SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

GROUNDWATER MANAGEMENT PLAN 2017

ADOPTED: November 8, 2007
(Revised and Re-adopted: September 13, 2012)
(Revised and Re-adopted: June 8, 2017)

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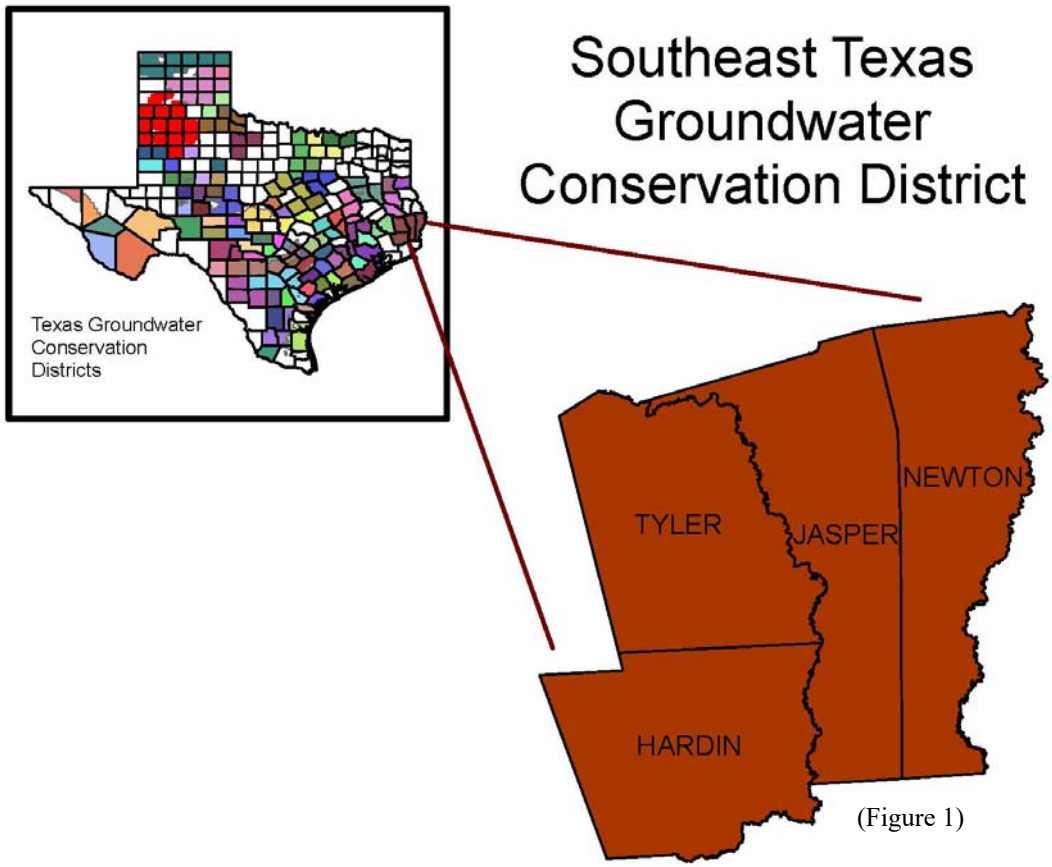
1. INTRODUCTION/PURPOSE

The Southeast Texas Groundwater Conservation District (the "District") was created to conserve, preserve, protect, recharge, and prevent the waste of groundwater and to control subsidence caused by the withdrawal of groundwater within its boundaries which are coextensive with the boundaries of Jasper, Newton, Hardin and Tyler Counties, Texas as shown in *Figure 1*. As part of the process of accomplishing its purposes, the District is required to adopt a Management Plan which, after adoption, must be reviewed and approved by the Texas Water Development Board. The District is located in Groundwater Management Area 14 which covers the Upper Gulf Coast Aquifer. The District is also included in the Region I, Regional Water Planning Group.



(Figure 1)

2. DESCRIPTION OF THE DISTRICT

2.1 Creation and Organization. The 78th Texas Legislature, in its regular session of 2003, enacted Senate Bill 1888 which created the District in Jasper and Newton Counties, subject to approval of a confirmation election. On November 2, 2004 the voters of Jasper and Newton Counties confirmed the creation of the District. Subsequently, the Commissioners' Courts of Hardin and Tyler Counties, Texas, adopted resolutions requesting that Hardin and Tyler County be added to the District. The voters of Hardin and Tyler County confirmed the inclusion of the Counties into the District at an election held on November 8, 2005.

The District is governed by a thirteen (13) member board of directors (the "Board"). The Jasper County Commissioners' Court appoints two directors, one of whom represents rural water utilities and small water supply interests and one director who represents the large industrial groundwater supply interests and large municipal utilities. The Newton County Commissioners' Court appoints two directors, one of whom represents rural water utilities and small municipal water supply interests and one director who represents forestry or agricultural groundwater supply interests in the Counties. Both the Jasper City Council and the Newton City Council each appoint one director. The Hardin County Commissioners' Court appoints three directors, one representing rural water utilities and small municipal groundwater supply interests, one director representing the forestry, industrial, agricultural or landowner groundwater supply interests, and one director representing large municipal groundwater supply interests. The Tyler County Commissioners' Court appoints three directors, one representing rural water utilities and small municipal groundwater supply interests, one director representing the forestry, industrial, agricultural or landowner groundwater supply interests, and one director representing large municipal groundwater supply interests.

The Commissioners' Courts of Jasper, Newton, Hardin, and Tyler Counties shall jointly appoint one director to represent the forestry, agricultural, or landowner groundwater supply interest. The jointly appointed director shall serve as the presiding officer of the Board.

2.2 Legal Authority. The Act creating the District, Senate Bill 1888, confers upon the District all of the powers of a groundwater conservation district under Texas Water Code Chapter 36, except as limited by the Act. The District was created under Texas Constitution Article 16, Section 59 and is a governmental agency and political subdivision of the State. Senate Bill 1888 prohibits the District from imposing a tax, limits pumpage fees charged by the District to not exceed $0.01 (one cent) per thousand gallons of groundwater withdrawn for any purpose. The Act further denies the District the power of eminent domain, the power to issue bonds or other obligations that pledge revenue derived from taxation, and the power to purchase groundwater lot rights unless the rights purchased are for conservation purposes and are permanently held in trust not to be produced.

2.3 Purpose of Management Plan. The 75th Texas Legislature in 1997 enacted Senate Bill 1 ("SB 1") to establish a comprehensive statewide water planning process. In particular, SB 1 contains provisions that required groundwater conservation districts to prepare management plans to identify the water supply resources and water demands that will shape the decisions of each district. SB 1 designed the management plans to include management goals for each district to manage and conserve the groundwater resources within their boundaries.

In 2001, the Texas Legislature enacted Senate Bill 2 ("SB 2") to build on the planning requirements of SB 1 and to further clarify the actions necessary for districts to manage and conserve the groundwater resources of the state of Texas.

The Texas Legislature enacted significant changes to the management of groundwater resources in Texas with the passage of House Bill 1763 ("HB 1763") in 2005. HB 1763 created a long-term planning process in which groundwater conservation district ("GCDs") in each Groundwater Management Area ("GMA") are required to meet and determine the Desired Future Conditions ("DFCs") for groundwater resources within their boundaries by September 1, 2010. HB 1763 also requires that GCDs share their management plans with other GCDs within their respective GMA. The Southeast Texas Groundwater Conservation District is located within GMA 14 along with the following GCDs *(see figures 2a and 2b)*:

Bluebonnet Groundwater Conservation District;
Brazoria County Groundwater Conservation District;
Lone Star Groundwater Conservation District; and
Lower Trinity Groundwater Conservation District

TEXAS GROUNDWATER MANAGEMENT ARES

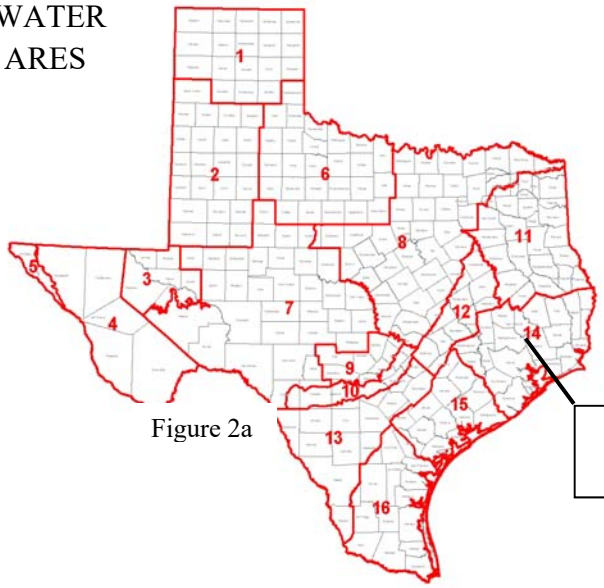


Figure 2a

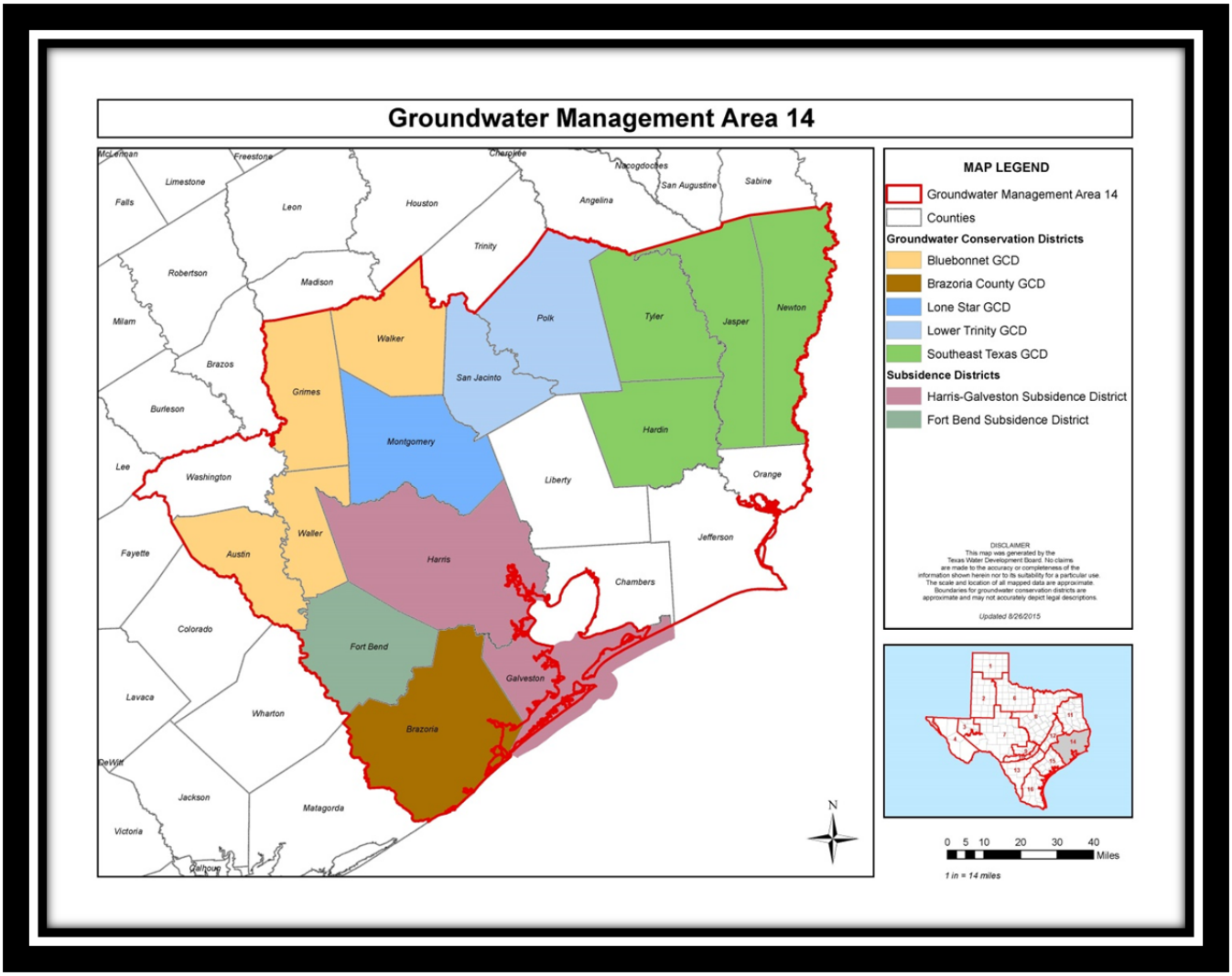


Figure 2b

The Southeast Texas Groundwater Conservation District's Management Plan satisfies the requirements of SB 1, SB 2, HB 1763, the statutory requirements of Chapter 36 of the Texas Water Code, and the administrative requirements of the Texas Water Development Board's rules.

2.4 Rules and Regulations. After public notice and a public hearing, the District adopted its substantive rules which became effective July 1, 2005 (amended October 2009, July 2010, April 2012, and October 2014). The District also adopted Rules for Hearing which

became effective July 1, 2005. A copy of the District Rules and Rules for Hearing can be found at the District's website at: http://www.setgcd.org.

3. GROUNDWATER RESOURCES OF THE DISTRICT AND TECHNICAL INFORMATION AS REQUIRED BY TEXAS ADMINISTRATIVE CODE

The Texas Gulf Coast Aquifer area includes the Gulf Coast Aquifer, Yegua-Jackson Aquifer, and the Brazos River Alluvium aquifers. Only the Chicot, Evangeline, Burkeville Confined, Jasper, and the Yegua-Jackson Aquifers are present within the District. The boundaries of these aquifers have been defined by the Texas Water Development Board ("TWDB"). See the TWDB GAM Run 16-024 MAG attached as Appendix C.

3.1 Modeled Available Groundwater ("MAG"). The Texas Water Code defines modeled available groundwater as "the amount of water that the executive administrator determines may be produced on an average annual basis to achieve a desired future condition established under Texas Water Code §36.108.

The joint planning process set forth in Texas Water Code §36.108 must be collectively conducted by all groundwater conservation districts within the same GMA. The District is a member of GMA 14. GMA 14 adopted DFCs for the following aquifers on April 29, 2016:

Gulf Coast Aquifer;
Carrizo Sand Aquifer;
Queen City Aquifer;
Sparta Aquifer; and,
Yegua-Jackson Aquifer.

The adopted DFCs were then forwarded to the TWDB for development of the Modeled Available Groundwater ("MAG") calculations. On December 15, 2016 the TWDB issued GAM Run 16-024 MAG, attached as Appendix C. A summary of the Desired Future Conditions and Modeled Available Groundwater, relative to the Southeast Texas Groundwater Conservation District, are summarized in *Tables 1 - 4*.

DESIRED FUTURE CONDITION AND MODELED AVAILABLE GROUNDWATER FOR THE SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

AQUIFER	HARDIN COUNTY	
	Desired Future Conditions: Average Drawdown in 2070 - feet	Modeled Available Groundwater (AF/yr) 2070
Chicot	21	1,262
Evangeline	27	33,665
Burkeville	29	0
Jasper	89	0
Yegua-Jackson	*	0
TOTAL		34,927

Table 1

AQUIFER	JASPER COUNTY	
	Desired Future Conditions: Average Drawdown in 2070 - feet	Modeled Available Groundwater (AF/yr) 2070
Chicot	23	10,827
Evangeline	41	40,648
Burkeville	46	1
Jasper	40	16,008
Yegua-Jackson	*	0
TOTAL		67,484

Table 2

AQUIFER	NEWTON COUNTY	
	Desired Future Conditions: Average Drawdown in 2070 - feet	Modeled Available Groundwater (AF/yr) 2070
Chicot	35	500
Evangeline	45	21,343
Burkeville	44	0
Jasper	37	12,376
Yegua-Jackson	*	0
TOTAL		34,219

Table 3

AQUIFER	TYLER COUNTY	
	Desired Future Conditions: Average Drawdown in 2070 - feet	Modeled Available Groundwater (AF/yr) 2070
Chicot	42	0
Evangeline	35	20,576
Burkeville	30	1
Jasper	62	17,634
Yegua-Jackson	*	0
TOTAL		38,211

Table 4

*The Yegua-Jackson Aquifer is declared non-relevant within the Southeast Texas Groundwater Conservation District.

3.2 **Amount of Groundwater Being Used within the District on an Annual Basis**. Please refer to Appendix A.

3.3 **Annual Amount of Recharge from Precipitation to the Groundwater Resources within the District**. Please refer to Appendix B.

3.4 **Annual Volume of Water that Discharges from the Aquifer to Springs and Surface Water Bodies**. Please refer to Appendix B.

3.5 **Estimate of the Annual Volume of Flow into the District, out of the District, and Between Aquifers in the District**. Please refer to Appendix B.

3.6 **Projected Surface Water Supply within the District**. Please refer to Appendix A.

3.7 **Projected Total Demand for Water within the District**. Please refer to Appendix A.

3.8 **Water Supply Needs**. Please refer to Appendix A.

3.9 **Water Management Strategies**. Please refer to Appendix A.

4. MANAGEMENT GOALS, PERFORMANCE STANDARDS, MANAGEMENT OBJECTIVES, AND METHODOLOGY

Each year, an Annual Report will be created by the general manager and staff of the District and will be provided to the members of the Board. The Annual Report will cover the activities of the District including information on the District's performance in regards to achieving the District's management plan goals and objectives. The Annual Report will be delivered to the Board within one hundred and eighty (180) days following the completion of the

District's fiscal year. A copy of the Annual Report will be kept on file and be made available for public inspection at the District's office upon adoption of the report by the Board.

4.1 Providing the Most Efficient Use of Groundwater:

4.1.1 Objective - Each year, the District will require all new exempt or non-exempt wells that are constructed within the boundaries of the District to be registered or permitted with the District in accordance with the District's Rules.

4.1.2 Performance Standard - The number of exempt and non-exempt wells registered or permitted by the District for the year will be incorporated into the District's Annual Report.

4.2 Controlling and Preventing the Waste of Groundwater in the District

4.2.1 Objectives - Each year, the District will make an evaluation of the District Rules to determine whether any amendments are recommended to decrease the amount of waste of groundwater within the District.

4.2.2 Performance Standard - The District will include a copy of the meeting notice/agenda as well as the minutes of the meeting at which the District Rules were discussed and the determination of whether any amendments to the rules are recommended to prevent the waste of groundwater in the District's Annual Report.

4.2.3 Objective - Each year, the District will provide information to the public on eliminating and reducing wasteful practices in the use of groundwater by posting an article or newsletter on groundwater waste reduction on the District's website.

4.2.4 Performance Standard - Each year, a copy of the information provided in the groundwater waste reduction article or newsletter posted on the District's website will be included in the District's Annual Report.

4.3 Controlling and Preventing Subsidence.

4.3.1 Objective - At this time, there are no known occurrences of subsidence within the District. The District proactively strives to prevent subsidence from occurring by applying its Rules, meeting the goals of its Management Plan, and participating in joint planning efforts in both GMA 14 and the Region I Water Planning Group. By continuing all of the above mentioned efforts and actively planning for the responsible use of its groundwater resources, the prevention of subsidence is inherent in the overall management of the District.

4.3.2 Performance Standard – Any reported subsidence shall be included in the District's Annual Report.

4.4 Addressing Conjunctive Surface Water Management Issues.

4.4.1 Objective - The District will coordinate conjunctive surface water issues with the Angelina and Neches River Authority (ANRA), Lower Neches Valley Authority (LNVA), the Sabine River Authority (SRA), and the East Texas Regional Water Planning Group (also known as Region I), by either inviting the officials from the Planning Group and river authorities to attend a District meeting at least once a year or by attending at least one of the East Texas Regional Water Planning Group meetings each year.

4.4.2 Performance Standard. - A copy of the invitation letters to the Planning Group and the surface water providers, as well as evidence that the letters have

been sent, via either U.S. Postal Service (registered/return receipt) or e-mail will be included in the District's Annual Report, or a copy of the East Texas Regional Water Planning Group meeting notice(s) and sign in sheet(s) indicating a representative of the District was present will be included in the District's Annual Report.

4.5 Natural Resource Issues Affecting the Use and Availability of Groundwater or Affected by the Use of Groundwater.

This Management Goal is not applicable to the District.

4.6 Addressing Drought Conditions.

4.6.1 Objectives - The District will post an article and/or drought index maps regarding drought conditions in the District at least annually on the District's website.

4.6.2 Performance Standard - A copy of the article and/or drought index maps posted on the District's website regarding drought conditions will be included in the District's Annual Report.

4.7 Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, or Brush Control.

Conservation is the only practice which is practicable in the District. The District does not consider recharge enhancement, precipitation enhancement, or brush control to be either necessary or practical at this time. Rainwater harvesting is not necessary due to the very high rainfall rate in the District. Therefore, these four goals are not applicable.

4.7.1 Objective - The District will annually submit an article regarding water conservation for publication to at least one newspaper of general circulation in Jasper, Newton, Hardin and Tyler Counties.

4.7.2 Performance Standard - A copy of the article submitted by the District for publication to a newspaper of general circulation in Jasper, Newton, Hardin and Tyler Counties regarding water conservation will be included in the District's Annual Report.

4.7.3 Objective - The District will publish and mail or email, at least once annually, an informative flier or newsletter on water conservation and related issues to groundwater use permit holders. A copy of the flier or newsletter shall also be made available on the District's website.

4.7.4 Performance Standard – A copy of the flier or newsletter on water conservation and related issues, along with the mailing/emailing list of the permit holders to whom it was provided shall be included in the District's Annual Report.

4.8 Addressing in a Quantitative Manner the Desired Future Conditions

4.8.1 Objective - The District will monitor groundwater conditions within the District by measuring the static water levels in at least fifteen (15) monitor wells annually.

4.8.2 Performance Standard – The recorded static water levels of the fifteen (15) monitor wells will be included in the District's Annual Report.

5. ACTIONS, PROCEDURES, PERFORMANCE, AVOIDANCE FOR IMPLEMENTATION OF MANAGEMENT PLAN, AND DETAILS ON MANAGING GROUNDWATER SUPPLIES IN THE DISTRICT.

The District will implement the goals and provisions of this Management Plan as a guideline in its decision making. The District will ensure that its planning efforts, operations, and activities will be consistent with the provisions of this plan.

The District has adopted rules in accordance with Chapter 36 of the Texas Water Code, and all rules will be followed and enforced. The District Rules are available at http://www.setgcd.org/rules.html. The District may amend the District Rules as necessary to comply with changes to Chapter 36 of the Texas Water Code or a revised Management Plan to ensure the best management of groundwater within the District according to present aquifer conditions. The development and enforcement of the District Rules will be based on best scientific and technical evidence available to the District.

The District will encourage cooperation and coordination in the implementation of this plan. All operations and activities of the District will be performed in a manner that encourages cooperation with the appropriate state, regional or local water entity.

APPENDIX A

Estimated Historical Water Use and 2017 State Water Plan Datasets:

By Stephen Allen
Texas Water Development Board
Groundwater Division
Groundwater Technical Assistance Section
(512) 462-7317
February 3, 2017

Estimated Historical Water Use And 2017 State Water Plan Datasets:

Southeast Texas Groundwater Conservation District

by Stephen Allen
Texas Water Development Board
Groundwater Division
Groundwater Technical Assistance Section
stephen.allen@twdb.texas.gov
(512) 463-7317
February 3, 2017

GROUNDWATER MANAGEMENT PLAN DATA:

This package of water data reports (part 1 of a 2-part package of information) is being provided to groundwater conservation districts to help them meet the requirements for approval of their five-year groundwater management plan. Each report in the package addresses a specific numbered requirement in the Texas Water Development Board's groundwater management plan checklist. The checklist can be viewed and downloaded from this web address:

http://www.twdb.texas.gov/groundwater/docs/GCD/GMPChecklist0113.pdf

The five reports included in this part are:

1. Estimated Historical Water Use (checklist item 2)

   from the TWDB Historical Water Use Survey (WUS)
2. Projected Surface Water Supplies (checklist item 6)
3. Projected Water Demands (checklist item 7)
4. Projected Water Supply Needs (checklist item 8)
5. Projected Water Management Strategies (checklist item 9)

   from the 2017 Texas State Water Plan (SWP)

Part 2 of the 2-part package is the groundwater availability model (GAM) report for the District (checklist items 3 through 5). The District should have received, or will receive, this report from the Groundwater Availability Modeling Section. Questions about the GAM can be directed to Dr. Shirley Wade, shirley.wade@twdb.texas.gov, (512) 936-0883.

