

LOST PINES GROUNDWATER CONSERVATION DISTRICT

MANAGEMENT PLAN

September 15, 2004

INTRODUCTION

DISTRICT MISSION

The mission of the Lost Pines Groundwater Conservation District (LPGCD) is to preserve and to protect interests in groundwater within Bastrop and Lee counties. Since surface water use and permitting is governed under different statutes and regulations, this mission statement applies only to groundwater. This mission statement has five overarching management goals:

- Providing the most efficient use of groundwater
- Controlling and preventing waste of groundwater
- Addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater
- Addressing drought conditions
- Addressing conservation.

Two other overarching management goals, relevant in some groundwater conservation Districts -- controlling and preventing subsidence and addressing conjunctive surface water use issues -- are not applicable to the LPGCD. 22
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In fulfilling its mission, the LPGCD will endeavor to maintain the aquifers in the District on a sustainable basis. The LPGCD considers "sustainability" as development and use of groundwater in a manner that can be maintained in perpetuity.

TIME PERIOD COVERED BY THIS MANAGEMENT PLAN

This Management Plan becomes effective upon adoption by the Board of Directors for the LPGCD and remains in effect for ten calendar years from the date of adoption. The 9

LPGCD may review the Management Plan annually; however, once every five years, at a minimum, the District must review and re-adopt this groundwater management plan, with or without change. The adopted Management Plan must then be submitted to the Texas Water Development Board (TWDB) for certification of administrative completeness.

STATEMENT OF GUIDING PRINCIPALS

Basis

The guiding principals for the LPGCD derive from its mission statement. The LPGCD recognizes that 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 all or most all of the District. The LPGCD was created to conserve, to preserve, and to protect the groundwater resources within the two counties and to prevent waste. The LPGCD may also support artificial recharge or enhanced recharge within the District. The District believes the valuable groundwater resources in Bastrop and Lee counties can be managed in a prudent manner through education and conservation coupled with reasonable regulation. A basic understanding of the nature and occurrence of the aquifers in the LPGCD, their hydrologic properties, the locations and capacities of existing wells, the permitting of new wells, and tracking aquifer conditions through a network of monitoring wells provides the foundation for development of a management plan.

Policy

It is the policy of the LPGCD to plan for the present and future groundwater needs of Bastrop and Lee counties. 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.

The LPGCD will do three principal things to protect the water supply in Bastrop and Lee counties:

1. Regulate spacing between wells to ensure fairness and sufficient water for everyone.
2. Regulate the amount of water that large users can pump; when water levels begin to drop, it may be necessary to reduce the amount that large users pump to avoid or to minimize depletion of the water supply District-wide or in specified areas within the District.
3. Measure water levels and monitor changes in those water levels to detect declines before the declines become serious, leaving users without water.

To the extent practical, the LPGCD will attempt to manage the aquifers within its jurisdiction on a sustainable basis. The concept of sustainability, while seemingly simple, is actually quite difficult to implement. Under natural conditions, aquifers are in a state of approximate dynamic equilibrium. Over one or more centuries, or even millennia, recharge is approximately balanced by discharge or a change in storage of water within the aquifer. Absent major climatic or geologic events, discharge tends to come into balance with recharge and there is very little change in storage. Thus, the concept of sustainability is commonly taken as meaning that discharge must be limited to the amount of recharge; i.e., pumpage of groundwater should not exceed recharge to prevent a decrease in groundwater storage in the aquifer. This approach is sometimes termed achieving a "safe yield" from the aquifer. A correlative argument, also commonly advanced, is that pumping an aquifer will increase recharge and that equilibrium will be preserved through inducing greater amounts of recharge to match the greater amounts of pumping. For example, the aquifers in the LPGCD have been thought to be full to the top, as evidenced by springs and historically flowing wells, and recharge has been thought to be rejected because there is no more room for water in the aquifers. Based on investigations to date of the hydrogeology within the District, the Board of Directors of the LPGCD does not believe the aquifers are full and rejecting recharge that could otherwise be captured. Recharge is limited not by the fullness of the aquifers, but by the nature of the soils through which infiltrating water must pass to recharge the aquifers. Under these circumstances, sustainability has little to do with changing the amount of recharge and everything to do with how much natural discharge can be captured, including natural discharge to surface-water courses, the use of which is governed by a totally different set of regulations.

Compounding implementation of the concept of sustainability is that it is impossible to withdraw water from an aquifer without reducing storage, at least immediately surrounding the well while the well is being pumped. Otherwise there would be no way to induce groundwater to move to the well. In fact, to develop the groundwater resources in the District, water must be removed from storage to achieve a new state of dynamic equilibrium, if such is possible. Other compounding factors affecting sustainability are the distance between recharge and discharge, the slowness with which groundwater, and even just pressure changes, move through an aquifer, the corresponding time it takes to reach a new state of approximate dynamic equilibrium, the nature and location of natural discharge, and the geometry and parameters of the aquifer. Thus, some withdrawal of groundwater from storage is essential to the production of groundwater, but the delayed reaction of groundwater in the aquifer to changes in discharge from new wells may make achieving a new approximate dynamic equilibrium within a human lifetime, let alone the limited term of office of a director on the LPGCD Board, a practical impossibility. Allowing too much pumpage from the aquifers means that the aquifers are being mined, depleting the available resource for future generations. Allowing too little pumpage means that use of the resource is not optimized for the maximum benefit of the citizens within the LPGCD.

The Board of Directors of the LPGCD will implement this management plan and any necessary changes or modifications to adhere to the policy stated herein. In

implementing this management plan, the Board also will attempt to adhere as closely as possible to the concept of sustainability to preserve, to conserve, and to protect the natural groundwater resources of the District for the citizens of Bastrop and Lee counties and for future generations. By doing so, the LPGCD Board of Directors believes that it is bringing a long-term perspective to the management of groundwater resources within the District.

Technical Research and Studies

The LPGCD, in cooperation with the TWDB, the Texas Commission on Environmental Quality (TCEQ), the Lower Colorado River Regional Planning Group (LCRRPG or Region K), the Brazos River Regional Water Planning Group (Brazos G or Region G), and other entities, will conduct studies to better understand the nature and occurrence of groundwater resources within the District. In support of its mission statement and guiding principals, the LPGCD will undertake, from time to time, technical research and studies that are believed to lead toward better, more efficient and fair management of the water resources within the District. The LPGCD Board of Directors recognize that the foundation of good groundwater management is built upon the availability of high-quality data, ever more sophisticated analyses of groundwater flow systems, and increasingly better understanding of the interaction between groundwater and surface water.

ABOUT THE DISTRICT

GENERAL DESCRIPTION

Creation and Powers

In 1949, the Texas legislature authorized the creation of Underground Water Conservation Districts to perform certain duties and functions and to hold specific powers set forth in Article 7880-3c, Texas Civil Statutes, currently in Chapter 36 of the Texas Water Code. Section 36.0015 of the Texas Water Code, passed as Senate Bill 1 by the 75th legislature in 1997, specifies that local groundwater conservation Districts are the State's preferred mechanism by which to manage groundwater resources. The LPGCD was created in 1999 by Senate Bill 1911 of the 76th Texas legislature, pursuant to Section 59, Article 16 of the Texas Constitution. State Senator Ken Armbrister and State Representative Robbie Cook sponsored the original legislation that created the District. Creation of the LPGCD was ratified by the 77th Texas Legislature in 2001. The LPGCD was confirmed by the voters in Bastrop and Lee counties in November 2002.

The LPGCD has all the powers and duties set forth in Chapter 36 of the Texas Water Code, as reinforced by Article XVI, §59 of the Texas Constitution.

Governing Board

The LPGCD is governed by a ten-member Board of Directors, one-half of whom are appointed by the Bastrop County Judge and one-half of whom are appointed by the Lee County Judge, qualified 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, a second member to serve as vice-president, and a third to serve as secretary-treasurer. The president presides over board meetings and proceedings. The vice-president presides in the absence of the president or when the president recuses himself from any matter brought before the board. The secretary-treasurer is charged with keeping a true and correct account of all board meetings and other proceedings. The board may also appoint an assistant secretary to assist the secretary treasurer. The president may appoint committees to draft policy recommendations for the board and appoint the chair and members of each committee. A committee may comprise members of the board and/or non-board members. Each committee serves at the pleasure of the president.

Members of the Board of Directors 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 remaining members to fill out the term of office. In the absence of a General Manager, under the LPGCD rules, the president of the board is to exercise the duties delegated to the General Manager. Business of the LPGCD may be conducted when a quorum is present and notice of the board meeting has been properly posted in accordance with the Open Meetings Act.

The LPGCD Board of Directors will hold its meetings on the days and at the places established by resolution of the board. At the request of the president, or by written request of at least three board members, the board may hold special meetings. All board meetings must be held in accordance with the Open Meetings Act.

Members of the LPGCD may not communicate, directly or indirectly with any agency, person, party or representatives of a party or agency, concerning any issue of fact or law in any contested case before the board except on notice and opportunity for all parties to participate. A board member may communicate *ex parte* with other members of the Board of Directors and with staff if a quorum is not present.

Daily Operations

The LPGCD board may appoint a General Manager as the chief administrative officer of the District. The General Manager shall have full authority to manage and to operate the affairs of the District subject only to direction provided by the Board of Directors through policies and orders the board adopts. The General Manager of the LPGCD may, with the approval of the board, employ other persons necessary to carry out the daily operations of the District. The General Manager may delegate duties as may be necessary to effectively and expeditiously accomplish daily operations; however, delegation of those duties does not relieve the General Manager from overall responsibilities under the Texas Water Code, the act creating the District, or policies, orders and permits promulgated by the board.

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

All documents, records, reports, and minutes of the LPGCD are available for public inspection and copying, in accordance with the Open Records Act. Upon written request by any person, the District will furnish copies of its public records. A copying charge may be imposed, pursuant to policies established by the Board of Directors. A list of copying charges will be maintained by the District.

Requests for certified copies must be made in writing. Copies may be certified by the secretary-treasurer of the board, the assistant secretary, or the General Manager. A charge for certification may be imposed by the board, in addition to the copying charge, pursuant to policies established by the board.

Rules and Regulations

The rules and regulations of the LPGCD are contained in a separate document entitled "Lost Pines Groundwater Conservation District Rules and Regulations."

LOCATION AND EXTENT

The boundaries of the LPGCD are coincident with the boundaries of Bastrop and Lee counties with surrounding counties.

Topography

Bastrop and Lee counties lie along the inner edge of the Texas Gulf Coastal Plain. The topography is flat to gently rolling. The Colorado River bisects Bastrop County. Middle

Yegua Creek crosses Lee County. Relief is somewhat in excess of 250 feet and ranges from slightly less than 400 feet where the Colorado River exits Bastrop County to slightly greater than 650 feet along the Bastrop-Lee county line just north of the upper reaches of West Yegua Creek.

