR RECORD  
At 11:40 o'clock A M

JUL 26 2010

MARY LYNN WHITE  
Clerk County Court, Freestone County, Texas  
BY 

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:30 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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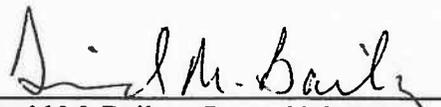
### Agenda

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1. Minutes of earlier August 11, 2010, 10:00 a.m. GMA 12 Meeting
2. Process for Setting Desired Future Conditions of the Aquifers and formations in GMA 12
3. Improvements to current Central Queen City/Sparta/Carrizo Groundwater Availability Model
4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 26th day of July, 2010.



David M. Bailey, General Manager  
Mid-East Texas GCD

FILED FOR RECORD  
At 11:40 o'clock 11 M

JUL 26 2010

MARYLYNN WHITE  
Clerk County Court, Freestone County, Texas  
BY Mary Lynn White

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:30 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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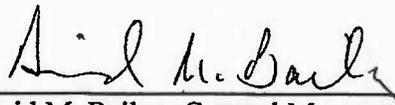
### Agenda

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4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 26th day of July, 2010.



David M. Bailey, General Manager  
Mid-East Texas GCD

**FILED**

1:45 P  
JUL 26 2010

CARLA McEACHERN  
CLERK COUNTY COURT  
BY   
LEON COUNTY, TEXAS

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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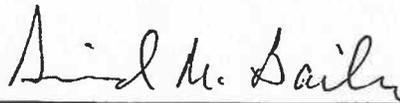
### Agenda

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4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

Signed this 26th day of August, 2010.



David M. Bailey, General Manager  
Mid-East Texas GCD

**FILED**  
1:40P  
JUL 26 2010  
CARLA MCEACHERN  
CLERK COUNTY COURT  
LEON COUNTY, TEXAS

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

**August 11, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas**

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**AGENDA**

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Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 12, as designated by the Texas Water Development Board, consisting of the Post Oak Savannah Groundwater Conservation District (GCD), Fayette County GCD, Lost Pines GCD, Mid-East Texas GCD, and Brazos Valley GCD, will hold a Joint Planning meeting at 10:00 a.m. on Wednesday, August 11, 2010, in the Milano Community and Civic Center, located at 120 West Ave. E, Milano, Texas. The meeting will be open to the public.

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4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

Signed this 22nd day of July, 2010.

  
\_\_\_\_\_  
Elaine Gerren, Administrative Assistant, POSGCD

**POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT**  
**Groundwater Management Area 12 Meeting**  
Milano Community and Civic Center  
120 West Avenue E  
Milano, Texas 76556  
August 11, 2010 – 10:00 a.m.

**MINUTES**

**Name**

**Entity**

Please see attached or included list of attendees

**1. Welcome and introductions**

Nathan Ausley with the Post Oak Savannah GCD, serving as chair person, opened the meeting at 10:05 a.m. and invited those seated at the head table to introduce themselves, and reminded all who were in attendance to sign the sign-in sheet at the front door.

**2. Minutes of May 26, 2010 GMA 12 Second Meeting**

Nathan Ausley moved to approve the minutes from the May 26, 2010 Second Meeting. The motion was 2<sup>nd</sup> by David Van Dresar. The motion carried unanimously.

**3. Presentation of proposed desired future conditions (DFCs) and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board**

- a. Brazos Valley GCD- Wayne Wilson presented an updated list of DFCs for BVGCD which was amended from the document previously presented on May 26, 2010. A copy of that document is attached to, and included in, these minutes. The DFCs for BVGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 15 feet, Queen City 12 feet, Carrizo 47 feet, Calvert Bluff 106 feet, Simsboro 270 feet, and Hooper 170 feet, while adding Jackson 70 feet, Yegua 110 feet, and noted that the DFCs for BVGCD Yegua and Jackson formations are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2010 average hydraulic head.
- b. Fayette County GCD- David Van Dresar presented a list of DFCs for FCGCD. A copy of FCGCD's document is attached to, and included in, these minutes. The Preliminary DFCs for FCGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 60 feet, Queen City 60 feet, Carrizo 60 feet, Yegua-Jackson 75, and noted that the DFCs for FCGCD Yegua-Jackson formations are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2010 average hydraulic head.

- c. Lost Pines GCD- Joe Cooper presented an updated list of DFCs for LPGCD which was amended from the document previously presented on May 26, 2010. A copy of that document is attached to, and included in, these minutes. The Preliminary DFCs for LPGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 7 feet from 10 feet previously, Queen City 13 feet, Carrizo 47 feet, Simsboro 237 feet, Calvert Bluff 99 feet, and Hooper 129 feet. Yegua Jackson is not relevant.
- d. Mid-East Texas GCD- David Bailey presented an updated list of DFCs for METGCD which was amended from the document previously presented on May 26, 2010. A copy of that document is attached to, and included in, these minutes. The DFCs for METGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and remain as follows: Sparta 0 feet, Queen City 0 feet, Carrizo 55 feet, Simsboro 115 feet, Calvert Bluff 70 feet, and Hooper 95 feet, adding Yegua Jackson 0 feet.
- e. Post Oak Savannah GCD- Gary Westbrook noted that POSGCDs DFCs have had minor amendments since the May 26, 2010 GMA 12 meeting. A copy of POSGCD's document is attached to, and included in, these minutes. The Preliminary DFCs for POSGCD are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2000 average hydraulic head and are as follows: Sparta 30 feet, Queen City 30 feet from 40 feet, Carrizo 65 feet from 70 feet, Simsboro 300 feet, Calvert Bluff 140 feet from 150 feet, and Hooper 180 feet, while adding Yegua Jackson 100 feet, and noted that the DFCs for POSGCD Yegua-Jackson formations are expressed as an average drawdown across the District for the period through the year 2060 when compared to the year 2010 average hydraulic head, and Brazos Alluvium as addressed in Table B-4 of Appendix B of August 11, 2010.
- f. DFCs for counties in GMA 12 not included in a GCD- Based on model results of GAM 12\_7B resulting impacts are as follows for these counties:

Falls- Simsboro 0 feet, Hooper 20 feet  
 Limestone- Calvert Bluff 9 feet, Simsboro 43 feet, Hooper 40 feet  
 Navarro- Calvert Bluff 0 feet, Simsboro 1 foot, Hooper 1 foot  
 Williamson- Calvert Bluff -10 feet, Simsboro 50 feet, Hooper 55 feet

Gary Westbrook recapped the process leading up to this meeting concerning the need for clarification from TWDB as it applies to the adopted DFCs, and read the recommended additional tolerance statement to be added to the DFC submission for GMA 12.

**4. Public hearing and possible action to adopt desired future conditions (DFCs) and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.**

Chairman Nathan Ausley opened the public hearing and invited comments on the proposed desired future conditions of GMA 12.

Steve Box of Environmental Defense presented a resolution of recommended language to include in adoptions of DFCs for GMA 12, and encouraged GMA 12 to consider the resolution.

Steve Young reminded all that there are current studies in environmental flows in the state and that as these studies progress GMA 12 can consider them at an appropriate time.

Nathan Ausley asked for further comments or presentations during the hearing. No one responded or came forward.

Nathan Ausley closed the Public Hearing.

Nathan Ausley recessed the meeting at 10:42 am.

Nathan Ausley resumed the meeting at 11:12 and moved back into item 4.

Nathan Ausley introduced a summary document for the voting members to consider entitled Appendix B and noted corrections.

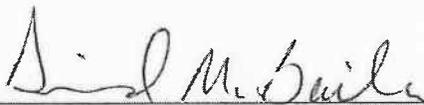
Wayne Wilson moved to approve Appendix B and the Resolution as amended and corrected to adopt amended DFCs as presented by the GCDs in GMA 12 as the DFCs for GMA 12. Joe Cooper seconded that motion. The motion passed unanimously.

**5. Adjourn**

The meeting adjourned at 11:18 a.m.

**THE ABOVE MINUTES OF THE MEETING OF GROUNDWATER MANAGEMENT AREA 12 HELD ON AUGUST 11, 2010 WERE APPROVED AND ADOPTED BY GMA 12 AT A MEETING LATER ON AUGUST 11, 2010**

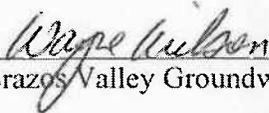
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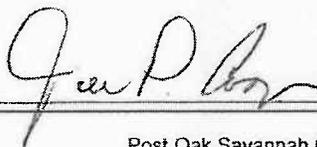
Mid-East Texas Groundwater Conservation District



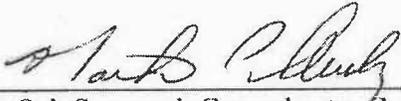
Fayette County Groundwater Conservation District



Brazos Valley Groundwater Conservation District



Lost Pines Groundwater Conservation District



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Post Oak Savannah Groundwater Conservation District

**ATTACHMENTS**

Appendix A: Copies of notices of May 26, 2010, meeting

Appendix B: Adopted Desired Future Conditions and supporting information

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**Groundwater Management Area 12**

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**Board Meeting**

Milano Community Center

120 West Avenue E

Milano, TX

August 11, 2010

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PLEASE PRINT YOUR NAME

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NAME

ORGANIZATION

Gary Westbrook

Post-Oak Savannah GCD

Elaine Gerren

"

Nathan Ausley

"

Drew Gholson

"

Steve Young

Intera

James Beach

L.B.G.-Guyton

STEFAN SCHUSTER

DBS & A

James Miller

City of Bastrop

Matt Uliana

MET GCD

John Seifert

L.B.G.-Guyton Assoc.

Leo Jwick

Fayette Co BWA

DAVID A. VAN DUSEN

FAYETTE COUNTY GCD.

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Groundwater Management Area 12

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Board Meeting

Milano Community Center

120 West Avenue E

Milano, TX

August 11, 2010

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PLEASE PRINT YOUR NAME

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NAME

ORGANIZATION

ALICE DARNELL

LPGCD

KEITH HANSENBERGER

LPGCD

Robert Bradley

TWDB

B. Sherrill

East pine ground water District

TRAVIS McPHAUZ

LPGCD

RACON CRUM

BNGCD

STEVE BOX

Environmental Stewardship

David Bailey

METGCD

JACKIE SCOTT

BRA

Bob Kier

RSKC / LPGCD

Chad Norris

TRWD

Jennifer Walker

Sierra Club

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**Groundwater Management Area 12**

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**Board Meeting**

Milano Community Center

120 West Avenue E

Milano, TX

August 11, 2010

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**PLEASE PRINT YOUR NAME**

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**NAME**

**ORGANIZATION**

MIKE BROWN

Rockdale Reporter

Scott Carlson

Metropolitan Water Co., L.P.

DAVID COLEMAN

City of College Station

STEVE BEACHY

Brazos Valley GCD

<sup>T</sup> John Burke

Aqua

Wayne Wilson

Brazos Valley GCD

Joe Cooper

LPGCD

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GMA-12 Meeting  
August 10, 2010  
Milano Community and Civic Center

Post Oak Savannah GCD Desired Future Conditions for Brazos Alluvium Aquifer and Yegua-Jackson Aquifer

On May 11, the POSGCD DFC committee recommended and the POSGCD board subsequently adopted DFCs for the Yegua-Jackson aquifer and the Brazos Alluvium Aquifer.

Brazos Alluvium Aquifer

For Milam County, the DFC is a decrease of 5 ft in the average saturated thickness over the period from 2010 to 2060. The baseline average saturated thickness for 2010 is estimated at 24.5 feet and is based on an analysis of historical water level data and well depth values.

For Burleson County, the DFC is a decrease of 6 ft in the average saturated thickness over the period from 2010 to 2060. The baseline average saturated thickness for 2010 is estimated at 38.5 feet and is based on an analysis of historical water level data and well depth values.