DISCLAIMER:

The data presented in this report represents the most up-to-date WUS and 2017 SWP data available as of 2/3/2017. Although it does not happen frequently, either of these datasets are subject to change pending the availability of more accurate WUS data or an amendment to the 2017 SWP. District personnel must review these datasets and correct any discrepancies in order to ensure approval of their groundwater management plan.

The WUS dataset can be verified at this web address:

http://www.twdb.texas.gov/waterplanning/waterusesurvey/estimates/

The 2017 SWP dataset can be verified by contacting Sabrina Anderson (sabrina.anderson@twdb.texas.gov or 512-936-0886).

For additional questions regarding this data, please contact Stephen Allen (stephen.allen@twdb.texas.gov or 512-463-7317) or Rima Petrossian (rima.petrossian@twdb.texas.gov or 512-936-2420).

Estimated Historical Water Use
TWDB Historical Water Use Survey (WUS) Data

Groundwater and surface water historical use estimates are currently unavailable for calendar year 2015. TWDB staff anticipates the calculation and posting of these estimates at a later date.

HARDIN COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2014	GW	5,800	30	0	0	18	61	5,909
	SW	0	0	0	0	135	184	319
2013	GW	5,898	28	0	0	612	46	6,584
	SW	0	0	0	0	165	139	304
2012	GW	5,921	30	2	0	826	35	6,814
	SW	0	0	0	0	159	106	265
2011	GW	6,674	35	5	0	1,284	52	8,050
	SW	0	0	1	0	114	155	270
2010	GW	6,412	40	12	0	1,436	53	7,953
	SW	0	0	2	0	197	157	356
2009	GW	5,938	51	23	0	866	41	6,919
	SW	0	2	3	0	192	124	321
2008	GW	5,733	55	35	0	2,245	44	8,112
	SW	0	0	4	0	184	133	321
2007	GW	5,680	90	0	0	1,769	40	7,579
	SW	0	0	0	0	169	120	289
2006	GW	6,002	137	3	0	789	40	6,971
	SW	0	0	0	0	189	120	309
2005	GW	5,954	146	3	0	166	40	6,309
	SW	0	0	0	0	174	121	295
2004	GW	5,460	200	3	0	136	16	5,815
	SW	0	0	0	0	171	136	307
2003	GW	5,323	219	3	0	148	15	5,708
	SW	0	0	0	0	164	135	299
2002	GW	5,638	122	3	0	1,210	14	6,987
	SW	0	0	0	0	0	119	119
2001	GW	5,483	111	2	0	1,223	16	6,835
	SW	0	0	0	0	0	141	141
2000	GW	5,676	119	6	0	3,502	15	9,318
	SW	0	0	0	0	0	140	140

JASPER COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2014	GW	4,291	37,210	19	0	69	125	41,714
	SW	0	7,099	2	0	75	288	7,464
2013	GW	4,838	39,391	0	0	33	123	44,385
	SW	0	6,582	0	0	110	322	7,014
2012	GW	4,924	37,120	1	0	110	95	42,250
	SW	0	7,307	0	0	108	143	7,558
2011	GW	5,460	33,750	80	0	0	143	39,433
	SW	0	8,137	12	0	100	547	8,796
2010	GW	5,402	36,124	13	0	0	144	41,683
	SW	0	7,798	2	0	0	645	8,445
2009	GW	5,061	39,400	0	0	0	417	44,878
	SW	0	7,405	0	0	0	181	7,586
2008	GW	4,740	42,682	0	0	30	123	47,575
	SW	0	7,954	0	0	0	641	8,595
2007	GW	4,680	44,467	0	0	30	197	49,374
	SW	0	8,419	0	0	0	643	9,062
2006	GW	4,823	45,740	0	0	36	192	50,791
	SW	0	9,826	0	0	0	666	10,492
2005	GW	4,684	50,452	0	0	0	162	55,298
	SW	0	139	0	0	0	591	730
2004	GW	4,871	34,395	0	0	0	73	39,339
	SW	0	14,175	0	0	0	647	14,822
2003	GW	4,868	45,962	0	0	0	73	50,903
	SW	0	3,565	0	0	0	765	4,330
2002	GW	4,400	47,826	0	0	0	80	52,306
	SW	0	14,055	0	0	0	858	14,913
2001	GW	4,572	47,191	0	0	0	66	51,829
	SW	0	12,299	0	0	0	239	12,538
2000	GW	4,998	47,043	0	0	0	129	52,170
	SW	0	11,874	0	0	0	632	12,506

NEWTON COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2014	GW	1,682	0	0	0	50	51	1,783
	SW	0	0	0	0	0	94	94
2013	GW	1,814	0	2	0	83	44	1,943
	SW	0	0	0	0	0	83	83
2012	GW	1,887	0	3	0	83	30	2,003
	SW	0	0	0	0	0	57	57
2011	GW	2,185	0	125	0	50	83	2,443
	SW	0	0	126	0	100	155	381
2010	GW	2,098	52	77	0	137	84	2,448
	SW	0	0	78	0	0	157	235
2009	GW	2,078	52	73	0	0	37	2,240
	SW	0	0	75	0	0	68	143
2008	GW	2,116	52	69	0	0	37	2,274
	SW	0	0	72	0	0	68	140
2007	GW	2,197	52	0	0	50	49	2,348
	SW	0	0	0	0	317	90	407
2006	GW	2,341	32	0	0	264	49	2,686
	SW	0	0	0	0	111	90	201
2005	GW	4,297	7	0	0	248	43	4,595
	SW	0	0	0	0	127	79	206
2004	GW	2,110	61	0	0	292	51	2,514
	SW	0	236	0	0	208	77	521
2003	GW	2,091	137	0	0	310	51	2,589
	SW	0	236	0	0	23	76	335
2002	GW	2,097	137	0	0	275	38	2,547
	SW	0	236	0	0	92	56	384
2001	GW	2,083	137	0	0	275	44	2,539
	SW	0	236	0	0	92	66	394
2000	GW	2,081	315	0	0	275	44	2,715
	SW	0	236	0	0	92	66	394

TYLER COUNTY

All values are in acre-feet

Year	Source	Municipal	Manufacturing	Mining	Steam Electric	Irrigation	Livestock	Total
2014	GW	4,084	0	0	0	313	45	4,442
	SW	0	0	0	0	0	182	182
2013	GW	4,255	0	0	0	258	43	4,556
	SW	0	0	0	0	92	172	264
2012	GW	4,430	0	1	0	279	42	4,752
	SW	0	0	0	0	0	167	167
2011	GW	4,851	0	78	0	437	60	5,426
	SW	0	0	6	0	0	239	245
2010	GW	4,458	0	14	0	393	59	4,924
	SW	0	0	1	0	0	236	237
2009	GW	4,012	2	18	0	0	80	4,112
	SW	0	0	2	0	675	320	997
2008	GW	3,232	2	22	0	19	46	3,321
	SW	0	0	3	0	0	186	189
2007	GW	3,834	1	0	0	175	60	4,070
	SW	0	0	0	0	0	239	239
2006	GW	3,480	1	0	0	500	56	4,037
	SW	0	0	0	0	0	225	225
2005	GW	3,337	4	0	0	500	46	3,887
	SW	0	0	0	0	0	185	185
2004	GW	3,129	5	0	0	434	87	3,655
	SW	0	0	0	0	0	130	130
2003	GW	3,283	14	0	0	0	94	3,391
	SW	0	0	0	0	0	140	140
2002	GW	3,252	14	0	0	0	100	3,366
	SW	0	0	0	0	104	150	254
2001	GW	3,196	32	0	0	0	110	3,338
	SW	0	0	0	0	20	165	185
2000	GW	3,239	32	0	0	0	110	3,381
	SW	0	0	0	0	29	165	194

Projected Surface Water Supplies
TWDB 2017 State Water Plan Data

HARDIN COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
I	IRRIGATION, HARDIN	NECHES	NECHES RUN-OF-RIVER	57	57	57	57	57	57
I	LIVESTOCK, HARDIN	NECHES	NECHES LIVESTOCK LOCAL SUPPLY	155	155	155	155	155	155
	Sum of Projected Surface Water Supplies (acre-feet)			**212**	**212**	**212**	**212**	**212**	**212**

JASPER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
I	IRRIGATION, JASPER	NECHES	NECHES RUN-OF-RIVER	81	81	81	81	81	81
I	IRRIGATION, JASPER	SABINE	NECHES RUN-OF-RIVER	46	46	46	46	46	46
I	LIVESTOCK, JASPER	NECHES	NECHES LIVESTOCK LOCAL SUPPLY	332	332	332	332	332	332
I	LIVESTOCK, JASPER	SABINE	SABINE LIVESTOCK LOCAL SUPPLY	215	215	215	215	215	215
I	MANUFACTURING, JASPER	NECHES	NECHES RUN-OF-RIVER	616	616	616	616	616	616
I	MANUFACTURING, JASPER	NECHES	SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM	60,000	60,000	60,000	60,000	60,000	60,000
	Sum of Projected Surface Water Supplies (acre-feet)			**61,290**	**61,290**	**61,290**	**61,290**	**61,290**	**61,290**

NEWTON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
I	IRRIGATION, NEWTON	SABINE	SABINE RUN-OF-RIVER	50	50	50	50	50	50
I	LIVESTOCK, NEWTON	SABINE	SABINE LIVESTOCK LOCAL SUPPLY	155	155	155	155	155	155
I	MANUFACTURING, NEWTON	SABINE	SABINE RUN-OF-RIVER	135	135	135	135	135	135
I	MINING, NEWTON	SABINE	SABINE OTHER LOCAL SUPPLY	158	158	158	158	158	158
I	STEAM ELECTRIC POWER, NEWTON	SABINE	SABINE RUN-OF-RIVER	13,442	13,442	13,442	13,442	13,442	13,442
	Sum of Projected Surface Water Supplies (acre-feet)			**13,940**	**13,940**	**13,940**	**13,940**	**13,940**	**13,940**

Projected Surface Water Supplies
TWDB 2017 State Water Plan Data

TYLER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	Source Name	2020	2030	2040	2050	2060	2070
I	IRRIGATION, TYLER	NECHES	NECHES RUN-OF-RIVER	123	123	123	123	123	123
I	LIVESTOCK, TYLER	NECHES	NECHES LIVESTOCK LOCAL SUPPLY	239	239	239	239	239	239
I	MINING, TYLER	NECHES	NECHES OTHER LOCAL SUPPLY	8	8	8	8	8	8
I	STEAM ELECTRIC POWER, TYLER	NECHES	SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM	838	838	838	838	838	838
I	WOODVILLE	NECHES	SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM	4,762	4,762	4,762	4,762	4,762	4,762
	Sum of Projected Surface Water Supplies (acre-feet)			**5,970**	**5,970**	**5,970**	**5,970**	**5,970**	**5,970**

Projected Water Demands
TWDB 2017 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

HARDIN COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, HARDIN	NECHES	1,618	1,657	1,677	1,727	1,765	1,797
I	COUNTY-OTHER, HARDIN	TRINITY	18	18	18	18	18	18
I	IRRIGATION, HARDIN	NECHES	3,414	3,645	3,804	3,861	3,802	3,712
I	KOUNTZE	NECHES	255	246	238	234	234	234
I	LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY	TRINITY	10	11	12	12	13	13
I	LIVESTOCK, HARDIN	NECHES	161	161	161	161	161	161
I	LIVESTOCK, HARDIN	TRINITY	2	2	2	2	2	2
I	LUMBERTON	NECHES	1,656	1,852	1,990	2,097	2,191	2,263
I	LUMBERTON MUD	NECHES	781	794	802	811	826	838
I	MANUFACTURING, HARDIN	NECHES	288	318	349	377	407	439
I	MINING, HARDIN	NECHES	12	12	12	12	12	12
I	NORTH HARDIN WSC	NECHES	544	561	586	605	619	630
I	SILSBEE	NECHES	893	881	869	864	869	875
I	SOUR LAKE	NECHES	280	285	289	292	297	301
I	WEST HARDIN WSC	NECHES	269	270	271	272	273	273
I	WEST HARDIN WSC	TRINITY	4	4	4	4	4	4
	Sum of Projected Water Demands (acre-feet)		**10,205**	**10,717**	**11,084**	**11,349**	**11,493**	**11,572**

JASPER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, JASPER	NECHES	1,500	1,472	1,431	1,405	1,399	1,399
I	COUNTY-OTHER, JASPER	SABINE	967	950	923	906	903	903
I	IRRIGATION, JASPER	NECHES	23	23	23	23	23	23
I	IRRIGATION, JASPER	SABINE	13	13	13	13	13	13
I	JASPER	NECHES	1,699	1,699	1,676	1,660	1,657	1,657
I	JASPER COUNTY WCID #1	SABINE	224	212	207	207	207	207
I	KIRBYVILLE	SABINE	402	401	395	390	390	390
I	LIVESTOCK, JASPER	NECHES	230	230	230	230	230	230
I	LIVESTOCK, JASPER	SABINE	132	132	132	132	132	132

Projected Water Demands
TWDB 2017 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	MANUFACTURING, JASPER	NECHES	91,534	94,935	97,907	100,136	100,221	100,306
I	MANUFACTURING, JASPER	SABINE	46	47	49	50	50	50
I	MAURICEVILLE SUD	SABINE	30	30	30	30	30	30
I	MINING, JASPER	NECHES	70	55	41	27	13	7
I	MINING, JASPER	SABINE	78	63	47	31	15	7
	Sum of Projected Water Demands (acre-feet)		**96,948**	**100,262**	**103,104**	**105,240**	**105,283**	**105,354**

NEWTON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, NEWTON	SABINE	969	925	887	878	875	875
I	IRRIGATION, NEWTON	SABINE	375	375	375	375	375	375
I	LIVESTOCK, NEWTON	SABINE	121	121	121	121	121	121
I	MANUFACTURING, NEWTON	SABINE	568	644	721	791	858	931
I	MAURICEVILLE SUD	SABINE	28	27	27	27	27	27
I	MINING, NEWTON	SABINE	429	373	279	209	146	107
I	NEWTON	SABINE	443	434	426	421	420	420
I	SOUTH NEWTON WSC	SABINE	177	177	177	177	177	177
I	STEAM ELECTRIC POWER, NEWTON	SABINE	14,132	16,522	19,436	22,987	27,317	32,463
	Sum of Projected Water Demands (acre-feet)		**17,242**	**19,598**	**22,449**	**25,986**	**30,316**	**35,496**

TYLER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COLMESNEIL	NECHES	148	146	143	142	142	142
I	COUNTY-OTHER, TYLER	NECHES	1,494	1,448	1,404	1,380	1,376	1,376
I	IRRIGATION, TYLER	NECHES	675	675	675	675	675	675
I	IVANHOE	NECHES	92	90	88	87	87	87
I	IVANHOE NORTH	NECHES	62	60	59	58	58	58
I	LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY	NECHES	5	5	5	5	5	5
I	LIVESTOCK, TYLER	NECHES	288	288	288	288	288	288

Projected Water Demands
TWDB 2017 State Water Plan Data

Please note that the demand numbers presented here include the plumbing code savings found in the Regional and State Water Plans.

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	MANUFACTURING, TYLER	NECHES	476	483	490	496	501	506
I	MINING, TYLER	NECHES	160	198	150	103	55	29
I	STEAM ELECTRIC POWER, TYLER	NECHES	1,029	1,029	1,029	1,029	1,029	1,029
I	TYLER COUNTY WSC	NECHES	661	639	618	606	604	604
I	WOODVILLE	NECHES	908	900	890	884	883	883
	Sum of Projected Water Demands (acre-feet)		**5,998**	**5,961**	**5,839**	**5,753**	**5,703**	**5,682**

Projected Water Supply Needs
TWDB 2017 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

HARDIN COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, HARDIN	NECHES	11	11	11	11	11	11
I	COUNTY-OTHER, HARDIN	TRINITY	0	0	0	0	0	0
I	IRRIGATION, HARDIN	NECHES	0	0	0	0	0	0
I	KOUNTZE	NECHES	786	795	803	807	807	807
I	LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY	TRINITY	0	0	0	0	0	0
I	LIVESTOCK, HARDIN	NECHES	63	63	63	63	63	63
I	LIVESTOCK, HARDIN	TRINITY	0	0	0	0	0	0
I	LUMBERTON	NECHES	0	0	0	0	0	0
I	LUMBERTON MUD	NECHES	3,601	3,392	3,246	3,130	3,021	2,937
I	MANUFACTURING, HARDIN	NECHES	6	6	6	6	6	6
I	MINING, HARDIN	NECHES	0	0	0	0	0	0
I	NORTH HARDIN WSC	NECHES	1,362	1,345	1,320	1,301	1,287	1,276
I	SILSBEE	NECHES	724	736	748	753	748	742
I	SOUR LAKE	NECHES	654	649	645	642	637	633
I	WEST HARDIN WSC	NECHES	502	498	495	491	488	485
I	WEST HARDIN WSC	TRINITY	0	0	0	0	0	0
	Sum of Projected Water Supply Needs (acre-feet)		**0**	**0**	**0**	**0**	**0**	**0**

JASPER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, JASPER	NECHES	0	0	0	0	0	0
I	COUNTY-OTHER, JASPER	SABINE	192	233	310	353	362	362
I	IRRIGATION, JASPER	NECHES	58	58	58	58	58	58
I	IRRIGATION, JASPER	SABINE	33	33	33	33	33	33
I	JASPER	NECHES	3,091	3,091	3,114	3,130	3,133	3,133
I	JASPER COUNTY WCID #1	SABINE	849	861	866	866	866	866
I	KIRBYVILLE	SABINE	182	183	189	194	194	194
I	LIVESTOCK, JASPER	NECHES	217	217	217	217	217	217
I	LIVESTOCK, JASPER	SABINE	217	217	217	217	217	217
I	MANUFACTURING, JASPER	NECHES	352	-3,049	-6,021	-8,250	-8,335	-8,420

Projected Water Supply Needs
TWDB 2017 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	MANUFACTURING, JASPER	SABINE	4	3	1	0	0	0
I	MAURICEVILLE SUD	SABINE	43	43	41	39	38	38
I	MINING, JASPER	NECHES	0	0	0	0	0	0
I	MINING, JASPER	SABINE	0	0	0	0	0	0
	Sum of Projected Water Supply Needs (acre-feet)		**0**	**-3,049**	**-6,021**	**-8,250**	**-8,335**	**-8,420**

NEWTON COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COUNTY-OTHER, NEWTON	SABINE	456	500	538	547	550	550
I	IRRIGATION, NEWTON	SABINE	5	5	5	5	5	5
I	LIVESTOCK, NEWTON	SABINE	138	138	138	138	138	138
I	MANUFACTURING, NEWTON	SABINE	0	0	0	0	0	0
I	MAURICEVILLE SUD	SABINE	40	38	37	35	35	34
I	MINING, NEWTON	SABINE	-115	-59	35	105	168	207
I	NEWTON	SABINE	40	49	57	62	63	63
I	SOUTH NEWTON WSC	SABINE	144	144	144	144	144	144
I	STEAM ELECTRIC POWER, NEWTON	SABINE	-690	-3,080	-5,994	-9,545	-13,875	-19,021
	Sum of Projected Water Supply Needs (acre-feet)		**-805**	**-3,139**	**-5,994**	**-9,545**	**-13,875**	**-19,021**

TYLER COUNTY

All values are in acre-feet

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	COLMESNEIL	NECHES	207	209	212	213	213	213
I	COUNTY-OTHER, TYLER	NECHES	0	0	0	0	0	0
I	IRRIGATION, TYLER	NECHES	7	7	7	7	7	7
I	IVANHOE	NECHES	125	127	129	130	130	130
I	IVANHOE NORTH	NECHES	155	157	158	159	159	159
I	LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY	NECHES	0	0	0	0	0	0
I	LIVESTOCK, TYLER	NECHES	26	26	26	26	26	26
I	MANUFACTURING, TYLER	NECHES	0	0	0	0	0	0
I	MINING, TYLER	NECHES	77	39	87	134	182	208

Projected Water Supply Needs
TWDB 2017 State Water Plan Data

Negative values (in red) reflect a projected water supply need, positive values a surplus.

RWPG	WUG	WUG Basin	2020	2030	2040	2050	2060	2070
I	STEAM ELECTRIC POWER, TYLER	NECHES	0	0	0	0	0	0
I	TYLER COUNTY WSC	NECHES	390	412	433	445	447	447
I	WOODVILLE	NECHES	5,013	5,021	5,031	5,037	5,038	5,038
	Sum of Projected Water Supply Needs (acre-feet)		**0**	**0**	**0**	**0**	**0**	**0**

Projected Water Management Strategies
TWDB 2017 State Water Plan Data

JASPER COUNTY

WUG, Basin (RWPG) All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
MANUFACTURING, JASPER, NECHES (I)							
JASP-MFG CONTRACT EXPANSION	SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	3,049	6,021	8,250	8,335	8,420
		0	**3,049**	**6,021**	**8,250**	**8,335**	**8,420**
MANUFACTURING, JASPER, SABINE (I)							
JASP-MFG CONTRACT EXPANSION	SAM RAYBURN-STEINHAGEN LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	0
		0	**0**	**0**	**0**	**0**	**0**
Sum of Projected Water Management Strategies (acre-feet)		**0**	**3,049**	**6,021**	**8,250**	**8,335**	**8,420**

NEWTON COUNTY

WUG, Basin (RWPG) All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
MINING, NEWTON, SABINE (I)							
SRA-INF-PUMPSTATION	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	115	59	0	0	0	0
		115	**59**	**0**	**0**	**0**	**0**
STEAM ELECTRIC POWER, NEWTON, SABINE (I)							
SRA-INF-PUMPSTATION	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	690	3,080	5,994	9,545	13,875	19,021
		690	**3,080**	**5,994**	**9,545**	**13,875**	**19,021**
Sum of Projected Water Management Strategies (acre-feet)		**805**	**3,139**	**5,994**	**9,545**	**13,875**	**19,021**

Projected Water Management Strategies
TWDB 2017 State Water Plan Data

TYLER COUNTY

WUG, Basin (RWPG)

All values are in acre-feet

Water Management Strategy	Source Name [Origin]	2020	2030	2040	2050	2060	2070
WOODVILLE, NECHES (I)							
WOOD ENHANCED PUBLIC AND SCHOOL EDUCATION	DEMAND REDUCTION [TYLER]	0	0	6	7	9	10
WOOD WATER CONSERVATION PRICING	DEMAND REDUCTION [TYLER]	0	0	4	9	9	9
		0	**0**	**10**	**16**	**18**	**19**
Sum of Projected Water Management Strategies (acre-feet)		**0**	**0**	**10**	**16**	**18**	**19**

APPENDIX B

GAM Run 16-012:
Southeast Texas Groundwater Conservation District Management Plan:

By Shirley C. Wade, Ph.D., P.G.
Texas Water Development Board
Groundwater Division
Groundwater Availability Modeling Section
(512) 936-0883
October 31, 2016

GAM Run 16-012: Southeast Texas Groundwater Conservation District Management Plan

Shirley C. Wade, Ph.D., P.G.
Texas Water Development Board
Groundwater Division
Groundwater Availability Modeling Section
(512) 936-0883
October 31, 2016

Shirley C. Wade

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GAM RUN 16-012: SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT MANAGEMENT PLAN

Shirley C. Wade, Ph.D., P.G.
Texas Water Development Board
Groundwater Division
Groundwater Availability Modeling Section
(512) 936-0883
October 31, 2016

EXECUTIVE SUMMARY:

Texas State Water Code, Section 36.1071, Subsection (h) (Texas Water Code, 2015), states that, in developing its groundwater management plan, a groundwater conservation district shall use groundwater availability modeling information provided by the Executive Administrator of the Texas Water Development Board (TWDB) in conjunction with any available site-specific information provided by the district for review and comment to the Executive Administrator.