GROUNDWATER AND SURFACE WATER RESOURCES

GEOLOGY

The geologic units in Bastrop and Lee counties are entirely Tertiary and Quaternary in age. All the tertiary age geologic units dip or tilt to the southeast. From oldest (westernmost) to youngest (easternmost), the Tertiary age geologic units exposed in Bastrop and Lee counties include: the Midway Group, the Wilcox Group, the Carrizo Formation, the Recklaw Formation, the Queen City Sand, the Weches Formation, the Sparta Sand, the Cook Mountain Formation, the Yegua Formation, the Caddell Formation, the Welborne Formation, and the Manning Formation. In Bastrop and Lee counties, three formations are recognized in the Wilcox Group. From oldest to youngest, these formations are the Hooper, Simsboro, and Calvert Bluff formations. All these Tertiary age geologic units are composed of varying portions of sand, silt, and clay, with clay and silt dominating in some formations and sand in others.

Quaternary age geologic units within the LPGCD include river or stream alluvium, such as along the Colorado River and Middle Yegua Creek, and higher terrace deposits. Some of the higher terrace deposits, for example at Giddings, have no apparent relationship to modern stream courses.

GROUNDWATER RESOURCES

Aquifers

The two major aquifers within the LPGCD are the Simsboro Formation of the Wilcox Group and the Carrizo Formation. Both are predominantly sand. Lesser amounts of water can be extracted from the Hooper Formation and the Calvert Bluff Formation of the Wilcox Group. Historically, though, the Wilcox Group and the Carrizo Formation have been considered a single aquifer; one of the nine Major Aquifers of the State. The Queen City Sand and the Sparta Sand also are important aquifers, but are not used as much as the Simsboro and the Carrizo. The Queen City and the Sparta are designated Minor Aquifers in the State. Alluvium along the Colorado River also yields water for municipal supply for the City of Bastrop and for irrigation. The other geologic units in the District are not known to yield significant quantities of groundwater.

Recharge

The term "recharge" is defined in 31 Texas Administrative Code §356.2.14 as "The addition of water from precipitation or runoff by seepage or infiltration to an aquifer from the land surface, streams, or lakes directly into a formation or indirectly by way of leakage from another." Recharge to the aquifers in the LPGCD occurs from direct precipitation on the outcrop, from losses from surface water bodies, and from interformational leakage. The amount of recharge from direct precipitation appears to be more a function of the nature of the soils than the amount of precipitation. Nevertheless, recharge of direct precipitation where the sandy aquifer units crop out, that is intersect the ground surface, is higher than where the soils and formations at the ground surface are dominated by clay. Effective recharge from precipitation, that is 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. Under natural, pre-developed conditions, most interformational leakage was upward into the geologically younger formations. Locally, pumping stresses may have reversed the direction of interformational leakage.

Estimates of recharge are discussed under the Groundwater Availability Modeling below.

Storage

Groundwater storage in the aquifers within the LPGCD occurs in two different forms. The dominant form of storage is within the pore spaces between the sedimentary grains that compose the aquifer. Removal of water from that form of storage involves physically draining the pore spaces. The drainable pore space is commonly called effective porosity (it is commonly somewhat less than the actual amount of pore space) and is expressed as a percentage of a unit volume of the deposit (volume of the sedimentary grains plus the drainage volume of the pore spaces). The upper surface of groundwater within an aquifer in which the only water produced is from physically draining the pore spaces is at atmospheric pressure and is called a water table. An aquifer in which the water table is at or beneath the top of the aquifer is said to be unconfined. Examples of unconfined aquifers in the LPGCD are the Colorado River Alluvium and the outcrop areas of the Simsboro and Carrizo aquifers.

In contrast, when the water level rises to the top of an aquifer, pressure begins to build up within the aquifer and a different kind of groundwater storage occurs (in addition to the storage in the pore spaces between the grains of aquifer). The pressure derives from the weight of the water and its confinement within the aquifer. For this reason, such aquifers are known as confined aquifers. As the weight and pressure build, the water becomes slightly compressed and the aquifer expands slightly. If a well were drilled into a confined aquifer, the water level in the well would rise within the well until the pressure

at the top of the water column equilibrated with atmospheric pressure. Examples of confined aquifers are the deeper portions of the Simsboro and the Carrizo aquifers.

Because water rises above the top of the aquifer in a well drilled into a confined aquifer, the aquifer also is known as an artesian aquifer and the pressure called artesian pressure. In some situations, artesian pressure is sufficient to cause groundwater to flow at the Earth's surface. Water produced from a confined or artesian aquifer is from artesian storage -- the slight expansion of the water and the slight compression of the aquifer -- resulting in a decline in artesian or confining pressure. The aquifer remains full of water from bottom to top, however. Where aquifers extend to great depths, say several thousand feet below the Earth's surface, the buildup of pressure is considerable, and a significant, but still a relatively small portion of the total amount of water contained within such an aquifer can be in artesian storage. Only if the artesian pressure were sufficiently reduced to cause the water level in a well to drop below the top of the aquifer would the pore spaces between the grains actually drain.

Estimates of the amounts of water in storage are discussed under the Groundwater Availability Modeling, below.

Groundwater Quality

Within the LPGCD, the quality of groundwater that can be produced from the various aquifers is generally suitable for all purposes. Locally, however, the concentration of total dissolved solids (TDS), iron, and hydrogen sulfide, are elevated, limiting usefulness for potable purposes. In some places in the District, methane is produced along with groundwater. Based on current information, the occurrence of elevated concentrations of TDS, hydrogen sulfide, iron, and/or methane, cannot be accurately predicted.

Groundwater Availability Modeling

In 1999, the 76th Texas legislature approved funding, through the TWDB, of a Groundwater Availability Model (GAM) program. The stated purpose of the GAMs is to provide reliable and timely information on groundwater availability to the citizens of the state to assure adequate groundwater supplies or to recognize the inadequacy of supplies over a fifty-year planning period. Two major expectations of the GAM program are: 1) to develop standardized, thoroughly-documented, publicly available numerical groundwater flow models and supporting data; and 2) to provide predictions of groundwater availability over a fifty-year planning period, based on current projections of groundwater use and anticipated demands during normal and drought of record climatic conditions. The currently applicable GAM for the LPGCD is the one developed for the central part of the Carrizo-Wilcox Aquifer (Dutton and others, 2003, Groundwater Availability Model for the Central Part of the Carrizo-Wilcox Aquifer in Texas). This GAM is a quasi-three dimensional, numerical model based on interpretations of geologic structure and depositional settings of the Carrizo-Wilcox Aquifer, hydrologic properties,

estimates of historic water use derived from surveys, and estimated base-flow discharge into the Colorado River and other large streams in the area. The Central Carrizo-Wilcox GAM encompasses the Carrizo-Wilcox Aquifer from the surface water divide between the San Antonio and the Guadalupe rivers to the southwest and the surface water divide between the Trinity and the Neches rivers to the northeast. Similar GAMs were developed for the parts of the Carrizo-Wilcox to the southwest and to the northeast, with considerable overlap between these GAMs and the GAM for the central part of the Carrizo-Wilcox Aquifer.

The LPGCD is using the GAM for the central portion of the Carrizo-Wilcox Aquifer as a tool for evaluating the availability of groundwater within the District to assess the anticipated long-term consequences of in-District consumption and out-of-District transfer from permitted non-exempt wells within the District, and, if necessary, as a basis for developing different management zones within the District. The TWDB also has contracted for the development of a GAM for the Queen City and Sparta Aquifers and integration of the GAM for these aquifers with the existing Carrizo-Wilcox GAMs. A draft of the report for the new GAMs has already been released for review, and the new GAM for the central portion of the Carrizo-Wilcox Aquifer System is expected to become available after November 2004. Upon completion of the newer GAM, it is likely that the LPGCD will use it rather than the current GAM, which is for the Carrizo-Wilcox Aquifer only. Until the new GAMs encompassing the Wilcox, Carrizo, Queen City, and Sparta aquifers is formally released, however, it is unavailable for use.

There are no direct methods by which to estimate recharge from direct precipitation, a necessary input to the GAMs. Typically, it is on the order of just a few percent of average annual rainfall. Based on the currently applicable GAM for the Central Carrizo-Wilcox Aquifer, exclusive of interformational leakage and losses from surface water bodies, the total amount of recharge from direct precipitation in Bastrop County is 27,615.7 acre-feet per year, and the total amount of recharge from direct precipitation in Lee County is 7,438.2 acre-feet per year. Recharge to the Carrizo Aquifer from direct precipitation is estimated to be 10,841.1 acre-feet per year in Bastrop County and 3,187.8 acre-feet per year in Lee County. Recharge to the Wilcox Aquifer from direct precipitation is estimated to be 10,442.4 acre-feet per year in Bastrop County and 3,986.6 acre-feet in Lee County. Within the Wilcox, recharge to the Simsboro Aquifer from direct precipitation is estimated to be 4,793.7 acre-feet per year in Bastrop County and 1,896.2 acre-feet per year in Lee County, or approximately half of the total amount of recharge from direct precipitation received by the Wilcox in each county. Estimated recharge to the Reclaw Formation from direct precipitation in Bastrop County is only 991.4 acre-feet per year in Bastrop County and only 263.7 acre-feet per year in Lee County. Currently there are no reliable estimates of recharge from direct precipitation in the Tertiary age formations above the Reclaw Formation. The GAM for the Queen City and the Sparta aquifers should provide reasonably reliable estimates of recharge from direct precipitation for those aquifers and the bounding formations. The Midway Group, beneath the Wilcox, is predominantly clay and assumed to receive little effective recharge from direct precipitation. Colorado River Alluvium, in Bastrop County, is estimated to receive 5,340.7 acre-feet per year of recharge from direct precipitation.

There are no estimates of recharge from direct precipitation for alluvium in Lee County, or for the higher terrace deposits.

Based on the currently available GAM for the Central Carrizo-Wilcox Aquifer (i.e., excluding the Queen City, Weches, and Sparta formations and any older or younger Tertiary-age strata, the total amount of water in storage in Bastrop and Lee counties is 236,442,954.6 acre-feet. Of this total amount, 235,286,423.2 acre-feet represents the amount in storage equivalent to the effective porosity of the aquifer and 1,156,531.5 acre-feet represents the amount in artesian storage. The further down dip in the aquifer; i.e., the further toward the southeast, the greater the amount of artesian storage relative to the storage provided by the effective porosity; however, typically, the amount of water in artesian storage is less than one percent of the total amount of water in storage. The total amount of water in storage within the Simsboro Formation in Bastrop and Lee counties is 46,585,903.9 acre-feet, of which 46,387,754.6 acre-feet is the storage equivalent to the effective porosity in the Simsboro and 198,149.3 acre-feet is artesian storage. The total amount of water in storage within the Carrizo Formation in Bastrop and Lee counties is 33,482,702.4 acre-feet, of which 33,220,845.7 acre-feet is the storage equivalent to the effective porosity in the Carrizo and 261,856.6 acre-feet is artesian storage. Although there is more groundwater in storage in the Hooper, Calvert Bluff, and Reclaw formations than in the Simsboro and Carrizo Aquifers, the distribution and availability of that storage varies from place to place, is largely unobtainable, and, thus, irrelevant for planning purposes. Few high volume users or suppliers rely on groundwater stored within these formations.