Yegua-Jackson Aquifer

For Burleson County, the preliminary DFC is an average drawdown of 100 feet over the period of 2010 to 2060.

Deeds, N. E., Yan, T, Singh, A, Jones, T. J., Kelley, V.A., Knox, P. R., and Young, S.C., 2010. Final Report Groundwater Availability Model for the Yegua-Jackson Aquifer, prepared by INTERA Incorporated, prepared for the Texas Water Development Board, Austin, TX

## **Estimates of Desired Future Conditions for Brazos Valley Groundwater Conservation District**

### **Introduction**

The Brazos Valley Groundwater Conservation District (BVGCD) has been working within Groundwater Management Area 12 (GMA-12) to develop estimates of desired future conditions (DFCs). This effort has occurred over the past approximately 7 months regarding the Yegua-Jackson aquifer in cooperation with other groundwater conservation districts within GMA-12.

### **Considerations During Formulation of Yegua-Jackson Aquifer DFCs**

The development of DFCs take into consideration previous estimates of groundwater availability within the BVGCD and surrounding counties provided by the Texas Water Development Board and the Region G Planning Group. The effects of pumping from the Yegua-Jackson aquifer were considered along with results obtained from the utilization of the Yegua Jackson Groundwater Availability Model (GAM) to simulate the future effects of groundwater withdrawal, both locally and regionally. The effects of groundwater pumping on existing groundwater users were also considered in developing DFCs. Based on the principal of using the GAM as a planning tool and the fact that the GAM predictions contain uncertainty, the BVGCD considers the DFCs to be physically possible, and acceptable if the difference between model simulation drawdown results and DFC drawdown targets are within 5 feet or 5 percent, whichever is greater, of the DFC drawdown targets.

### **Recommended Preliminary Desired Future Conditions**

Desired future conditions were estimated for the Yegua and Jackson aquifers for the period up through year 2060. Groundwater model runs with the GAM were used as a tool in estimating the desired future conditions. The desired future conditions were estimated on an average drawdown basis for the BVGCD.

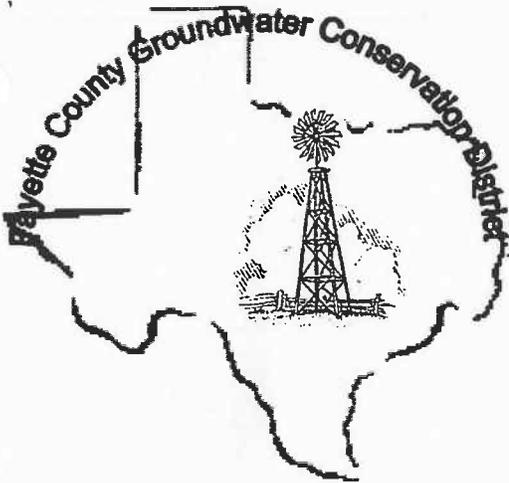
#### ***Jackson Aquifer***

The average drawdown by the year 2060 of the hydraulic head in the Jackson aquifer within the District shall not exceed 70 feet when compared to the year 2010 average head.

#### ***Yegua Aquifer***

The average drawdown by the year 2060 of the hydraulic head in the Yegua aquifer within the District shall not exceed 110 feet when compared to the year 2010 average head.

August 9, 2010



255 Svoboda Lane, Room 115  
La Grange, Texas 78945  
Telephone: (979) 968-3135  
Fax: (979) 968-3194

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**Revisions to the Desired Future Conditions for the Aquifers within the Fayette County Groundwater Conservation District as Approved by the Board of Directors on August 2, 2010**

On August 2, 2010, our Board of Directors approved the following revisions to the desired future conditions previously submitted to GMA 12 for consideration on May 26, 2010. These revisions stem from comments received by the TWDB at a meeting of the GMA 12 consultants on July 16, 2010 and, for the Yegua Jackson, based on recommendations by our consulting geologist dated July 27, 2010.

**Carrizo Aquifer** – No change from the May 26, 2010 submittal. Limit the drawdown of the water levels to an average of 60 feet for the year 2000 conditions.

**Queen City Aquifer** – Revised. Limit the drawdown to an average of 60 feet of the year 2000 conditions.

**Sparta Aquifer** – Revised. Limit the drawdown to an average of 60 feet of the year 2000 conditions.

**Yegua Jackson Aquifer** – Revised. Limit the drawdown to an average of 75 feet based on available conditions.

**Colorado Alluvium** – Remove desired future condition statements as this is not a designated aquifer and deemed non-relevant at this time.

  
David A. Van Dresar, General Manager

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**Directors:**

Robert Leer - Precinct 1

Charles Richter - Precinct 3

Leo Wick, Sr - At Large

L. J. Calley - Precinct 2

Leo Kainer - Precinct 4

# **INITIALLY PROPOSED DESIRED FUTURE CONDITIONS (DFCs)- LOST PINES GROUNDWATER CONSERVATION DISTRICT**

**June 24, 2009**

**Revised February 10, 2010**

**Revised May 26, 2010**

**Revised August 11, 2010**

## **Introduction**

GMA 12 has decided to specify a single value of allowable drawdown throughout each district for each aquifer within GMA 12 as the Desired Future Conditions (DFC). Managed Available Groundwater (MAG) will then be determined by the TWDB or by the GMA, with confirmation by the TWDB. The MAG provides the basis for issuing permits within each district. The DFC, established by the GMA, however, is the basis for managing groundwater within each district. DFCs have to be physically possible, individually and collectively, if different DFCs are stated for different geographic areas overlying an aquifer or subdivision of an aquifer.

While DFCs must be a set of conditions of the aquifers within the GMA that the districts believe are desirable, there has to be some basis for setting or arriving at those DFCs, especially one that will stand up through the petition process. Simply to say that no amount of drawdown is acceptable is unacceptable, because it is impossible to produce groundwater without inducing drawdowns. Given enough time and pumpage, drawdowns related to pumpage from the confined portions of the aquifer can become rather widespread. While it is viewed by some as "reverse engineering" the DFCs must protect the existing users and yet consider the future demands for groundwater within the district; where will the water come from to meet growing demands if it doesn't come from within the district. Good conservation will mitigate the amount of demands, but demands are bound to grow as the population within the district grows. The district has no control over growth. Approximately 90% of the LPGCD is served by rural water supply corporations, which are legally obligated to meet the demands within their CCNs.

## **Considerations LPGCD Took Into Account**

The LPGCD has used the municipal and non-municipal water demand projections for 2000-2060 that were obtained from the 2006 Regional Water Plans for Regions K and G. However, at the time the original model file was developed, only the Initially Prepared Plan (IPP) was available for Region G and those demand projections were used to develop the original LPGCD model file. There are minor differences in a couple of the demand categories between the 2006 Region G IPP and the approved 2006 Region G plan. These differences are at most 6% for a given decade and are well within an acceptable range of accuracy as determined by LPGCD.

The 2006 Regional Water Plans were used to develop the 2007 State Water Plan. However, the 2007 State Water Plan tabulates concisely only in-GCD demands. To determine out-of-GCD demands from the State Water Plan would be very difficult, and it might not be possible unless one knew every single potential destination of groundwater sourced from a GCD. That would be possible only if the

August 11, 2010

groundwater source were properly referenced by the receiving county. Nonetheless, LPGCD has used the 2007 State Water Plan demand estimates as a basis for projecting demands for groundwater within Bastrop and Lee counties and as a basis for setting the initial DFCs for consideration by GMA-12. These estimates of future demands are largely related to entities that already withdraw groundwater from within the district; out of district transfers or speculative demands included in the 2007 State Water Plan demand estimates compose a relatively small amount of the estimated pumpage. No amount of demand was allocated for potential water marketers beyond that in the state's demand estimates. No currently existing or pending non-exempt well permits in LPGCD were specifically used to determine LPGCD's DFC numbers; there has been an analysis of the relationship between non-exempt and exempt pumpage within the district as compared to the 2007 State Water Plan numbers.

The Colorado River alluvium is not modeled separately in the currently available GAM; no springs are modeled, nor can they be with the currently available GAM. Most of the upland springs are related to the hard pans that occur in the sandy soils and on which there is perched groundwater; the perched water is not simulated in the GAM. The model does simulate discharge to major surface water courses, but does a poor job; the amounts and timing are not considered reliable or accurate. Nevertheless, these amounts and particular changes in the amounts are being evaluated to discern trends.

The Yegua-Jackson GAM has just been released by the TWDB in the last week or so. LPGCD is not aware of any groundwater wells within the District that are completed in any of the aquifer formations included in this newly released GAM. Therefore, LPGCD will not be setting DFCs for the Yegua-Jackson Aquifers as the aquifers are considered non-relevant for this district.

### **Process Taken Within LPGCD**

As stated, LPGCD has used the 2006 Regional Water Plans for Regions K and G and subsequently the 2007 State Water Plan estimates as a basis for anticipated water demands in the district through 2060. The State Water Plan demand estimates do not distinguish between surface and groundwater usage; however, the distinction is relatively simple for the LPGCD and only estimated demands for groundwater were incorporated into the Queen City/Sparta GAM model. ArcGIS was used to extract the drawdowns following a method suggested by Shirley Wade at TWDB. Based on the location of the centroid of each model grid cell, the model cells were assigned to a GCD and to a county. The model grid cell assignments provided by the Texas Water Development Board are available at [http://www.twdb.state.tx.us/Gam/qc\\_sp/qc\\_sp.htm](http://www.twdb.state.tx.us/Gam/qc_sp/qc_sp.htm).

Originally, when the GMA12\_3b pumping file was used by LPGCD to determine the DFCs, all cells were included in the methodology to determine average drawdown including zero cells and negative cells except as follows:

- There were 2 cells in Bastrop County in Layer 8 (Hooper) (out of 1455 cells total) that apparently went dry (values of the drawdowns were on the order of -99500). The large negative drawdowns were not included in the averaging of drawdowns by county and within the district as a whole. Similarly, large negative drawdowns occurred in layers 1 (Sparta, 2 cells) and 7 (Simsboro, 3 cells) in Bastrop County were excluded. The number of these cells is so small that the impact is not significant.
- There were 5 cells that appeared to be part of Lee County in Layers 7 and 8 (Simsboro and Hooper) that were attributed by the TWDB to Post Oak Savannah GCD. The discrepancy may be an artifact of the GCD cell assignments used by TWDB for the ArcGIS analysis. For the purpose

August 11, 2010

of determining drawdowns and to be consistent with the TWDB, these cells were assigned to POSGCD.

- Zero cells reported in Layer 7 (Simsboro) for Bastrop County were not included in the average drawdown calculation. Inspection showed that there were no zero drawdowns in Bastrop County. The zero values that appeared in the model output corresponded to cell locations that were inactive. Except as described above, however, negative values, were included in the averaging.

After LPGCD had run the GAM with the GMA12\_3b pumping file from December 31, 2000 through December 31, 2060 and used ArcGIS to determine the modeled drawdowns at the end of 2060, LPGCD's DFC committee met to review the model outputs and to discuss any possible modifications to the direct model drawdown outputs. In most cases, the modeled county-wide average drawdown in 2060 was simply rounded to the next whole number and that rounded number is LPGCD's proposed DFC. One exception to this methodology is Layer 7 (Simsboro) in Lee County. As there is already significant demand both in the LPGCD and neighboring districts for groundwater from the confined part of the Simsboro, LPGCD wanted to take a more conservative stance with this aquifer.