The TWDB provides data and information to the Southeast Texas Groundwater Conservation District in two parts. Part 1 is the Estimated Historical Water Use/State Water Plan dataset report, which will be provided to you separately by the TWDB Groundwater Technical Assistance Section. Please direct questions about the water data report to Mr. Stephen Allen at (512) 463-7317 or stephen.allen@twdb.texas.gov. Part 2 is the required groundwater availability modeling information and this information includes:

1. the annual amount of recharge from precipitation, if any, to the groundwater resources within the district;
2. for each aquifer within the district, the annual volume of water that discharges from the aquifer to springs and any surface-water bodies, including lakes, streams, and rivers; and
3. the annual volume of flow into and out of the district within each aquifer and between aquifers in the district.

The groundwater management plan for the Southeast Texas Groundwater Conservation District should be adopted by the district on or before July 20, 2017, and submitted to the Executive Administrator of the TWDB on or before August 19, 2017.

The current management plan for the Southeast Texas Groundwater Conservation District expires on October 18, 2017.

We used two groundwater availability models to estimate the management plan information for the aquifers within the Southeast Texas Groundwater Conservation District. Information for the Yegua-Jackson Aquifer is from version 1.01 of the groundwater availability model for the Yegua-Jackson Aquifer (Deeds and others, 2010). Information for the Gulf Coast Aquifer System is from version 3.01 of the groundwater availability model for the northern portion of Gulf Coast Aquifer System (Kasmarek, 2013).

This report discusses the methods, assumptions, and results from the model runs described above. This report replaces the results of GAM Run 11-019 (Jones, 2012). GAM Run 16-012 meets current standards set after the release of GAM Run 11-019 and includes results from the recently released groundwater availability model for the northern portion of the Gulf Coast Aquifer System (Kasmarek, 2013). Tables 1 and 2 summarize the groundwater availability model data required by statute. Figures 1 and 2 show the areas of the models from which the values in the tables were extracted. If after review of the figures, the Southeast Texas Groundwater Conservation District determines that the district boundaries used in the assessment do not reflect current conditions, please notify the TWDB at your earliest convenience.

METHODS:

In accordance with the provisions of the Texas State Water Code, Section 36.1071, Subsection (h), the groundwater availability models for the Yegua-Jackson Aquifer and the northern portion of the Gulf Coast Aquifer System were used to estimate information for the Southeast Texas Groundwater Conservation District management plan. Water budgets were extracted for the historical model periods (1980 through 1997 for the Yegua-Jackson Aquifer and 1980 through 2009 for the Gulf Coast Aquifer System) using ZONEBUDGET Version 3.01 (Harbaugh, 2009). The average annual water budget values for recharge, surface-water outflow, inflow to the district, and outflow from the district for the aquifers within the district are summarized in this report.

PARAMETERS AND ASSUMPTIONS:

Yegua-Jackson Aquifer

- We used version 1.01 of the groundwater availability model for the Yegua-Jackson Aquifer. See Deeds and others (2010) for assumptions and limitations of the groundwater availability model.

- This groundwater availability model includes five layers which all represent the Yegua-Jackson Aquifer in the outcrop. Outside the footprint of the Yegua-Jackson Aquifer the model layers represent the Catahoula Formation and other younger overlying units (Layer 1), the upper portion of the Jackson Group (Layer 2), the lower portion of the Jackson Group (Layer 3), the upper portion of the Yegua Group (Layer 4), and the lower portion of the Yegua Group (Layer 5).

- An overall water budget for the district was determined for the Yegua-Jackson Aquifer (Layer 1 through Layer 5, collectively, for the portions of the model that represent the Yegua-Jackson Aquifer). In separate water budget calculations we calculated groundwater flow between the Catahoula Formation and the Yegua-Jackson Aquifer.

- The model was run with MODFLOW-2000 (Harbaugh and others, 2000).

Gulf Coast Aquifer System

- We used version 3.01 of the groundwater availability model for the northern portion of the Gulf Coast Aquifer System for this analysis. See Kasmarek (2013) for assumptions and limitations of the model.

- The model has four layers which represent the Chicot Aquifer (Layer 1), the Evangeline Aquifer (Layer 2), the Burkeville Confining Unit (Layer 3), and the Jasper Aquifer and parts of the Catahoula Formation in direct hydrologic communication with the Jasper Aquifer (Layer 4).

- Water budgets for the district were determined for the Gulf Coast Aquifer System (Layers 1 through 4 collectively).

- The model was run with MODFLOW-2000 (Harbaugh and others, 2000).

- Because this model assumes a no-flow boundary condition at the base we also used version 1.01 of the groundwater availability model for the Yegua-Jackson Aquifer to investigate groundwater flows between the Catahoula Formation and the Yegua-Jackson Aquifer and between the Catahoula Formation and the base of the Gulf Coast Aquifer System. See Deeds and others (2010) for assumptions and limitations of the groundwater availability model.

RESULTS:

A groundwater budget summarizes the amount of water entering and leaving the aquifer according to the groundwater availability model. Selected groundwater budget components listed below were extracted from the groundwater availability models for the Yegua-Jackson Aquifer and the northern portion of the Gulf Coast Aquifer System within Southeast Texas Groundwater Conservation District and averaged over the historical calibration periods, as shown in Table 1 and 2.

1. Precipitation recharge—the areally distributed recharge sourced from precipitation falling on the outcrop areas of the aquifers (where the aquifer is exposed at land surface) within the district.

2. Surface-water outflow—the total water discharging from the aquifer (outflow) to surface-water features such as streams, reservoirs, and springs.

3. Flow into and out of district—the lateral flow within the aquifer between the district and adjacent counties.

4. Flow between aquifers—the net vertical flow between the aquifer and adjacent aquifers or confining units. This flow is controlled by the relative water levels in each aquifer and aquifer properties of each aquifer or confining unit that define the amount of leakage that occurs.

The information needed for the district's management plan is summarized in Tables 1 and 2. It is important to note that sub-regional water budgets are not exact. This is due to the size of the model cells and the approach used to extract data from the model. To avoid double accounting, a model cell that straddles a political boundary, such as a district or county boundary, is assigned to one side of the boundary based on the location of the centroid of the model cell. For example, if a cell contains two counties, the cell is assigned to the county where the centroid of the cell is located.

TABLE 1: SUMMARIZED INFORMATION FOR THE YEGUA-JACKSON AQUIFER FOR THE SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT'S GROUNDWATER MANAGEMENT PLAN. ALL VALUES ARE REPORTED IN ACRE-FEET PER YEAR AND ROUNDED TO THE NEAREST ONE ACRE-FOOT.

Management Plan requirement	*Aquifer or confining unit*	*Results*
Estimated annual amount of recharge from precipitation to the district	Yegua-Jackson Aquifer	5
Estimated annual volume of water that discharges from the aquifer to springs and any surface-water body including lakes, streams, and rivers	Yegua-Jackson Aquifer	152
Estimated annual volume of flow into the district within each aquifer in the district	Yegua-Jackson Aquifer	405
Estimated annual volume of flow out of the district within each aquifer in the district	Yegua-Jackson Aquifer	849
Estimated net annual volume of flow between each aquifer in the district	From the Yegua-Jackson subcrop into the Yegua-Jackson Aquifer (outcrop)	458
	From the Catahoula Formation and other overlying units into the Yegua-Jackson Aquifer	118

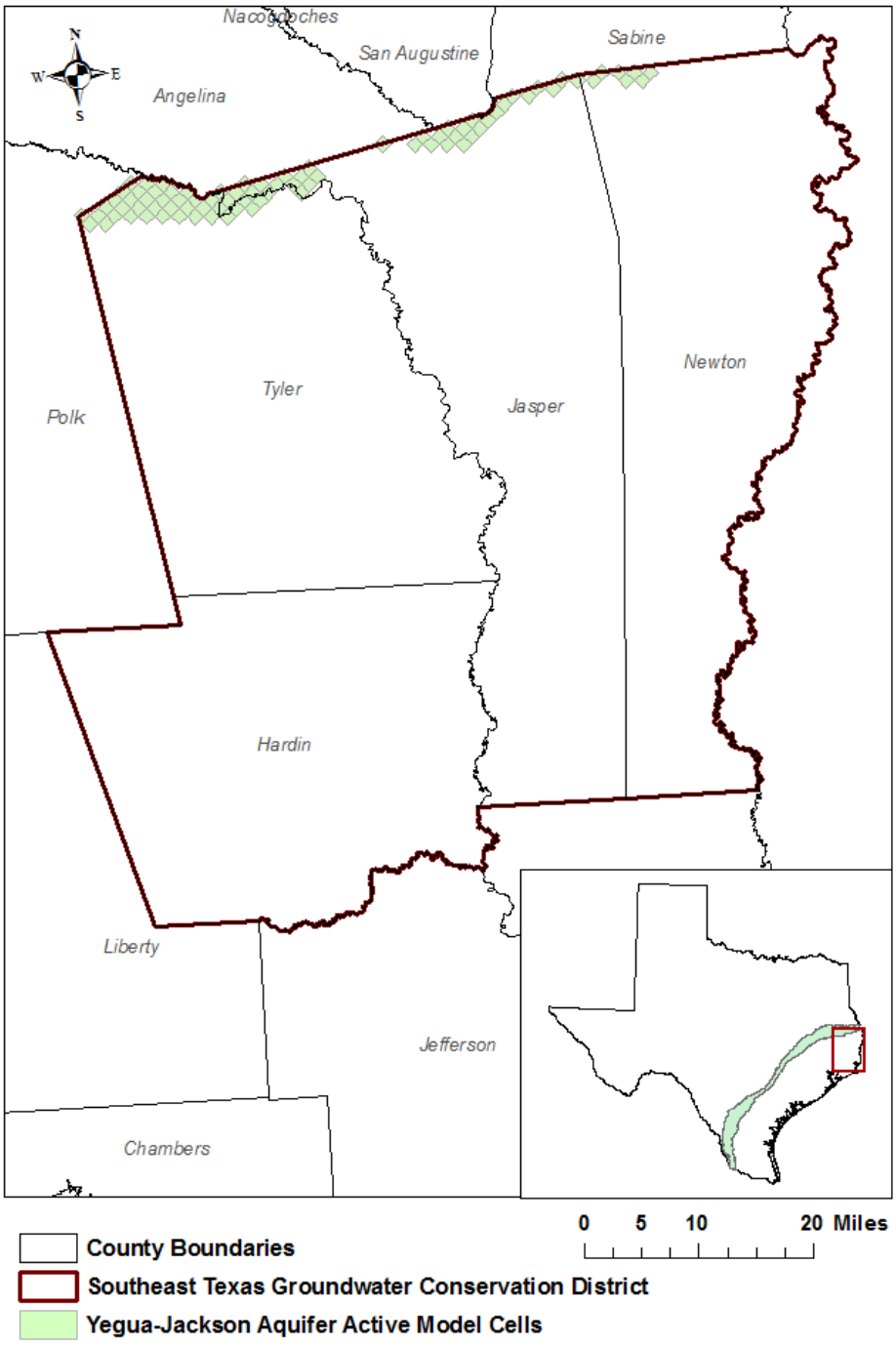

FIGURE 1: AREA OF THE GROUNDWATER AVAILABILITY MODEL FOR THE YEGUA-JACKSON AQUIFER FROM WHICH THE INFORMATION IN TABLE 1 WAS EXTRACTED (THE AQUIFER EXTENT WITHIN THE DISTRICT BOUNDARY).

TABLE 2: SUMMARIZED INFORMATION FOR THE GULF COAST AQUIFER SYSTEM FOR THE SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT'S GROUNDWATER MANAGEMENT PLAN. ALL VALUES ARE REPORTED IN ACRE-FEET PER YEAR AND ROUNDED TO THE NEAREST ONE ACRE-FOOT.

Management Plan requirement	Aquifer or confining unit	Results
Estimated annual amount of recharge from precipitation to the district	Gulf Coast Aquifer System	60,705
Estimated annual volume of water that discharges from the aquifer to springs and any surface-water body including lakes, streams, and rivers	Gulf Coast Aquifer System	10,496
Estimated annual volume of flow into the district within each aquifer in the district	Gulf Coast Aquifer System	15,530
Estimated annual volume of flow out of the district within each aquifer in the district	Gulf Coast Aquifer System	15,683
Estimated net annual volume of flow between each aquifer in the district	From the Catahoula Formation into the Jasper Aquifer	414[1]
	From the Catahoula Formation and other overlying units into the Yegua-Jackson Aquifer	118

[1] Part of this flow represents internal flow within the Gulf Coast Aquifer System and part represents cross-formational flow. This is because the shallow subcrop of the Catahoula Formation is part of the Gulf Coast Aquifer System but is not considered part of the Gulf Coast Aquifer System in the deeper portions.

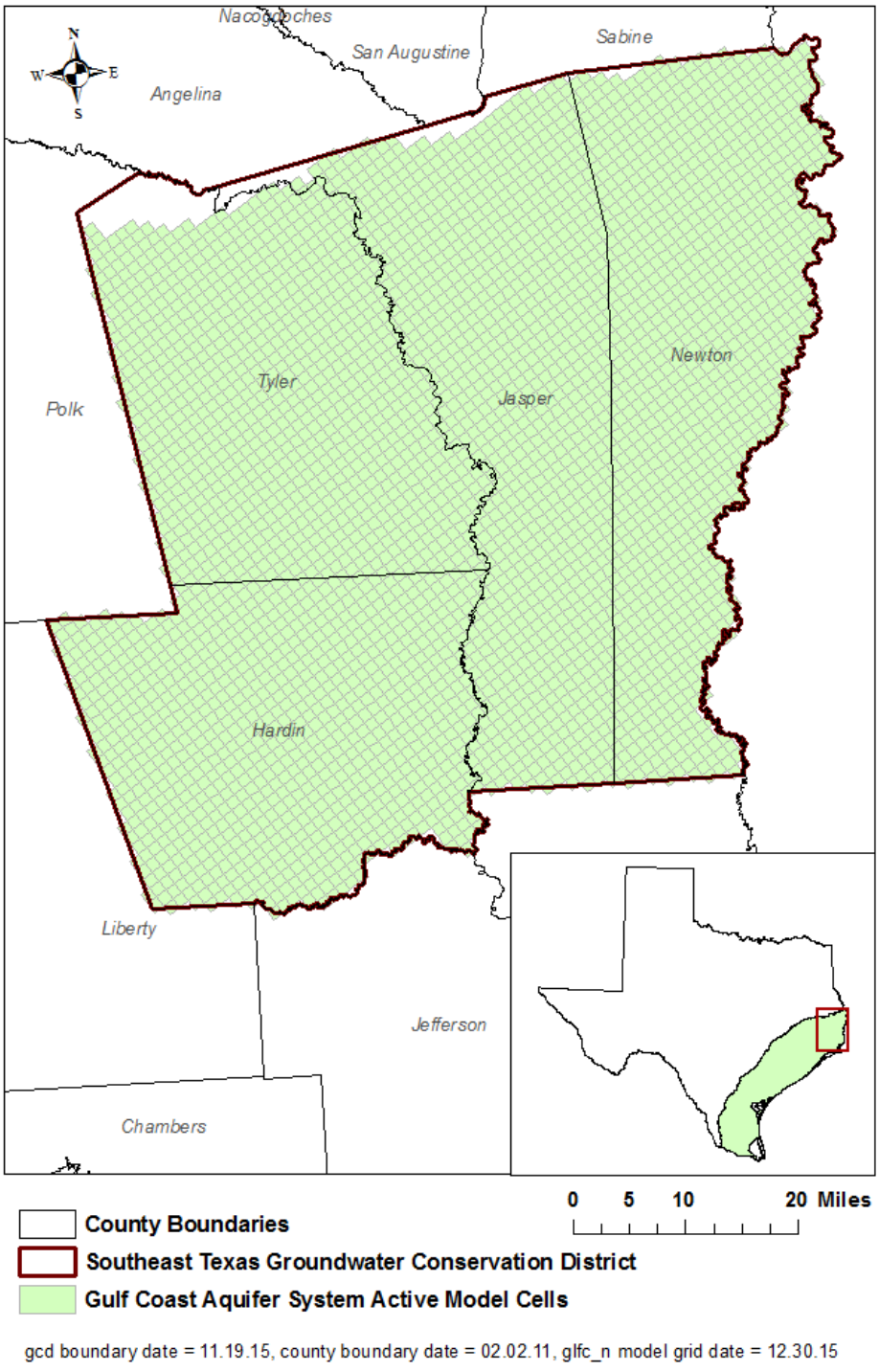

FIGURE 2: AREA OF THE GROUNDWATER AVAILABILITY MODEL FOR THE GULF COAST AQUIFER SYSTEM FROM WHICH THE INFORMATION IN TABLE 2 WAS EXTRACTED (THE AQUIFER SYSTEM EXTENT WITHIN THE DISTRICT BOUNDARY).

LIMITATIONS:

The groundwater models used in completing this analysis are the best available scientific tools that can be used to meet the stated objectives. To the extent that this analysis will be used for planning purposes and/or regulatory purposes related to pumping in the past and into the future, it is important to recognize the assumptions and limitations associated with the use of the results. In reviewing the use of models in environmental regulatory decision making, the National Research Council (2007) noted:

> *"Models will always be constrained by computational limitations, assumptions, and knowledge gaps. They can best be viewed as tools to help inform decisions rather than as machines to generate truth or make decisions. Scientific advances will never make it possible to build a perfect model that accounts for every aspect of reality or to prove that a given model is correct in all respects for a particular regulatory application. These characteristics make evaluation of a regulatory model more complex than solely a comparison of measurement data with model results."*

A key aspect of using the groundwater model to evaluate historic groundwater flow conditions includes the assumptions about the location in the aquifer where historic pumping was placed. Understanding the amount and location of historic pumping is as important as evaluating the volume of groundwater flow into and out of the district, between aquifers within the district (as applicable), interactions with surface water (as applicable), recharge to the Aquifer System (as applicable), and other metrics that describe the impacts of that pumping. In addition, assumptions regarding precipitation, recharge, and interaction with streams are specific to particular historic time periods.

Because the application of the groundwater models was designed to address regional-scale questions, the results are most effective on a regional scale. The TWDB makes no warranties or representations related to the actual conditions of any aquifer at a particular location or at a particular time.

It is important for groundwater conservation districts to monitor groundwater pumping and overall conditions of the aquifer. Because of the limitations of the groundwater model and the assumptions in this analysis, it is important that the groundwater conservation districts work with the TWDB to refine this analysis in the future given the reality of how the aquifer responds to the actual amount and location of pumping now and in the future. Historic precipitation patterns also need to be placed in context as future climatic conditions, such as dry and wet year precipitation patterns, may differ and affect groundwater flow conditions.

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APPENDIX C

GAM Run 16-024 MAG: Modeled Available Groundwater For The Gulf Coast Aquifer System in Groundwater Management Area 14

By Shirley Wade, PH.D., P.G.
Texas Water Development Board Groundwater Division
Groundwater Availability Modeling Section (512) 936-0883
December 15, 2016

GAM Run 16-024 MAG: Modeled Available Groundwater for the Gulf Coast Aquifer System in Groundwater Management Area 14

Shirley C. Wade, Ph.D., P.G.
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December 15, 2016

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12/15/16

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GAM RUN 16-024 MAG: MODELED AVAILABLE GROUNDWATER FOR THE GULF COAST AQUIFER SYSTEM IN GROUNDWATER MANAGEMENT AREA 14

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Texas Water Development Board
Groundwater Division
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(512) 936-0883
December 15, 2016

EXECUTIVE SUMMARY:

The modeled available groundwater for Groundwater Management Area 14 and the projected groundwater pumpage in subsidence districts for the Gulf Coast Aquifer System ranges from approximately 1,020,000 acre-feet per year in 2010 to 950,000 acre-feet per year in 2070. Table 1 presents the modeled available groundwater summarized by the decades 2010 to 2070 for groundwater conservation districts. Table 2 presents the projected groundwater pumpage in regulatory plans adopted by subsidence districts and factored into the development of desired future conditions adopted by groundwater conservation districts. Table 3 summarizes the modeled available groundwater for groundwater conservation districts and non-district counties, and the projected groundwater pumpage for subsidence districts by the decades 2020 to 2070 for use in the regional water planning process. The estimates are based on the desired future conditions for the Gulf Coast Aquifer System adopted by groundwater conservation districts in Groundwater Management Area 14 on April 29, 2016. The explanatory report and other materials submitted to the Texas Water Development Board (TWDB) were determined to be administratively complete on July 12, 2016.

REQUESTOR:

Ms. Kathy Turner Jones, chair of Groundwater Management Area 14.

DESCRIPTION OF REQUEST:

In a letter dated May 5, 2016, Ms. Kathy Turner Jones provided the TWDB with the desired future conditions of the Gulf Coast Aquifer System adopted by the groundwater

conservation districts in Groundwater Management Area 14. The desired future conditions for the Gulf Coast Aquifer System, as described in Resolution No. 2016-01-01 and adopted April 29, 2016 by the groundwater conservation districts within Groundwater Management Area 14, are described below:

Groundwater Management Area 14 [all counties]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 28.3 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 23.6 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 18.5 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 66.2 feet after 61 years.

Austin County [Bluebonnet Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 39 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 23 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 23 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 76 feet after 61 years.
- From estimated year 1890 conditions, the maximum subsidence in Austin County should not exceed approximately 2.83 feet by the year 2070.

Brazoria County [Brazoria County Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 23 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 27 feet after 61 years.

Chambers County

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 32 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 30 feet after 61 years.

Grimes County [Bluebonnet Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 5 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 5 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 6 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 52 feet after 61 years.
- From estimated year 1890 conditions, the maximum subsidence in Grimes County should not exceed approximately 0.12 feet by the year 2070.

Hardin County [Southeast Texas Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 21 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 27 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 29 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 89 feet after 61 years.

Jasper County [Southeast Texas Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 23 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 41 feet after 61 years.

- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 46 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 40 feet after 61 years.

Jefferson County

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 15 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 17 feet after 61 years.

Liberty County

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 27 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 29 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 25 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 120 feet after 61 years.

Montgomery County [Lone Star Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 26 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately -4 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately -4 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 34 feet after 61 years.

Newton County [Southeast Texas Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 35 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 45 feet after 61 years.

- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 44 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 37 feet after 61 years.

Orange County

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 14 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 16 feet after 61 years.

Polk County [Lower Trinity Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 26 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 10 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 15 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 73 feet after 61 years.

San Jacinto County [Lower Trinity Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 22 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 19 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 19 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 108 feet after 61 years.

Tyler County [Southeast Texas Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 42 feet after 61 years.

- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 35 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 30 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 62 feet after 61 years.

Walker County [Bluebonnet Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 9 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 4 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 42 feet after 61 years.
- From estimated year 1890 conditions, the maximum subsidence in Walker County should not exceed approximately 0.04 feet by the year 2070.

Waller County [Bluebonnet Groundwater Conservation District]

- From estimated year 2009 conditions, the average drawdown of the Chicot Aquifer should not exceed approximately 39 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 39 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 40 feet after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 101 feet after 61 years.
- From estimated year 1890 conditions, the maximum subsidence in Waller County should not exceed approximately 4.73 feet by the year 2070.

Washington County

- From estimated year 2009 conditions, the average drawdown of the Evangeline Aquifer should not exceed approximately 1 foot after 61 years.
- From estimated year 2009 conditions, the average drawdown of the Burkeville confining unit should not exceed approximately 16 feet after 61 years.

- From estimated year 2009 conditions, the average drawdown of the Jasper Aquifer should not exceed approximately 48 feet after 61 years.

Harris, Galveston, and Fort Bend Counties (Subsidence Districts)

Harris-Galveston Subsidence District and Fort Bend Subsidence District are not subject to the provisions of Section 36.108 of the Texas Water Code and therefore have not specified desired future conditions. Because desired future conditions were not adopted for the counties in the subsidence districts, modeled available groundwater values were not determined for those counties. The districts in Groundwater Management Area 14 incorporated the groundwater pumpage projections made by the subsidence districts in their regulatory plans so that all known regional groundwater pumping was factored into the joint planning process. The subsidence district groundwater pumpage projections are provided in Table 2 and are incorporated into the information relevant to regional water planning (Table 3).