There are no known estimates for the amounts of water in storage within the Queen City and the Sparta aquifers in Bastrop and Lee counties. These estimates will be best derived from the GAM that is being developed for the two aquifers, which will not be available until November 2004. Nor are there estimates for the water in storage in the Midway Group, the Weches Formation, the Cook Mountain Formation, the Yegua Formation, the Caddell Formation, the Welborne Formation, or the Manning Formation. Within the LPGCD, none of these latter formations are identified as a source of groundwater by high-volume water suppliers or users.

Groundwater Availability

Like the concept of sustainability, groundwater availability would seem to be rather simple to define and to quantify, but it is actually quite difficult to do either. The availability of groundwater is a function of many interrelated factors, the same factors that compound an effort to manage an aquifer on a sustainable basis, that no one single figure or quantity is sufficient to accurately describe the amount of groundwater that can be withdrawn on an average annual basis. One thing is clear, no groundwater can be withdrawn without depleting storage, particularly artesian storage, to some extent. It is that amount of depletion that is in accordance with the management policies and goals of the District that defines how much groundwater is available. In the end, the amount of groundwater that can be withdrawn from an aquifer over any finite period of time can be

determined only by monitoring water levels. It is for this reason that the LPGCD, in cooperation with the local municipalities and water supply companies has established a monitoring well network and a system of reporting water levels to the District.

Nevertheless, for the purposes of achieving a determination of administrative completeness, the LPGCD Management Plan must specify a figure for the amount of groundwater that ostensibly is available from aquifers within the District on an average annual basis. Lacking a better figure, and in accordance with TWDB guidance, the LPGCD has, at least on an interim basis, set the amount of groundwater available on an average annual basis approximately equal to the amount of recharge from direct precipitation in Bastrop and Lee counties as used in the currently available GAM for the central part of the Carrizo-Wilcox Aquifer (Dutton and others, 2003). This amount of recharge from direct precipitation is 28,000 acre-feet per year in Bastrop County and 7,500 acre-feet per year in Lee County, for a total of 35,500 acre-feet per year within the District. The LPGCD believes that this estimate of groundwater availability within Bastrop and Lee counties is reasonably conservative and defensible.

It is anticipated that with the finalization of the new GAM for the Queen City and Sparta aquifers, which incorporates revisions to the Carrizo/Wilcox Aquifer GAM, the figure for the amount of groundwater that is available on an average annual basis can be revised. It is further anticipated that as the LPGCD builds a history of water levels in the aquifers within the District and the basis for estimating demands for groundwater from the aquifers within the District improves that determination of the amount of groundwater available on an average annual basis can be refined.

SURFACE WATER RESOURCES

Currently surface water resources are little used in Bastrop and Lee counties because of their general lack of availability and because what is available has already been appropriated to the exclusion of new water rights permits. Surface water withdrawn from the Colorado River is used as make-up water for Lake Bastrop, which functions as a cooling pond for the Lower Colorado River Authority's Sim Gideon power plant. Another, privately owned power plant in Bastrop County also draws its cooling water from the Colorado River. Some water withdrawn from the Colorado River also is used for irrigation and a small amount of surface water also is used for irrigation in Lee County. No other uses of surface water within the LPGCD are known.

REGIONAL DEVELOPMENT

EXISTING DEVELOPMENT

Based on the most recent demand projections, developed by the Lower Colorado River Regional Planning Group (Region K) for Bastrop County and by the Brazos River Regional Planning Group (Region G) for the next iteration of the State Water Plan (2007), groundwater currently is used in the LPGCD for municipal, manufacturing, mining, livestock, and irrigation purposes (Table 1; year 2000). All water used for steam-electric (cooling water) purposes in the LPGCD is from surface water supplies. The other demand categories represent groundwater use almost entirely; surface water use in these categories is negligible for planning purposes.

Currently, the two largest demand categories are for municipal purposes, including rural-domestic demands, and for mining purposes. Demands for municipal purposes include all water used for ordinary municipal purposes; e.g., drinking, cooking, washing, bathing, sanitary purposes, lawn watering, fire fighting, and the like. Demands for mining purposes normally include dewatering requirements, to keep the mine dry, and depressurization of underlying aquifers, to prevent blowout of the mine floor. Estimated groundwater demands within the LPGCD for municipal purposes in the year 2000 were 9,315 acre-feet in Bastrop County and 2,604 acre-feet in Lee County. Estimated mining demands in 2000 were nominal in Bastrop County, but estimated to be 20,000 acre-feet in Lee County.

Almost all the mining water demands are from the Simsboro Aquifer. Most of the municipal water demands also are from the Simsboro Aquifer, although the City of Giddings and Lee County Water Supply Corporation have some wells in the Queen City Sand and a few of Aqua Water Supply's wells may be in the Calvert Bluff Formation.

DEVELOPMENT TRENDS

As indicated above, both Region G (Lee County) and Region K (Bastrop County) have recently revised projections of water supply demands in preparation for the next revision of the State Water Plan in 2007. These revised projections have been approved by the TWDB and now constitute the best available demand projections for the LPGCD. Although of and by themselves, the projections do not distinguish whether the origin of the water is surface water or groundwater, for Bastrop and Lee counties, the distinction is fairly clear-cut. Other than some minor, insignificant use of surface water for irrigation purposes, all the demands are anticipated to be met by groundwater except the for steam-electric (cooling water) demands in Bastrop County, which will be supplied entirely by surface water. These revised demand figures, then, are the groundwater demand estimates that are incorporated into this Management Plan.

TABLE 1

PROJECTED WATER DEMAND FOR BASTROP AND LEE COUNTIES

All in acre-feet

COUNTY	USE CAT	2000	2010	2020	2030	2040	2050	2060
BASTROP	Municipal	9,315	11,678	14,764	18,329	22,505	27,820	34,608
	Manufacturing	70	92	111	130	150	169	183
	Steam Electric	7,846	12,000	14,000	16,000	18,000	19,500	19,500
	Mining	28	5,033	5,035	5,036	37	38	39
	Livestock	1,522	1,522	1,522	1,522	1,522	1,522	1,522
	Irrigation	1,846	1,610	1,407	1,226	1,072	934	814
	COUNTY TOTAL	<u>20,627</u>	<u>31,935</u>	<u>36,839</u>	<u>42,243</u>	<u>43,286</u>	<u>49,983</u>	<u>56,666</u>
	(Steam Electric)	7,846	12,000	14,000	16,000	18,000	19,500	19,500
	COUNTY TOT GW	<u>12,781</u>	<u>19,935</u>	<u>22,839</u>	<u>26,243</u>	<u>25,286</u>	<u>30,483</u>	<u>37,166</u>
LEE	Municipal	2,604	2,879	3,223	3,505	3,730	3,934	4,128
	Manufacturing	11	13	14	15	16	17	18
	Steam Electric	0	0	0	0	0	0	0
	Mining	20,000	5,000	5,000	5,000	5,000	13	13
	Livestock	1,547	1,547	1,547	1,547	1,547	1,547	1,547
	Irrigation	965	940	916	891	867	842	818
	COUNTY TOTAL	<u>25,127</u>	<u>10,379</u>	<u>10,700</u>	<u>10,958</u>	<u>11,160</u>	<u>6,353</u>	<u>6,524</u>
	LPGCD TOTAL	45,754	42,314	47,539	53,201	54,446	56,336	63,190
	LPGCD TOT GW	37,908	30,314	33,539	37,201	36,446	36,836	43,690
CUMULATIVE DEMAND			423,140	898,530	1,430,540	1,975,000	2,538,360	3,170,260
CUMULATIVE GW DEMAND			303,140	638,530	1,010,540	1,375,000	1,743,360	2,180,260

Projected water demands for Bastrop County were developed by Region K and accepted by TWDB for the 2007 State Water Plan. Steam Electric water demands for Bastrop County are met entirely by surface water, and for the purposes of this Management Plan, it has been assumed that water demands for Steam-Electric uses will continue to be met by surface water resources. All other water demands for Bastrop County, except, perhaps, for small amounts of irrigation water, are currently met entirely by groundwater, and for the purposes of this Management Plan, it has been assumed that these demands will continue to be met by groundwater.

Projected Water demands for Lee County were developed by Region G and accepted by TWDB for the 2007 State Water Plan. All water demands for Lee County, except, perhaps, for small amounts of irrigation water, are currently met entirely by groundwater, and for the purposes of this Management Plan, it has been assumed that these demands will continue to be met by groundwater.

Using the newly revised demand projections has another advantage, too. The demand projections incorporated into the currently available GAM for the Central Carrizo-Wilcox Aquifer System were a hybrid of in-county demands and out-of-District transfers. Not only is it difficult to impossible to distinguish in-groundwater conservation District (in-GCD) demands from out-of-groundwater conservation District (out-of-GCD) demands, but the out of District demands reflected by various supply strategies proposed by the planning regions to meet anticipated water shortages in the regions had been reduced by proportional, but unstated, amounts so that water demands in each planning region and possible supplies for the region matched more closely.

The latest demand projections for the LPGCD through 2060 are provided in Table 1. Municipal demands in both Bastrop and Lee counties are expected to increase, more so in Bastrop County than Lee County because Bastrop County is where the major population growth is expected to occur. The demand for municipal water in Lee County over the next sixty years is projected to grow by less than a factor of two, but the demand for municipal water in Bastrop County is expected to nearly quadruple.

Mining demands for water are expected to drop over the next sixty years. The Sandow lignite mine is expected to close within the next few years, eliminating 20,000 acre-feet of dewatering/depressurization requirements for that mine. The Three Oaks lignite mine is expected to open about the same time as the Sandow Mine closes, but the projected demands for dewatering/depressurization requirements are only about 5,000 acre-feet in each county. The only discrepancy between the Region G and Region K projections is that Region G shows mining extending to or near the year 2040, whereas, Region K shows mining only until the year 2030. Region G's time estimate more closely matches ALCOA's announced life of the mine; thus in exercising the GAM, it has been assumed that the Three Oaks Mine is active until the year 2040.