After discussions with the TWDB, the GMA 12 managers and consultants decided that GMA-wide methodologies must be employed to continue the DFC determination process. These GMA-12-wide directives include using the time periods of January 1, 2000 to January 1, 2060 to calculate drawdowns, employing a method (comparable to the GIS method described above) to calculate drawdown for every model cell which results in cells assigned to the same counties as TWDB would assign them. The consultants in GMA12 initially decided to use the elevation of the base of the cell as the head in dry cells and use that head for the drawdown calculation. However, the total number of dry cells within the Lost Pines GCD is very small; at most, there are five dry cells in a single layer (the Sparta) which amounts to 0.8% of the total number of cells for this layer. Layers 3, 5, and 6 have no dry cells and Layers 7 and 8 have 1 and 2 dry cells, respectively, which amount to 0.1% of the total cells for each of these layers. Since the number of dry cells is so small, there is a negligible difference between counting them and ignoring them. Therefore, for the sake of simplicity, they were ignored in the actual calculation in LPGCD.

Continued communication and work between members of GMA-12 allowed for a new, updated model well file called GMA12\_910 or GMA12\_7a. The outputs from the GMA12\_910 well file indicated that initially there was some disparity between LPGCD's proposed DFCs and those of neighboring POSGCD's DFCs, especially in the Simsboro Aquifer. As a compromise, LPGCD's Board of Directors voted in April 2010 to increase the recommended 2060 DFC for the Simsboro from 212 ft (average drawdown as compared to 2000) to 237 ft (average drawdown as compared to 2000). This adjustment allows POSGCD to achieve their DFC of 300 ft (average drawdown as compared to 2000). In turn, POSGCD adjusted their proposed DFCs in the Carrizo Aquifer to meet LPGCD's DFCs in the Carrizo Aquifer.

Additionally, Lost Pines GCD will not be recommending DFCs for the District for the Yegua-Jackson Aquifer. While the Yegua Jackson Aquifer does receive recharge from direct precipitation, this aquifer is not known to be used by either exempt or nonexempt wells within the District, therefore, LPGCD considers the Yegua Jackson Aquifer to be a non-relevant aquifer at this time.

As LPGCD and the surrounding districts monitor water levels and learn about how the Simsboro aquifer responds to pumping, especially in the confined portion, LPGCD anticipates that its recommended DFCs are likely to change somewhat over time with the objective of achieving sustainability in perpetuity as stated in the district's Management Plan.

**Recommendations of LPGCD DFCs**

The numbers LPGCD is presenting for DFCs are county-wide and district-wide average drawdowns in feet in 2060 for each aquifer unit. Drawdowns are calculated as compared to 2000 measured water levels.

Geologic Unit/Aquifer Unit	County	Calculated District-wide LPGCD DFC in 2060 (Average drawdown in ft)	Recommended DFC in 2060 (County-wide Average drawdown in ft)
Sparta	Bastrop	7	7
	Lee	-	7
Queen City	Bastrop	13	10
	Lee	-	15
Carrizo	Bastrop	47	30
	Lee	-	60
Calvert Bluff	Bastrop	99	65
	Lee	-	135
Simsboro	Bastrop	237	145
	Lee	-	345
Hooper	Bastrop	129	90
	Lee	-	180

Within its district, LPGCD proposes the 2060 district-wide drawdown numbers be adopted as initial DFCs by GMA-12, and then LPGCD plans to further divide the recommended DFCs by county in the District's Management Plan; LPGCD feels that this will better handle the major difference in geologic units in the two counties (*i.e.*, Lee County has a much thicker confined part of the Carrizo-Wilcox aquifer than Bastrop County). Additionally, DFCs will be further divided in Bastrop and Lee counties to reflect different numbers for the outcrop (the water table part of the aquifer) and the confined portion of each aquifer. These subdivisions of the proposed DFCs will be reflected in LPGCDs Management Plan. It is also likely that LPGCD will create a ramp up schedule so that it can reach the final 2060 number at a set rate and not all up front at one time and to better allow the district to achieve its Management Plan goal of sustainability in perpetuity. It is anticipated that the ramp up schedule will correspond to the decadal MAGs provided by the TWDB in its MAG report to GMA 12.

LPGCD is assembling a system of monitoring wells that will be used to assess conformance with whatever DFCs are established. The district has already conceptualized how this will be done, with each monitoring well representing a specified area. As more monitoring wells are brought into LPGCD's monitoring system, the area represented by each monitoring well will be changed to refine the area it represents. The currently available GAM is calibrated to water levels in each of the aquifers; therefore, DFCs must reflect allowable changes in those water levels. We must play to the strengths of the model, not its weaknesses. The bottom line for LPGCD is that if by monitoring the water levels it feels that the aquifer is responding differently than the GAM predicted, the district has the opportunity to revisit the DFC numbers every 5 years. LPGCD is confident that with more valuable water level data monitoring, it will be able to protect its valuable groundwater resource.

# **Yegua-Jackson Aquifer Desired Future Conditions for the Mid East Texas Groundwater Conservation District**

11 August 2010

## **Introduction**

As decided by all member districts in GMA12, the Mid-East Texas Groundwater Conservation District (METGCD) Desired Future Conditions (DFCs) will be stated as average drawdowns throughout the entire district per aquifer from 2000 to 2060. Estimates of current Yegua-Jackson pumping within the district, historical groundwater level data, and the Yegua-Jackson Groundwater Availability Model (YJGAM) were used to estimate present drawdowns from current use and predict potential future drawdowns within the district. The procedures and results are presented below.

## **Considerations and Procedure Used**

### **Historic Data**

The original YJGAM simulates groundwater flow and water levels in the aquifer from the years 1900 through 1997. The total pumping in METGCD built into the final year of the model is 1,121 acft/yr, with all but 4 acft/yr in Madison County. Estimates of current pumping from the Yegua-Jackson aquifer in METGCD, based on 2010 population estimates and assuming per-capita water usage of 100 to 140 gallons per day, range from about 460 to 650 acft/yr, suggesting that the pumping inputs in the model are reasonable and conservative. The population in Madison County has experienced an almost negligible 3% growth over the previous decade, suggesting that groundwater use has not changed much over that period. A review of historical water level data from the TWDB water well database (see Figure 1) indicates that water levels in Yegua-Jackson wells in Madison County have remained steady over the past decade, suggesting that current pumping rates have resulting in negligible drawdowns throughout the district.

### **Model Results**

The pumping rates and pumping distribution in the final stress period of the YJGAM were extended out to model year 2060, and the model was run to calculate drawdowns over that period. Average model-calculated drawdowns in METGCD from 2000 to 2060, using the original well pumping inputs, are negligible (see Table 1).

## **METGCD Proposed Desired Future Conditions**

Based on the model results and water level trends over the last decade, the Mid East Texas Groundwater Conservation District proposes a Yegua-Jackson Aquifer DFC of **zero average district-wide drawdown** over the predictive period of 2000-2060. Based on predictive uncertainty of the model, METGCD considers the DFCs to be compatible and physically possible if the difference between modeled drawdown results and the DFC drawdown targets are within 5 feet or 5 percent of the DFC drawdown targets.

Table 1. YJGAM-calculated average drawdowns (in ft) by county and for the entire district with the original TWDB well file.

County/GCD	Avg. Drawdown
Leon	0.2
Madison	0.1
Entire District	0.1

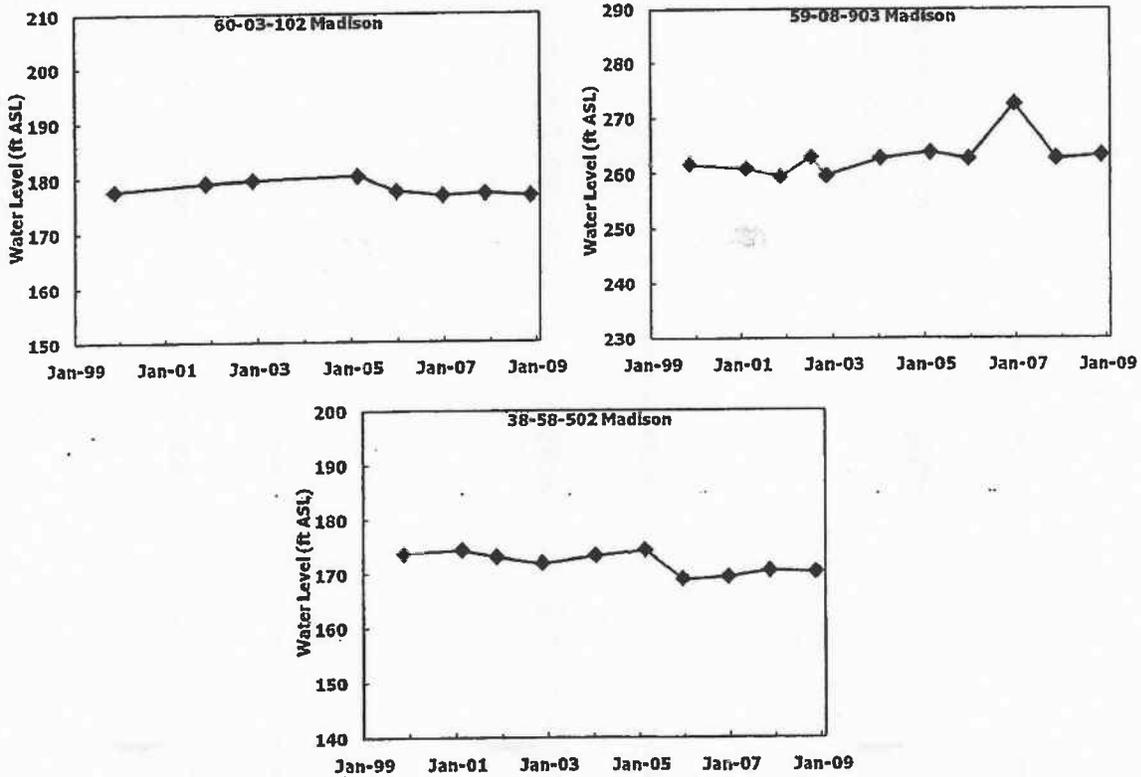


Figure 1. Water levels in Madison County wells completed in the Yegua-Jackson Aquifer

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:30 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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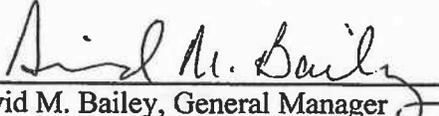
### Agenda

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1. Minutes of earlier August 11, 2010, 10:00 a.m. GMA 12 Meeting
2. Process for Setting Desired Future Conditions of the Aquifers and formations in GMA 12
3. Improvements to current Central Queen City/Sparta/Carrizo Groundwater Availability Model
4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 26th day of July, 2010.

  
\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas GCD

**COPY**  
**Original Filed**  
**At 2:20 o'clock P. M.**

**JUL 26 2010**

Charlotte Barrett, Madison County Clerk  
By   
Deputy  
Copies NOT Compared

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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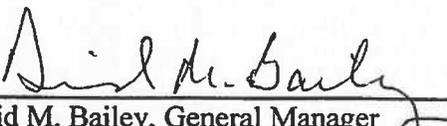
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Signed this 26th day of August, 2010.

  
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David M. Bailey, General Manager  
Mid-East Texas GCD

COPY  
Original Filed  
At 2:20 o'clock P. M.

JUL 26 2010

Charolotte Barrett, Madison County Clerk  
By   
Deputy  
Copies NOT Compared

NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12  
August 11, 2010 - 10:30 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

AGENDA

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3. Improvements to current Central Queen City/Sparta/Carrizo Groundwater Availability Model
4. Agenda items for future meetings
5. Date, time, and place for next meeting
6. Public Comment
7. Adjourn.