METHODS:

The TWDB ran the groundwater availability model (version 3.01) for the northern part of the Gulf Coast Aquifer System (Figure 1) using the model files submitted with the explanatory report (GMA 14 and others, 2016; Appendix F) and an updated pumping file provided by the Groundwater Management Area 14 consultants on October 26, 2016. The modeled available groundwater values were determined by extracting pumping rates by decade from the model results using ZONEBUDGET Version 3.01 (Harbaugh, 2009). Annual pumping rates were divided by county, river basin, regional water planning area, and groundwater conservation district within Groundwater Management Area 14 (Figure 2 and Tables 1 through 3).

As part of the process to calculate modeled available groundwater, the TWDB checked the model files submitted by Groundwater Management Area 14 to determine if the groundwater pumping scenarios were compatible with the adopted desired future conditions. The TWDB used these model files to extract model-calculated water levels for 2009 and 2070, and drawdown was calculated as the difference between water levels in 2009 and water levels in 2070. The results of this evaluation are provided in the Appendix. Drawdown averages were calculated for each county by aquifer and for the entire groundwater management area by aquifer. As specified in the explanatory report (GMA 14 and others, 2016; Appendix F), drawdown for cells which became dry during the simulation (water level dropped below the base of the cell) were excluded from the averaging. The calculated drawdown averages compared well with the desired future conditions and verified that the pumping scenarios defined by the districts achieved the desired future conditions. The subsidence values were also extracted from the model

results and those were also compared to subsidence-based desired future conditions for the four counties where they were specified.

Modeled Available Groundwater and Permitting

As defined in Chapter 36 of the Texas Water Code, "modeled available groundwater" is the estimated average amount of water that may be produced annually to achieve a desired future condition. Groundwater conservation districts are required to consider modeled available groundwater, along with several other factors, when issuing permits in order to manage groundwater production to achieve the desired future condition(s). The other factors districts must consider include annual precipitation and production patterns, the estimated amount of pumping exempt from permitting, existing permits, and a reasonable estimate of actual groundwater production under existing permits.

PARAMETERS AND ASSUMPTIONS:

The parameters and assumptions for the groundwater availability are described below:

- Version 3.01 of the groundwater availability model for the northern portion of the Gulf Coast Aquifer System was used for this analysis. See Kasmarek (2013) for assumptions and limitations of the model.

- The model has four layers which represent the Chicot Aquifer (Layer 1), the Evangeline Aquifer (Layer 2), the Burkeville Confining Unit (Layer 3), and the Jasper Aquifer and parts of the Catahoula Formation in direct hydrologic communication with the Jasper Aquifer (Layer 4).

- The model was run with MODFLOW-2000 (Harbaugh and others, 2000).

- Drawdown averages and modeled available groundwater values are based on the extent of the model area rather than official aquifer boundaries (Figures 1 and 2).

- Drawdown for cells with water levels below the base elevation of the cell ("dry" cells) were excluded from the averaging per Appendix F of the explanatory report.

- Cells with water levels below the base are "dry" in terms of water level. However, the transmissivity of those cells remains constant and pumping from those cells continues.

- For those cells where water levels have dropped below the base we include pumping in the modeled available groundwater values.

- Estimates of modeled available groundwater from the model simulation were rounded to whole numbers.

- Starting conditions were assumed reasonable since 2009 was the final year of the calibrated model.

- A model tolerance of up to one foot was assumed when comparing desired future condition average drawdown values per county to model results (Appendix).

- A model tolerance of 0.1 foot was assumed when comparing desired future condition maximum subsidence values per county to model results (Appendix).

- Average drawdown per county may include some model cells that represent portions of surface water such as bays, reservoirs, and the Gulf of Mexico.

RESULTS:

The modeled available groundwater for the Gulf Coast Aquifer System that achieves the desired future conditions adopted by Groundwater Management Area 14 decreases from 571,007 to 544,220 acre-feet per year between 2010 and 2070 (Table 1). Projected groundwater pumpage from the three counties in the Harris Galveston Subsidence District and Fort Bend Subsidence District range between 325,226 and 545,246 acre-feet per year during the period 2010 to 2070 (Table 2). The combination of modeled available groundwater and projected groundwater pumpage has been summarized by county, river basin, and regional water planning area for use in the regional water planning process (Table 3). The modeled available groundwater is also summarized by groundwater conservation district and county (Table 1).

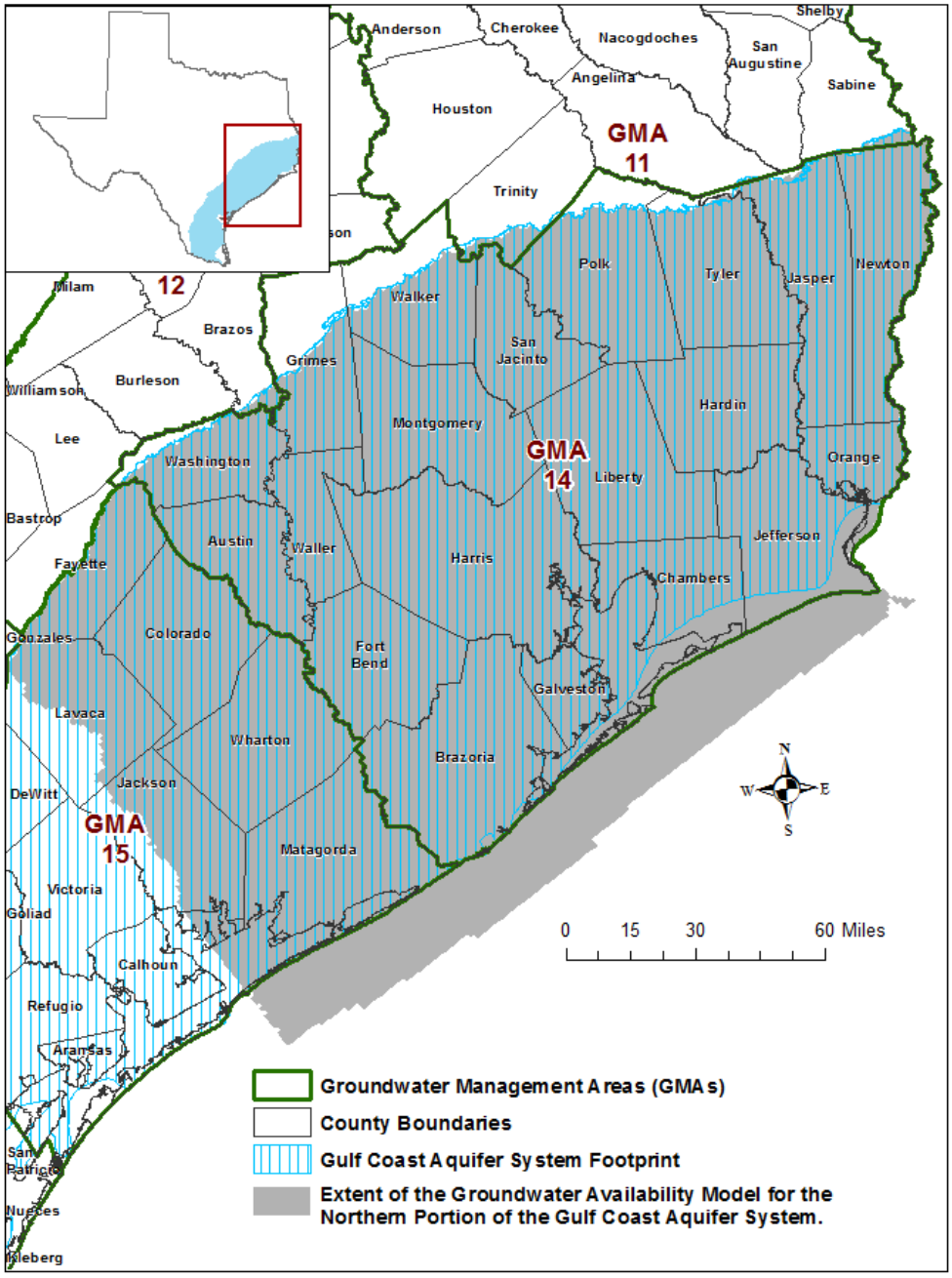

FIGURE 1. MAP SHOWING THE AREAS COVERED BY THE GROUNDWATER AVAILABILITY MODEL FOR THE NORTHERN PART OF THE GULF COAST AQUIFER SYSTEM.

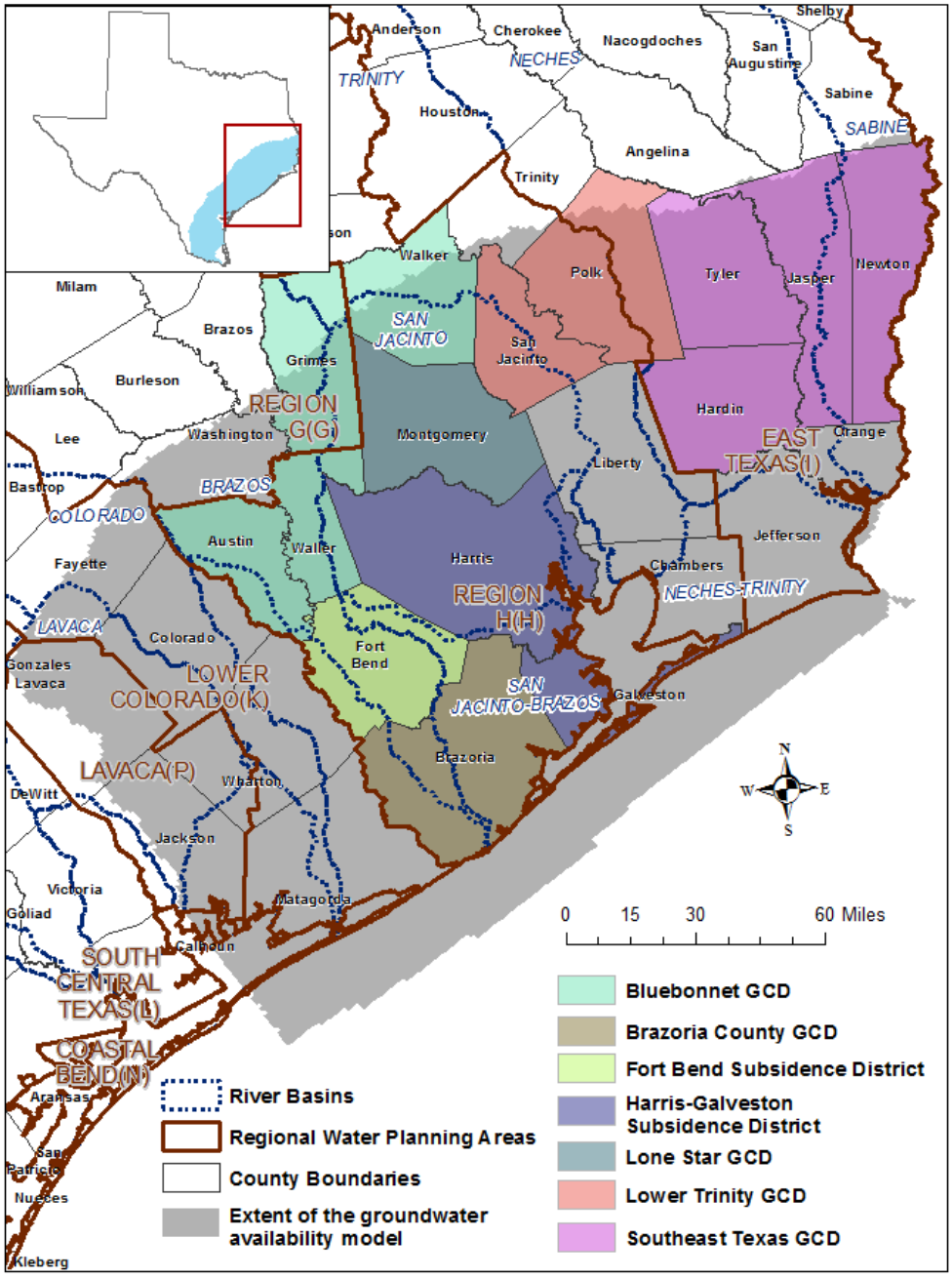

FIGURE 2. MAP SHOWING REGIONAL WATER PLANNING AREAS, GROUNDWATER CONSERVATION DISTRICTS (GCDS), SUBSIDENCE DISTRICTS, COUNTIES, AND RIVER BASINS IN GROUNDWATER MANAGEMENT AREA 14.

TABLE 1. MODELED AVAILABLE GROUNDWATER FOR THE GULF COAST AQUIFER SYSTEM IN GROUNDWATER MANAGEMENT AREA 14 SUMMARIZED BY GROUNDWATER CONSERVATION DISTRICT (GCD) AND COUNTY FOR EACH DECADE BETWEEN 2010 AND 2070. VALUES ARE IN ACRE-FEET PER YEAR.

Groundwater Conservation District	County	Aquifer	2010	2020	2030	2040	2050	2060	2070
Bluebonnet GCD	Austin	Chicot Aquifer	1,300	1,300	1,300	1,300	1,300	1,300	1,300
Bluebonnet GCD	Austin	Evangeline Aquifer	19,998	19,998	19,998	19,998	19,998	19,998	19,998
Bluebonnet GCD	Austin	Burkeville confining	0	0	0	0	0	0	0
Bluebonnet GCD	Austin	Jasper Aquifer	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Bluebonnet GCD	Grimes	Chicot Aquifer	0	0	0	0	0	0	0
Bluebonnet GCD	Grimes	Evangeline Aquifer	2,999	2,999	2,999	2,999	2,999	2,999	2,999
Bluebonnet GCD	Grimes	Burkeville confining	0	0	0	0	0	0	0
Bluebonnet GCD	Grimes	Jasper Aquifer	10,998	10,998	10,998	10,998	10,998	10,998	10,998
Bluebonnet GCD	Walker	Chicot Aquifer	0	0	0	0	0	0	0
Bluebonnet GCD	Walker	Evangeline Aquifer	2,000	2,000	2,000	2,000	2,000	2,000	2,000
Bluebonnet GCD	Walker	Burkeville confining	0	0	0	0	0	0	0
Bluebonnet GCD	Walker	Jasper Aquifer	15,972	15,972	15,972	15,972	15,972	15,972	15,972
Bluebonnet GCD	Waller	Chicot Aquifer	300	300	300	300	300	300	300
Bluebonnet GCD	Waller	Evangeline Aquifer	40,994	40,994	40,994	40,994	40,994	40,994	40,994
Bluebonnet GCD	Waller	Burkeville confining	0	0	0	0	0	0	0
Bluebonnet GCD	Waller	Jasper Aquifer	300	300	300	300	300	300	300
Bluebonnet GCD Total		**Gulf Coast Aquifer System**	**95,859**	**95,859**	**95,859**	**95,859**	**95,859**	**95,859**	**95,859**
Brazoria County	Brazoria	Chicot Aquifer	38,994	39,042	39,164	39,208	39,251	39,295	39,345
Brazoria County	Brazoria	Evangeline Aquifer	11,376	11,376	11,376	11,376	11,376	11,375	11,376
Brazoria County GCD Total		**Gulf Coast Aquifer System**	**50,369**	**50,418**	**50,540**	**50,583**	**50,626**	**50,670**	**50,721**
Lone Star GCD	Montgomery	Chicot Aquifer	11,922	12,600	13,870	13,944	15,026	14,717	14,175
Lone Star GCD	Montgomery	Evangeline Aquifer	37,734	27,525	27,553	27,773	26,575	26,615	26,529

Groundwater Conservation District	County	Aquifer	2010	2020	2030	2040	2050	2060	2070
Lone Star GCD	Montgomery	Burkeville confining	0	0	0	0	0	0	0
Lone Star GCD	Montgomery	Jasper Aquifer	41,491	23,880	22,582	22,288	22,404	22,673	23,301
Lone Star GCD Total		**Gulf Coast Aquifer System**	**91,146**	**64,004**	**64,004**	**64,004**	**64,004**	**64,004**	**64,004**
Lower Trinity GCD	Polk	Chicot Aquifer	0	0	0	0	0	0	0
Lower Trinity GCD	Polk	Evangeline Aquifer	8,302	8,302	8,302	8,302	8,302	8,302	8,302
Lower Trinity GCD	Polk	Burkeville confining	743	743	743	743	743	743	743
Lower Trinity GCD	Polk	Jasper Aquifer	27,663	27,663	27,663	27,663	27,663	27,663	27,663
Lower Trinity GCD	San Jacinto	Chicot Aquifer	0	0	0	0	0	0	0
Lower Trinity GCD	San Jacinto	Evangeline Aquifer	8,170	8,170	8,170	8,170	8,170	8,170	8,170
Lower Trinity GCD	San Jacinto	Burkeville confining	2,697	2,697	2,697	2,697	2,697	2,697	2,697
Lower Trinity GCD	San Jacinto	Jasper Aquifer	10,116	10,116	10,116	10,116	10,116	10,116	10,116
Lower Trinity GCD Total		**Gulf Coast Aquifer System**	**57,691**	**57,691**	**57,691**	**57,691**	**57,691**	**57,691**	**57,691**
Southeast Texas	Hardin	Chicot Aquifer	1,262	1,262	1,262	1,262	1,262	1,262	1,262
Southeast Texas	Hardin	Evangeline Aquifer	33,665	33,665	33,665	33,665	33,665	33,665	33,665
Southeast Texas	Hardin	Burkeville confining	0	0	0	0	0	0	0
Southeast Texas	Hardin	Jasper Aquifer	0	0	0	0	0	0	0
Southeast Texas	Jasper	Chicot Aquifer	10,827	10,827	10,827	10,827	10,827	10,827	10,827
Southeast Texas	Jasper	Evangeline Aquifer	40,648	40,648	40,648	40,648	40,648	40,648	40,648
Southeast Texas	Jasper	Burkeville confining	1	1	1	1	1	1	1
Southeast Texas	Jasper	Jasper Aquifer	16,008	16,008	16,008	16,008	16,008	16,008	16,008
Southeast Texas	Newton	Chicot Aquifer	500	500	500	500	500	500	500
Southeast Texas	Newton	Evangeline Aquifer	21,343	21,343	21,343	21,343	21,343	21,343	21,343
Southeast Texas	Newton	Burkeville confining	0	0	0	0	0	0	0
Southeast Texas	Newton	Jasper Aquifer	12,376	12,376	12,376	12,376	12,376	12,376	12,376
Southeast Texas	Tyler	Chicot Aquifer	0	0	0	0	0	0	0

Groundwater Conservation District	County	Aquifer	2010	2020	2030	2040	2050	2060	2070
Southeast Texas	Tyler	Evangeline Aquifer	20,576	20,576	20,576	20,576	20,576	20,576	20,576
Southeast Texas	Tyler	Burkeville confining	1	1	1	1	1	1	1
Southeast Texas	Tyler	Jasper Aquifer	17,634	17,634	17,634	17,634	17,634	17,634	17,634
Southeast Texas GCD Total		**Gulf Coast Aquifer System**	**174,841**	**174,841**	**174,841**	**174,841**	**174,841**	**174,841**	**174,841**
Total (groundwater conservation districts)		**Gulf Coast Aquifer System**	**469,907**	**442,813**	**442936**	**442,979**	**443,022**	**443,066**	**443,117**
No District-County	Chambers	Chicot Aquifer	22,573	22,573	22,573	22,573	22,573	22,573	22,573
No District-County	Chambers	Evangeline Aquifer	378	378	378	378	378	378	378
No District-County	Jefferson	Chicot Aquifer	2,426	2,426	2,426	2,426	2,426	2,426	2,426
No District-County	Jefferson	Evangeline Aquifer	100	100	100	100	100	100	100
No District-County	Liberty	Chicot Aquifer	14,571	14,571	14,572	14,572	14,572	14,572	14,572
No District-County	Liberty	Evangeline Aquifer	27,654	27,654	27,656	27,655	27,656	27,656	27,656
No District-County	Liberty	Burkeville confining	215	215	215	215	215	215	215
No District-County	Liberty	Jasper Aquifer	787	787	787	787	787	787	787
No District-County	Orange	Chicot Aquifer	18,162	18,162	18,162	18,162	18,162	18,162	18,162
No District-County	Orange	Evangeline Aquifer	1,202	1,202	1,202	1,202	1,202	1,202	1,202
No District-County	Washington	Evangeline Aquifer	3,236	3,236	3,236	3,236	3,236	3,236	3,236
No District-County	Washington	Burkeville confining	367	367	367	367	367	367	367
No District-County	Washington	Jasper Aquifer	9,428	9,428	9,428	9,428	9,428	9,428	9,428
No District-County Total		**Gulf Coast Aquifer System**	**101,100**	**101,100**	**101,103**	**101,101**	**101,102**	**101,103**	**101,103**

Groundwater Conservation District	County	Aquifer	2010	2020	2030	2040	2050	2060	2070
GMA 14	**Total (all areas except subsidence districts)**	**Gulf Coast Aquifer System**	**571,007**	**543,913**	**544,039**	**544,080**	**544,124**	**544,169**	**544,020**

TABLE 2. GROUNDWATER PUMPAGE PROJECTIONS FOR THE GULF COAST AQUIFER SYSTEM IN GROUNDWATER MANAGEMENT AREA 14 FOR SUBSIDENCE DISTRICT COUNTIES FOR EACH DECADE BETWEEN 2010 AND 2070. VALUES ARE IN ACRE-FEET PER YEAR.

Subsidence District	County	Aquifer	2010	2020	2030	2040	2050	2060	2070
Fort Bend	Fort Bend	Chicot Aquifer	46,789	58,200	52,663	62,635	72,957	84,002	95,430
Fort Bend	Fort Bend	Evangeline Aquifer	75,249	71,572	51,072	56,656	61,875	66,942	71,651
Fort Bend	Fort Bend	Burkeville confining	0	0	0	0	0	0	0
Fort Bend	Fort Bend	Jasper Aquifer	0	0	0	0	0	0	0
Fort Bend Subsidence District Total		**Gulf Coast Aquifer System**	**122,038**	**129,772**	**103,735**	**119,291**	**134,832**	**150,944**	**167,081**
Harris-Galveston	Galveston	Chicot Aquifer	4,850	5,819	6,537	7,153	7,748	8,303	8,759
Harris-Galveston	Galveston	Evangeline Aquifer	167	215	254	284	314	346	371
Harris-Galveston	Harris	Chicot Aquifer	92,348	136,640	108,694	80,512	86,842	90,290	93,457
Harris-Galveston	Harris	Evangeline Aquifer	224,465	264,588	176,427	114,821	121,148	126,231	130,840
Harris-Galveston	Harris	Burkeville confining	0	0	0	0	0	0	0
Harris-Galveston	Harris	Jasper Aquifer	6,067	8,212	5,432	3,164	3,368	3,519	3,644
Harris-Galveston Subsidence District Total		**Gulf Coast Aquifer System**	**327,897**	**415,474**	**297,343**	**205,935**	**219,420**	**228,688**	**237,071**
GMA 14	**Total (subsidence districts)**	**Gulf Coast Aquifer System**	**449,935**	**545,246**	**401,078**	**325,226**	**354,252**	**379,632**	**404,152**

TABLE 3. MODELED AVAILABLE GROUNDWATER AND PROJECTED GROUNDWATER PUMPAGE VALUES (*IN ITALICS*) BY DECADE FOR THE GULF COAST AQUIFER SYSTEM IN GROUNDWATER MANAGEMENT AREA 14. RESULTS ARE IN ACRE-FEET PER YEAR AND ARE SUMMARIZED BY COUNTY, REGIONAL WATER PLANNING AREA (RWPA), RIVER BASIN, AND AQUIFER.