Projected changes in the other demand categories -- manufacturing, livestock, and irrigation -- are relatively insignificant. Manufacturing demands are expected to increase some, especially in Bastrop County. Livestock demands are expected to hold steady, and irrigation demands are expected to decrease, again, especially in Bastrop County. Overall, the net change in these three use categories is very small.

The demand estimates prepared by the planning regions and approved by the TWDB, are for in-GCD demands only. Groundwater pumpage within Bastrop and Lee counties that is exported to neighboring counties is not accounted for. The areas encompassed by each of several retail rural water purveyor's "Certificate of Convenience and Necessity" (CCN) or other special utility Districts commonly extend outside the LPGCD. The pumpage is within the LPGCD, but recognition of demand is in the county and river basin of use. Thus, the estimates of water demand used for the purposes of preparing this Management Plan do not fully encompass all the demands on groundwater resources that currently occur and will continue to occur within the LPGCD. At present, though, there is no mechanism to account for these demands or to even assess their relative significance. According to the largest municipal water supplier operating in the District, the amount of water pumped out of the two counties is minor.

In addition, potential large transfers of groundwater out of the District are not encompassed by the water demand projections developed by the planning regions. For example, though an interlocking set of contracts among ALCOA, the San Antonio Water System (SAWS), and Central Public Service (CPS), the municipal power purveyor in San Antonio, up to 40,000 acre-feet of water potentially could be extracted from the Sandow Mine area in Milam and Lee counties and up to 15,000 acre-feet of water potentially could be extracted from the Three Oaks Mine area in Bastrop and Lee counties for transfer to San Antonio. Other water marketing entities are looking for available groundwater for transfer to Williamson County, and the Brazos River Authority has announced that it also is seeking groundwater from the Carrizo-Wilcox Aquifer for Williamson County to augment surface water supplies. These groundwater demands would be over and above those shown by planning regions G and K for Lee and Bastrop counties. Such potential demands must be separately evaluated.

GROUNDWATER SUPPLY ISSUES AND POTENTIAL SOLUTIONS

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Groundwater supply issues for the LPGCD are relatively simple and straightforward; unfortunately, potential solutions are not readily apparent. Looking solely at the total amount of water within the pore spaces between the sedimentary particles, based on the currently available GAM for the Carrizo-Wilcox Aquifer, there are approximately 235 million acre-feet of water in storage. In addition, there are slightly more than one million acre-feet of water in artesian storage, but this amount is equivalent to only about one-half percent of the amount of water in intergranular storage and, thus, is comparatively a much smaller amount of water. Unfortunately the existence of artesian storage is critical because it is the pressure associated with this artesian storage that drives the natural behavior of the aquifers, most particularly the discharge of groundwater to surface water courses. Artesian pressure also likely influences the overall quality of water in the aquifers. While recognizing that some temporary decline in artesian pressure must occur for groundwater to be produced, the LPGCD believes that a long-term, continued reduction in artesian pressure is not in the best interests of the citizens and businesses in Bastrop and Lee counties, which depend on groundwater for a potable water supply.

It is this fact coupled with the limited amount of potentially usable natural recharge on an average annual basis, only about 28,000 acre-feet per year based on the currently available GAM for the Carrizo-Wilcox Aquifer, that restricts, to a first approximation, the amount of groundwater that can be withdrawn from aquifers within the District without potentially adversely affecting artesian pressure, water levels in the aquifers, and the amount of groundwater contributing to the base flow of the surface water courses. Thus, the LPGCD's ability to manage groundwater resources within the District on a sustainable basis in accordance with its mission statement is severely restricted because there is so little of the total amount of water in storage to work with.

The LPGCD's ability to achieve its mission statement -- to manage the groundwater resources within the District on a sustainable basis in perpetuity -- is, thus, tenuous, at

best, given that even the current estimated in-District demands for ground water exceed the apparent amount of water being recharged within the District by approximately 10,000 acre-feet per year. This is primarily due to the necessity to depressurize the Simsboro Aquifer at the Sandow Mine in Milam and Lee counties. Although the Sandow Mine is projected to close within a few years and the depressurization requirements of the newly permitted Three Oaks Mine in Lee and Bastrop counties are projected to be only about half of those of the Sandow Mine, the demand for groundwater within Bastrop and Lee counties is projected to increase to a total of approximately 44,000 acre-feet per year by 2060. Even though mining water demands will decrease and then virtually cease by about 2040, municipal demands are anticipated to nearly quadruple in Bastrop County and nearly double in Lee County over the next fifty-five or so years. Using a simple water balance approach, the excess in-District demand over in-District recharge would consume the equivalent of approximately one-half of all the water in artesian storage in the two counties by 2060. This simple water-balance approach does not consider the potential negative affects of major out-of-District demands, such as those in the Bryan College Station area, that affect artesian pressure in the District, but are outside of the District's control.

Yet, the Carrizo-Wilcox Aquifer in the LPGCD is perceived by those outside of the District to have an over abundance of groundwater for transfer out of the District. As previously indicated, there is an existing set of contracts to which SAWS and ALCOA are parties to transfer as much as 55,000 acre-feet of water per year from Bastrop, Lee, and Milam counties to San Antonio. In addition, the Brazos River Authority is seeking to withdraw almost as much water to meet growing water needs in Williamson County. On top of these possible transfers, private water marketers also are seeking to transfer groundwater from within Bastrop and Lee counties and the counties surrounding the two counties to meet other water demands outside of the District. Using the demand projections that accompany the currently available GAM for the Carrizo-Wilcox Aquifer as indicator of the maximum anticipated pumpage from within the District, an amount of water equivalent to all the recharge and all the water in artesian storage in the District could be withdrawn in only about twenty years.

Thus, whether the LPGCD will be able to achieve its mission statement remains to be seen, even to meet only in-District demands. It is clear, though, that with major transfers of groundwater outside of the District, achieving the mission statement will be impossible. Perhaps, with the new GAMs being developed that include the Queen City and the Sparta aquifers with the Carrizo and the Wilcox aquifers and the ability to distinguish in-District demand projections from out-of-District transfers, the LPGCD will be able to better understand the groundwater resources within the District and to refine estimates of groundwater availability. There appears to be no other solution at this point, since the LPGCD is precluded by law from discriminating between in-District operating permits and out-of-District transfers.

CERTIFICATION CRITERIA

REGIONAL COOPERATION AND COORDINATION

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Lower Colorado River Regional Planning Group (Region K)

The LPGCD regularly coordinates with Region K through participation at regional planning meetings and, when deemed necessary, by written communication.

Brazos River Regional Planning Group (Region G)

The LPGCD has regularly sought coordination and communication with Region G by verbal and written means. A representative of the LPGCD commonly attends the Region G planning meetings.

Lower Colorado River Authority

The LPGCD communicates with the Lower Colorado River Authority (LCRA) through the Region K planning group and by direct communication on an as needed basis. In that conjunctive use of surface and groundwater has not occurred to date in Bastrop and Lee counties and the statutes and regulations for surface water are so different from those for groundwater, regular communication for that purpose has not yet occurred, but is not precluded and would be welcomed in the future.

Brazos River Authority

The LPGCD communicates with the Brazos River Authority (BRA) through the Region G planning group and by direct communication on an as needed basis. Commonly representatives of the BRA attend LPGCD Board meetings. In that conjunctive use of surface and groundwater has not occurred to date in Bastrop and Lee counties and the statutes and regulations for surface water are so different from those for groundwater, regular communication for that purpose has not yet occurred, but is not precluded and would be welcomed in the future.

CERTIFIED COPY OF DISTRICTS RESOLUTION ADOPTING THE MANAGEMENT PLAN

A certified copy of the LPGCD's resolution adopting this Management Plan is contained in Appendix A.

EVIDENCE OF PUBLIC NOTICE AND HEARING

Evidence of public notice and hearing prior to the adoption of this management plan is provided in Appendix B.

MANGEMENT GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS

REQUIRED GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS

Goal: Provide the most efficient use of groundwater.

Management Objective: To inform the residents of Bastrop and Lee counties about the efficient use of groundwater. Such information may be related to irrigation efficiency, transmission losses, xeriscaping, or any other related subject deemed appropriate by the LPGCD board. The information on efficient use of groundwater may be disseminated in conjunction with information on controlling and preventing waste of groundwater and/or water conservation.

Performance Standard: At least annually, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article on efficient use of groundwater. The article on efficient use of groundwater may be published in conjunction with an article on controlling and preventing waste of groundwater and/or water conservation. In addition, to the extent practical, the LPGCD will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

Goal: Controlling and preventing waste of groundwater.

Management Objective: To inform the residents of Bastrop and Lee counties about the waste of groundwater. Such information may be related to leaky or poorly functioning plumbing, transmission losses, xeriscaping, or any other related subject deemed appropriate by the LPGCD Board. The information on waste of groundwater may be disseminated in conjunction with information on efficient use of groundwater and/or water conservation.

Performance Standard: At least annually, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article on waste of groundwater. The article on waste of groundwater may be published in conjunction with an article on efficient use of groundwater and/or water conservation. In addition, to the extent practical, the LPGCD will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

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

Management Objective: To provide information to the public about the status of groundwater use, availability, and water levels and a description of natural resource issues, e.g., mining, out of District transport of groundwater, protection of endangered species, or the spread of phreatophytic vegetation, that impact the use and availability of groundwater or which are affected by the use and availability of groundwater.

Performance Standard: At least annually, the General Manager shall prepare a report for the LPGCD board on the status of groundwater use, availability, and water levels within the District and a description of natural resource issues. Once this report is reviewed and accepted by the LPGCD Board, it shall be made available to the public at the District's office. In addition, the General Manager will cause a summary of the annual report to be published in one or more newspapers of general circulation in Bastrop and Lee counties. To the extent practical, the LPGCD also will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

Goal: Address drought conditions.

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Management Objective: Drought conditions are to be addressed on an ongoing basis by tracking rainfall records available from nearby weather stations as compared to hydrographs for LPGCD monitoring wells. At least once per month, the General Manager will update rainfall and water level records maintained by the LPGCD. Based on GAM modeling and an understanding of the outcrop areas of the principal aquifers – Simsboro, Carrizo, Queen City, and Sparta – in the LPGCD, recharge appears to be relatively constant under the current climatic regime and little affected by drought conditions. It is anticipated, though that drought conditions will result in increased pumpage and decreased natural discharge, thereby affecting water levels in the aquifers.

Performance Standard: At least annually, the General Manager shall prepare a report for the LPGCD board on precipitation amounts as compared to water levels within the District and a description of apparent trends. Once this report is reviewed and accepted by the LPGCD Board, it shall be made available to the public at the District's office. In addition, the General Manager will cause a summary of the annual report to be published in one or more newspapers of general circulation in Bastrop and Lee counties. The summary may be published in conjunction with the publication of the summary of natural resource issues. In addition, to the extent practical, the LPGCD will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

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Goal: Address conservation of groundwater resources.