Date:

July 26, 2010 Peggy Champion

Peggy Champion, Administrative Assistant  
Lost Pines GCD

FILED

JUL 26 2010 2:02  
P.M.  
Rose Pietsch  
Bastrop County Clerk

NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12  
August 11, 2010 - 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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5. Adjourn

Date:

July 26, 2010

  
Peggy Campion, Administrative Assistant  
Lost Pines GCD

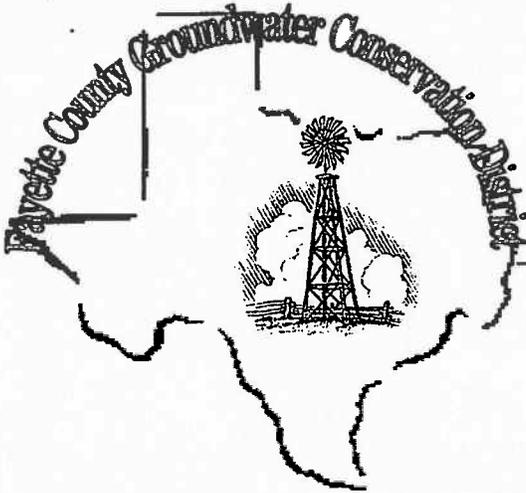
FILED

JUL 26 2010

Rose Pietsch  
Bastrop County Clerk

COPY  
THE ORIGINAL INSTRUMENT WAS  
FILED IN FAYETTE COUNTY, TEXAS ON

July 26, 2010, at  
10:30 a.m.  
S.C.



255 Svoboda Lane, Room 115  
La Grange, Texas 78945  
Telephone: (979) 968-3135  
Fax: (979) 968-3194

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

August 11, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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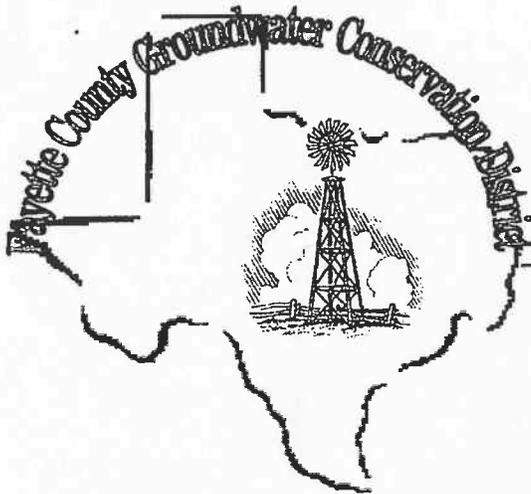
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5. Adjourn

---

**Directors:**

Robert Leer - Precinct 1  
Charles Richter - Precinct 3  
Leo Wick, Sr - At Large

L. J. Calley - Precinct 2  
Leo Kainer - Precinct 4



255 Svoboda Lane, Room 115  
La Grange, Texas 78945  
Telephone: (979) 968-3135  
Fax: (979) 968-3194

COPY  
THE ORIGINAL INSTRUMENT WAS  
FILED IN FAYETTE COUNTY, TEXAS ON

July 26, 2010, at 10:30  
a.m.  
S.C.

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**NOTICE OF MEETING**  
**GROUNDWATER MANAGEMENT AREA 12**  
August 11, 2010 – 10:30 a.m.  
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120 West Ave. E  
Milano, Texas

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**AGENDA**

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Charles Richter - Precinct 3  
Leo Wick, Sr - At Large

L. J. Calley - Precinct 2  
Leo Kainer - Precinct 4



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### AGENDA

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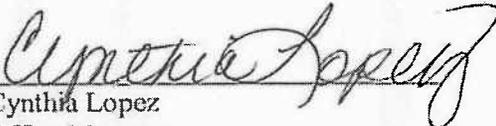
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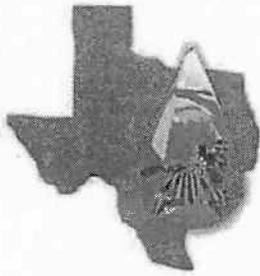
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5. Adjourn

Signed this 28th day of July, 2010

  
Cynthia Lopez  
Office Manager



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
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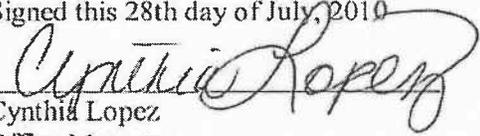
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Cynthia Lopez  
Office Manager



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. Box 528

Hearne, TX, 77859

Ph: 979/279-9350

Fax: 979/279-0035

Website: [www.brazosvalleygcd.org](http://www.brazosvalleygcd.org)

Date: 7-28-2010

Pages: 2 (including Cover Page)

2010 JUL 29 A 7:24

QUEEN, COUNTY CLERK

To: Karen McQueen  
(979) 361-4124  
(979) 361-4125 Fax

From: Cynthia Lopez  
Office Manager

Subject: Groundwater Management Area 12  
Meeting Notices

**Please post the two attached meeting notices!**

Please feel free to call or email me if you have questions or concerns at  
979-279-9350 or [clopez@brazosvalleygcd.org](mailto:clopez@brazosvalleygcd.org)

**Also, could you please fax back once you have stamped them.**

Thank you!

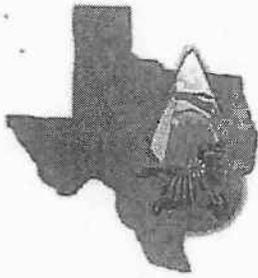
**Board of Directors**

Wayne Wilson  
John Hicks

Pete Brien  
David Stratta

Steve Beachy  
Kent Watson

Don Kyle  
Tom McDonald



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. Box 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
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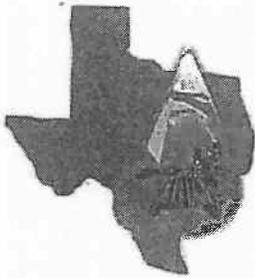
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Office Manager



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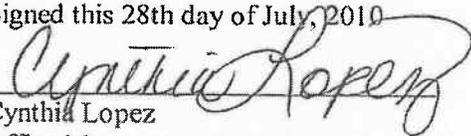
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**The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.**

1. Minutes of earlier August 11, 2010, 10:00 a.m. GMA 12 Meeting
2. Process for Setting Desired Future Conditions of the Aquifers and formations in GMA 12
3. Improvements to current Central Queen City/Sparta/Carrizo Groundwater Availability Model
4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 28th day of July, 2010

  
Cynthia Lopez  
Office Manager



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:30 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

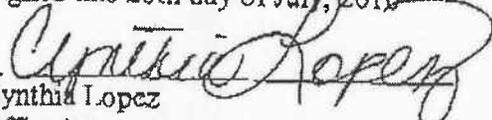
### AGENDA

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4. Agenda items for future meetings
5. Date, Time, and Place for next meeting
6. Public Comment
7. Adjourn

Signed this 28th day of July, 2010

  
Cynthia Lopez  
Office Manager

FILED FOR RECORD  
COUNTY CLERK  
Brazos Valley Groundwater Conservation District  
JUL 28 AM 10:19  
HEARNE, TEXAS



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 11, 2010 – 10:00 a.m.

Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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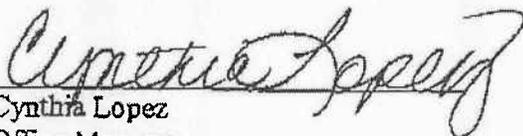
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The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.

1. Welcome and introductions
2. Minutes of May 26, 2010 GMA 12 second Meeting
3. Presentation of proposed desired future conditions (DFCs), and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board
4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

Signed this 28th day of July, 2010

  
Cynthia Lopez  
Office Manager

FILED FOR RECORD  
COUNTY CLERK  
HEARNE, TEXAS  
JUL 28 AM 10:19  




## Post Oak Savannah Groundwater Conservation District

310 East Avenue C  
P. O. Box 92  
Milano, Texas 76556

Phone: 512-455-9900  
Fax: 512-455-9909  
Email: [posgcd@tconline.net](mailto:posgcd@tconline.net)  
Website: [www.posgcd.org](http://www.posgcd.org)

**Gary Westbrook, General Manager**

August 26, 2010

Mr. J. Kevin Ward, Executive Administrator  
Texas Water Development Board  
P.O. Box 13231  
Austin, Texas 78711-3231

RECEIVED

AUG 30 2010

TWDB

*Sent via U.S. Mail Certified # 7009 3410 0000 9242 3477*

*Kevin*  
Dear Mr. Ward,

On behalf of the Groundwater Conservation Districts (GCDs) of Groundwater Management Area 12 (GMA 12), I am pleased to submit the enclosed packet of required information concerning formal adoption of GMA 12 Desired Future Conditions (DFCs) which took place at an appropriately noticed and posted meeting of the GCDs of GMA 12 on August 25, 2010. This packet contains all of the information as required by Chapter 36, Texas Water Code, and the Texas Water Development Board (TWDB) checklist as provided in TWDB's publication, "How to Submit Desired Future Conditions to the Texas Water Development Board."

I will also serve as contact for GMA 12 for this purpose. Should you have any questions or require additional information, please do not hesitate to contact me at the address listed above.

Sincerely,

Gary Westbrook  
General Manager  
Post Oak Savannah GCD

**POST OAK SAVANNAH GROUNDWATER CONSERVATION DISTRICT**  
**Groundwater Management Area 12 Meeting**  
Milano Community and Civic Center  
120 West Avenue E  
Milano, Texas 76556  
August 25, 2010 – 10:00 a.m.

**MINUTES**

**Name**

**Entity**

Please see attached or included list of attendees

**1. Welcome and introductions**

Nathan Ausley with the Post Oak Savannah GCD, serving as chair person, opened the meeting at 10:00 a.m. and invited those seated at the head table to introduce themselves, and reminded all who were in attendance to sign the sign-in sheet at the front door.

**2. Minutes of August 11, 2010 GMA 12 Second Meeting**

David Van Dresar moved to approve the minutes from the August 11, 2010 Second Meeting. The motion was 2<sup>nd</sup> by Ralph Crum. The motion carried unanimously.

**3. Presentation of proposed desired future conditions (DFCs) and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board**

Brazos Valley GCD- Ralph Crum reminded GMA 12 that at the August 11, 2010 GMA 12 meeting, GMA 12 had agreed to delay adoption of a DFC for BVGCD in the Brazos Alluvium pending results from additional studies of that aquifer. He then presented a Resolution from BVGCD stating that after these evaluations, BVGCD views the Brazos Alluvium as not relevant within the BVGCD to the joint planning process of GMA 12, and requests GMA 12 adopt this statement into the DFCs for GMA 12.

**4. Public hearing and possible action to adopt desired future conditions (DFCs) and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.**

Chairman Nathan Ausley opened the public hearing and invited comments on the proposed BVGCD Resolution of 8-24-10.

There was no comment.

Nathan Ausley closed the Public Hearing.

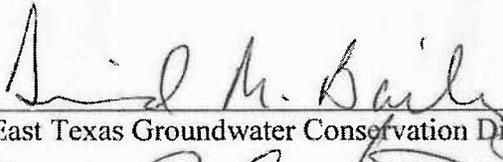
Joe Cooper moved that GMA 12 view the Brazos Alluvium as not relevant within the BVGCD to the joint planning process of GMA 12, and to submit this statement on behalf of GMA 12 as part of the joint planning process. David Bailey seconded. Nathan Ausely asked for discussion. There was none. The motion carried unanimously, with all five representatives listed below voting for the motion.

**5. Adjourn**

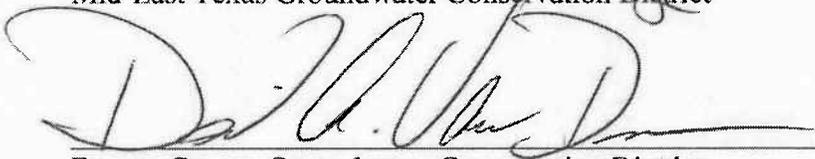
The meeting adjourned at 10:06 a.m.