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Austin	H	Brazos-Colorado	Chicot Aquifer	1,005	1,005	1,005	1,005	1,005	1,005
Austin	H	Brazos-Colorado	Evangeline Aquifer	14,517	14,517	14,517	14,517	14,517	14,517
Austin	H	Brazos-Colorado	Burkeville confining unit	0	0	0	0	0	0
Austin	H	Brazos-Colorado	Jasper Aquifer	76	76	76	76	76	76
Austin	H	Brazos	Chicot Aquifer	295	295	295	295	295	295
Austin	H	Brazos	Evangeline Aquifer	5,458	5,458	5,458	5,458	5,458	5,458
Austin	H	Brazos	Burkeville confining unit	0	0	0	0	0	0
Austin	H	Brazos	Jasper Aquifer	826	826	826	826	826	826
Austin	H	Colorado	Chicot Aquifer	0	0	0	0	0	0
Austin	H	Colorado	Evangeline Aquifer	23	23	23	23	23	23
Austin	H	Colorado	Burkeville confining unit	0	0	0	0	0	0
Austin	H	Colorado	Jasper Aquifer	98	98	98	98	98	98
Brazoria	H	Brazos-Colorado	Chicot Aquifer	9,134	8,929	8,735	8,474	8,217	7,986
Brazoria	H	Brazos-Colorado	Evangeline Aquifer	1	1	2	2	2	2
Brazoria	H	Brazos	Chicot Aquifer	3,223	3,057	2,992	2,923	2,865	2,821
Brazoria	H	Brazos	Evangeline Aquifer	0	0	0	0	0	0
Brazoria	H	San Jacinto-Brazos	Chicot Aquifer	26,684	27,178	27,481	27,854	28,213	28,537
Brazoria	H	San Jacinto-Brazos	Evangeline Aquifer	11,375	11,374	11,374	11,374	11,374	11,374
Chambers	H	Neches-Trinity	Chicot Aquifer	10,798	10,798	10,798	10,798	10,798	10,798
Chambers	H	Neches-Trinity	Evangeline Aquifer	0	0	0	0	0	0
Chambers	H	Trinity-San Jacinto	Chicot Aquifer	1,671	1,671	1,671	1,671	1,671	1,671
Chambers	H	Trinity-San Jacinto	Evangeline Aquifer	378	378	378	378	378	378
Chambers	H	Trinity	Chicot Aquifer	10,104	10,104	10,104	10,104	10,104	10,104
Chambers	H	Trinity	Evangeline Aquifer	0	0	0	0	0	0
Fort Bend	*H*	*Brazos-Colorado*	*Chicot Aquifer*	*6,338*	*7,157*	*8,493*	*10,447*	*13,307*	*17,077*
Fort Bend	*H*	*Brazos-Colorado*	*Evangeline Aquifer*	*563*	*728*	*1,079*	*1,584*	*2,310*	*3,256*

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Fort Bend	*H*	*Brazos-Colorado*	*Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*Brazos-Colorado*	*Jasper Aquifer*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*Brazos*	*Chicot Aquifer*	*25,117*	*24,308*	*30,446*	*36,552*	*42,837*	*49,006*
Fort Bend	*H*	*Brazos*	*Evangeline Aquifer*	*17,216*	*13,537*	*16,080*	*18,582*	*21,174*	*23,754*
Fort Bend	*H*	*Brazos*	*Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*Brazos*	*Jasper Aquifer*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*San Jacinto-Brazos*	*Chicot Aquifer*	*17,810*	*15,117*	*17,542*	*19,801*	*21,707*	*23,191*
Fort Bend	*H*	*San Jacinto-Brazos*	*Evangeline Aquifer*	*35,680*	*25,524*	*28,118*	*30,370*	*32,165*	*33,366*
Fort Bend	*H*	*San Jacinto-Brazos*	*Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*San Jacinto-Brazos*	*Jasper Aquifer*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*San Jacinto*	*Chicot Aquifer*	*8,936*	*6,081*	*6,153*	*6,157*	*6,151*	*6,156*
Fort Bend	*H*	*San Jacinto*	*Evangeline Aquifer*	*18,113*	*11,282*	*11,379*	*11,340*	*11,293*	*11,275*
Fort Bend	*H*	*San Jacinto*	*Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Fort Bend	*H*	*San Jacinto*	*Jasper Aquifer*	*0*	*0*	*0*	*0*	*0*	*0*
Galveston	*H*	*Neches-Trinity*	*Chicot Aquifer*	*0*	*0*	*0*	*0*	*0*	*1*
Galveston	*H*	*San Jacinto-Brazos*	*Chicot Aquifer*	*5,819*	*6,537*	*7,153*	*7,748*	*8,303*	*8,759*
Galveston	*H*	*San Jacinto-Brazos*	*Evangeline Aquifer*	*215*	*254*	*284*	*314*	*346*	*371*
Grimes	G	Brazos	Chicot Aquifer	0	0	0	0	0	0
Grimes	G	Brazos	Evangeline Aquifer	2,256	2,256	2,256	2,256	2,256	2,256
Grimes	G	Brazos	Burkeville confining unit	0	0	0	0	0	0
Grimes	G	Brazos	Jasper Aquifer	8,624	8,624	8,624	8,624	8,624	8,624
Grimes	G	San Jacinto	Chicot Aquifer	0	0	0	0	0	0
Grimes	G	San Jacinto	Evangeline Aquifer	743	743	743	743	743	743
Grimes	G	San Jacinto	Burkeville confining unit	0	0	0	0	0	0
Grimes	G	San Jacinto	Jasper Aquifer	1,451	1,451	1,451	1,451	1,451	1,451
Grimes	G	Trinity	Jasper Aquifer	922	922	922	922	922	922
Hardin	I	Neches	Chicot Aquifer	1,262	1,262	1,262	1,262	1,262	1,262
Hardin	I	Neches	Evangeline Aquifer	33,527	33,527	33,527	33,527	33,527	33,527
Hardin	I	Neches	Burkeville confining unit	0	0	0	0	0	0

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Hardin	I	Neches	Jasper Aquifer	0	0	0	0	0	0
Hardin	I	Trinity	Chicot Aquifer	0	0	0	0	0	0
Hardin	I	Trinity	Evangeline Aquifer	138	138	138	138	138	138
Hardin	I	Trinity	Burkeville confining unit	0	0	0	0	0	0
Hardin	I	Trinity	Jasper Aquifer	0	0	0	0	0	0
Harris	*H*	*San Jacinto-Brazos*	*Chicot Aquifer*	*4,331*	*4,858*	*5,405*	*5,959*	*6,383*	*6,853*
Harris	*H*	*San Jacinto-Brazos*	*Evangeline Aquifer*	*1,975*	*2,096*	*2,211*	*2,323*	*2,435*	*2,544*
Harris	*H*	*San Jacinto*	*Chicot Aquifer*	*129,749*	*101,232*	*72,499*	*78,104*	*81,042*	*83,662*
Harris	*H*	*San Jacinto*	*Evangeline Aquifer*	*262,218*	*173,938*	*112,257*	*118,444*	*123,397*	*127,883*
Harris	*H*	*San Jacinto*	*Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Harris	*H*	*San Jacinto*	*Jasper Aquifer*	*8,212*	*5,432*	*3,164*	*3,368*	*3,519*	*3,644*
Harris	*H*	*Trinity-San Jacinto*	*Chicot Aquifer*	*2,560*	*2,604*	*2,609*	*2,779*	*2,865*	*2,942*
Harris	*H*	*Trinity-San Jacinto*	*Evangeline Aquifer*	*395*	*393*	*353*	*382*	*398*	*412*
Harris	*H*	*Trinity-San Jacinto*	*B Burkeville confining unit*	*0*	*0*	*0*	*0*	*0*	*0*
Harris	*H*	*Trinity-San Jacinto*	*Jasper Aquifer*	*0*	*0*	*0*	*0*	*0*	*0*
Jasper	I	Neches	Chicot Aquifer	7,717	7,717	7,717	7,717	7,717	7,717
Jasper	I	Neches	Evangeline Aquifer	17,407	17,407	17,407	17,407	17,407	17,407
Jasper	I	Neches	Burkeville confining unit	0	0	0	0	0	0
Jasper	I	Neches	Jasper Aquifer	12,506	12,506	12,506	12,506	12,506	12,506
Jasper	I	Sabine	Chicot Aquifer	3,110	3,110	3,110	3,110	3,110	3,110
Jasper	I	Sabine	Evangeline Aquifer	23,241	23,241	23,241	23,241	23,241	23,241
Jasper	I	Sabine	Burkeville confining unit	1	1	1	1	1	1
Jasper	I	Sabine	Jasper Aquifer	3,502	3,502	3,502	3,502	3,502	3,502
Jefferson	I	Neches-Trinity	Chicot Aquifer	1,722	1,722	1,722	1,722	1,722	1,722
Jefferson	I	Neches-Trinity	Evangeline Aquifer	0	0	0	0	0	0
Jefferson	I	Neches	Chicot Aquifer	703	703	703	703	703	703
Jefferson	I	Neches	Evangeline Aquifer	100	100	100	100	100	100
Liberty	H	Neches-Trinity	Chicot Aquifer	327	327	327	327	327	327
Liberty	H	Neches-Trinity	Evangeline Aquifer	37	37	37	37	37	37

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Liberty	H	Neches	Chicot Aquifer	2,804	2,804	2,804	2,804	2,804	2,804
Liberty	H	Neches	Evangeline Aquifer	2,267	2,267	2,267	2,267	2,267	2,267
Liberty	H	Neches	Burkeville confining unit	0	0	0	0	0	0
Liberty	H	Neches	Jasper Aquifer	0	0	0	0	0	0
Liberty	H	San Jacinto	Chicot Aquifer	753	754	753	754	754	754
Liberty	H	San Jacinto	Evangeline Aquifer	4,322	4,323	4,322	4,323	4,323	4,323
Liberty	H	San Jacinto	Burkeville confining unit	215	215	215	215	215	215
Liberty	H	San Jacinto	Jasper Aquifer	787	787	787	787	787	787
Liberty	H	Trinity-San Jacinto	Chicot Aquifer	3,160	3,160	3,160	3,160	3,160	3,160
Liberty	H	Trinity-San Jacinto	Evangeline Aquifer	5,690	5,690	5,690	5,690	5,690	5,690
Liberty	H	Trinity-San Jacinto	Burkeville confining unit	0	0	0	0	0	0
Liberty	H	Trinity-San Jacinto	Jasper Aquifer	0	0	0	0	0	0
Liberty	H	Trinity	Chicot Aquifer	7,528	7,528	7,528	7,528	7,528	7,528
Liberty	H	Trinity	Evangeline Aquifer	15,339	15,339	15,339	15,339	15,339	15,339
Liberty	H	Trinity	Burkeville confining unit	0	0	0	0	0	0
Liberty	H	Trinity	Jasper Aquifer	0	0	0	0	0	0
Montgomery	H	San Jacinto	Chicot Aquifer	12,600	13,870	13,944	15,026	14,717	14,175
Montgomery	H	San Jacinto	Evangeline Aquifer	27,525	27,553	27,773	26,575	26,615	26,529
Montgomery	H	San Jacinto	Burkeville confining unit	0	0	0	0	0	0
Montgomery	H	San Jacinto	Jasper Aquifer	23,880	22,582	22,288	22,404	22,673	23,301
Newton	I	Neches	Jasper Aquifer	176	176	176	176	176	176
Newton	I	Sabine	Chicot Aquifer	500	500	500	500	500	500
Newton	I	Sabine	Evangeline Aquifer	21,343	21,343	21,343	21,343	21,343	21,343
Newton	I	Sabine	Burkeville confining unit	0	0	0	0	0	0
Newton	I	Sabine	Jasper Aquifer	12,200	12,200	12,200	12,200	12,200	12,200
Orange	I	Neches-Trinity	Chicot Aquifer	256	256	256	256	256	256
Orange	I	Neches-Trinity	Evangeline Aquifer	0	0	0	0	0	0
Orange	I	Neches	Chicot Aquifer	2,162	2,162	2,162	2,162	2,162	2,162
Orange	I	Neches	Evangeline Aquifer	1,125	1,125	1,125	1,125	1,125	1,125

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Orange	I	Sabine	Chicot Aquifer	15,744	15,744	15,744	15,744	15,744	15,744
Orange	I	Sabine	Evangeline Aquifer	77	77	77	77	77	77
Polk	I	Neches	Chicot Aquifer	0	0	0	0	0	0
Polk	I	Neches	Evangeline Aquifer	3,582	3,582	3,582	3,582	3,582	3,582
Polk	I	Neches	Burkeville confining unit	118	118	118	118	118	118
Polk	I	Neches	Jasper Aquifer	11,197	11,197	11,197	11,197	11,197	11,197
Polk	H	Trinity	Chicot Aquifer	0	0	0	0	0	0
Polk	H	Trinity	Evangeline Aquifer	4,720	4,720	4,720	4,720	4,720	4,720
Polk	H	Trinity	Burkeville confining unit	625	625	625	625	625	625
Polk	H	Trinity	Jasper Aquifer	16,465	16,465	16,465	16,465	16,465	16,465
San Jacinto	H	San Jacinto	Chicot Aquifer	0	0	0	0	0	0
San Jacinto	H	San Jacinto	Evangeline Aquifer	5,744	5,744	5,744	5,744	5,744	5,744
San Jacinto	H	San Jacinto	Burkeville confining unit	0	0	0	0	0	0
San Jacinto	H	San Jacinto	Jasper Aquifer	4,636	4,636	4,636	4,636	4,636	4,636
San Jacinto	H	Trinity	Chicot Aquifer	0	0	0	0	0	0
San Jacinto	H	Trinity	Evangeline Aquifer	2,426	2,426	2,426	2,426	2,426	2,426
San Jacinto	H	Trinity	Burkeville confining unit	2,697	2,697	2,697	2,697	2,697	2,697
San Jacinto	H	Trinity	Jasper Aquifer	5,480	5,480	5,480	5,480	5,480	5,480
Tyler	I	Neches	Chicot Aquifer	0	0	0	0	0	0
Tyler	I	Neches	Evangeline Aquifer	20,576	20,576	20,576	20,576	20,576	20,576
Tyler	I	Neches	Burkeville confining unit	1	1	1	1	1	1
Tyler	I	Neches	Jasper Aquifer	17,634	17,634	17,634	17,634	17,634	17,634
Walker	H	San Jacinto	Chicot Aquifer	0	0	0	0	0	0
Walker	H	San Jacinto	Evangeline Aquifer	2,000	2,000	2,000	2,000	2,000	2,000
Walker	H	San Jacinto	Burkeville confining unit	0	0	0	0	0	0
Walker	H	San Jacinto	Jasper Aquifer	7,107	7,107	7,107	7,107	7,107	7,107
Walker	H	Trinity	Jasper Aquifer	8,866	8,866	8,866	8,866	8,866	8,866
Waller	H	Brazos	Chicot Aquifer	256	256	256	256	256	256
Waller	H	Brazos	Evangeline Aquifer	14,363	14,363	14,363	14,363	14,363	14,363

County	RWPA	River Basin	Gulf Coast Aquifer System	2020	2030	2040	2050	2060	2070
Waller	H	Brazos	Burkeville confining unit	0	0	0	0	0	0
Waller	H	Brazos	Jasper Aquifer	300	300	300	300	300	300
Waller	H	San Jacinto	Chicot Aquifer	44	44	44	44	44	44
Waller	H	San Jacinto	Evangeline Aquifer	26,630	26,630	26,630	26,630	26,630	26,630
Waller	H	San Jacinto	Burkeville confining unit	0	0	0	0	0	0
Waller	H	San Jacinto	Jasper Aquifer	0	0	0	0	0	0
Washington	G	Brazos	Evangeline Aquifer	3,236	3,236	3,236	3,236	3,236	3,236
Washington	G	Brazos	Burkeville confining unit	367	367	367	367	367	367
Washington	G	Brazos	Jasper Aquifer	9,356	9,356	9,356	9,356	9,356	9,356
Washington	G	Colorado	Jasper Aquifer	72	72	72	72	72	72
GMA 14 Total			**Gulf Coast Aquifer System**	**1,089,160**	**945,116**	**869,306**	**898,377**	**923,801**	**948,373**

LIMITATIONS:

The groundwater model used in completing this analysis is the best available scientific tool that can be used to meet the stated objectives. To the extent that this analysis will be used for planning purposes and/or regulatory purposes related to pumping in the past and into the future, it is important to recognize the assumptions and limitations associated with the use of the results. In reviewing the use of models in environmental regulatory decision making, the National Research Council (2007) noted:

> *"Models will always be constrained by computational limitations, assumptions, and knowledge gaps. They can best be viewed as tools to help inform decisions rather than as machines to generate truth or make decisions. Scientific advances will never make it possible to build a perfect model that accounts for every aspect of reality or to prove that a given model is correct in all respects for a particular regulatory application. These characteristics make evaluation of a regulatory model more complex than solely a comparison of measurement data with model results."*

A key aspect of using the groundwater model to evaluate historic groundwater flow conditions includes the assumptions about the location in the aquifer where historic pumping was placed. Understanding the amount and location of historic pumping is as important as evaluating the volume of groundwater flow into and out of the district, between aquifers within the district (as applicable), interactions with surface water (as applicable), recharge to the aquifer system (as applicable), and other metrics that describe the impacts of that pumping. In addition, assumptions regarding precipitation, recharge, and streamflow are specific to a particular historic time period.

Because the application of the groundwater model was designed to address regional scale questions, the results are most effective on a regional scale. The TWDB makes no warranties or representations relating to the actual conditions of any aquifer at a particular location or at a particular time.

It is important for groundwater conservation districts to monitor groundwater pumping and groundwater levels in the aquifer. Because of the limitations of the groundwater model and the assumptions in this analysis, it is important that the groundwater conservation districts work with the TWDB to refine this analysis in the future given the reality of how the aquifer responds to the actual amount and location of pumping now and in the future. Historic precipitation patterns also need to be placed in context as future climatic conditions, such as dry and wet year precipitation patterns, may differ and affect groundwater flow conditions.

Model "Dry" Cells

The predictive model run for this analysis results in water levels in some model cells dropping below the base elevation of the cell during the simulation. In terms of water level the cells have gone dry. However, as noted in the model assumptions the transmissivity of the cell remains constant and will produce water.

A total of 591cells out of 10,968 cells (five percent) go "dry" in the Chicot Aquifer (Layer 1) along the thinnest part of the outcrop. There are 19 dry cells out of 8,184 total cells (0.02 percent) in the thinnest part of the Burkeville confining unit (Layer 3), and 18 dry cells out of 10,815 total cells (0.02 percent) in the thinnest part of the Jasper Aquifer (Layer 4) outcrop. As noted in the model assumptions pumping from dry cells is included in the modeled available groundwater values. Total pumping from dry cells in the Chicot Aquifer in model year 2070 is 77 acre-feet in Montgomery County. There are no dry cells for the model run in the Evangeline Aquifer. Total pumping from dry cells in the Burkeville Confining unit in model year 2070 is 2,697 acre-feet in San Jacinto County. The total pumping from dry cells in the Jasper Aquifer in model year 2070 is 5,084 acre-feet in Grimes, Jasper, Newton, Polk, Trinity, Tyler, and Walker counties.

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APPENDIX

TABLE A.1 MODEL-CALCULATED AVERAGE DRAWDOWN VALUES (DDN) AND MODELED MAXIMUM SUBSIDENCE COMPARED WITH DESIRED FUTURE CONDITIONS (DFCS) BY COUNTY FOR THE NORTHERN PORTION OF THE GULF COAST AQUIFER SYSTEM IN GROUNDWATER MANAGEMENT AREA 14. ALL VALUES ARE IN FEET.

County	Chicot Aquifer DDN	Evangeline Aquifer DDN	Burkeville Confining Unit DDN	Jasper Aquifer DDN	Maximum Subsidence (model estimate)	Chicot Aquifer DFC	Evangeline Aquifer DFC	Burkeville Unit DFC	Jasper Aquifer DFC	Maximum Subsidence DFC
Austin	40	23	23	76	2.82	39	23	23	76	2.83
Brazoria	23	28	na	na	na	23	27	na	na	ns
Chambers	33	30	na	na	na	32	30	na	na	ns
Fort Bend*	54	56	60	108	na	ns	ns	ns	ns	ns
Galveston*	34	31	na	na	na	ns	ns	ns	ns	ns
Grimes	5	5	6	53	0.10	5	5	6	52	0.12
Hardin	21	27	29	90	na	21	27	29	89	ns
Harris*	30	5	-15	63	na	ns	ns	ns	ns	ns
Jasper	24	42	46	40	na	23	41	46	40	ns
Jefferson	16	17	na	na	na	15	17	na	na	ns
Liberty	28	29	25	121	na	27	29	25	120	ns
Montgomery	26	-4	-4	35	na	26	-4	-4	34	ns
Newton	35	45	45	37	na	35	45	44	37	ns

County	Chicot Aquifer DDN	Evangeline Aquifer DDN	Burkeville Confining Unit DDN	Jasper Aquifer DDN	Maximum Subsidence (model estimate)	Chicot Aquifer DFC	Evangeline Aquifer DFC	Burkeville Unit DFC	Jasper Aquifer DFC	Maximum Subsidence DFC
Orange	14	16	na	na	na	14	16	na	na	ns
Polk	26	10	16	73	na	26	10	15	73	ns
San Jacinto	22	19	20	109	na	22	19	19	108	ns
Tyler	42	36	30	62	na	42	35	30	62	ns
Walker	0	9	4	42	0.10	na	9	4	42	0.04
Waller	39	40	40	102	4.71	39	39	40	101	4.73
Washington	na	1	16	48	na	na	1	16	48	ns
GMA average	**28.7**	**23.9**	**18.7**	**66.7**	**na**	**28.3**	**23.6**	**18.5**	**66.2**	**ns**

*Desired Future Conditions were not specified for counties located in the subsidence districts

na = not applicable

ns = not specified

DFC = adopted desired future condition

DDN = average model calculated drawdown based on pumping scenario provided by districts in GMA 14

SOUTHEAST TEXAS GROUND WATER

CONSERVATION DISTRICT

DISTRICT RULES

Effective July1, 2005
as Amended October 9, 2014

SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

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RULES OF THE SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

In accordance with Section 59 of Article 16 of the Texas Constitution and with the Acts of the 78th Legislature (2003), S.B. 1888 (the "District Act") and Chapter 36 of the Texas Water Code, Southeast Texas Groundwater Conservation District adopts the following rules as the Rules of the District. Each Rule as set out below has been in effect since the date of adoption and as may be amended.

The Rules, regulations, and modes of procedure contained below are and have been adopted for the purposes of achieving the goals of the District Act and the Management Plan, to prevent waste, and to protect rights of owners of interest in Groundwater while simplifying procedure, avoiding delays, saving expense, and facilitating the administration of the Groundwater laws of the State and the Rules of this District. To the end that these objectives be attained, these Rules shall be so construed.

These Rules may be used as guides in the exercise of discretion, where discretion is vested. However, under no circumstances and in no particular case shall they, or any of them, be construed as a limitation or restriction upon the exercise of any discretion of the Board, where such exists; nor shall they in any event be construed to deprive the Board of an exercise of powers, duties and jurisdiction conferred by law, nor to limit or restrict the amount and character of data or information which may be required for the proper administration of the law. Any reference to the Texas Water Code includes the section referenced and any subsequent amendments.

RULE 1 - DEFINITIONS AND CONCEPTS

1.1 Unless the context indicates a contrary meaning, the words defined below shall have the following meaning in these Rules:

(a) "Agriculture" means any of the following activities:

(i) cultivating the soil to produce crops for human food, animal feed, or planting seed or for the production of fibers;

(ii) the practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or non-soil media, by a nursery grower;

(iii) raising, feeding, or keeping animals for breeding purposes or for the production of food or fiber, leather, pelts, or other tangible products having a commercial value;

(iv) planting cover crops, including cover crops cultivated for transplantation, or leaving land idle for the purpose of participating in any governmental program or normal crop or livestock rotation procedure:

(v) wildlife management; and

(vi) raising or keeping equine animals.

(b) "Artesian Well" shall mean an artificial water well in which the water, when properly cased, will rise by natural pressure above the first impervious stratum below the surface of the ground. It is considered a flowing artesian well if the natural pressure is great enough to cause the water to rise to the surface without being pumped.

(c) "Beneficial use" means:

(i) agricultural, gardening, domestic, stock raising, municipal, mining, manufacturing, industrial, commercial, recreational, or pleasure purposes;

(ii) exploring for, producing, handling, or treating oil, gas, sulfur, or other minerals; or

(iii) any other purposes that is useful and beneficial to the user and approved by the Board.

(d) The "Board" shall mean the Board of Directors of the Southeast Texas Groundwater Conservation District, consisting of thirteen (13) members.