Management Objective: To educate the public within the District concerning water conservation. One or more articles related to advances in plumbing fixtures that conserve water and comparative cost savings of installing such fixtures, xeriscaping, or any other related subject deemed appropriate by the LPGCD board will be prepared for publication.

Performance Standard: At least annually, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article on conservation of groundwater. The article on water conservation may be published in conjunction with an article on efficient use of groundwater and controlling and preventing waste of groundwater. In addition, to the extent practical, the LPGCD will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

DISTRICT SPECIFIC GOALS, OBJECTIVES, AND PERFORMANCE STANDARDS

Goal: Public education.

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Management Objective: To inform the public about any and all matters related to the occurrence, distribution, behavior, and use of groundwater. To a degree, this management objective overlaps with all the required goals and management objectives described above; however, the focus of this management objective is on children.

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Performance Standard: At least once each year in each county of the LPGCD, the General Manager, assisted by other staff and consultants, as necessary, will present a program dealing with the above matters at a public school. The particular timing and age-level of such a program will be coordinated with the local school systems.

Goal: Drilling permits.

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Management Objective: To review and evaluate all applications for drilling permits for exempt and non-exempt wells, not otherwise excluded and not existing prior to the date the District rules became effective.

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Performance Standard: At least once per year, notify all known water-well drillers operating in the District of the requirement for the prospective non-excluded well owner to obtain a drilling permit and the requirement that the driller insure that no new non-excluded well is drilled in the District without a permit. In addition, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article related to the requirement to obtain drilling permits for non-excluded wells. Such an article may be combined with articles on other subjects published by the District.

Goal: Register all wells within the LPGCD boundaries.

Management Objective: To register all exempt wells drilled since the LPGCD Rules became effective and attempt to register all pre-existing exempt wells.

Performance Standard: Registration of newly drilled exempt wells is accomplished by refunding the drilling permit fee upon submittal of completion reports, well logs, and well registration materials. The number of newly drilled wells will be documented in the annual report by the General Manager and in the LPGCD's database. Registration of pre-existing exempt wells is a more difficult issue, because registration of such wells is voluntary. Nevertheless, at least annually, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article on registration of exempt wells. The article on registration of exempt wells may be published in conjunction with an article on controlling and preventing waste of groundwater, water use efficiency, and/or water conservation. In addition, the General Manager or his designated representative will note the existence of unregistered wells, spot the location of such wells on a map as best possible, and visit with the landowner, if possible, to encourage registration of the wells. Documentation of attempts to encourage registration of wells that were in existence prior to the effective date of the LPGCD Rules will be through notes made and kept on file at the District offices.

Goal: Operating permits

Management Objective: To review and evaluate all applications for operating permits for non-exempt wells, not otherwise excluded, within the LPGCD. In addition, the LPGCD will notify operating permit holders of the need to renew their operating permit at least sixty days prior to expiration.

Performance Standard: At least once per year, notify all known water-well drillers and pump installers operating in the District of the requirement for the owner of a non-exempt well, not otherwise excluded, to obtain an operating permit and the requirement that the driller and/or pump installer insure that no non-exempt well,

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not otherwise excluded, is placed into service within the District without an operating permit. In addition, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article related to the requirement to obtain operating permits for non-exempt wells, not otherwise excluded. Such an article may be combined with articles on other subjects published by the District.

Goal: Transfer Permits.

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Management Objective: To review and evaluate all applications for transfer permits. Notify holders of transfer permits of the need to renew their transfer permit prior to expiration.

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Performance Standard: At least annually, the General Manager shall cause to be published in one or more newspapers of general circulation in Bastrop and Lee counties an article related to the requirement to obtain a transfer permit to transfer groundwater out of the District. Such an article may be combined with articles on other subjects published by the District.

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Goal: Timely processing of all drilling permits, operating permits and transfer permits.

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Management Objective: To complete administrative review of all permit applications and schedule for LPGCD consideration within sixty days of receipt.

Performance Standard: On an annual basis track the dates on which applications are received, the dates on which administrative review is completed, and the date on which the board considered applications. For any permit application taking longer than sixty days to process, record a brief comment in the files as to the reason for the delay. Provide an annual summary of the permit application tracking to the LPGCD board. Upon review and approval of the report, make it available for public review at the District office.

Goal: Maintain a Database.

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Management Objectives: To maintain a database of each drilling permit and registration of an exempt well, each drilling and operating permit for a non-exempt well, and each transfer permit. The LPGCD's intent is to be able to generate plots of the locations of each registered and permitted well, available completion information for the well, and to compute distances between the wells based on the most detailed coordinates in the data base.

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Performance Standard: The database will be constantly changing and evolving, as new data are acquired and entered into the database and as new or updated software

and hardware become available. The overall performance standard is; Does it do what the LPGCD needs done? The measurable standard is an annual report prepared by the General Manager to the Board describing changes made to the structure and the content of the database and containing recommendations for additional changes and improvements. Once reviewed and accepted by the Board it shall be made available to the public at the LPGCD's office. In addition, the General Manager will cause a summary of the annual report to be published in one or more newspapers of general circulation in Bastrop and Lee counties. The summary may be published in conjunction with the publication of the summary of natural resource issues and drought conditions. In addition, to the extent practical, the LPGCD will sponsor or co-sponsor workshops open to the public that address this issue and similar issues.

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ACTION, PROCEDURES, AND AVOIDANCE NECESSARY TO EFFECTUATE THE MANAGEMENT PLAN

The LPGCD will implement the provisions of this Management Plan through the development and application of rules consistent with the Management Plan, using it as a guide to its principles and polices. Operation of the LPGCD, additional planning efforts, and additional rulemaking will be consistent with this plan or subsequent management plans adopted by the LPGCD and approved by the TWDB. The LPGCD will adhere to and enforce the rules it develops. These rules, subsequent additions or revisions, and revisions to this Management Plan will be based on the best technical advice available to the LPGCD.

The LPGCD will treat all citizens equally. In the exercise of its powers under Chapter 36 of the Texas Water Code, the LPGCD may use the discretion permitted by the water code and its rules to consider unique situations or local conditions and the potential for adverse economic and environmental consequences. Exercise of its discretion should not be construed as limiting the power and authority of the LPGCD.

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The LPGCD will seek cooperation from municipalities, water supply companies, irrigators, and all other users of groundwater pumped in Bastrop and Lee counties in the implementation of this Management Plan. The LPGCD also will seek to cooperate and coordinate with state and regional water planning authorities and agencies and adjacent groundwater conservation Districts.

Amended section to Lost Pines Groundwater Conservation District Management Plan

Groundwater Availability

Like the concept of sustainability, groundwater availability would seem to be rather simple to define and to quantify, but it is actually quite difficult to do either. The availability of groundwater is a function of many interrelated factors, the same factors that compound an effort to manage an aquifer on a sustainable basis, that no one single figure or quantity is sufficient to accurately describe the amount of groundwater that can be withdrawn on an average annual basis. One thing is clear, no groundwater can be withdrawn without depleting storage, particularly artesian storage, to some extent. It is that amount of depletion that is in accordance with the management policies and goals of the District that defines how much groundwater is available. In the end, the amount of groundwater that can be withdrawn from an aquifer over any finite period of time can be determined only by monitoring water levels. It is for this reason that the LPGCD, in cooperation with the local municipalities and water supply companies has established a monitoring well network and a system of reporting water levels to the District.

Despite these facts, in accordance with §36.1071(e)(3)(D) of the Texas Water Code and TWDB rule §356.5(a)(5)(D), the LPGCD must specify some value or figure for the projected water supply or amount of groundwater ostensibly available within the District on an average annual basis for the purpose of achieving a determination of administrative completeness in accordance with §36.1072 of the Texas Water Code and §356.6 and 7 of the TWDB rules. Using information, the best information available, provided by the currently available GAM for the central part of the Carrizo-Wilcox Aquifer (Dutton and others, 2003) as required in §36.1071(h) of the Texas Water Code and §356.5(b) of the TWDB rules, the LPGCD believes, at least on an interim basis, that the amount of groundwater available on an average annual basis is best represented by and approximately equal to the amount of recharge from direct precipitation in Bastrop and Lee counties. The amount of recharge from direct precipitation specified in the currently approved GAM for the Carrizo and Wilcox Aquifers is 28,000 acre-feet per year in Bastrop County and 7,500 acre-feet per year in Lee County, for a total of 35,500 acre-feet

per year within the District. The LPGCD believes that this estimate of groundwater availability within Bastrop and Lee counties is reasonably conservative and defensible.

Nevertheless, §36.1071(e)(4) of the Texas Water Code and §356.5(c) of the TWDB rules also require that the management plan address water supply needs in a manner that does not conflict with an approved regional water plan for each region in which the district is located. The approved regional plans would be those developed by Region K for Bastrop County and Region G for Lee County in 2001. Based on a determination by Region K and in accordance with calculations performed by the staff of the TWDB, there is no conflict with the groundwater availability figure selected by the LPGCD for Bastrop County; thus the LPGCD adheres to the 28,000 acre-feet per year figure for groundwater availability on an average annual basis for Bastrop County. Calculations performed by TWDB staff for Lee County, however, would indicate a conflict. Therefore, solely for the purpose of obtaining a determination of administrative completeness from the TWDB for the LPGCD Management Plan, the District specifies a figure of 55,000 acre-feet per year for average annual groundwater availability or total usable groundwater in Lee County. Based on the best available information, though, adherence to such an amount of average annual groundwater availability for any other purpose besides obtaining a determination of administrative completeness from the TWDB for the LPGCD Management Plan would not allow management of groundwater resources in the LPGCD on a sustainable basis, a central tenant of this management plan.

Within the Texas Water Code [§36.1071(e)(3)(C)] and the Rules of the TWDB [§356.5(a)(5)(C)], the question is asked concerning how natural or artificial recharge may be increased. The discussion contained in the subsection, Policy, of the Section on Statement of Guiding Principles of the LPGCD Groundwater Management Plan makes it clear that the LPGCD does not believe that there is any means by which natural recharge to the aquifers within the District can be increased if the groundwater supply is managed on a sustainable basis. Based on the currently available GAM, there is little difference in aquifer response under normal precipitation conditions and under drought conditions. Thus, increasing precipitation, for example, is not likely to increase actual recharge to the

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aquifers. Rather, only along surface water courses that currently receive discharge from the aquifers could recharge be increased if water levels in the aquifers were drawn down sufficiently that groundwater flow is reversed, or at least in part reversed, such that discharges to the surface water courses are reduced or eliminated and the surface water courses commence to lose water to the aquifers rather than receive water from the aquifers.