**THE ABOVE MINUTES OF THE MEETING OF GROUNDWATER MANAGEMENT AREA 12 HELD ON AUGUST 25, 2010 WERE APPROVED AND ADOPTED BY GMA 12 AT A MEETING LATER ON AUGUST 25, 2010**

ATTEST:



Mid-East Texas Groundwater Conservation District



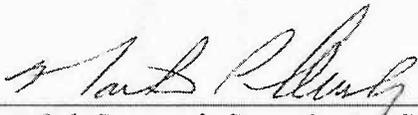
Fayette County Groundwater Conservation District



Brazos Valley Groundwater Conservation District



Lost Pines Groundwater Conservation District



Post Oak Savannah Groundwater Conservation District

**ATTACHMENTS**

Appendix A: Copies of notices of May 26, 2010, meeting

Appendix B: Adopted Desired Future Conditions and supporting information

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

August 25, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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**AGENDA**

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5. Adjourn

Signed this 20th day of August, 2010.



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Gary Westbrook, General Manager, POSGCD

Filed 20 day of Aug  
in 2010, At 10:40 A.M.  
BARBARA VANSA  
County Clerk, Milam County, Texas  
By Linda Hall  
Deputy

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**NOTICE OF MEETING  
GROUNDWATER MANAGEMENT AREA 12**

**August 25, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas**

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**AGENDA**

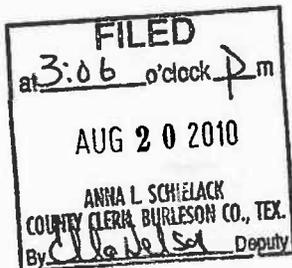
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5. Adjourn

Signed this 20th day of August, 2010.



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Gary Westbrook, General Manager, POSGCD

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**Groundwater Management Area 12**

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**Board Meeting**  
Milano Community Center  
120 West Avenue E  
Milano, TX  
August 25, 2010

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**PLEASE PRINT YOUR NAME**

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<u>NAME</u>	<u>ORGANIZATION</u>
Drew Gholson	POSGCD
Gary Westbrook	POSGCD
James Miller	city of Bastrop
DAVID BAILEY	METGCD
RAUL CRUZ	BVGCD
KEITH HANSBEEBER	LPBCD
TRAVIS McPHAIL	LPBCD
ALICE DARNELL	LOST PINES GCD " " "
GLENN MARBURGER	
Josh Grimes	LPBCD
John Seifert	LBKington Assoc
Scott Carlson	Met Water

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**Groundwater Management Area 12**

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**Board Meeting**  
Milano Community Center  
120 West Avenue E  
Milano, TX  
August 25, 2010

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**PLEASE PRINT YOUR NAME**

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**NAME**

**ORGANIZATION**

Jackie Scott

BRA

Mike Thornhill

TGI

DAVID A. VIT <sup>162</sup> DRESAR

FCGCD

Nathan Ausley

POSGCD

Joe Cooper

LPGCD

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**NOTICE OF MEETING**  
**GROUNDWATER MANAGEMENT AREA 12**  
 August 25, 2010 - 10:00 a.m.  
 Milano Community and Civic Center  
 120 West Ave. E  
 Milano, Texas

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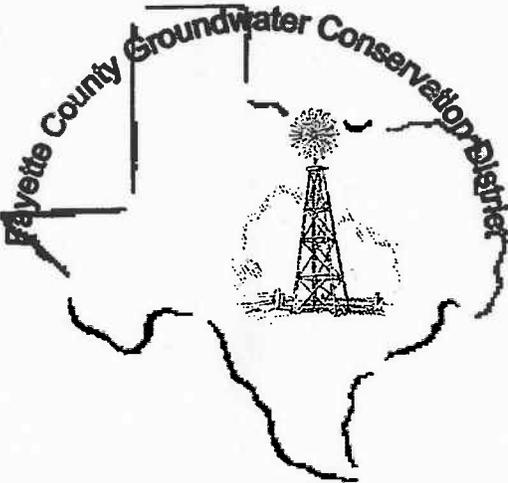
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5. Adjourn

Date: Aug 20, 2010 Peggy Champion  
 Peggy Champion, Administrative Assistant  
 Lost Pines GCD

**FILED**  
 AUG 20 2010 9:53A  
 Rose Pietsch  
 Bastrop County Clerk

m



255 Svoboda Lane, Room 115  
La Grange, Texas 78945  
Telephone: (979) 968-3135  
Fax: (979) 968-3194

COPY  
THE ORIGINAL INSTRUMENT WAS  
FILED IN FAYETTE COUNTY, TEXAS ON

Aug. 20, 2010, at  
9:00 a.m.  
S.C.

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**NOTICE OF MEETING**  
**GROUNDWATER MANAGEMENT AREA 12**  
August 25, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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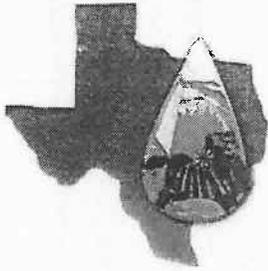
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  5. Adjourn
-



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 25, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### AGENDA

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5. Adjourn

Signed this 20<sup>th</sup>, day of August, 2010

  
Cynthia Lopez  
Office Manager



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 25, 2010 – 10:00 a.m.  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### AGENDA

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5. Adjourn

Signed this 20<sup>th</sup>, day of August, 2010

  
Cynthia Lopez  
Office Manager

  
STEVEN MCQUEEN  
COUNTY CLERK

2008 AUG 20 A 9:28

FILED

08-20-10;09:20 ;BVGCD

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;9792790035

# 3/ 4



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

P.O. BOX 528 · HEARNE, TX 77859 · (979)279-9350 · FAX: (979)279-0035  
WWW.BRAZOSVALLEYGCD.ORG

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Milano Community and Civic Center  
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Milano, Texas

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5. Adjourn

Signed this 20<sup>th</sup>, day of August, 2010

  
Cynthia Lopez  
Office Manager

FILED FOR RECORD  
COUNTY CLERK  
ROBERTSON COUNTY, TX  
10 AUG 20 AM 9:26  
Cynthia Lopez  
COUNTY CLERK

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 25, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### Agenda

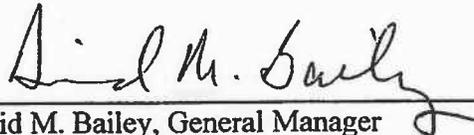
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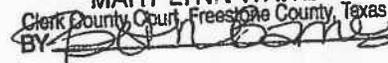
Signed this 20th day of August, 2010.



David M. Bailey, General Manager  
Mid-East Texas GCD

FILED FOR RECORD  
At 11:30 o'clock ~~11~~ M

AUG 20 2010

MARY LYNN WHITE  
Clerk County Court, Freestone County, Texas  
BY 

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 25, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### Agenda

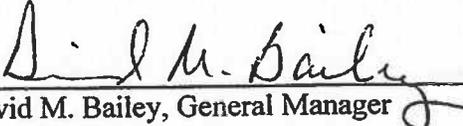
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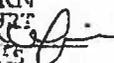
The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.

1. Welcome and introductions
2. Minutes of August 11, 2010 GMA 12 second Meeting
3. Presentation of proposed desired future conditions (DFCs), and amendments to previously adopted DFCs, for aquifers and formations in GMA 12 and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board
4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

Signed this 20th day of August, 2010.

  
\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas GCD

**FILED**  
10:10 AM  
AUG 20 2010

CARLA McHACHERN  
CLERK COUNTY COURT  
BY   
LAW COUNTY TEXAS

# Mid-East Texas Groundwater Conservation District

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## NOTICE OF MEETING GROUNDWATER MANAGEMENT AREA 12

August 25, 2010 – 10:00 AM  
Milano Community and Civic Center  
120 West Ave. E  
Milano, Texas

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### Agenda

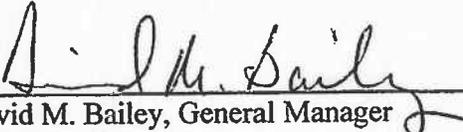
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Notice is hereby given that the groundwater conservation districts located wholly or partially within Groundwater Management Area (GMA) 12, as designated by the Texas Water Development Board, consisting of the Mid-East Texas Groundwater Conservation District (GCD), Fayette County GCD, Lost Pines GCD, Post Oak Savannah GCD, and Brazos Valley GCD, will hold a ***Joint Planning meeting at 10 a.m. on Wednesday, August 25, 2010***, in the Milano Community and Civic Center, located at 120 West Ave. E, Milano, Texas. The meeting will be open to the public.

**The subjects to be discussed or considered, or upon which any formal action may be taken, are as listed below. Items may or may not be taken in the same order as shown on this meeting notice.**

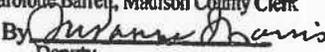
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4. Public hearing and possible action to adopt desired future conditions (DFCs) and amend DFCs for the aquifers and formations in GMA 12 as described above, and amendments to previous submissions of DFCs for GMA 12 to Texas Water Development Board.
5. Adjourn

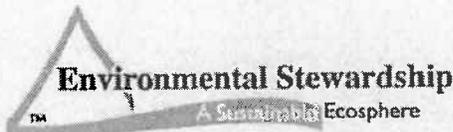
Signed this 20th day of August, 2010.

  
\_\_\_\_\_  
David M. Bailey, General Manager  
Mid-East Texas GCD

**COPY**  
**Original Filed**  
At 9:10 o'clock A. M.

**AUG 20 2010**

Charlotte Barrett, Madison County Clerk  
By   
Deputy  
**Copies NOT Compared**



25 October, 2010

RECEIVED

NOV 02 2010

TWDB

Mr. J. Kevin Ward, Executive Director  
Texas Water Development Board  
P.O. Box 13231  
Austin, Texas 78711-3231

**Re: Completing the record of the GMA 12 meeting on August 11, 2010 in which the Desired Future Conditions were adopted – Environmental Stewardship comments.**

Dear Mr. Ward:

We are providing the attached letter addressed to Groundwater Management Area 12 Board of Directors dated August 11, 2010, in order to complete the record of the meeting in which the Desired Future Conditions were adopted. The attached letter and verbal comments were provided during the public hearing but were not included with the minutes and other records provided to the Texas Water Development Board. We believe it is important that these comments be included in the record so that the TWDB and others reviewing these proceeding have the opportunity to understand the concerns raised by Environmental Stewardship and others throughout the last several years.

Specifically, Environmental Stewardship urged the Groundwater Management Area 12 Board of Directors to:

1. Add additional language to the currently accepted desired future conditions to protect the Carrizo-Wilcox Aquifer and Colorado River relationship in the desired future conditions (see attached), and
2. Publish to the public a "water budget" for the GMA-12 that itemizes - by county, aquifer, and decade through 2060 – precipitation recharge, surface water inflow and outflow, lateral inflow and outflow, inter-aquifer flow, wells, and change in storage.

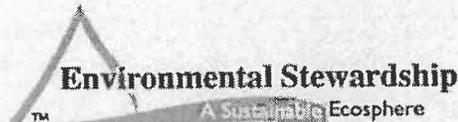
Based on the information presented by state and regional entities over the past several years, it appears likely that the desired future conditions adopted by GMA-12 to establish managed available groundwater may result in irreversible changes in the river-aquifer relationship. Given the importance of these water resources to our region, we believe it is imperative that actions be taken to monitor for such impacts and take corrective actions should they occur.

We are hereby requesting that these documents be made part of the public record at the Texas Water Development Board and posted on the TWDB website along with the other documents entitled "Desired Future Conditions adopted – August 11, 2010." Please feel free to contact me should you have any questions.

Respectfully submitted,  
Environmental Stewardship

Steve Box  
Executive Director

Environmental Stewardship is a charitable nonprofit organization whose purposes are to meet current and future needs of the environment and its inhabitants by protecting and enhancing the earth's natural resources; to restore and sustain ecological services using scientific information; and to encourage public stewardship through environmental education and outreach. We are a Texas nonprofit 501(c) (3) public charity headquartered in Bastrop, Texas. For more information visit our website <http://Environmental-Stewardship.org/>.