(e) "Church" means the land, building, buildings, or other facilities used exclusively for religious purposes and which are exempt from ad valorem taxes.

(f) "Dewatering Well" shall mean a well used to remove groundwater from a construction site or temporary excavation, or to relieve the hydrostatic uplift on Toledo Bend Dam. The Dewatering well shall not exceed 75 feet in depth unless approved by the District prior to drilling.

(g) "District" shall mean Southeast Texas Groundwater Conservation District.

(h) "District Office or Offices" shall mean the location or locations as may be established by resolution of the Board.

(i) "Domestic Use" means the use of water at a single-family or duplex household to support domestic activities including drinking, washing, and sanitation. Domestic use does not include use for any commercial purpose or at any commercial establishment. Domestic use does not include a use at any commercial establishment with a single-family household.

(j) "Drilling" includes drilling, equipping, or completing wells or modifying the size of wells or well pumps to change pumpage volume.

(k) "Drilling Permit" means a permit issued by the District allowing a water well to be drilled.

(l) "Exempt Well" shall mean any well for which the District is prohibited to require a permit under the District Act, Texas Water Code §36.117 or these District Rules including a well conditionally exempt under Rule 16. Exempt wells include wells used solely for domestic use, or agriculture purpose or for providing water for livestock or poultry or to provide Groundwater to a Church (these uses constitute "Exempt Purposes") that is either drilled, completed, or equipped so that it is incapable of producing more than 100,000 gallons per day and certain wells for hydrocarbon production. Wells to supply water for a subdivision of land for which plat approval is required by law or regulation are not exempt. For all purposes, an Exempt Well shall be exempt from permitting requirements and production fees but shall not be exempt from pre-registration or registration requirements.

Any well, excluding hydrocarbon exploration wells as defined in Chapter 36.117 of the Texas Water Code, that is capable of producing more than 100,000 gallons per day, shall be considered Non-Exempt and be required to be permitted as such.

(m) "Fee or Fees" means the amount required to be paid as established by the Board of Directors.

(n) "Groundwater" means water percolating below the surface of the earth.

(o) “Hearing Body” means the Board, any committee of the Board, or a hearing examiner at any hearing held under the authority of the District Act.

(p) “Hearing Examiner” means a person appointed by the Board pursuant to the District Rules for Hearing to conduct a hearing or other proceeding.

(q) “Management Plan” means the plan for managing the Groundwater in the District, as it may be amended from time to time, adopted by the Board under Texas Water Code Section 36.1071, et seq.

(r) “Monitor Well”, means any well used for the sampling or measurement of any chemical or physical property of subsurface strata or their contained fluids.

(s) “Nursery Grower” means a person who grows more than 50 percent of the products that the person either sells or leases, regardless of the variety sold, leased, or grown. For the purpose of this definition, “grow” means the actual cultivation or propagation of the product beyond the mere holding or maintaining of the item prior to sale or lease and typically includes activities associated with the production or multiplying of stock such as the development of new plants from cuttings, grafts, plugs, or seedlings.

(t) “Operating Permit” means a permit issued by the District for a water well, allowing Groundwater to be withdrawn from a water well for a designated period.

(u) “Operator” shall mean the person who operates a well.

(v) “Owner” shall mean and include any person that has the right to produce water from the land either by ownership, contract, lease or easement.

(w) “Permit” shall mean the written authorization issued by the District to drill or operate a Well or to transfer Groundwater out of the District.

(x) “Permittee” shall mean the person named in a Permit.

(y) “Person” shall mean any individual, partnership, firm, or corporation, limited liability company, or other legal entity.

(z) “Production Fee” shall mean the fee established on the withdrawal of Groundwater as provided in Section 7(e) of the District Act and Texas Water Code Section 36.205(c) and as set in Rule 4 below.

(aa) “Register, Registering, and Registration” means, as the use may indicate, a well registered in compliance with Rule 3 and 13 and as otherwise provided in these Rules.

(bb) “Remediation Well” means any well used to produce contaminated water from a subsurface strata pursuant to a plan approved by the Texas Commission on Environmental Quality or other agency with applicable jurisdiction.

(cc) “Rules” shall mean these Rules of the District and the Hearing Rules and Procedures as they may be supplemented or amended from time to time.

(dd) “Rules for Hearings” means the “Rules for Hearings” setting out the rules and procedures for hearings and other matters of the District, as the may be supplemented or amended from time to time.

(ee) "TDLR Rules" means the administrative rules, as may be amended from time to time, by the Texas Department of Licensing and Regulation for water well drillers and pump installers found at 16 Texas Administrative Code Chapter 76. (www.license.state.tx.us/wwd/wwdrules.utm)

(ff) "Test Well" means a well that is drilled to determine subsurface conditions.

(gg) "Waste" means any one or more of the following:

(i) withdrawal of Groundwater at a rate and in an amount that causes or threatens to cause intrusion into a reservoir of water unsuitable for agricultural, gardening, domestic, or stock raising purposes;

(ii) the flowing or producing of Groundwater from a well if the water produced is not used for a Beneficial Purpose;

(iii) escape of Groundwater from a Groundwater reservoir to any other reservoir or geologic strata not containing Groundwater;

(iv) pollution or harmful alteration of Groundwater by saltwater or by other deleterious matter from another stratum or from the surface of the ground;

(v) willfully or negligently causing, suffering, or allowing Groundwater to escape into any river, creek, natural watercourse, depression, lake, reservoir, drain, sewer, street, highway, road, or road ditch, or onto any land unless such discharge is authorized by permit, rule, or order issued by the Commission under Chapter 26, Texas Water Code; Groundwater released on well startup or well development in order to improve water quality shall not constitute waste as defined above;

(vi) Groundwater pumped for irrigation that escapes as irrigation tailwater onto land other than that of the owner of the well unless permission has been granted by the occupant of the land receiving the discharge; or

(vii) for water produced from an artesian well, "waste" has the meaning assigned by Section 11.205, Texas Water Code.

(hh) "Well" or "Water Well" shall mean and include any artificial excavation constructed for the purpose of exploring for or producing Groundwater.

(ii) "Well Field" shall mean:

(a) two or more wells connected to a common piping or gathering system that are operated by one or more persons or entities for delivery to an end point.

(b) two or more wells used on the same tract of land for the same purpose that are capable of a combined total of more than 100,000 gallons per day and that are less than 330 feet apart.

1.2 Definitions. The definitions contained in Texas Water Code Section 36.001 shall also be included to the extent that they are used in these Rules.

1.3 Purpose of Rules. The Rules are the foundation for achieving the goals of the District Act and Management Plan.

1.4 Use and Effect of Rules. The District uses these Rules as guides in the exercise of the powers conferred by law and in the accomplishment of the purposes of the District Act and Management Plan.

1.5 Amendment of Rules. The Board may amend these Rules or adopt new Rules from time to time in accordance with Texas Water Code Section 36.101. Any such amendment must be approved by a majority of the duly appointed and qualified members of the Board.

1.6 Headings and Captions. The section and other headings and captions contained in these Rules are for reference purposes only. They do not affect the meaning or interpretation of these Rules in any way.

1.7 Construction. A reference to a title, chapter or section without further identification is a reference to a title, chapter or section of the Water Code. Construction of words and phrases are governed by the Code Construction Act, Subchapter B, Chapter 311, Texas Government Code.

1.8 Method of Service under these Rules.

(a) Except as otherwise expressly provided in these Rules, any notice or documents required by these Rules to be served or delivered may be delivered to the recipient or the recipient's authorized representative by First Class U.S. Mail. Service may also be completed by electronic transfer, if the recipient has filed their electronic data address with the District in the form of a facsimile ("fax") number or email address.

(b) Service by mail is deemed complete three days after deposit in a post office or other official depository of the United States Postal Service. Service by electronic document transfer is complete upon transfer, except that any transfer occurring after 5:00 p.m. will be deemed complete on the following business day.

(c) If the District prepares a newspaper notice that is required by these Rules and the applicant does not cause the notice to be published within 30 days of receipt of the notice from the District, the District may cause the notice to be published and the applicant shall reimburse the District for the cost of publication within 30 days of publication.

(d) When these Rules require an applicant to publish notice, the applicant must file a publisher's affidavit with the District certifying the facts that constitute compliance with the requirement. The deadline to file the affidavit is the day of the public meeting for notice of public meeting, two days before a public hearing for notice of a public hearing, and 30 days after the last publication for other published notices. For notice of a public meeting, the applicant must also submit the publisher's affidavit to the General Manager no later than the day of the public meeting. Filing an affidavit certifying facts that constitute compliance with notice requirements creates a rebuttable presumption of compliance with the requirement to publish notice.

(e) When these Rules require notice to be published according to this subsection, the applicant shall publish notice in a newspaper of the largest general circulation that is published in the county in which the facility is located or proposed to be located.

(f) When notice by publication or by mail is required by these Rules, the text of the notice must include:

(i) the name and address of the District;

(ii) the name and address of the applicant and, if different, the location of the facility or activity to be regulated by the permit;

(iii) a brief description of the business conducted at the facility or activity described in the application or the draft permit;

(iv) for notices of public meetings or hearings, the date, time, and place of the meeting or hearing, and a brief description of the nature and purpose of the meeting or hearing, including the applicable rules and procedures; and

(v) the application or permit number.

(g) When these Rules require mailed notice under this section, the District shall mail notice to:

(i) the landowners or well owners named on the application map or supplemental map, or the sheet attached to the application map or supplemental map;

(ii) any other person the District may elect to include; and

(iii) persons who filed public comment or hearing requests on or before the deadline for filing public comment or hearing requests.

(h) The applicant shall pay the costs of mailing and publishing all notices.

1.9 Severability. If any one or more of the provisions contained in these Rules are for any reason held to be invalid, illegal, or unenforceable in any respect, the invalidity, illegality, or unenforceability may not affect any other Rules or provisions of these Rules, and these Rules must be construed as if such invalid, illegal or unenforceable Rule(s) or provision had never been contained in these Rules.

1.10 Burden of Proof. In all matters regarding applications for permits, exceptions, and other matters for which District approval is required, the burden shall be upon the applicant or other persons seeking a permit, exception, or other authority to establish that all conditions, criteria, standards, or prerequisites have been met.

RULE 2 - WASTE

2.1 Groundwater shall not be produced within, or used within or without the District, in such a manner or under such conditions as to constitute waste as defined in Rule 1.1 (gg).

2.2 Any person producing or using Groundwater shall use every possible precaution, in accordance with the most approved methods, to stop and prevent waste of such water.

2.3 No person shall pollute or harmfully alter the character of Groundwater of the District by means of salt water or other deleterious matter admitted from other stratum or strata or from the surface of the ground.

2.4 No person shall commit waste as that term is defined by Rule 1.1 (gg).

RULE 3 - PERMIT AND REGISTRATION REQUIRED

3.1 No person shall drill, modify, complete, change type of use, plug, abandon, or alter the size of a well within the District without first Registering the well with the District, or making application for a new well even though the well may be exempt from the requirement of a permit under Texas Water Code Section 36.117 or Rule 1.1 (l).

3.2 The District staff will review the application for Registration Permitting and make a preliminary determination on whether the well meets the requirements, exclusions, or exemptions.

3.3 No permit shall be required for a well incapable of producing more than 25,000 gallon of groundwater a day (17.36 gallons per minute) if the well owner or operator complies with Rule 16 below and submits the following information:

(a) Maximum capability of the well as equipped;

(b) A statement of acknowledgement by the well owner that the well's capability cannot be altered so that it is capable of more than 25,000 gallons of groundwater a day (17.36 gallons per minute) without first applying to the District for an Operating Permit, and

(c) a statement that the well owner will adhere to the District Management Plan, District Rules and Plugging guidelines as established by the District and State of Texas.

3.4 No permit shall be required for the drilling of wells exempt by Texas Water Code §36.117 or Rule 1.1(l).

3.5 Exempted Wells shall be registered with the District before drilling. All exempt wells shall be equipped and maintained so as to conform to the District's Rules requiring installation of casing, pipe and fittings to prevent the escape of Groundwater from a Groundwater reservoir to any reservoir not containing Groundwater and to prevent the pollution or harmful alteration of the character of the water in any Groundwater reservoir. Forms for Registrations and applications for permits shall be provided by the District.

3.6 Non-exempt well grandfathering into district. – *No longer applicable.*

3.7 A water well used solely to supply water for a rig that is actively engaged in drilling or exploration operations for an oil or gas well permitted by the Railroad Commission of Texas is exempt from District Fees provided (1) the person holding the Railroad Commission permit is responsible for drilling and operating the water well and (2) the well is located on the same lease with the drilling rig.

3.8 A well exempted under provision of Rule 1.1(l) above must be permitted and comply with all Rules if:

(a) the purpose of the well is no longer solely to supply water for a rig that is actively engaged in drilling or exploration operations for an oil or gas well permitted by the Railroad Commission of Texas;

(b) the withdrawals are no longer necessary for mining activities or are greater than the amount necessary for mining activities specified in the permit issued by the Railroad Commission of Texas under Chapter 134, Natural Resources Code;

(c) the water from the well is no longer solely used for an Exempt use;

(d) the drilling or completion rig is removed from the lease; or

(e) the exempt well is part of a "Well Field" as defined in Rule 1.1(ii).

3.9 All Permits are granted subject to these Rules, Orders of the Board, and the laws of the State of Texas. In addition to any special provisions or other requirements incorporated into the Permit, each Permit is issued subject to the following standard Permit provisions:

(a) The acceptance of the Permit constitutes an acknowledgment and agreement that the Permittee will comply with the Rules, Orders of the Board, and the laws of the State of Texas.

(b) The Permit confers only the right to operate and its terms may be modified or amended. To protect the Permittee from the illegal use by a new landowner, within 30 days after the date of sale, transfer, lease, assignment or other change in the use or possession of the Permitted Well, the Operating Permit holder must notify the District in writing with the name of the new owner or operator of a Permitted Well. Any person who becomes the owner or operator of a Permitted Well must, within 45 calendar days from the date of the change in ownership or operation , file an application for a permit amendment to effect a transfer of the Permit. Until the District has issued a new Permit, the Permittee remains responsible for compliance with all applicable Rules and laws.

(c) The application pursuant to which the Permit has been issued is incorporated in the Permit, and the Permit is granted on the basis of, and contingent upon, the accuracy of the information supplied in that application. A finding that false information has been supplied is grounds for immediate revocation of the Permit.

(d) Violation of a Permit's terms, conditions, requirements, or special provisions is punishable by civil penalties as provided by the District Rules and by law.

(e) The Permit may also contain provisions relating to the means and methods of transportation of water produced within the District.

3.10 Except as provided below, a Permit is not required for a Monitor Well or a Remediation Well. A copy of the Driller's Report must be filed with the District within thirty (30) days. If the use of Monitor Well or Remediation Well is changed to produce non-contaminated water, it then becomes subject to the permitting or registration requirements of these Rules depending upon use and volume.

3.11 The General Manager may, without notice or board action, issue a permit to drill a Test Well after an application for it has been submitted and all fees, if any, paid. If the General Manager denies a permit for a test well, then the matter shall be processed as otherwise provided in these rules.

A test well shall be plugged within 60 days from the commencement of drilling unless the permittee has applied for an "Operating Permit". The authorization of a "Test Well" does not constitute a Drilling or Operating Permit nor does it guarantee that an Operating Permit will be granted when applied for.

3.12 Temporary Dewatering wells used for construction or excavation shall not be required to be registered if the well is less than 75 feet in depth. Any temporary Dewatering well shall be closed no less than 30 days after the completion of the construction or excavation project unless approved by the District.

Any permanent Dewatering well, as defined in 1.1(f), shall be exempt from permitting requirements and production fees but shall not be exempt from registration requirements. The owner of permanent Dewatering well shall report to the District annually the total amount of water produced from the well.

RULE 4 - FEES AND REPORTS

4.1 The Board adopts the following Production Fees:

Recreational Use: $0.01 per 1,000 gallons
All other Non-Exempt uses: $0.007 per 1,000 gallons
Permit overage $0.01 per 1,000 gallons

The Production Fee is payable on water produced on or after January 1, 2005, except the increase in fees for Recreational Use is payable for Groundwater produced after December 31, 2008. Operators of non-exempt wells shall provide payment to the District each quarter. Payment shall be due within ninety (90) days of the last day of March, June, September, and December with their quarterly reports. Operators shall provide monthly production records to document payment amount. The payment shall be accompanied by the report form specified by the District.

If the total amount of water pumped for a non-exempt well exceeds the permitted amount, the fee for the amount that exceeds the permitted annual production rate shall be charged at the District's maximum production fee. The District may also assess penalties for non-compliance with District Rules for failure to comply with the conditions of the permit issued by the District.

4.2 Owners of wells subject to the production fees as described above are not required to pay the production fee if the annual amount of groundwater produced from the well is less than 1,500,000 gallons per year. Owners of wells not required to pay the production fees under this provision are required to comply with the reporting requirement and must provide the District monthly production records after the end of each calendar quarter.

4.3 In accordance with Section 36.122 of the Texas Water Code, the District adopts a transfer fee of $0.005 per 1,000 gallons for all water transported out of the District in addition to the Production Fee for water transported out of the District.

4.4 Each application for a Permit to drill a well shall be accompanied by the fee or fees as established herein or by resolution of the Board.

4.5 Each day that a payment remains unpaid after it is due shall constitute a separate violation of these Rules. A late payment charge equal to one percent per month following the due date shall be assessed on past due production fees.

In addition to the late payment charge, the violator shall be subject to a civil penalty as provided in Rule 15, calculated in the District's Penalty Matrix, with a $50 base penalty.

4.6 An entity holding a permit issued by the Railroad Commission of Texas under Chapter 134, Natural Resources Code, that authorized the drilling of a water well shall report monthly to the District:

(a) the total amount of water withdrawn during the month;

(b) the quantity of water necessary for mining activities; and

(c) the quantity of water withdrawn for other purposes.

4.7 Pursuant to Texas Water Code Section 36.205, the District has set fees for its administrative acts such as filing applications. The schedule of the administrative fees shall be posted on the District's website. The schedule of fees may be changed at any time by the Board of Directors if it determines that such fee or fees are not equal to the cost to the District for performing the administrative function for which the fee is charged.

RULE 5 - ISSUANCE OF PERMITS

5.1 Every person who drills a water well after the effective date of these Rules, other than an Exempt Well, must file an Application for Permit on a form approved by the District. Each permit application must be accompanied by the fee. An Exempt Well must be registered with the District prior to it being drilled.

5.2 Drilling Permit Requirement. The well owner, well operator, or any other person acting on behalf of the well owner including, but not limited to, the water well driller, must obtain a drilling permit from the District prior to drilling a new water well other than an exempt well, developing a well field or perforating an existing well. The form of the Drilling Permit is attached and made a part of these Rules (Appendix A).

5.3 Operating Permit Requirement. Within 14 days after the completion of a new water well, reworking, or re-equipping of an existing water well as provided in Rule 5.10 below, the well owner or well operator must file a completed operating permit application. The form of the Operating Permit is attached and made a part of these Rules (Appendix A).

5.4 Permit Applications. Each original application for a water well drilling permit, operating permit, transport permit, and permit amendment requires a separate application and payment of the associated fee. Application forms will be provided by the District and furnished to the applicant upon request.

The application for a Permit shall be in writing and sworn to, and shall include the following:

(a) the name and mailing address of the applicant and the owner of the land on which the well will be located;

(b) if the applicant is other than the owner of the property, documentation establishing the applicable authority to construct and operate a well for the proposed use;

(c) the location of each well and the estimated rate at which water will be withdrawn;

(d) a statement of the nature and purpose of the proposed use and the amount of water to be used for each purpose;

(e) a map showing the location of all existing wells within a one quarter (1/4) mile radius of the proposed well or the existing well to be modified if requested by the District;

(f) a map from the county appraisal District indicating the location of the proposed well or the existing well to be modified, the subject property, and the physical addresses and mailing addresses of any person owning property within a one quarter (1/4) mile radius of the well or wells for which the application is filed;

(g) notice of any application to the Texas Commission on Environmental Quality to obtain or modify a Certificate of Convenience and Necessity to provide water or wastewater service with water obtained pursuant to the requested permit;

(h) a declaration that the applicant will comply with the District's Rules and all Groundwater use permits and plans promulgated pursuant to the District's Rules;

(i) a water conservation plan or a declaration that the applicant will comply with the Management Plan;

(j) a water well closure plan or a declaration that the applicant will comply with all Rules and/or TDLR Rules for well plugging and capping guidelines and report closure to the District;

(k) a hydrogeological report addressing the area of influence, draw down, recovery time, and other pertinent information required by the District shall be required for the following:

(i) Requests to drill a well(s) or well field with a daily maximum capacity of more than 250,000 gallons; and

(ii) requests to modify to increase production or production capacity of a Public Water Supply, Municipal, Commercial, Industrial, Agricultural or Irrigation well with an outside casing diameter greater than 6 5/8 inches.

(l) additional information or documentation that may be requested by the District.

The well must be equipped (or tested at a rate equal to or greater than the rate necessary) for its ultimate planned use and the hydrogeologic report must address the impacts of that use. The report must include hydrogeologic information addressing and specifically related to the proposed water pumpage levels at the proposed pumpage site intended for the proposed well or for the proposed transporting of water outside the District. Applicants may not rely solely on reports previously filed with or prepared by the District.

5.5 Transfer Permit Requirement. The well owner, well operator, or any other person acting on behalf of the well owner must obtain a transfer permit to transfer Groundwater produced from within the District outside the District's boundaries as provided in Rule 14. A Groundwater transfer permit is not required for transferring Groundwater that is part of a product manufactured in the District, or if the Groundwater is to be used on property that straddles the District boundary line. Water that is bottled, canned, or similarly packaged is not considered to be a product manufactured for this exclusion.

5.6 Action on Application.

(a) Once the District has received a completed original application for a water well drilling permit, operating permit, a transport permit, or a permit amendment which the General Manager determines to be administratively complete as provided in subsection (c) below, and all associated fees including the costs of giving notice have been paid, the General Manager will issue written notice indicating a date and time for a hearing on the application in accordance with these Rules. The District may schedule as many applications at one hearing as deemed necessary. At least ten (10) days prior to the hearing, written notice will be given to any person who, according to the application or the District's records, owns a well within one quarter (1/4) mile of the well that is the subject of the application.

(b) If the application is for a well that is not capable of producing more than 100,000 gallons of water per day or if the annual permitted amount does not exceed 36,500,000 gallons per year, the General Manager may issue the permit without Board action if:

(i) there is no one who is entitled to the notice required under Rule 5.6(a) or if a "waiver of right to hearing" is obtained from all persons entitled to notice. The District shall promulgate the form and content of the waiver to be used; and,

(ii) the well will comply with all District Rules including but not limited to those concerning spacing and waste; and,

(iii) the General Manager makes an inspection of the proposed well location and verifies that the well complies with all District Rules, the information in the application is correct, and there is no evidence that there is a well within one quarter (1/4) mile of the proposed location; and,

(iv) the General Manager signs a written report stating the details of the inspection and all other criteria to document the findings under this subsection.

(c) If the General Manager determines that an application is not complete, that the information in it is incorrect, or that the proper fees have not been paid, the application will not be considered administratively complete. Within ten (10) days of determining that an application is not administratively complete, the General Manager shall advise the applicant in writing of the deficiencies. If the applicant does not cure the deficiencies within twenty (20) days, the application will be returned to the applicant. Any fees paid will be retained by the District.

(d) The Board shall also consider the requirements set out in Texas Water Code Section 36.113.

5.7 Permit Preferences.

(a) The Board shall give preference to applications in the order declared in Section 5.7(b).

(b) In order to conserve and properly utilize Groundwater in the District, the public welfare requires not only recognition of beneficial uses but also a constructive public policy regarding the preferences between these uses, and it is therefore declared to be the public policy of the District that in granting permits, water preference shall be given to the following uses in the order named:

(i) domestic and municipal uses, including water for sustaining human life and the life of domestic animals, it being the public policy of the District and for the benefit of the greatest number of people that in granting permits for Groundwater, the allocation of water for domestic and municipal uses shall be and remain superior to all other purposes;

(ii) agricultural uses and industrial uses, which means processes designed to convert materials of a lower order of value into forms having greater usability and commercial value, including the development of power by means other than hydroelectric;

(iii) mining and recovery of minerals;

(iv) recreation and pleasure; and

(v) other Beneficial Uses.