In the Subsection, Basis, of the Section on Statement of Guiding Principals of the LPGCD Management Plan, the LPGCD indicates willingness to support artificial or enhanced recharge. It is uncertain how this would be accomplished and there are no known proposals for either artificial or enhanced recharge. Given the District's current understanding of the hydrogeology of the district, it is unlikely that such means as spreading basins would be effective. Under the right circumstances, though, aquifer/storage recharge is a possibility, but the source of water for such an endeavor or any other mechanism to increase recharge to the aquifer systems within the District is not known.

It is anticipated that with the finalization of the new GAM for the Queen City and Sparta aquifers, which incorporates revisions to the Carrizo/Wilcox Aquifer GAM, the figure for the amount of groundwater that is available on an average annual basis can be revised. It is further anticipated that as the LPGCD builds a history of water levels in the aquifers within the District and the basis for estimating demands for groundwater from the aquifers within the District improves that determination of the amount of groundwater available on an average annual basis can be refined.

claims must be filed with Bankruptcy Services LLC ("BSL") at the above address. After the entry of the Bar Date Order, the claims are not to be filed with the Clerk of Court. Any proof of claim filed with the Clerk of Court prior to the entry of the Bar Date Order shall, unless necessarily coming to such claim, transmit any such claim filed with the Clerk of Court prior to the entry of the Bar Date Order to BSL.

- 4. WHO NEED NOT FILE A PROOF OF CLAIM**
- You do not need to file a proof of claim on or prior to the General Bar Date if you are:
- A. Any person or entity whose claim is listed on the Schedules filed by the Debtors, provided that (i) the claim is not scheduled as a "contingent" or "unliquidated"; and (ii) the claimant does not disagree with the amount, nature and priority of the claim as set forth on the Schedules; and (iii) the claimant does not dispute that the claim is an obligation of the specific Debtor against which the claim is asserted;
 - B. Any holder of a claim that heretofore has been allowed by order of the Court;
 - C. Any person or entity whose claim has been paid in full;
 - D. Any holder of a claim for which specific deadlines have previously been fixed by the Court;
 - E. Any Debtor having a claim against another Debtor or any of the non-debtor affiliates of Citation Corporation having a claim against any of the Debtors;
 - F. Any holder of a claim allowable under § 503(b) and § 507(a) of the Bankruptcy Code as an expense of administration;
 - G. Any Governmental Unit (as defined by 11 U.S.C. § 10117.2), which entity shall file any proof of claim in accordance with 11 U.S.C. § 502(b)(9); and
 - H. Claims by non-debtor parties to any rejected executory contract or unexpired lease (an "Executory Contract") arising solely from the rejection of such Executory Contract, provided, however, that such claims shall be filed in accordance with any order of the Court applicable to such Executory Contract, in each case, as to such claim or interest.
- If you are a holder of an equity interest in the Debtors, you need not file a proof of interest with respect to the ownership of such equity interest in the time. However, if you assert a claim against the Debtors, including a claim relating to such equity interest or the purchase or sale of such interest, a proof of such claim must be filed on or prior to the General Bar Date pursuant to procedures set forth in this Notice.
- This notice is being sent to many persons and entities that have had some relationship with or have done business with the Debtors but may have an unpaid claim against the Debtors. If you receive a Notice, the fact that you received such notice does not necessarily mean that you have a claim or that the Debtors or the Court believe that you have a claim against the Debtors.

5. EXECUTORY CONTRACTS AND UNEXPIRED LEASES

Any person or entity that has a claim arising from the rejection of an Executory Contract must file a proof of claim by the date set by the order of the Court authorizing such rejection.

6. CRITICAL VENDOR PAYMENTS

The amounts given in the proof of claim forms are the amounts that existed as of the Petition Date and are exclusive of subsequently received critical vendor payments. To the extent any holder of a claim has received payments as a critical vendor, any distributions made will have been critical vendor payment taken into account.

7. CONSEQUENCES OF FAILURE TO FILE A PROOF OF CLAIM BY THE GENERAL BAR DATE

ANY HOLDER OF A CLAIM THAT IS NOT EXCEPTED FROM THE REQUIREMENTS OF THIS NOTICE, AS SET FORTH IN SECTION 4 ABOVE, AND THAT FAILS TO TIMELY FILE A PROOF OF CLAIM IN THE APPROPRIATE FORM WILL BE FOREVER BARRED, STOPPED AND ENJOINED FROM ASSERTING SUCH CLAIM AGAINST THE DEBTORS, THEIR SUCCESSORS, THEIR ASSIGNS, THEIR PROPERTY AND THEIR CHAPTER 11 ESTATES OR THEREAFTER FILING A PROOF OF CLAIM WITH RESPECT THERETO, (ii) VOTING ON ANY PLAN OF REORGANIZATION FILED IN THESE CASES, AND (iii) PARTICIPATING IN ANY DISTRIBUTION OF THE DEBTORS' CASES ON ACCOUNT OF SUCH CLAIM.

8. THE DEBTORS' SCHEDULES AND ACCESS THERETO

You may be listed as the holder of a claim against the Debtors in the Debtors' Schedules of Assets and Liabilities and/or Schedules of Executory Contracts and Unexpired Leases (collectively, the "Schedules").

As set forth above, if you agree with the nature, amount and status of your claim as listed in the Debtors' Schedules, and if your claim is not so described as "disputed," "contingent," or "unliquidated," you need not file a proof of claim. Otherwise, or if you desire to file a proof of claim, you must do so before the General Bar Date in accordance with the procedures set forth in this Notice.

Copies of the Debtors' Schedules are available for inspection online at <http://www.uscourts.gov> or on the Court's Internet Website at <http://www.uscourts.gov>. A login and password to the Court's Public Access to Electronic Court Records ("PACER") are required to access this information and may be obtained through the PACER Service Center at <http://www.pacer.uscourts.gov>. Copies of the Schedules may also be obtained between the hours of 9:00 a.m. and 4:30 p.m., Monday through Friday, at the Office of the Clerk of the Bankruptcy Court, 1800 5th Avenue North, Birmingham, Alabama 35203. Copies of the Debtors' Schedules may also be obtained (a) upon written request to Debtors' counsel at the address set forth below; (b) upon written request to Bankruptcy Services LLC, 757 Third Street, New York, New York 10017 or by telephone at 800-222-8300.

A holder of a possible claim against the Debtors should consult an attorney regarding any matters not covered by this notice, such as whether a holder should file a proof of claim.

BURR & FORMAN, LLP
 Michael Leo Hall
 Robert B. Rubin
 Rita H. Dixon
 3100 SouthTrust Tower
 420 North 20th Street
 Birmingham, Alabama 35203
 Attorneys for Citation Corporation, et al., Debtors and Debtors in Possession

**Exhibit A
 Schedule of Debtors**

Debtor	Address	Case Number	EIN
Citation Corporation	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08130	63-0828225
Citation Holding Company	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08131	27-0084042
Berlin Foundry Corporation	242 South Pearl Street Berlin, NJ 04923	04-08145	39-1535863
Bohn Aluminum, Inc., f/k/a BAC Acquisition Corp.	600 West Main Street Butte, IL 46221	04-08144	63-1166740
Castwell Products, Inc.	7800 N. Austin Avenue Stokio, IL 60077	04-08146	36-6112444
Citation Precision, Inc., f/k/a Citation Products, Inc.	11000 Jersey Boulevard Rancho Cucamonga, CA 91730	04-08152	63-1160877
HI-TECH, Inc., f/k/a HFC Acquisition Corp.	1612 Progress Drive Albion, IN 46701	04-08153	62-1597268
Iroquois Foundry Corporation, f/k/a Iroquois Acquisition Corp.	N 2480 County Highway M Browstown, WI 53522	04-08136	63-1283056
ISW Texas Corporation	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08154	62-1579308
Mansfield Foundry Corporation, f/k/a MFC Acquisition Corp.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08155	62-1587125
OBI Liquidating Corporation, f/k/a Oberdorfer Industries, Inc., f/k/a OBI Acquisition Corp.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08139	63-1158179
Texas Steel Corporation, f/k/a TSC Acquisition Corp.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08140	63-1166741
TSC Texas Corporation	43575 Nicholasville Road Bay Minette, AL 36507	04-08147	63-0644832
Citation Aluminum LLC	2217 Carolina Avenue Bessemer, AL 35020	04-08148	63-1179952
Citation Castings LLC, f/k/a Citation Inc., f/k/a Alabama Ductile Casting Co., a/k/a Southern Ductile Casting Co., a/k/a Citation Marion, a/k/a Citation Foam Casting Co., and a/k/a Foundry Service Co.	3559 Kraft Avenue SE Grand Rapids, MI 49512-2033	04-08141	38-3396332
Citation Grand Rapids, LLC	320 E. Main Street Lake Zurich, IL 60047	04-08149	36-3614497
Citation Lake Zurich, LLC	27275 Haagerty Road, Ste 420 Novi, MI 48377	04-08143	62-1283053
Citation Michigan LLC, f/k/a ITM Partners, Inc., f/k/a Citation Automotive Sales Corp.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08138	39-0368160
Citation Wisconsin Forging LLC, s/b/c Interstate Forging Indus., Inc.	W139 N5470 Oak Lanes Menomonee Falls, WI 53051	04-08151	39-0986452
Citation Wisconsin LLC, f/k/a Custom Products Corp.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08142	63-1283056
ITM Holding Co., LLC	10908 County Road 419 Navasota, TX 77868-1030	04-08135	62-1657457
Interstate Southwest Ltd.	1611 North Raguet Lufkin, TX 75904	04-08134	63-1166737
Texas Foundries Ltd.	2700 Corporate Drive, Ste. 100 Birmingham, AL 35242	04-08133	63-1166738
MFC Liquidating Company, Ltd.			

In addition to the Citation Corporation, the Debtors include the following entities: (i) Citation Holding Company, (ii) Berlin Foundry Corporation, (iii) Bohn Aluminum, Inc., (iv) Castwell Products, Inc., (v) Citation Precision, Inc., (vi) HI-TECH, Inc., (vii) Iroquois Foundry Corporation, (viii) ISW Texas Corporation, (ix) Mansfield Foundry Corporation, (x) OBI Liquidating Corp., (xi) Texas Steel Corporation, (xii) TSC Texas Corporation, (xiii) Citation Aluminum, LLC, (xiv) Citation Castings LLC, (xv) Citation Grand Rapids, LLC, (xvi) Citation Lake Zurich, LLC, (xvii) Citation Michigan, LLC, (xviii) Citation Wisconsin Forging, LLC, (xix) Interstate Forging Indus., Inc., (xx) Citation Wisconsin, LLC, (xxi) ITM Holding Co., LLC, (xxii) Interstate Southwest, Ltd., (xxiii) Texas Foundries Ltd., and (xxiv) MFC Liquidating Company, Ltd.

all requires regarding this solicitation, please direct to Cynthia Gamez, Assistant Program Director, (512) 597-7191 ext. 198.