11 August, 2010

Board of Directors  
Groundwater Management Area-12  
c/o Post Oak Savannah GCD  
310 East Ave. C  
Milano, Texas 76556

**Re: Urging GMA-12 to protect the Carrizo-Wilcox Aquifer and Colorado River groundwater-surface water relationship in the desired future.**

Dear Board of Directors:

Environmental Stewardship urges the Groundwater Management Area 12 Board of Directors to:

3. Add additional language to the currently accepted desired future conditions to protect the Carrizo-Wilcox Aquifer and Colorado River relationship in the desired future conditions (see attached), and
4. Publish to the public a "water budget" for the GMA-12 that itemizes - by county, aquifer, and decade through 2060 – precipitation recharge, surface water inflow and outflow, lateral inflow and outflow, inter-aquifer flow, wells, and change in storage. Examples include: GAM Runs 04-01 and 06-09 by Mid-East Texas GCD; GAM Run 08-70 for GMA-9.

The attached provides justification for our requests, describe actions that we request be taken, and contains paragraphs we would like to be included in current and future Groundwater Management Area 12 desired future conditions. Based on the information presented by state and regional entities over the past several years, it appears likely that the desired future conditions being submitted by GMA-12 to establish managed available groundwater may result in irreversible changes in the river-aquifer relationship. Given the importance of these water resources to our region, we believe it is imperative that actions be taken to monitor for such impacts and take corrective actions should they occur.

We appreciate the efforts of the GMA-12 to protect these natural resources by balancing the human demand for water against environmental needs. We look forward to working with the member Districts in planning, funding, and implementing the requested program over the next few years. Please feel free to contact me should you have any questions.

Respectfully submitted,  
Environmental Stewardship

Steve Box  
Executive Director

Environmental Stewardship is a charitable nonprofit organization whose purposes are to meet current and future needs of the environment and its inhabitants by protecting and enhancing the earth's natural resources; to restore and sustain ecological services using scientific information; and to encourage public stewardship through environmental education and outreach. We are a Texas nonprofit 501(c) (3) public charity headquartered in Bastrop, Texas. For more information visit our website <http://Environmental-Stewardship.org/>.

## **Urging and requesting that the following language to be included in the Desired Future Conditions for Groundwater Management Area 12**

**Protective Groundwater-Surface Water Safeguards** – Having considered the water needs of Central Texas and the potential water available from the aquifers under the jurisdiction of Groundwater Management Area 12 (GMA-12), and in consideration of the potential irreversible changes that might result from implementation of the desired future conditions described herein, the GMA-12 is committed to working with member Districts to investigate and install monitoring programs that will provide an early warning of potential unintended impacts to the Colorado River, streams and springs within Bastrop, Lee, and other counties as determined to be appropriate.

Realizing the social, economic and ecological value of these surface water resources to Bastrop, Lee and other counties, it is important that these resources be monitored in order to detect significant changes in the historical groundwater-surface water relationships that might have unintended adverse impacts. Historical records<sup>1</sup> and recent studies<sup>2</sup> indicate that the Colorado River has been, and remains, a gaining river as it passes through the river segment associated with the Carrizo-Wilcox aquifer group, especially the Simsboro outcrop. The historical low-flow studies conducted by the USGS<sup>1</sup> in 1918 and flow-duration curve generated by Dutton<sup>1</sup> in 2003 indicate that these groundwater formations contribute a volume of water that approximates 25,000 acre-feet per year to the Colorado River (26,100 acre-feet per year was used to calibrate the Carrizo-Wilcox groundwater availability model). The Lower Colorado Regional Water Planning Group (Region K) estimates that over-pumping of these aquifers could cause this historical relationship to change from a "gaining" to a "losing" river by 2050<sup>3</sup>, and recent GAM studies<sup>4</sup> of the region have shown a recent decline in surface water outflows. It is reasonable and prudent therefore that the GMA-12 take appropriate actions to monitor and protect against such impacts should they start to occur.

Monitoring of the groundwater-surface water relationship of the Colorado River and the Gulf Coast aquifer has been accomplished in the coastal portion of the basin providing a model for a potential monitoring project. The LCRA-SAWS<sup>5,6,7</sup> Water Project developed and implemented such a program in Wharton and Matagorda counties where the river is associated with the Gulf Coast Aquifer. Such a project, where shallow wells are placed in close proximity to existing river and stream gage stations, would likely provide an adequate means of monitoring this relationship. The information gained would likewise be helpful in guiding remedial actions should they be needed in order to protect the integrity of the aquifers and surface waters. Therefore, the GMA-12 will evaluate this program and determine whether it would be suitable for our segment of the basin and, if appropriate, install a similar system in the region.

Action levels are an important element of any program that is designed to provide early warning along with an opportunity to take remedial actions to prevent unintended impacts from occurring. As such, the GMA-12 will work with member Districts to set action levels that are linked to management actions to be taken in the event the action levels are met. These action levels and management actions will be incorporated into the management plans and rules of the Districts. These action levels and management practices will be a part of the District's ongoing adaptive management practices that can be adjusted as experience is gained in monitoring and studying the groundwater-surface water relationship.

1. Dutton, Alan R., Bob Harden, Jean-Philippe Nicot, and David O'Rourke. February 2003. Groundwater Availability Model for the Central Part of the Carrizo-Wilcox Aquifer in Texas, Appendix B – Surface Water- Groundwater Interaction in the Central Carrizo-Wilcox Aquifer.

2. Saunders, Geoffrey P. June 2009. Low-Flow Gain-Loss Study of the Colorado River in Bastrop County, Texas.

3. Lower Colorado Regional Water Planning Group. January 2006. Adopted Region "K" Water Plan for the Lower Colorado Regional Water Planning Group.

4. Hutchinson, Bill. November 18, 2009. Presentation to the Lost Pines Groundwater Conservation District Board: Joint Planning in Groundwater Management Area 12.

5. LSWP Groundwater for Agriculture Team: URS Corporation, Baer Engineering and Environmental Consulting, Inc. June 2006. Shallow Monitoring Well Installation Wharton and Matagorda Counties, Texas.

6. LSWP Groundwater for Agriculture Team: URS Corporation, Baer Engineering and Environmental Consulting, Inc. March 2008. Monitoring Data Report from April 2006 to December 2007 for the LSWP Shallow Wells Installed in Wharton and Matagorda Counties, Texas.

7. URS Corporation, INTERA, and Baer Engineering and Consulting. April 2009. Development of the LCRB Groundwater Flow Model for the Chicot and Evangeline Aquifers in Colorado, Wharton, and Matagorda Counties.

**WHEREAS**, there are a number of State, Regional, County, and local government and public stakeholder organizations that are charged with protecting these resources for today and the future including the Lower Colorado Regional Water Planning Group, the Lower Colorado River Authority, Groundwater Management Area 12, the member Groundwater Conservation Districts, and county and city governments; and

**WHEREAS**, the currently contemplated desired future conditions of GMA-12 do not adequately consider the potential impact of over-pumping on spring flow or other interactions between groundwater and surface water as required by the Texas Administrative Code Section 356.45 (i)(3); and

**WHEREAS** the current desired future conditions and the rules of the GMA-12 member Districts do not, before granting or denying a permit or permit amendment, adequately consider whether the proposed use of water unreasonably affects existing groundwater and surface water resources or existing permit holders, as required by the Texas Water Code Section 36.113 (d)(2); and

**WHEREAS** Section 36.108 (p) of the Texas Water Code provides that Districts located within the same groundwater management areas or in adjacent management areas may contract to jointly conduct studies or research, or to construct projects, under terms and conditions that the districts consider beneficial, and these joint efforts may include studies of ... the interaction of groundwater and surface water; and

**WHEREAS**, the currently contemplated desired future conditions of GMA-12 do not provide for monitoring, triggers, and rules to protect these valuable resources from the potential impact of over-pumping on the groundwater-surface water relationship; and

**WHEREAS**, the Groundwater Management Area-12 Board of Directors desire that these important groundwater and surface water resources be protected from unintended impacts to the extent reasonably available within the context of the laws, regulations, and codes of the State of Texas.

**NOW, THEREFORE, WE URGE and REQUEST THAT:**

1. The Groundwater Management Area-12 Districts include the attached paragraphs, or substantively equivalent language, as an addition to their desired future conditions; and
2. The Groundwater Management Area-12 Districts cooperate in taking all reasonable actions necessary to establish monitoring, pumping triggers, and rules, as described in the attached paragraphs, to ensure that the Colorado River and associated streams and springs of the region are adequately protected.

## **GMA-12 DFC Hearing Comments**

### **URGING GMA-12 TO PROTECT THE CARRIZO-WILCOX AQUIFER & COLORADO RIVER GROUNDWATER-SURFACE WATER RELATIONSHIP IN THE DESIRED FUTURE CONDITIONS OF GROUNDWATER MANAGEMENT AREA-12**

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**WHEREAS**, the Carrizo-Wilcox Major Aquifer and the Colorado River are important natural water resources to the ecology, citizens and economic viability of the Lost Pines Region; and

**WHEREAS**, the groundwater conservation districts of Groundwater Management Area 12 (collectively GMA-12) are required by Sec. 36.108. Water Code to work jointly to adopt desired future conditions for each aquifer within their jurisdictions; and

**WHEREAS**, Texas Parks and Wildlife Department, the National Wildlife Federation, Lone Star Chapter of the Sierra Club, Environmental Defense Fund, and Environmental Stewardship have urged that the five groundwater conservation districts in the GMA-12 protect the groundwater-surface water relationship between the Carrizo-Wilcox Major Aquifer and the Colorado and Brazos rivers, and their associated streams and springs; and

**WHEREAS**, the citizens of Bastrop County in Opportunity Bastrop County, an initiative of the Bastrop County Commissioners' Court recognize the importance of the groundwater and surface water resources to the near- and long-term future of our region (adopted by the Court on December 10, 2007 and by the city of Smithville on May 13, 2008); and

**WHEREAS**, the environmental goal of Opportunity Bastrop County is to retain and enhance the rural character of Bastrop County while encouraging growth that is in balance with human and environmental needs, both today and in the future; and

**WHEREAS**, the Colorado River gains water from the Simsboro and other aquifers formations as it passes through Bastrop County<sup>1,2,3</sup>; and

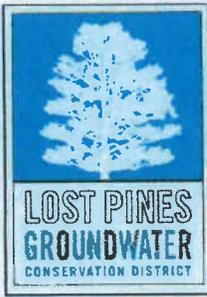
**WHEREAS**, the Colorado Regional Water Planning Group (Region K), which includes Bastrop County, has predicted that with currently planned groundwater pumping in the region<sup>3</sup> the Colorado River will become a "losing river" by 2050; and

**WHEREAS**, the Colorado Regional Water Planning Group (Region K), passed a resolution in support of sustainable management of the groundwater resources of the region discouraging over-pumping of the aquifers<sup>3</sup>; and

**WHEREAS**, the Carrizo-Wilcox Aquifer is an artesian aquifer, and that artesian pressure creates springs and seeps that provide surface water outflows; and

**WHEREAS**, the Carrizo-Wilcox Aquifer is a sand aquifer where only 3-5% of precipitation over the outcrop area creates recharge, which means it will take hundreds or possibly thousands of years to recover should over-pumping occur; and

**Appendix B:**  
**Evidence of Coordination with Surface Water Management Entities**



Lost Pines Groundwater Conservation District  
908 NE Loop 230  
Post Office Box 1027  
Smithville, TX 78957  
Tax ID Number 74-2955722

512-360-5088  
FAX: 512-360-5448  
Email: [lpgcd@lostpineswater.org](mailto:lpgcd@lostpineswater.org)  
Web Site: [www.lostpineswater.org](http://www.lostpineswater.org)

**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Region K Regional Water Planning Group  
LCRA  
Attn: Region K  
Mailstop R325  
P.O. Box 220  
Austin, TX 78767-0220