5.8 Drilling Permits. Unless specified otherwise by the Board or these Rules, drilling permits are effective for a term ending one (1) year after the date of issuance.

5.9 Transfer Permits. Unless specified otherwise by the Board or these Rules, transfer permits are effective for five (5) years from the date of issuance. Notwithstanding the period specified above, the District may periodically review the amount of water that may be transferred under the permit and may limit the amount.

5.10 Operating Permits. Unless specified otherwise by the Board or these Rules, operating permits are effective for five (5) years from the date of issuance. Notwithstanding the period specified above, the

District may periodically review the amount of water that may be pumped under the permit and may limit the amount.

5.11 Effect of Acceptance of Permit. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment of and agreement to comply with all of the terms, provisions, conditions, limitations, and restrictions thereof.

5.12 Reworking and Replacing a Well.

(a) An existing well may be reworked or re-equipped in a manner that will not change the permitted well status. A change in the permitted well status will require an operating permit amendment.

(b) A permit must be applied for if a party wishes to replace an existing well with a replacement well. An application for a new well to replace an existing permitted well, must be made on the Non-Exempt Permit Application form except for the information required by Rule 5.4(e), (f), and (k).

(c) A replacement well must be drilled within 100 feet of the existing well.

(d) The location of the well being replaced shall be protected in accordance with the spacing Rules of the District until the replacement well is drilled and tested. The landowner or his/her agent must within 120 days of the issuance of the Drilling Permit declare in writing to the District which one of these two wells will be used. If the landowner does not notify the District of his/her choice within 120 days, then it will be conclusively presumed that the new well is the well to be retained. Immediately after determining which well is retained for production, the other well shall be:

(i) properly equipped in such a manner that it cannot produce water; or

(ii) closed in accordance with applicable state law and regulations, Section 756.002, Texas Health and Safety Code; or

(iii) retained to be used as a backup and operated in the event of an emergency.

A permit to rework, re-equip, re-drill or replace an existing well may be granted by the General Manager without notice or hearing so long as the new well produces groundwater from the same production zone(s) as the existing well and the amount produced is equal to or less than the maximum annual amount provided in the Operating Permit for the existing well.

5.13 Emergency Authorization. An existing retail water utility, as defined in Texas Water Code Chapter 13, the owner of a well used for Agriculture, or the owner of a non-exempt well which has a Permit or Certificate of Registration from the District to operate the well, may apply to the District for emergency authorization to drill and operate a replacement well as set forth below. The authorization does not constitute a Permit as required above and does not relieve the person from applying for and obtaining one. The emergency authorization can be made by the General Manager and any Board officer.

The “emergency” must present an imminent threat to the public health and safety or to an agricultural activity and must be explained to the satisfaction of the District and include any documentation requested by the District.

The owner must submit a completed application within seven (7) days of the emergency authorization. Application must include all applicable fees and comply with provisions of a replacement well as specified in Rule 5.12.

5.14 Involuntary Amendment or Revocation. In accordance with the District's Rules for Hearing, after notice to the permit holder, the District may amend or revoke an operating permit if there is evidence of any one or more of the following:

(a) violation of the permit, District Rules, or Chapter 36 of the Texas Water Code;

(b) a change in the permit to prevent waste and achieve water conservation, minimize as far as practicable the drawdown of the water table or reduction of artesian pressure, lessen interference between wells, or control and prevent subsidence;

(c) failure to pay water use production fees; or

(d) other actions that the Board determines to be detrimental to the groundwater resources within the District.

RULE 6 - WELL DRILLER LICENSE AND COMPLETION STANDARDS

6.1 License and Completion Requirements:

Any person drilling, modifying, completing, changing type of use, plugging, or alter the size of a well within the District shall comply with all standards and requirements in 16 Texas Administrative Code, Chapter 76 including, but not limited to:

(a) must be a licensed water well driller except for drilling a water well on property owned by the person operating the equipment;

(b) meet all requirements related to spacing of the well with regards to property lines and sources of potential contamination;

(c) meet all requirements pertaining to the proper sealing of annular space(s); and,

(d) meet all requirements pertaining to the surface completion of the well, including the surface slab or protective sleeve, to assure the safety of the well;

6.2 License and Completion Requirements for Landowners Drilling Their Own Water Well:

A landowner may drill, modify, complete, plug or alter the size of a well located on their own property without being a licensed water well driller or pump installer only if the landowner complies with the Rules of the District. Any landowner drilling, modifying, completing, changing type of use, plugging, or alter the size of a well within the District shall comply with all well completion standards in 16 Texas Administrative Code Section 76.100 – 76.104, including but not limited to:

(a) meet all requirements related to spacing of the well with regards to property lines and sources of potential contamination;

(b) meet all requirements pertaining to the proper sealing of annular space(s); and,

(c) meet all requirements pertaining to the surface completion of the well, including the surface slab or protective sleeve, to assure the safety of the well;

6.3 In the interest of protecting life and for the purpose of preventing waste, preventing overlapping cones of depression resulting from production rates, and preventing confiscation of property, the Board

reserves the right to limit the number of wells on a tract of land or require a greater minimum distance between wells.

6.4 In the event an artesian flowing water well is drilled, as defined in Rule 1.1(b), the water well driller must, within 10 days of completion of the well, notify the District of the well. Additionally, the well driller must include on the State Well Report an accurate gallon per minute flow rate of the well.

Per Section 11.205 of the Texas Water Code, "Unless the water from an artesian well is used for a purpose and in a manner in which it may be lawfully used on the owner's land, it is waste and unlawful to willfully cause or knowingly permit the water to run off the owners land or to percolate through the stratum above which the water is found" and will be considered a violation of these rules.

6.5 Change in Use of Well - Any well existing at the date of enactment of this Rule must comply with the provisions of this Rule if, after the date of enactment of this Rule, the ultimate use of the water produced from the well is changed in whole or in part, such that the water produced from the well annually is increased. Ultimate use of the water shall be defined as domestic, municipal, industrial, agricultural, or irrigation use.

RULE 7 - REQUIREMENT OF DRILLERS LOG, CASING AND PUMP DATA

7.1 Complete records shall be kept and reports thereof made to the District concerning the drilling, maximum production potential, equipping and completion of all wells drilled whether an Exempt Well or non-exempt. Such records shall include an accurate driller's log, any electric log which shall have been made, and such additional data concerning the description of the well, its potential, hereinafter referred to as "maximum rate of production" and its actual equipment and rate of discharge permitted by said equipment as may be required by the Board. Such records shall be filed with the District within 60 days after completion of the well.

7.2 The well driller shall deliver either in person, by fax, email, or by first-class mail, a photocopy of the State Well Report to the District within 60 days from the completion or cessation of drilling, deepening, or otherwise altering a well.

7.3 No person shall produce water from any well drilled and equipped within the District after the effective date of these Rules without first providing the District a completed registration form for any exempt well, or having an Operating Permit for a non-exempt well.

RULE 8 EXCEPTION TO SPACING RULE – *No longer applicable*

RULE 9 - PLACE OF DRILLING WELL

After an application for a well permit has been granted or a Registration filed, the well, if drilled, must be drilled within fifty (50) feet of the location specified in the permit so long as that location does not violate any spacing requirements in these Rules. If the well should be commenced or drilled at a different location, the drilling or operation of such well may be enjoined by the Board pursuant to Chapter 36, Texas Water Code, as amended. The District shall have the right to confirm reported distances and inspect the wells or well locations.

RULE 10 - RIGHT TO INSPECT AND TEST WELLS

10.1 The District, directors, engineers, attorneys, agents, operators, and employees of the District may go on any land to inspect, make surveys, or perform tests to determine the condition, value, and usability of the property, with reference to the proposed location of works, improvements, plants, facilities, equipment, or appliances. The cost of restoration shall be borne by the District.

10.2 The District shall have the right to install or to require the installation of necessary metering equipment in order to determine well production capacity and monthly production rates.

10.3 The District employees and agents are entitled to enter any public or private property within the boundaries of the District or adjacent to any property owned by the District at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit, or other order of the District. District employees or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection and shall notify any occupant or management of their presence and shall exhibit proper credentials.

RULE 11 - OPEN WELLS TO BE CAPPED

11.1 In accordance with sections 1901.255 and 1901.256 of the Texas Occupations Code and 16 Texas Administrative Code Section 104 , every owner or operator of any land within the District upon which is located any open, uncovered, abandoned, or deteriorated well is, and shall be, required to plug or cap the same permanently with a covering capable of sustaining weight of not less than four hundred (400) pounds, except when said well is in actual use by the owner or operator thereof; and no such owner or operator shall permit or allow any open or uncovered well to exist in violation of this requirement.

Officers, agents and employees of the District are authorized to serve or cause to be served written notice upon any owner or operator of a well in violation of this Rule, thereby requesting such owner and/or operator to close or cap such well permanently with a covering in compliance herewith. In the event any owner or operator fails to comply with this Rule, all expenditures thereby incurred shall constitute a lien upon the land where such well is located, provided, however, no such lien shall exceed the actual cost for any single closing. Any officer, agent, or employee of the District is authorized to perfect said lien by the filing of the affidavit authorized by Section 36.118 of the Texas Water Code. All of the powers and authority granted in such section are hereby adopted by the District, and its officers, agents, and employees are hereby bestowed with all of such powers and authority.

11.2 An artesian flowing well, as defined in Rule 1.1(b), utilized in hydrocarbon exploration shall be plugged within 30 days of the completion of the oil or gas well.

RULE 12 - GENERAL RULES OF PROCEDURE FOR HEARING

All hearings whether conducted by the Board or before a Hearings Examiner shall be conducted in accordance with the Hearing Rules and Procedures as adopted by the Board and as they may be amended from time to time.

RULE 13 – WELL VALIDATION– *No Longer Applicable.*

RULE 14 - TRANSFER OF GROUNDWATER OUT OF THE DISTRICT

14.1 Purpose. In recognition of the fact that the transfer of Groundwater resources from the District for use outside of the District impacts residents and property owners of the District differently than use within the District, and in order to manage and conserve Groundwater resources within the District and provide reasonable protection of the public health and welfare of residents and property owners of the District, a ground water transfer permit is required to produce Groundwater from within the District's boundaries and to transfer such Groundwater for use outside the District.

14.2 Scope. A Groundwater transfer permit is required for production of any water from a well within the District, all or part of which is regularly transported for use outside the District. A Groundwater transfer permit shall be obtained prior to commencing construction of wells or other facilities utilized to transfer Groundwater from the District. Water wells to be used for the transfer of water outside of the District shall be subject to all other requirements of the District.

14.3 Exceptions. A Groundwater transfer permit is not required for transfers of Groundwater from the District in the following cases:

(a) Transfers of Groundwater from the District that were occurring on or before the effective date of these Rules to the extent the well or wells used to produce or transfer Groundwater from the District are some that were existing or permitted by the District on or before said date.

(b) Transfers of Groundwater from the District which are incidental to beneficial use within the District.

14.4 Application. An application for Groundwater transfer permit shall be filed in the District office by the owner of the Groundwater rights or owner or operator of the production facilities. The following information shall be provided:

(a) the name and mailing address of the applicant and the owner of the land on which the well is or will be located;

(b) if the applicant is other than the owner of the property, documentation establishing the applicable authority to construct and operate a well for the proposed use;

(c) the location of each well and the estimated rate at which water will be withdrawn;

(d) a statement of the nature and purpose of the proposed use, the amount of water to be used for each purpose, the place of use, and the purposes of use in the proposed receiving area for which water is intended;

(e) a map showing the location of all existing wells within a one-half (1/2) mile radius of the proposed well or the existing well to be modified if requested by the District;

(f) a map from the county appraisal District indicating the location of the proposed well or the existing well to be modified, the subject property, and the physical addresses and mailing addresses of any person owning property within a one-half (1/2) mile radius of the well or wells for which the application is filed;

(g) notice of any application to the Texas Commission on Environmental Quality to obtain or modify a Certificate of Convenience and Necessity to provide water or wastewater service with water obtained pursuant to the requested permit;

(h) a declaration that the applicant will comply with the District's Rules and all Groundwater use permits and plans promulgated pursuant to the District's Rules;

(i) a water conservation plan;

(j) a water well closure plan or a declaration that the applicant will comply with all Rules and/or TDLR Rules for well plugging and capping guidelines and report closure to the District;

(k) a hydrogeological report addressing the area of influence, draw down, recovery time, and other pertinent information required by the District shall be required for the following:

(i) Requests to drill a well(s) or well field with a daily maximum capacity of more than 250,000 gallons; and

(ii) requests to modify to increase production or production capacity of a Public Water Supply, Municipal, Commercial, Industrial, Agricultural or Irrigation well with an outside casing diameter greater than 6 5/8 inches.

The well must be equipped (or tested at a rate equal to or greater than the rate necessary) for its ultimate planned use and the hydrogeologic report must address the impacts of that use. The report must include hydrogeologic information addressing and specifically related to the proposed water pumpage levels at the proposed pumpage site intended for the proposed well or for the proposed transporting of water outside the District. Applicants may not rely solely on reports previously filed with or prepared by the District.

(l) a declaration that the applicant will comply with the District's management plan;

(m) a drought contingency plan;

(n) data showing the availability of water in the District and in the proposed receiving area during the period for which water supply is requested;

(o) alternate sources of supply that might be utilized by the applicant, and the feasibility and the practicability of utilizing such supplies;

(p) the projected effect of the proposed transfer on aquifer conditions, depletion, subsidence, or existing permit holders or other Groundwater users within the District;

(q) the indirect costs and economic and social impacts associated with the proposed transfer of water from the District;

(r) proposed plan of the applicant to mitigate adverse hydrogeologic, social or economic impacts of the proposed transfer of water from the District;

(s) how the proposed transfer is addressed in the approved regional water plan and certified District management plan;

(t) the time schedule for construction and/or operation of the well;

(u) construction and operation plans for the proposed facility, including, but not limited to:

(i) a technical description of the proposed well(s) and production facility, including depth of the well, the casing diameter, type and setting, the perforated interval, and the size of pump;

(ii) a technical description of the facilities to be used for transportation of water.

(v) if the water is to be used by someone other than the applicant, a signed contract between the applicant and the user or users; and

(w) additional information or documentation that may be requested by the District.

14.5 Application Processing Fee. An application processing fee, sufficient to cover all reasonable and necessary costs to the District of processing the application, will be charged. The application must be accompanied by the Fee. If the Fee is determined by the General Manager or the Board to be insufficient to cover anticipated costs of processing the application, the applicant may be required to post a deposit in an amount determined by the General Manager or the Board's representative to be sufficient to cover anticipated processing costs. As costs are incurred by the District in processing the application, those costs may be reimbursed from funds deposited by the applicant. The applicant shall be provided a monthly accounting of billings against the application processing deposit. Any funds remaining on deposit after the conclusion of application processing shall be returned to the applicant. If initially deposited funds are determined by the General Manager to be insufficient to cover costs incurred by the District in processing the application, an additional deposit may be required. If the applicant fails to deposit funds as required by the District, the application may be dismissed.

14.6 Notice. Within 30 days following a determination by the District that the application is complete, notice of the application shall be mailed by the applicant to all property owners within one-half (1/2) mile of the property upon which the well(s) will be located and published in a newspaper of general circulation within the District. The District will provide the notice to the applicant for mailing and publication. Notice shall include at least the following information:

(a) the name and address of the applicant;

(b) the date the application was filed;

(c) the time and place of the hearing;

(d) the location of the proposed well(s) from which water to be transported is to be produced;

(e) a description of the production facility; and

(f) a brief summary of the information in the application.

14.7 Hearing. If requested by the applicant, any affected person opposed to the application having a justifiable interest, or the General Manager, a contested case public hearing shall be conducted in accordance with provisions of the Texas Administrative Procedure Act, Texas Gov't Code 2000.01, et seq. If not requested by any party, the public hearing on the application may be conducted by the Board at a regular or special meeting.

14.8 Permit.

(a) The permit to transfer Groundwater out of the District may be issued as a consolidated permit authorizing drilling, production, and transfer of water from the District. Whether issued as a consolidated permit or separately, the requirements for a permit to transfer Groundwater out of the District are cumulative with all other permits or other requirements of the District.

(b) In determining whether to issue a permit to transfer Groundwater out of the District, the Board shall consider, in addition to all other factors applicable to issuance of a permit from the District, the following:

(i) the availability of water in the District and in the proposed receiving area during the period for which the water supply is requested;

(ii) the availability of feasible and practicable alternative supplies to the applicant;

(iii) the amount and purposes of use for which water is needed in the proposed receiving area;

(iv) the projected effect of the proposed transfer on aquifer conditions, depletion, subsidence, or effects on existing permit holders or other Groundwater users within the District;

(v) the indirect cost and economic and social impacts associated with the proposed receiving area;

(vi) the approved regional water plan and certified District management plan;

(vii) other facts and considerations necessary by the Board for protection of the public health and welfare, and conservation and management of natural resources in the District; and

(viii) the preferences set out in Rule 5.7.

(c) If it determines to issue a permit to transfer Groundwater out of the District, the Board may limit the permit as warranted by consideration of those factors identified above. In addition to conditions identified by Texas Water Code Section 36.1131, the permit to transfer water out of the District shall specify:

(i) the amount of water that may be transferred out of the District;

(ii) the period for which the water may be transferred;

(iii) any monitoring or reporting requirements determined to be appropriate;

(iv) such other terms and provisions with reference to the drilling, equipping, completion, or alterations of wells or pumps that may be necessary to conserve the Groundwater, prevent waste, minimize as far as practicable the drawdown of the water table or the reduction of artesian pressure, lessen interference between wells, or control and prevent subsidence; and,

(v) that it may be cancelled if the required production and transfer fees are not paid when due.

RULE 15 - ENFORCEMENT

In accordance with the Texas Water Code, 36.102, the District may enforce Chapter 36 of the Texas Water Code and its Rules by injunction, mandatory injunction or other appropriate remedy in a court of competent jurisdiction. The Board adopts civil penalties for breach of Chapter 36 of the Texas Water

Code and any Rule of the District. Civil penalties shall not exceed $10,000 per day per violation, and each day of a continuing violation shall constitute a separate violation of the Rules.

RULE 16 - CONDITIONAL EXEMPTION

16.1 An owner of a well may claim an exemption for a well used solely for an Exempt Purpose, as defined by Rule 1.1(l) regardless of the capacity on a conditional basis by filing a "Conditional Exemption Affidavit" with the District. The Board shall promulgate the form and content of the Affidavit. The District may require a well owner to supply any additional information it determines is necessary for verifying and monitoring the exemption claim.

16.2 The District may revoke any Conditional Exemption if it determines that the information in the Affidavit is materially incorrect or that the water from the well is not being used solely for Exempt Purposes. Prior to revoking a Conditional Exemption, the Board shall give the well owner written notice of its intention to revoke with the reason or reasons for doing so and the well owner shall have 20 days to provide the District with evidence to establish entitlement to the exemption.

End of District Rules

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

The proposed Management Plan can be reviewed at the District Office at 271 East Lamar, Jasper Texas 75951; or on the District's website at http://www.setgcd.org. Further information can also be obtained by contacting the District at P.O. Box 1407, Jasper, Texas 75951; phone number (409) 383-1577.

Posted On: 5/2/2017 at: 10:30 am
At Office / On Website
By: _____
Title: General Manager

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Understanding Texas Aquifers

Regular Monthly Board Meetings

2nd Thursday of each month beginning at 10:00 AM unless otherwise noticed.

No Board meetings scheduled for August

Texas Department of Licensing and Regulation – Rules and Technical Requirements

*Requires Adobe Reader to view

or December unless otherwise noticed.

Meetings are held at the
Jasper-Newton Electric Co-op
812 S. Margaret Avenue, Kirbyville, TX.

Public Information Act

Download

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

The proposed Management Plan can be reviewed at the District Office at 271 East Lamar, Jasper Texas 75951; or on the District's website at http://www.setgcd.org. Further information can also be obtained by contacting the District at P.O. Box 1407, Jasper, Texas 75951; phone number (409) 383-1577.

John M. Martin Log Off

Open Meeting Submission

TRD:	2017003117
Date Posted:	05/02/2017
Status:	Accepted
Agency Id:	1416
Date of Submission:	05/02/2017
Agency Name:	Southeast Texas Groundwater Conservation District
Board:	Southeast Texas Groundwater Conservation District
Date of Meeting:	06/08/2017
Time of Meeting:	09:30 AM **(##:## AM Local Time)**
Street Location:	812 S. Margaret Ave
City:	Kirbyville
State:	TX
Liaison Name:	John M. Martin
Liaison Id:	3
Additional Information Obtained From:	John Martin 409 383-1577

Agenda:

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

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New Submission

HOME | TEXAS REGISTER | TEXAS ADMINISTRATIVE CODE | OPEN MEETINGS

John Martin

m: TexReg@sos.texas.gov
Sent: Tuesday, May 02, 2017 11:10 AM
To: jmartin@setgcd.org
Subject: S.O.S. Acknowledgment of Receipt

Acknowledgment of Receipt

Agency: Southeast Texas Groundwater Conservation District

Liaison: John M. Martin

The Office of the Secretary of State has posted

notice of the following meeting:

Board: Southeast Texas Groundwater Conservation District

Committee:

Date: 06/08/2017 09:30 AM "TRD# 2017003117"

Notice posted: 05/02/17 11:10 AM

Proofread your current open meeting notice at:

http://texreg.sos.state.tx.us/public/pub_om_lookup$.startup?Z_TRD=2017003117

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

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FILED FOR RECORD
2017 MAY -3 PM 2:17
GLENDA ALSTON
COUNTY CLERK
HARDIN COUNTY, TEXAS
BY

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

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DEBBIE NEWMAN, COUNTY CLERK
JASPER COUNTY, TEXAS

FILED MAY 02 2017

By _____
DEPUTY

#5725

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

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POSTED

MAY 04 2017

TIME 10:25 AM

BY: Angie Brooks

SANDRA K. DUCKWORTH, COUNTY CLERK

NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

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NO._____ TIME 1:45 pm

MAY 08 2017

DONECE GREGORY, COUNTY CLERK
TYLER COUNTY, TEXAS
BY

DONECE GREGORY
County Clerk, Tyler County
Woodville, Texas 75979

THE STATE OF TEXAS }{
COUNTY OF TYLER }{

This is to certify that on the time and date stamped hereon, the notice of a meeting, a copy of which is attached hereto, has been filed in my office and was posted on the official bulletin board in the courthouse, as is required by Section 551.041, Government Code.

Executed on May 3, 2017

Donece Gregory
Tyler County Clerk

By: Dana L. Lane
Deputy

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS:
COUNTY OF JEFFERSON:

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared: Victoria Bond, who after being duly sworn, says that she is a **NEWSPAPER REPRESENTATIVE** for **THE HARDIN COUNTY NEWS**, a daily newspaper published in Jefferson County and generally circulated in Jefferson, Hardin, Tyler, Newton, Orange, Jasper, Liberty, Sabine, Chambers, San Augustine, Angelina and Galveston Counties, Texas, and that the publication, of which the annexed is a true copy, was published to wit:

May 10, 2017 – Ad#24277423

Account: Southeast Texas Groundwater, Acct# 050392101

Victoria Bond A/R Clerk

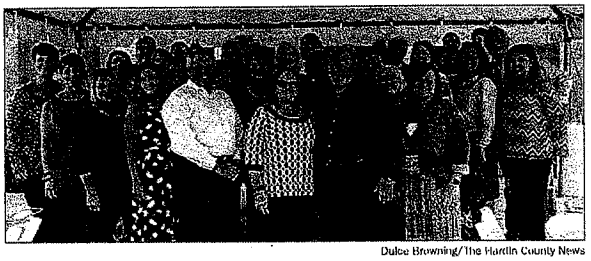
Newspaper Representative

Sworn and subscribed to before me, this 8 day of June, 2017 A.D.