Lost Pines Groundwater Conservation District
 In accordance with Chapter 551, Texas Government Code, as amended, take notice that the Board of Directors of the Lost Pines Groundwater Conservation District will meet in a regular meeting, open to the public, on the date and at the time and place stated below, to consider the following matters:
 Date of meeting: Wednesday, December 22nd, 2004
 Location of meeting: Lost Pines Groundwater Conservation District
 123 Old Austin Hwy.
 Bastrop, TX 78602
 Time of meeting: 2:00 p.m.
 1) Call to Order: President Keith Hansberger
 2) Welcome and introductions
 3) Public hearing
 An Amendment to the District Management Plan. Following the hearing the Board may adopt, in whole or in part, or may decline to adopt the proposed amendment.
 (4) Public comments.....limit 3 minutes each person.
 Adjourn
 Date: 12/17/04
 Joe P. Cooper, General Manager
 Persons with disabilities who plan to attend the district's agenda and who may need auxiliary aids or services such as interpreters for persons who are deaf or hearing impaired, readers, large print, or braille are requested to contact Peggy Campton, assistant secretary, at 512-581-9056 at least two (2) work days prior to the meeting, so that appropriate arrangements can be made. Persons who desire the assistance of an interpreter in conjunction with their oral presentation at this district agenda are requested to contact Peggy Campton, assistant secretary, at 512-581-9056 at least five (5) days prior to the agenda so that appropriate arrangements can be made.

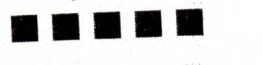
Invitation for Proposal
 Lockhart Independent School District solicits proposals for Telecommunications Services. Information on this proposal can be obtained anytime after 8:30 a.m. January 3, 2005, from Skip Bartek, 512.398.0052, Lockhart ISD, at 105 S. Colorado, Lockhart, TX 78644. Proposals will be accepted at the same address until the opening on January 18th at 10:00 am. CST. Lockhart ISD reserves the right to reject any and all proposals.

**PUBLIC NOTICE
 REQUEST PROPOSAL
 FOR FINANCING**

The Williamson County Appraisal District is accepting proposals for financing for the construction of a 30,000 square foot building located at the corner of Industrial Avenue and 21st Streets in Georgetown, TX. A copy of the Request For Proposal can be obtained by contacting Kayla Wallace, Business Manager at 510 W. 9th St., Georgetown, TX 78626. The deadline for submitting proposals is January 6, 2005. The District reserves the right to reject any or all proposals.

Sealed proposals will be received by the Texas Local Government Purchasing Cooperative, Cooperative Purchasing Office, 7620 Guadalupe, Building B-2, Austin, TX 78752 then publicly read as follows:
 Proposal No., Description, Due Date & Time
 218-05 Energy Saving Products 2/3/05 at 2:00 PM
 219-05 Water Treatment Chemicals 2/3/05 at 2:30 PM
 220-05 Public Safety & Fire House Supplies & Eq. 2/3/05 at 3:00 PM
 221-05 Residential & Commercial Garbage & Recycling Containers 2/3/05 at 3:30 PM
 222-05 Office Paper Products 3/23/05 at 2:00 PM
 223-05 Custodial Supplies & Equipment 4/11/05 at 2:00 PM
 224-05 First Aid Supplies & Equipment 4/11/05 at 2:30 PM
 225-05 Grounds Maintenance Equipment & Irrigation Parts, Supplies & Installation 4/18/05 at 2:00 PM
 226-05 Library Books, Used Textbooks & Other Books 4/18/05 at 2:30 PM
 Note: Specifications will be available on-line one month prior to due date.
 Proposal Specifications may be obtained from our web site www.vendor.buyboard.com or from the offices of the Texas Association of School Boards, Cooperative Purchasing Office, 7620 Guadalupe, W/11 Davis Building, Austin, TX 78752. The cooperative reserves the right to reject any or all bids & to waive any formalities in bidding except time of filing.

acre site.
 Sitemwork includes Earthwork, Landscaping & Irrigation Allowance, Site Utilities, Concrete Paving, Asphalt Paving, Pavement Markings & Signage, Fencing, Sports Equipment, Playground Equipment, Pedestrian Bridge, Fabric Shade Structures and Site Specialties.
 Building Construction includes Excavation, Concrete Foundations, Masonry, Metal Fabrications, Wood Stud Framing, Wood Trusses, Millwork, Finish Carpentry, Metal Roofing, Thermal Insulation & Moisture Protection, Hollow Metal Frames & Doors, Wood Doors, Door Hardware, Windows, Glass & Glazing, Gypsum Board, Lath & Plaster, Painting, Stained / Scored Concrete, Ceramic Tile, Toilet Partitions & Accessories, Building Specialties, Plumbing, HVAC and Electrical Plans and Specifications: Plans & Specifications may be reviewed in the Zapalac/Reed Construction Co. plan room, purchased at any Burks Digital Reprographics location, viewed online at Burks Digital Reprographics at www.burksdigital.com under Private Jobs, password "lakeside" or viewed at Builder's Exchange, San Antonio at (210) 564-6900.
 Bid Due Date: Tuesday, January 11, 2005 at 10:00 A.M.
 Bid Contact: Cody Risien, Project Manager, Zapalac/Reed Construction Co.
 Phone: (512) 306-8888
 Fax: (512) 306-8889 or (512) 306-7363
 Email: cre@zapalacreed.com
 Bid Proposals may be delivered or faxed to the office of Zapalac/Reed Construction Company.



**Statesman
 Legal Notices**

address:
**305 S. Congress
 Austin, TX 78704**

phone:
512-445-3832

fax:
512-445-3503

e-mail address:
legals@statesman.com

Legal Notices are published daily in print and on-line in the *Austin American-Statesman* which is generally circulated in Bastrop, Bell, Blanco, Brazos, Burleson, Burnet, Caldwell, Colorado, Comal, Coryell, Fayette, Gillespie, Gonzalez, Guadalupe, Hays, Kerr, Lampasas, Lee, Llano, Milam, Nueces, San Saba, Travis, Washington, and Williamson Counties.

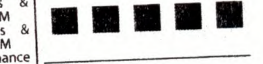
Deadlines: Legal Notices copy needs to be submitted to our office two business days prior to date of publication. Holiday deadlines may differ.

Earlier deadlines for display ads apply. Please contact the Legal Notices desk for further details.

All published Legal Notices are placed online at no additional charge on statesman.com/classifieds.

For any additional information, please call our Legal Notices desk at 512-445-3832 or email to legals@statesman.com.

An Affidavit of Publication is provided for each Legal Notice.



Picture yourself making money by selling your stuff in the Classifieds.

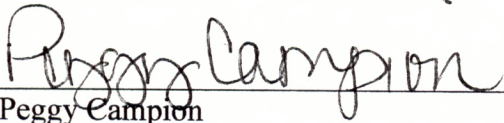
Visualize, then call.
445-4000

State of Texas

County of Bastrop

I, Peggy Champion, Assistant Secretary of the Lost Pines Groundwater Conservation District, do hereby certify that the attached and foregoing document is a certified copy of the agenda consisting of one (1) page, and is a true and correct copy of a document on file in the records of the District. I further certify that as Assistant Secretary of the Board of Directors I am one of the custodians of the records of the District. 11

Given under my hand this the 20 day of December, 2004.



Peggy Champion

Assistant Secretary

Lost Pines Groundwater Conservation District

Lost Pines Groundwater Conservation District

In accordance with Chapter 551, Texas Government Code, as amended, take notice that the Board of Directors of the Lost Pines Groundwater Conservation District will meet in a regular meeting, open to the public, on the date and at the time and place stated below, to consider the following matters:

Date of meeting: **Wednesday, December, 22nd, 2004**

Location of meeting: **Lost Pines Groundwater Conservation District Office
123 Old Austin Hwy.
Bastrop, TX 78602**

Time of meeting: **2:00 p.m.**

- 1) Call to Order – President Keith Hansberger
- 2) Welcome and Introductions
- 3) Public hearing regarding an Amendment to the District Management Plan. Following the hearing the Board may adopt, In whole or in part, or may decline to adopt the proposed amendment.
- 4) Public comments.....limit 3 minutes each person.

Adjourn

Date:

12/17/04



Joe P. Cooper, General Manager

PERSONS WITH DISABILITIES WHO PLAN TO ATTEND THE DISTRICT'S AGENDA AND WHO MAY NEED AUXILIARY AIDS OR SERVICES SUCH AS INTERPRETERS FOR PERSONS WHO ARE DEAF OR HEARING IMPAIRED, READERS, LARGE PRINT, OR BRAILLE ARE REQUESTED TO CONTACT PEGGY CAMPION, ASSISTANT SECRETARY, AT 512-581-9056 AT LEAST TWO (2) WORK DAYS PRIOR TO THE AGENDA, SO THAT APPROPRIATE ARRANGEMENTS CAN BE MADE. PERSONS WHO DESIRE THE ASSISTANCE OF AN INTERPRETER IN CONJUNCTION WITH THEIR ORAL PRESENTATION AT THIS DISTRICT AGENDA ARE REQUESTED TO CONTACT PEGGY CAMPION, ASSISTANT SECRETARY, AT 512-581-9056 AT LEAST FIVE (5) DAYS PRIOR TO THE AGENDA SO THAT APPROPRIATE ARRANGEMENTS CAN BE MADE.

FILED

DEC 17 2004

3:50 P.M.

Rose Pittsels

COUNTY CLERK
BASTROP COUNTY, TEXAS

Lost Pines Groundwater Conservation District

In accordance with Chapter 551, Texas Government Code, as amended, take notice that the Board of Directors of the Lost Pines Groundwater Conservation District will meet in a regular meeting, open to the public, on the date and at the time and place stated below, to consider the following matters:

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Bastrop, TX 78602

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Date: 12/17/04

Joe P. Cooper
Joe P. Cooper, General Manager

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Received 12/17/04.

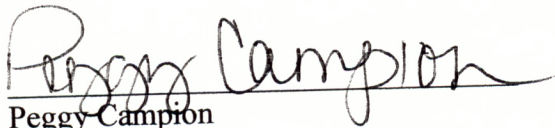
STATE OF TEXAS

COUNTY OF BASTROP

I, Peggy Champion, Assistant Secretary of the Lost Pines Groundwater Conservation District, do hereby certify that on December 17, 2004, I posted on the District's website notice of the attached amendment to the District's Texas Water Code 36.1071 water management plan. I further certify that I am one of the custodians of the District's records. 11

Signed this 22nd day of December, 2004.