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach



**Lost Pines Groundwater Conservation District**  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Brazos G Regional Water Planning Group  
Mr. Trey Buzbee, Administrative Agent, Brazos River Authority  
Ms. Jennifer White  
c/o Brazos G Regional Water Planning Group  
P.O. Box 7555  
Waco, TX 76714

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

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Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Brazos River Authority  
P.O. Box 7555  
Waco, TX 76714-7555

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

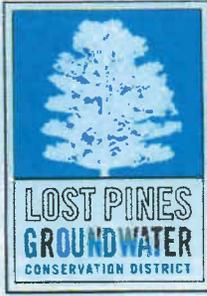
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Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Lower Colorado River Authority  
P.O. Box 220  
Austin, TX 78767-0220

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

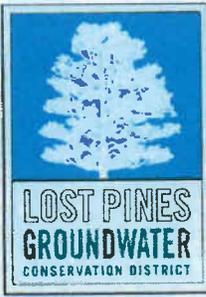
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Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach



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Web Site: [www.lostpineswater.org](http://www.lostpineswater.org)

**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Bastrop West Water Company  
379 Highway 95 N  
Bastrop, TX 78602-5805

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

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Very truly yours,

Joe Cooper  
General Manager

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Austin  
P.O. Box 1088  
Austin, TX 78767-1088

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

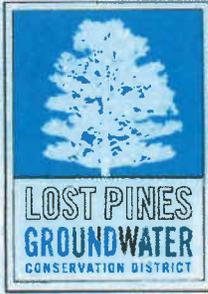
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Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Southwest Milam WSC  
P.O. Box 232  
Rockdale, TX 78567-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

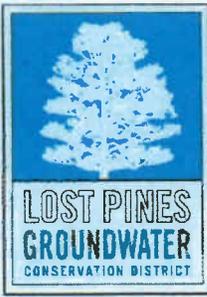
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Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Manville WSC  
P.O. Box 248  
Coupland, TX 78615-0248

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

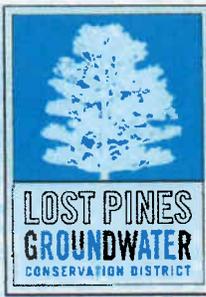
Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors

Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach



Lost Pines Groundwater Conservation District  
908 NE Loop 230  
Post Office Box 1027  
Smithville, TX 78957  
Tax ID Number 74-2955722

512-360-5088  
FAX: 512-360-5448  
Email: [lpgcd@lostpineswater.org](mailto:lpgcd@lostpineswater.org)  
Web Site: [www.lostpineswater.org](http://www.lostpineswater.org)

**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Lincoln WSC  
P.O. Box 336  
Lincoln, TX 78948-0336

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

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Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Lexington  
P.O. Box 56  
Lexington, TX 78947-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Giddings  
118 E. Richmond Street  
Giddings, TX 78942-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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Joe Cooper, General Manager

October 9, 2012

**BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED**

Polonia WSC  
P.O. Box 778  
Lockhart, TX 78644-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Lee County WSC  
P.O. Box 8  
Giddings, TX 78942-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

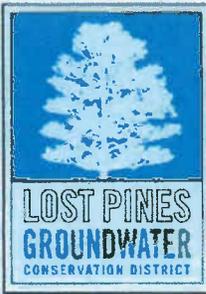
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General Manager

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

K & K Water Company  
231 Mandy Lane  
Red Rock, TX 78662-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

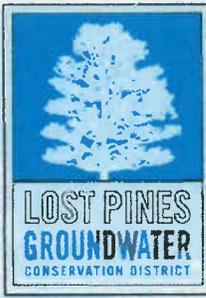
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General Manager

**Board of Directors**

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Creedmoor-MAHA WSC  
12100 Laws Road  
Buda, TX 78610-9607

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Smithville  
P.O. Box 150  
Smithville, TX 78957-0150

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Elgin  
P.O. Box 591  
Elgin, TX 78621-0000

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

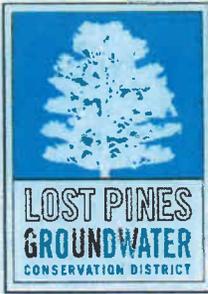
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Board of Directors

Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

City of Bastrop  
P.O. Box 427  
Bastrop, TX 78602-0427

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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Board of Directors  
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Lost Pines Groundwater Conservation District  
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Aqua WSC  
P.O. Box P  
Bastrop, TX 78602-1989

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Lee-Fayette Counties Cummins Creek WCID 1  
P.O. Box 1026  
La Grange, TX 78945-1026

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Lee County FWSD 1  
P.O. Box 74  
Dime Box, TX 77853-0074

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

XS Ranch MUD  
8500 Bluffstone Cove Suite B104  
Austin, TX 78759-7811

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

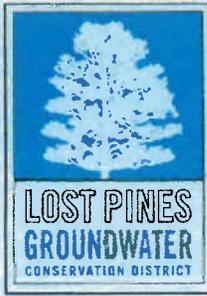
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

The Colony MUD 1F  
100 Congress Ave., Suite 1300  
Armbrust & Brown LLP  
Austin, TX 78701-2744

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

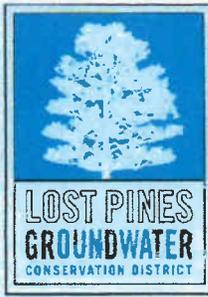
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Joe Cooper, General Manager

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

The Colony MUD 1E  
100 Congress Ave., Suite 1300  
Armbrust & Brown LLP  
Austin, TX 78701-2744

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

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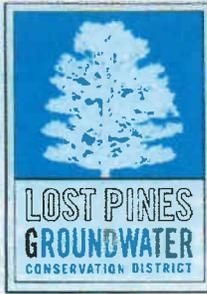
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Joe Cooper, General Manager

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

The Colony MUD 1A  
100 Congress Ave., Suite 1300  
Armbrust & Brown LLP  
Austin, TX 78701-2744

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

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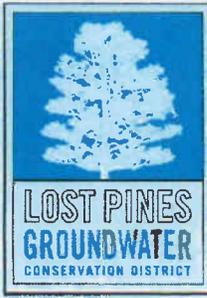
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General Manager

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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Bastrop County WCID 3  
P.O. Box 1627  
Bastrop, TX 78602-1627

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

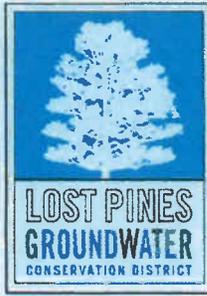
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**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Bastrop County WCID 1  
P.O. Box 814  
McDade, TX 78650-0814

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

Please do not hesitate to call if you have any questions.

Very truly yours,

Joe Cooper  
General Manager

Board of Directors

Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach



**Lost Pines Groundwater Conservation District**  
**908 NE Loop 230**  
**Post Office Box 1027**  
**Smithville, TX 78957**  
**Tax ID Number 74-2955722**

**512-360-5088**  
**FAX: 512-360-5448**  
**Email: [lpgcd@lostpineswater.org](mailto:lpgcd@lostpineswater.org)**  
**Web Site: [www.lostpineswater.org](http://www.lostpineswater.org)**

**Joe Cooper, General Manager**

October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Bastrop County MUD 1  
3200 Southwest Freeway Suite 2600  
Allen Boone Humphries Robinson LLP  
Houston, TX 77027-7597

RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District

Dear Sir or Madam:

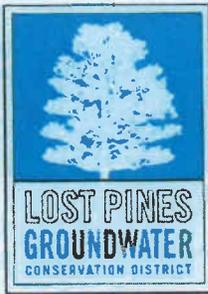
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October 9, 2012

***BY CERTIFIED MAIL, RETURN RECEIPT REQUESTED***

Bastrop County WCID 2  
P.O. Box 708  
Bastrop, TX 78660-0768

**RE: Notice of Adoption of Amended Management Plan by Lost Pines Groundwater Conservation District**

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Please take notice that on September 19, 2012, following notice and public hearing, the Board of Directors of the Lost Pines Groundwater Conservation District adopted an amended Management Plan. A copy of the amended and adopted Management Plan is enclosed for your review and comment, pursuant to 31 TAC §356.6(a)(4), concerning coordination with all surface water management entities in the District's boundaries.

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General Manager

Board of Directors  
Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach

**Appendix C:**  
**Certified Copy of District Resolution and Order Adopting Management Plan**



Lost Pines Groundwater Conservation District  
908 NE Loop 230  
Post Office Box 1027  
Smithville, TX 78957  
Tax ID Number 74-2955722

512-360-5088  
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Web Site: [www.lostpineswater.org](http://www.lostpineswater.org)

**Joe Cooper, General Manager**

October 9, 2012

*By certified mail, return receipt requested,  
And electronically*

Ms. Melanie Callahan, Executive Administrator  
Texas Water Development Board  
1700 North Congress Avenue  
P.O. Box 13231  
Austin, Texas 78711-3231

Dear Ms. Callahan:

On behalf of Lost Pines Groundwater Conservation District, I hereby certify to you, pursuant to 31 TAC 356.6(a)(2), that, after providing notice and holding a public hearing for the purpose of taking public comment on the District's proposed amended and revised Management Plan, and at a duly noticed regular meeting of the Board of Directors held on September 19, 2012, official action was taken by the Board of Directors of the District adopting by unanimous vote the amended and revised Management Plan which the District is submitting to you for official review pursuant to Tex. Water Code 36.1073. Please consider this letter as constituting certification of the District's "resolution adopting the plan or an amendment to a plan or other evidence of the district's official action to adopt the plan" pursuant to 31 TAC 356.6(a)(2).

Should you have any questions or require additional information, please do not hesitate to contact me.

Sincerely,

Joe Cooper  
General Manager

Board of Directors

Alice Darnell President, Michael Talbot Vice-President, Doug Prinz Secretary-Treasurer  
Ken Daughtry, Keith Hansberger, Travis McPhaul, Billy Sherrill, Michael Simmang Carl Steinbach

AN ORDER  
MEMORIALIZING ADOPTION OF AN AMENDED MANAGEMENT PLAN FOR  
LOST PINES GROUNDWATER CONSERVATION DISTRICT  
AND RATIFYING ITS SUBMISSION TO THE  
TEXAS WATER DEVELOPMENT BOARD

The Lost Pines Groundwater Conservation District ("the District"), having considered proposed amendments to its management plan, ordered at its August 2012 meeting that due notice be given thereof and that a public hearing be conducted at its September 19, 2012, Board meeting to receive public comments and testimony relative to the proposed draft amended management plan;

The Board finds that: the proposed draft amended management plan and the notice of hearing were placed on the District's website for public access and download; and notice of the proposed draft management plan and the hearing was published on August 30, 2012 in the *Giddings Times and News*, a newspaper of general circulation in Lee County, Texas, and on August 30, 2012, in *The Bastrop Advertiser*, a newspaper of general circulation in Bastrop County, Texas;

The Board received written comments and held a public hearing in the City of Bastrop, Texas, on September 19, 2012, to receive and hear testimony on the management plan;

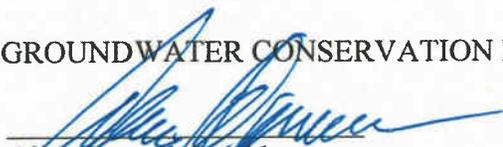
The Board, having considered written comments and oral testimony at the public hearing, and having found that the proposed draft amended management plan should be adopted, adopted the management plan by unanimous vote at its regular meeting on September 19, 2012,

NOW, THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE LOST PINES GROUNDWATER CONSERVATION DISTRICT:

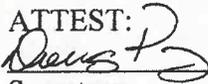
That this Order memorializing the Board's action in approving the amended management plan dated September 19, 2012, be made part of the District's proceedings, and further that the Board ratifies the actions of the General Manager in forwarding the management plan to the Texas Water Development Board for approval, according to Texas Water Code §36.1072, and further ratifies the actions of the General Manager in forwarding the management plan to Water Planning Regions G and K for comments, as well as to relevant surface water management entities.

PASSED AND APPROVED this the 17<sup>th</sup> day of October, 2012.

LOST PINES GROUNDWATER CONSERVATION DISTRICT

  
Alice Darnell, President

ATTEST:

  
Secretary

**Appendix D:**  
**Evidence of Public Notice and Hearing on Management Plan**



Lost Pines Groundwater Conservation District  
908 Loop 230  
Post Office Box 1027  
Smithville, TX 78957

512-360-5088  
FAX: 512-360-5448  
Email: lpgcd@lostpineswater.org  
WebSite: lostpineswater.org

Joe Cooper, General Manager

# FAX

<b>Date:</b>	August 29, 2012
<b>TO:</b>	Hilary
<b>Subject:</b>	2 Notices
<b>Fax Number:</b>	979-542-2988
<b>Cc:</b>	

Hilary:

Will you please post the attached two notices and send a confirmation back to me?

Thanks so much !

Peggy

Posted @ 3:57 p.m.  
on 8/29/2014 by  
Hilary Firschmick

**Sender:**  
Joe Cooper, General Manager

**Pages:**  
(Including Cover Page)

**LOST PINES GROUNDWATER CONSERVATION DISTRICT**

**NOTICE OF MANAGEMENT PLAN HEARING**

**TIME, DATE AND LOCATION**

The Board of Directors of the Lost Pines Groundwater Conservation District ("District") will conduct a hearing on proposed new District rules at:

7:00 p.m., September 19, 2012  
Bastrop City Hall  
1311 Chestnut Street  
Bastrop, TX 78602

**BRIEF EXPLANATION OF SUBJECT OF HEARING**

The proposed amendments are a comprehensive revision of the District's existing Management Plan, reflecting, among other things, statutory changes, inclusion of Desired Future Conditions, and provision of Modeled Available Groundwater by the Texas Water Development Board.

**COPIES OF PROPOSED RULES**

The proposed Management Plan is available for review and copying at the District offices, 908 NE Loop 230, Smithville, TX 78957, or at the District's website, [www.lostpineswater.org](http://www.lostpineswater.org).

**WRITTEN AND ORAL COMMENTS**

The District will accept written comments on the proposed Management Plan filed before or at the hearing. In addition, the District will accept oral comments at the hearing.

For additional information, please contact the District by calling 512-360-5088 or e-mailing [lpgcd@lostpineswater.org](mailto:lpgcd@lostpineswater.org).

Date: August 22, 2012

Peggy Champion  
Assistant Secretary

**FILED**

**AUG 29 2012 3:35**

Rose Pletsch  
Bastrop County Clerk

*pm*

STATE OF TEXAS  
COUNTY OF LEE

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED \_\_\_\_\_

David True, PUBLISHER OF THE GIDDINGS TIMES & NEWS, A WEEKLY NEWSPAPER  
PUBLISHED ON THURSDAY OF EACH WEEK AT GIDDINGS, LEE COUNTY, TEXAS WHO BEING BY ME DULY SWORN DECLARED

THAT THE ATTACHED 37ad-Notice of management planning WAS PUBLISHED 1 TIMES IN SAID NEWSPAPER. THE  
DATES OF SAID PUBLICATION BEING AS FOLLOWS:

August 30, 2012 AND THAT THE ATTACHED  
CLIPPING IS A TRUE COPY OF SAID PUBLICATION.



WITNESS MY HAND AND SEAL THIS 30 DAY OF August 20 12.

[Signature]  
EDITOR-PUBLISHER  
Candace Y. Schimank  
NOTARY PUBLIC, LEE COUNTY, TEXAS

lawful restraint, both Class A  
misdemeanor offenses.

## LOST PINES GROUNDWATER CONSERVATION DISTRICT

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Date: August 22, 2012

Peggy Champion  
Assistant Secretary

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS

COUNTY OF BASTROP

Before me, the undersigned authority, a Notary Public in and for the County of Bastrop, State of Texas, on this day personally appeared Terry Negety, who is an official representative of "The Smithville Times", a weekly newspaper published in said county and state, who, being duly sworn by me, states that the attached advertisement was published in said newspaper on the following dates, to wit:

August 30, 2012, and that the attached is a true copy of said advertisement.

T Negety

Sworn and subscribed to before me, this the 30<sup>th</sup> day of August, 2012.

Kathy Linder  
Notary Public in and for the State of Texas

**BIN IN THE COUNTRY.** Available September 16th. Call 512-303-6233.

**SMITHVILLE: NEAR DOWNTOWN**  
675; Charming 2/1; CHA, refrigerator love, W/D. Tiny yard; big front porch. References/deposit required.  
Available August. 512-461-7226

**1/2BA HOUSE IN THE COUNTRY.**  
VCH, close to Smithville, \$800 deposit, \$00 a month. 512-517-4707.

**BR/1.5BA, 2-STORY.** Beautiful & secluded. Surrounded by trees. Built by a eek. Porch, deck, ceramic & wood floor, CA/CH, washer/dryer connections, car garage, finished air conditioned at car room. Lease, no pets, no smoking. Later paid. \$925/mo. 512-581-0959.

**HUNTER'S CROSSING**  
3 Bedroom, 2.5 baths, Stone home. Super Clean! About 2300+ sq. ft. 113 Outfitter Dr. \$1195/mo & \$1195 deposit. Minimum of 1 yr. lease.  
Owner/Agent 512-321-4123

**ROOMS FOR RENT: ALL BILLS PAID.** WiFi, at TV, Washer/Dryer, furnished, peaceful setting. \$375/mo. +deposit.  
512-581-8511.

### Rentals - Manufactured Homes

**HOMES FOR RENT from \$500.00/mo.**  
2BR, 3BR & 4BR. Direct TV/Internet \$25/mo. Lots \$300/mo. RV Lots available. 512-308-1030.

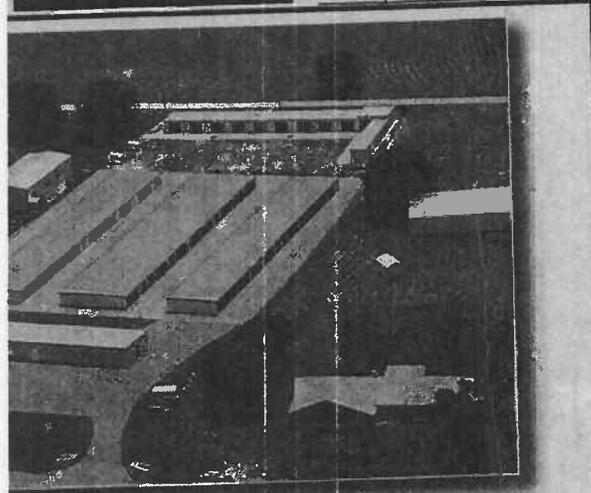
**2BR/2BA TRAILER.** \$625 month, \$200 deposit. Cedar Creek. 512-303-0076 or 512-923-2054.

### Rentals - Commercial/Office

**OFFICE/WAREHOUSE.**  
1800 SQ. FT. \$700 MONTH, Hwy 71 West at 21 & 71. Call 512-496-8537.

**OFFICE/WAREHOUSE space,** Hwy. 71, 30 to 50 cents per foot. 1500 ft. & up. Between Bastrop & Smithville. Rick 512-845-4487.

### Real Estate - Commercial



## Storage Property For Sale

Best Business with stable occupancy and income, located between Smithville and Bastrop, Texas. For more information, contact Bill Brownfield, CRE, CCIM at

# 13-366-3134

Broker, MKP Self Storage LLC  
Please do not call business directly

### NOTICE TO CREDITORS

Notice is hereby given that original Letters Testamentary for the Estate of Margaret Faye Jaecks, Deceased, were issued on August 22, 2012, in Cause No. 10,242, pending in the County Court-at-Law of Bastrop County, Texas, to: Janet Susan Terrell.  
All persons having claims against this Estate, which is currently being administered, are required to present them to the undersigned within the time and in the manner prescribed by law.

**Dr. Neal Pfeiffer**  
**Attorney at Law**  
**807 Pecan Street**  
**Bastrop, TX 78602**  
**DATED** the 22nd day of August, 2012.

### LOST PINES GROUNDWATER CONSERVATION DISTRICT

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Date: August 22, 2012  
Peggy Campion  
Assistant Secretary

property, or on a different residential property. Funds may also be used to address mitigation, accessibility, and elevation requirements.

#### Estimated activities include the following:

Infrastructure repair and landscape restoration: 1-119 sites  
Housing rehabilitation and reconstruction: 1-170 properties  
Down-Payment Assistance: 1-80 properties  
Infrastructure and housing activities under the Tier II Program are scheduled to begin by November, 2012, as specific sites are identified for environmental assessment. This funding is needed because 1) functionality needs to be restored to critical public infrastructure and drainage easements damaged by wildfire and subsequent soil erosion, and 2) there remains a significant number of wildfire-displaced low to moderate income families living in substandard conditions in the aftermath of the 2011 Bastrop County Complex Fire that were either underinsured or had no insurance. Overall, the housing loans will assist households that qualify for assistance.

#### FINDING OF NO SIGNIFICANT IMPACT

Based on findings from Broad Review, Bastrop County has determined the Program will have no significant impact on the human environment given the implementation of mitigation measures to address historical preservation; flood hazards; the protection of water quality and wetlands; the conservation of wildlife, including the Houston Toad; the effects of noise; the proximity of explosive and flammable operations; the presence of toxic chemicals and radioactive materials; and the proximity of airport hazards. The Program's infrastructure component is targeted to restore functionality to public ROWs and drainage easements in neighborhoods affected by wildfire and subsequent soil erosion. The housing component is targeted to benefit low to moderate income residents, whose properties were damaged or lost by wildfire, with safer and more energy efficient homes. Therefore, an Environmental Impact Statement under the National Environmental Policy Act of 1969 (NEPA) is not required. Additional program information is contained in the Environmental Review Record (ERR) on file with the Honorable Jim Wither, Bastrop County Judge, 804 Pecan Street, Bastrop Texas 78602 and may be examined 9:00 a.m. to 4:00 p.m.

#### PUBLIC COMMENTS

Any individual, group, or agency disagreeing with this determination or wishing to comment on the Program may submit written comments to Bastrop County at the above address or through email to [Jim.Wither@co.bastrop.tx.us](mailto:Jim.Wither@co.bastrop.tx.us). All comments received by close of business on September 15, 2012 will be considered by Bastrop County prior to authorizing submission of a request for release of funds. Commenter should specify which part of this Notice they are addressing.

#### RELEASE OF FUNDS

Bastrop County certifies to GLO and HUD that the Honorable Jim Wither, through his capacity as Bastrop County Judge consents to accept the jurisdiction of the Federal Courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. GLO's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities, and allows Bastrop County to use Program funds.

#### OBJECTIONS TO RELEASE OF FUNDS

GLO will consider objections to its release of funds and the Bastrop County certification if received by September 15, 2012 or a period of fifteen days from its receipt of the request (whichever is later) only if they are on one of the following bases: (a) the certification was not executed by the Certifying Officer or other officer of Bastrop County approved by GLO; (b) Bastrop County has omitted a step or failed to make a decision or finding required by GLO regulations at 24 CFR Part 58; (c) the recipient or other participants in the project have committed funds or incurred costs not authorized by 24 CFR Part 58 before approval of a release of funds by GLO; or (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality. Objections must be prepared and submitted in accordance with the required procedures (24 CFR Part 58) and shall be addressed to: Ms. Heather Lagrone, Program Manager, GLO, 1700 Congress Ave, Austin, TX 78701-1495. Potential objectors should contact GLO at (512) 861-4944 to verify the actual last day of the objection period.

**Bastrop County (Bastrop Advertiser):**  
**August 30, 2012**