LOST PINES GROUNDWATER CONSERVATION DISTRICT



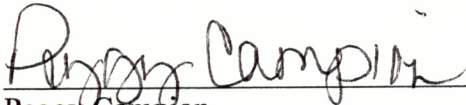
Peggy Champion
Assistant Secretary

State of Texas

County of Bastrop

I, Peggy Champion, Assistant Secretary of the Lost Pines Groundwater Conservation District, do hereby certify that the attached and foregoing document entitled "Affidavit of Publication," consisting of 1 pages, is a true and correct copy of a document on file in the records of the District. I further certify that as Assistant Secretary of the Board of Directors I am one of the custodians of the records of the District.

Given under my hand this the 22 day of December, 2004.



Peggy Champion

Assistant Secretary

Lost Pines Groundwater Conservation District

11

PO#

Ad ID#

Acct. #

Acct. Name:

200481
512-581-9056
Lost Pines Groundwater

Austin American-Statesman

AFFIDAVIT OF PUBLICATION

THE STATE OF TEXAS
COUNTY OF TRAVIS

Before me, the undersigned authority, a Notary Public in and for the County of Travis, States of Texas, on this day personally appeared:

FRANK PUCKETT

Classified Advertising Agent of the *Austin American-Statesman*, a daily newspaper published in said County and State that is generally circulated in Travis, Hays, Burnet and Williamson Counties, who being duly sworn by me, states that the attached advertisement was published in said newspaper on the following date(s), to wit:

Date (s): December 21, 2004,
Class: 9980 Lines: 57 Cost: \$237.69

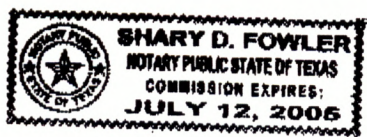
and that the attached is a true copy of said advertisement.

Frank Puckett

SWORN AND SUBSCRIBED TO BEFORE ME, this the 21st day of December, 2004.

Shary D. Fowler

Notary Public in and for
TRAVIS COUNTY, TEXAS



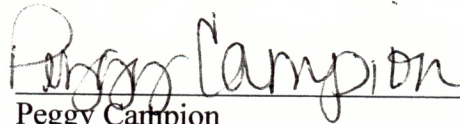
Lost Pines Groundwater Conservation District
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Date of meeting: Wednesday, December 22nd, 2004
Location of meeting: Lost Pines Groundwater Conservation District
123 Old Austin Hwy.
Brewer, TX 78602
Time of meeting: 7:00 p.m.
1) Call to Order: President Keith Hansberger
2) Welcome and introductions
3) Public hearing regarding an Amendment to the District Management Plan. Following the hearing the Board may adopt, in whole or in part, or may decline to adopt the proposed amendment.
(4) Public comments... limit 3 minutes each person.
Adjourn
Date: 12/17/04
Joe P. Cooper, General Manager
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STATE OF TEXAS

COUNTY OF BASTROP

I, Peggy Champion, Assistant Secretary of the Lost Pines Groundwater Conservation District, do hereby certify that the attached document is a true and correct copy of a receipt acknowledging delivery of the Lost Pines Groundwater Conservation District's Management Plan and amendment to the plan dated December 22, 2004, to the Lower Colorado River Authority. I further certify that I am one of the custodians of the records of the District. 11

Signed this 23 day of December, 2004.



Peggy Champion
Assistant Secretary

LOST PINES GROUNDWATER
CONSERVATION DISTRICT



Lost Pines Groundwater Conservation District
123 A Old Austin Highway
Post Office Box 1747
Bastrop, TX 78602

512-581-9056
FAX: 512-581-9058
Email: lpgcd@lostpineswater.org
Web Site: www.lostpineswater.org

Joe Cooper, General Manager

December 22, 2004

"I acknowledge receipt of the Lost Pines Groundwater Conservation District Management Plan and the amendment to the plan dated December 22, 2004, hand delivered to me this 22 day of December, 2004.

13
(a)

Judy Fugoski, Office Manager
Name and Title
Lower Colorado River Authority

BOARD OF DIRECTORS

Keith Hansberger, Pres. Ann Mesrobian, Vice-Pres. Jim Cowan, Sec./Treas.
Alice Darnell Jim Dunaway Mike Fisher Robert Lee Glenn Marburger Billy Sherrill Carl Steinbach

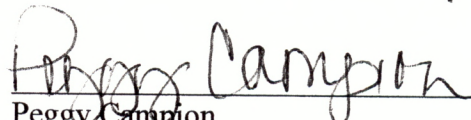
STATE OF TEXAS

COUNTY OF BASTROP

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13
(a)

Signed this 23 day of December, 2004.


Peggy Champion
Assistant Secretary

LOST PINES GROUNDWATER
CONSERVATION DISTRICT



Lost Pines Groundwater Conservation District
123 A Old Austin Highway
Post Office Box 1747
Bastrop, TX 78602

512-581-9056
FAX: 512-581-9058
Email: lpgcd@lostpineswater.org
Web Site: www.lostpineswater.org

Joe Cooper, General Manager

December 22, 2004

12

"I acknowledge receipt of the Lost Pines Groundwater Conservation District Management Plan and the amendment dated December 22, 2004, hand delivered to me this 22 day of December, 2004.

Cynthia Braendt - Secretary for John Buda
Name and Title
Lower Colorado River RWPG

BOARD OF DIRECTORS

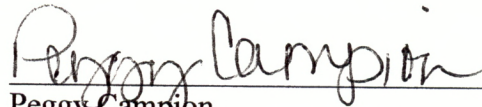
Keith Hansberger, Pres. Ann Mesrobian, Vice-Pres. Jim Cowan, Sec./Treas.
Alice Darnell Jim Dunaway Mike Fisher Robert Lee Glenn Marburger Billy Sherrill Carl Steinbach

STATE OF TEXAS

COUNTY OF BASTROP

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Signed this 23 day of December, 2004.

A handwritten signature in cursive script that reads "Peggy Champion". The signature is written in black ink and is positioned above a horizontal line.

Peggy Champion
Assistant Secretary

LOST PINES GROUNDWATER
CONSERVATION DISTRICT



Lost Pines Groundwater Conservation District
123 A Old Austin Highway
Post Office Box 1747
Bastrop, TX 78602

512-581-9056
FAX: 512-581-9058
Email: lpgcd@lostpineswater.org
Web Site: www.lostpineswater.org

Joe Cooper, General Manager

December 23, 2004

"I acknowledge receipt of the Lost Pines Groundwater Conservation District Management Plan and the amendment dated December 22, 2004, hand delivered to me this 23 day of December, 2004.

13
(a)

Julie Anderson Brazos G Admin. Asst.
Name and Title
Brazos G RWPG

BOARD OF DIRECTORS

Keith Hansberger, Pres. Ann Mesrobian, Vice-Pres. Jim Cowan, Sec./Treas.
Alice Darnell Jim Dunaway Mike Fisher Robert Lee Glenn Marburger Billy Sherrill Carl Steinbach

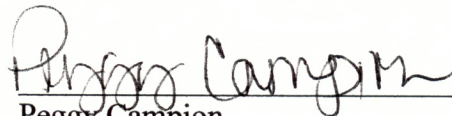
STATE OF TEXAS

COUNTY OF BASTROP

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13
(a)

Signed this 23 day of December, 2004.



Peggy Champion
Assistant Secretary

LOST PINES GROUNDWATER
CONSERVATION DISTRICT



Lost Pines Groundwater Conservation District
123 A Old Austin Highway
Post Office Box 1747
Bastrop, TX 78602

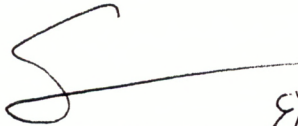
512-581-9056
FAX: 512-581-9058
Email: lpgcd@lostpineswater.org
Web Site: www.lostpineswater.org

Joe Cooper, General Manager

December 23, 2004

"I acknowledge receipt of the Lost Pines Groundwater Conservation District Management Plan and the amendment to the plan dated December 22, 2004, hand delivered to me this ____ day of December, 2004.

13
(a)


EXECUTIVE ASSISTANT

Name and Title
Brazos River Authority

BOARD OF DIRECTORS

Keith Hansberger, Pres. Ann Mesrobian, Vice-Pres. Jim Cowan, Sec./Treas.
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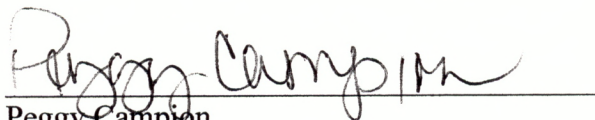
State of Texas

County of Bastrop

I, Peggy Champion, Assistant Secretary of the Lost Pines Groundwater Conservation District, do hereby certify that the attached and foregoing document entitled "Resolution to Adopt an Amendment to the Management Plan for Lost Pines Groundwater Conservation District," consisting of 1 page, is a true and correct copy of a document on file in the records of the District. I further certify that as Assistant Secretary of the Board of Directors I am one of the custodians of the records of the District.

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(a)

Given under my hand this the 22nd day of December, 2004.



Peggy Champion
Assistant Secretary
Lost Pines Groundwater Conservation District

RESOLUTION
TO ADOPT AN AMENDMENT TO THE
MANAGEMENT PLAN FOR
LOST PINES GROUNDWATER CONSERVATION DISTRICT

WHEREAS, the Lost Pines Groundwater Conservation District (THE District) is a political subdivision of the State of Texas, organized and existing under and by virtue of Article XVI, Section 59 of the Texas Constitution; and,

WHEREAS, copies of the proposed amendment to the District's management plan were placed on the District's website for all to download; and,

WHEREAS, in addition to being posted on the District's website, newspaper publication occurred on 2004, in the Giddings Times, a newspaper of general circulation in Lee County, Texas, and on 2004, in the Austin American Statesman, a newspaper of general circulation in Bastrop County, Texas; and,

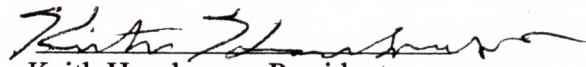
WHEREAS, the District held a public hearing in the City of Bastrop, Texas, on December 22, 2004, pursuant to notice being given, in regard to comments and testimony on the amendment to the management plan; and,

WHEREAS, based on written and public comments received by the District, the proposed amendment to the management plan was not substantially changed;


NOW, WHEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE LOST PINES GROUNDWATER CONSERVATION DISTRICT that the amendment to the management plan dated September 15, 2004, is hereby adopted and the General Manager is directed to forward the amendment to the management plan to Water Planning Regions G and K for comments and to the Texas Water Development Board, along with the management plan for Certification according to the requirements of Texas Water Code Section 36.1072.

PASSED AND APPROVED this the 22nd day of December, 2004.

LOST PINES GROUNDWATER CONSERVATION DISTRICT


Keith Hansberger, President

ATTEST:


Peggy Campion, Assistant Secretary