Veronica M Tyrone

Notary Public in and for the State of Texas

VERONICA M TYRONE
7163357
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
FEB. 10, 2020



Dulce Browning/The Hardin County News

Stewart Title celebrates five years

Stewart Title hosted an open house on April 27 to celebrate five years in Hardin County. Stewart Title is located at 141 N. LHS Drive, Suite 215, Lumberton.

HIGH SCHOOL TRACK

Silsbee sprinter wins 200-meter duel

By Tom Halliburton

HUNTSVILLE Silsbee's Eranishia Carmenar edged Hardin-Jefferson's Wreagan Taylor in an all-Southeast Texas duel of the 200-meter dash April 29 at the 4A regional track and field championships.

The Silsbee sprinter outlasted her Hardin County neighbor, 24.95 to 25.21, to win the gold medal, but both athletes advanced to the state UIL track and field championships in two events and both departed Bowers Stadium with one gold and one silver medal.

Carmenar won the 200 and took second in the 100 meters while Taylor won the 100-meter hurdles and was second in the 200.

Virginia Kerley won three golds (long jump, 100, and 400) while leading Taylor to the girls team title.

Kalon Barnes of Silsbee (100 and 200) won double individual gold medals in the District 22-4A for the 100 and 200. Barnes added a third gold with his three teammates in the sprint relay — Calvin Tyler, Trey Lowe and Willie Jones.

H-J's Raylie Huff won a gold medal in girls triple jump.

The state track meet starts Thursday in Austin and continues through Sunday.

Tom Halliburton is a freelance writer.

Dulce Browning/The Hardin County News

Agency has grand opening

Rachel Donalson Insurance Agency, 1350 Texas 327 In Silsbee, hosted a grand opening ribbon cutting ceremony on April 27.

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS:
COUNTY OF JEFFERSON:

Before me, the undersigned authority, a Notary Public in and for the State of Texas, on this day personally appeared: Victoria Bond, who after being duly sworn, says that she is a **NEWSPAPER REPRESENTATIVE** for **THE JASPER NEWSBOY**, a daily newspaper published in Jefferson County and generally circulated in Jefferson, Hardin, Tyler, Newton, Orange, Jasper, Liberty, Sabine, Chambers, San Augustine, Angelina and Galveston Counties, Texas, and that the publication, of which the annexed is a true copy, was published to wit:

May 10, 2017 - Job# 24277433

Account: Southeast Texas Groundwater. , Acct# 050392101

Victoria Bond A/R Clerk

Newspaper Representative

Sworn and subscribed to before me, this ___6____ day of ____June, 2017_____A.D.

Delilah Metzger

Notary Public in and for the State of Texas

DELILAH METZGER
NOTARY PUBLIC
STATE OF TEXAS
EXPIRES
MAY 19, 2018

Legal Notices

To Clarence Richard Guy Gray Respondent,
Greeting:
you are herby commanded to appear by filing a written Answer to the Petitioner's petition at or before ten o'clock a.m. on the first Monday after the expiration of twenty (20) days after you were served this Citation, before the Honorable District Court of JAsper County, at the Courthouse in JAsper, Texas.
YOU HAVE BEEN SUED. You may employ an attorney. If you or your attorney do not file a written answer with the Clerk who issued this Citation by 10:00 a.m. on the Monday above specified, a Default Judgement may be taken against you. Said Petition was filedin said court, on the 6th day of November, 2014 in the cause, number 36.354 on the docket of said Court, and styled:
ESMERALDA SANCHEZ AND CLARENCE RICHARD GUY GRAY
The nature of this suit is ORIGINAL PETITION FOR DIVORCE, as is more fully shown by said Petition on file in the office of the Clerk of the Distric Courts of Jasper County. Issued and given under my hand and seal of said Court, at office in JAsper, Texas, this the 27th day of APRIL, A.D. 2017.
Attest:
Kathy Kent, Distric Clerk
District Courts, Jasper County, Texas
[5/3 -5/24]

Notice to Bidders
Sealed bids will be received by the City of Jasper, at the Office of the City Secretary located at 465 South Main, Jasper, Texas until 2:00 P.M. on May 17, 2017 for Asphaltic Concrete Patching Material.
Bids will be opened and read aloud on May 17, 2017 at 2:00 P.M.
Copies of the specifications and other proposed documents are on file, open to the public inspection and available for procurement by potential bidders at the office of the City Secretary, Karen Pumphrey (409) 384-4651.
The City of Jasper reserved the right to reject any or all bids and to waive informalities.
Bids must be submitted in a sealed envelope labeled and delivered no later than 2:00 P.M. on May 17, 2017. The sealed envelope should state as follows:
"Asphaltic Concrete Patching Material"
City of Jasper
465 South Main
Jasper, Texas 75951
[5/3 – 5/10]

Notice to Bidders
Sealed bids will be received by the City of Jasper, at the Office of the City Secretary located at 465 South Main, Jasper, Texas until 2:00 P.M. on May 17, 2017 for Granite Chip Seal Aggregate.
Bids will be opened and read aloud on May 17, 2017 at 2:00 P.M.
Copies of the specifications and other proposed documents are on file, open to the public inspection and available for procurement by potential bidders at the office of the City Secretary, Karen Pumphrey (409) 384-4651.
The City of Jasper reserved the right to reject any or all bids and to waive informalities.
Bids must be submitted in a sealed envelope labeled and delivered no later than 2:00 P.M. on May 17, 2017. The sealed envelope should state as follows:
"Granite Chip Seal Aggregate"
City of Jasper
465 South Main
Jasper, Texas 75951
5/3 – 5/10

NOTICE OF PUBLIC HEARING SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT
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[5-10]

The State of Texas
To: UNKNOWN HEIRS OF FLOYD ROBERT MORRIS AND EARLINE E. MORRIS AND UNKNOWN OWNERS AND/OR CLAIMANTS
Defendant Greetings:
You are hereby commanded to appear by filing a written answer to the Plaintiff's Petition at or before ten o'clock a.m. of the first Monday after the expiration of forty two (42) days after you were served this Citation, before the Honorable District Court of Jasper County, at the Courthouse of said County in Jasper, Texas.
YOU HAVE BEEN SUED. You

PUBLISHER'S AFFIDAVIT

STATE OF TEXAS
COUNTY OF NEWTON

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED SHAWN WILKERSON, WHO BEING BY ME DULY SWORN, DEPOSES AND SAYS THAT HE/SHE IS THE PUBLISHER OF THE NEWTON COUNTY NEWS THAT SAID NEWSPAPER IS REGULARLY PUBLISHED IN NEWTON COUNTY, TEXAS, AND GENERALLY CIRCULATED IN NEWTON COUNTY, TEXAS; AND THAT THE NOTICE, A COPY OF WHICH IS HERETO ATTACHED, WAS PUBLISHED IN SAID NEWSPAPER ON THE FOLLOWING DAYS: May 10, 2017 (Groundwater Legal).

Shawn Wilkerson
PUBLISHER/PUBLISHER'S REPRESENTATIVE

SWORN AND SUBSCRIBED TO ME ON THIS THE 30th DAY OF

MAY, 2017 TO CERTIFY WHICH WITNESS MY HAND AND SEAL OF OFFICE.

Karyn Lynn Lobb
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

NOTARY PUBLIC STATE OF TEXAS
KARYN LYNN LOBB
Notary ID # 10191062
My Commission Expires
December 15, 2020

KARYN LYNN LOBB
PRINT OR TYPE NAME OF NOTARY PUBLIC
MY COMMISSION EXPIRES 12/15/2020

(Affix Notary Seal Above)

Classified Ads

Services

PRESSURE WASHING - Sidewalks, driveways, houses, and so much more! Let us help you with your fall curb appeal! Call us today at 409-489-8953.

OVERCOMERS OUTREACH 12 STEP SUPPORT PROGRAM
Overcomers Outreach, a new meeting located at 501 Twin Street in Jasper at the Lone Star District Association Campground off Hwy. 190. All are welcome! 7 p.m. Thursday's. Call 409-379-2785.

IF YOU WANT TO DRINK, that's your business...If you want to stop, that's our business. Call 409-379-8308.

For Rent

MARSUE PROPERTIES - Quality residential rentals and leases. Call 409-379-2020 or MarsueProperties.com.

WANTED: Applicants for Housing: Elderly (1) Bedroom Apartments; Single (1) Bedroom Apartments; Family Size: 2, 3 & 4 Bedroom Apartments.

All sites have playgrounds and laundry facilities. All apartments have washer hook-ups and clothes lines, AC and Heat at affordable rents. Minimum $50, maximum $638 monthly. Rent is based on income. Applicants welcome. Applications taken Monday through Friday from 8 a.m. until 12 noon. Equal Opportunity Renter. Apply today at Newton Housing Authority, one mile north of Newton on Hwy. 87 at Sartain Street. Phone TDD 1-800-735-2989.

Card of Thanks

The family of Chris Franks would like to thank everyone for the flowers, food and phone calls during our loss.

Rhonda Hinson,
Glen & JoAnn Key,
Jimmy & Linda Martin
Scott & Heather Martin
1tp10

From the bottom of our hearts, Martha, Joe, Amy & Cody wish to express our appreciation and gratitude to the Community of Newton, friends & family for the food, prayers, memories and support during the loss of our husband, father, brother & nephew David Greninger.

Thank you and God Bless each and every one of you.

Martha, Joe,
Amy & Cody
1tp10

Legals

**JOINT NOTICE OF SALE
THE STATE OF TEXAS
COUNTY OF NEWTON**

BY VIRTUE OF ORDERS OF SALE DATED the 5th day of May, 2017, and issued pursuant to judgment decrees of the District Court of Newton County, Texas, by the Clerk of said Court on said date in the hereinafter numbered and styled causes, and to me directed and delivered as Sheriff of said Court, I have on the 5th day of May, 2017, seized, levied upon, and will on the 6th day of June, 2017, at the Courthouse Door of Newton County, Texas, at 10:00 A.M. on said day, proceed to sell for cash to the highest bidder all of the right, title, and interest of the defendants in such suit in and to the following described real estate levied upon as the property of said defendants, as provided for by the TEXAS PROPERTY TAX CODE.

All of the following properties being located in Newton County, Texas and each property being more particularly described on an instrument recorded in the Volume and Page reference (V__/P__) or document number of the Deed Records, Newton County, Texas. The approximate property addresses reflected herein are the addresses on the tax records and may or may not be completely accurate.

Property #1 - Cause No. 2750-T - The County of Newton, Texas v Alvin Adams, et al - 1.030 Acre out of Abstract 55 of the Nathaniel H. Cochran Survey, Tract 7, Newton County, Texas being that property more particularly described, being 1.03 acres of land, more or less, out of and being a part of a certain 3.2 acres tract as described in a Quit claim Deed from Leo Burks, et ux, to Alvin R. Adams, et ux, dated April 17, 1986 and being more fully described by metes and bounds beginning at a concrete marker stamped "N. 1406 S.E. Cor. B.F. Lewis" for the Southeast corner of said 3.22 acre tract. Thence S. 54° 58' W. with the South line of said 3.22 acre tract, at 217.42 ft. to a concrete marker adjacent to old 1-1/4 iron pipe for the Southeast corner of a 1 acre tract conveyed to Chester White, out of said 3.22 acre tract. Thence N. 44° 07' W. with the East line of said 1 acre tract, at 182.81 ft. to a concrete marker adjacent to an old 1-1/4 iron pipe for the Northeast corner of said 1 acre tract in the South R.O.W. line of F.M. Road #363, and 50 ft. perpendicular distance from the centerline of same. Thence N. 44° 53' E. with the South R.O.W. line of F.M. Road, at 232.37 ft. to a concrete marker for corner in the East line of said 3.22 acre tract. Thence S. 39° 28' E. with said line, at 217.85 ft/ to the place of beginning, containing 1.03 acres of land as herein described. (Volume 338, Page 288 of the Deed Records, Newton County, Texas), Account #000000011654.

Property #2 - Cause No. 2758-T - Newton Independent School District v Amos Davis - 1.000 Acre out of Abstract 9 of the Richard Linville Survey, Tract 21, Newton County, Texas (Volume 424, Page 848 of the Deed Records, Newton County, Texas), Account # 000000010086.

Property #3 - Cause No. 3224-T - Newton Independent School District v Anthony Allison, et al - West Part of Lot 3, Block 21, Town of Newton, Newton County, Texas (Volume 403, Page 036 of the Deed Records, Newton County, Texas), Weiss St., Newton, Texas 75966, Account #4200010600/23139.

Property #4 - Cause No. 3448-T - Newton Independent School District v Daniel D. Glenn, et al - 0.830 acre, more or less, Joseph Conn Survey, Tract 1-1, Abstract 74, Newton County, Texas (Volume 348, Page 492, Deed Records, Newton County, Texas), Account # 000000011988.

Property #5 - Cause No. 3493-T - Newton Independent School District v Kenneth W. Hall, et al - 0.060 acre, more or less, John A. McLanahan Survey, Tract 36, Abstract 330, Newton County, Texas (Volume 362, Page 948, Deed Records, Newton County, Texas) E. Hwy. 190, Bon Wier, Texas 75928, Account # 0000000160 17/000330007200.

Property #6 - Cause No. 3495-T - Newton Independent School District v Robert Edward Samuel, et al - 1.000 acre, William McFarland Lewis, Tract 54, Newton County, Texas (Volume 369, Page 57, Deed Records, Newton County, Texas), FM 2460, Bon Wier, Texas 75928, Account # 000000014970.

Property #7 - Cause No. 3555-T - Newton Independent School District v Rokeshia Nicole Elam - Lot 7, Block 6, Kerr Addition #2, City of Newton, Newton County, Texas (Volume 570, Page 851, Deed Records, Newton County, Texas), 714 College Street, Account # 000000023336.

Property #8 - Cause No. 3622-T - Newton Independent School District v Jacqueline Rosemon - 1 acre, more or less, out of Abstract 265 of the M.B. Lewis Survey, Tract 35, Newton County, Texas (Volume 563, Page 531, Deed Records, Newton County, Texas) and a manufactured home only, Serial #CAVTX15080953A/B, Label #NTA1490397, Newton County, Texas, 363 County Road 3069, Account # 000000014800/00000004731 6.

Property #9 - Cause No. 3640-T - Newton Independent School District v Bobby Gosey, et al - 3.50 Acres, more or less, Abstract 301, Edward Mancil Survey, Tract 1, City of Newton, Newton County, Texas (Volume 494, Page 203, Deed Records, Newton County, Texas), 2905 Hwy. East, Newton, Texas, Account # 000000015730.

Property #10 - Cause No. 3641-T - Newton Independent School District v James Curtis Mattox, Jr. - Lots 5 & 6, Block 9, Kerr Addition #2, City of Newton, Newton County, Texas (Volume 165, Page 266, Deed Records, Newton County, Texas), 502 Washington Street, Newton, Texas, Account #000000023352.

Property #11 - Cause No. 3644-T - Newton Independent School District v Dennis R. Bennett, et al - 2.000 acres, more or less, Abstract 245, I & G N RR Survey, Tract 9-2-1, Newton County, Texas (Volume 400, Page 523, Deed Records, Newton County, Texas) 2222 County Road 3008, Newton, Texas, Account # 000000014390.

Property #12 - Cause No. 3701-T - Newton Independent School District v Brenda Diggles, et al - A manufactured home only, 2003, 28'x60', Serial #DSETX-05344A, Label #NTA0964-142, PID #2332, City of Newton, Newton County, Texas, 911 Magnolia Street, Newton, Texas, Account #000000046707.

Property #13 - Cause No. 3701-T Newton Independent School District v Brenda Diggles, et al - Lot 6, Block 27, Newton-Davidson Addition, City of Newton, Newton County, Texas (Volume 552, Page 858, Deed Records, Newton County, Texas), 911 Magnolia Street, Newton, Texas 75966-3835, Account #000000045471.

Property #14 - Cause No. 3701-T - Newton Independent School District v Brenda Diggles, et al - Lot 5, Block 27, Newton-Davison Addition City of Newton, Newton County, Texas (Volume 625, Page 693, Deed Records, Newton County, Texas), 911 Magnolia Street, Newton, Texas, Account # 000000067610.

Property #15 - Cause No. 3705-T - Newton Independent School District v Lisa Bradford - East part of Lot 3 and all of Lot 4, Block 21, Town of Newton, Newton County, Texas (Volume 601, Page 88, Deed Records, Newton County, Texas), 214 Weiss Street, Newton, Texas, Account #000000023138.

Property #16 - Cause No. 3724-T - Newton Independent School District v Tina Kelly, et al - Undivided 1/4 interest in 4.160 acres, out of Abstract 13 of the Jonathan D. Ray Survey, Tract 34, Newton County, Texas (Volume 235, Page 27 and Correction Deed, Volume 265, Page 353 SAVE & EXCEPT 1.000 acre in Volume 293, Page 387, Deed Records, Newton County, Texas), Account # 000000064505.

Property #17 - Cause No. 3724-T - Newton Independent School District v Tina Kelly, et al - Undivided 1/4 interest in 4.160 acres, out of Abstract 13 of the Jonathan D. Ray Survey, Tract 34, Newton County, Texas (Volume 235, Page 27 and Correction Deed, Volume 265, Page 353 SAVE & EXCEPT 1.000 acre in Volume 293, Page 387, Deed Records, Newton County, Texas), Account # 000000064504.

Property #18 - Cause No. 3724-T - Newton Independent School District v Tina Kelly, et al - Undivided 1/4 interest in 4.160 acres, out of Abstract 13 of the Jonathan D. Ray Survey, Tract 34, Newton County, Texas (Volume 235, Page 27 and Correction Deed, Volume 265, Page 353 SAVE & EXCEPT 1.000 acre in Volume 293, Page 387, Deed Records, Newton County, Texas), Account # 000000064502.

Property #19 - Cause No. 3724-T - Newton Independent School District v Tina Kelly, et al - Undivided 1/4 interest in 4.160 acres, out of Abstract 13 of the Jonathan D. Ray Survey, Tract 34, Newton County, Texas (Volume 235, Page 27 and Correction Deed, Volume 265, Page 353 SAVE & EXCEPT 1.000 acre in Volume 293, Page 387, Deed Records, Newton County, Texas), Account # 000000064503.

Property #20 - Cause No. 3740-T - The County of Newton, Texas v Keith Collins, et al - Lots 2 & 3, Block 3, Newton Hardy Addition, City of Newton, Newton County, Texas (Volume 436, Page 364 of the Deed Records of Newton County, Texas), 405 Gibbs, Account # 000000023253.

Property #21 - Cause No. 3763-T - The County of Newton, Texas v Bart Allen Corder - 1.077 acres, more or less, out of Abstract 251 of the J.E. Joiner, Tract 13-2, Newton County, Texas (Volume 386, Page 585 of the Deed Records of Newton County, Texas), 1635 CR 4181, Orange, Texas 77632-2718, Account #0000000-14552.

This sale will be conducted to satisfy the judgment(s) for delinquent property taxes and accrued penalties and interests due on the properties described herein, and for all costs of court and sale.

I do hereby verify that true and correct copies of the foregoing Joint Notice of Sale have been delivered by United States Certified Mail, Return Receipt Requested, and by regular mail, to each of the Defendants named in each of the numbered and styled causes.

DATED the 5th day of May, 2017, at Newton, Texas.

/s/ Billy Rowles
Sheriff, Newton County, Texas
3tc10

**NOTICE OF PUBLIC HEARING
SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT**

NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday, June 8, 2017 at 9:30 A.M., at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment.

The proposed Management Plan can be reviewed at the District Office at 271 East Lamar, Jasper, Texas 75951; or on the District's website at http://www.setgcd.org. Further information can also be obtained by contacting the District at P.O. Box 1407, Jasper,Texas 75951; phone number (409) 383-1577.

1tc10

THE STATE OF TEXAS

TO: HUDSONE 7 KEYSE, L.L.C. Defendant, GREETING:

You are hereby commanded to appear by filing a written answer to the Plaintiff's Original Petition at or before ten o'clock a.m. of the first Monday after the expiration of forty-two (42) days from the date of the issuance of this Citation, before the Honorable District Court of Newton County, at the Courthouse of said County in Newton, Texas.

YOU HAVE BEEN SUED. You may employ an attorney. If you or your attorney do not file a written answer with the Clerk who issued this Citation by 10:00 a.m. on the Monday specified, a Default Judgment may be taken against you.

Said petition was filed in said Court, on the 19th day of January, 2017 in this cause number 14143 on the docket of said Court, and styled:

ROBERT A. SANDERS
V.
HUDSON & KEYSE, L.L.C.

A brief statement of the nature of this suit is: Plaintiff's request judgment against Defendant's for title and possession of land and is more fully shown by Plaintiff's Petition on file in this suit.

Issued and given under my hand ad the Seal of said Court at office in Newton, Texas, this 8th day of May, 2017.

Bree Allen, District Clerk
Newton County, Texas
1tc10

Newton Lions Club Meeting Report

The Newton Lions Club met on Thursday, May 4, 2017 at Eagles Landing with several members present, along with the Senior Leo Club Members. Lions President Sam Forse Collins presided over the meeting.

As approved in the 2017 Budget, Lion Treasurer Margie Herrin was authorized to pay $1,500 at the Fair Auction on behalf of the Lions Club and to provide $1,500 for NHS Scholarships as designated by the committee.

New officers were installed for the up-coming year: they are President – Lion Johnny Westbrook; Vice President – Lion Conley Todd; Secretary – Lion Michelle Barrow; Treasurer – Lion Donnie Meek; Membership – Lion Edwina Lewis; and Tail-Twister – Lion Joe Miller. The year runs from July through June 30. The new officers will take office on July 1.

Kay Jones reported that since school was going to be let out early this year, the Leo Club has already put out flags for Veterans on their graves.

Jones also gave out awards and certificates of appreciation to Leo Club members. For the White Cane Fundraiser (which collected $132.50 in one shift) – awards went to John Kalafatis, Haley Simmons, Brock Barbay and Kayla Williams. Newcomer of the Year is Antwaine Hunter; Service in Smiles went to Jasine Issac and Cameron Stewart; Dedication – Kirkland Foster; and Leo of the Year went to Chris Thomas.

Senior Leo's were given a Certificate of Appreciation for their hard work – Kenlie Davis, Kirkland Foster, Kayla Williams, Chris Thomas, Bergandie Franks, Cameron Stewart, Jasmine Issac, Caleb Sumrall, Kayla Quarles, Luis Cruz, Devion Kenebrew, Haley Simmons, Tasha Wood, Antwaine Hunter, John Kalafatis, Jalia Franklin, Matthew Bohac, Brock Barbay, Chris Conner and Austin Couey.

It was announced that Monday, May 15, 2017 will be the Awards Night for scholarships.

A delicious meal was prepared by the Culinary Ats Class, headed up by Kay Jones. The meal consisted of King Ranch Chicken, Seasoned Green Beans, a Roll and dessert. Serving the meal was the Junior Leo Club members.

Debbie Johnston was the speaker for the meeting. She spoke of the new Local Innovation Plan for 2017-2018. The potential benefits of becoming a District of Innovation include: Flexibility – Districts will have the flexibility to implement practices similar to charter schools, including exemptions from certain mandates including the uniform school start date and required minutes of instruction. If you have any questions concerning this plan, contact one of the school board members.

The meeting adjourned at 1 p.m. The next scheduled meeting will be held Thursday, August 3, 2017 at Eagles Landing with Coach W.T. Johnston as the speaker.

Join the Lions Club!

AFFIDAVIT OF PUBLICATION

STATE OF TEXAS
COUNTY OF TYLER

Before me, the undersigned, Notary Public in the County of Tyler, State of Texas, personally appeared Kelli Barnes, known to me, who after being duly sworn by me, on her oath, deposes and says that she is the General Manager of the TYLER COUNTY BOOSTER, a newspaper published in said county; that a Legal Notice, a copy of which is attached, was published in said newspaper for one (1) week the date-to-wit:

May 11th, 2017

Kelli Barnes

Kelli Barnes, General Manager

SUBSCRIBED AND SWORN TO before me
This, the 17th day of May 2017

Bonnie E Faircloth

BONNIE E. FAIRCLOTH
NOTARY PUBLIC
TYLER COUNTY, TEXAS

BONNIE E. FAIRCLOTH
Notary Public, State of Texas
Comm. Expires 12-03-2019
Notary ID 3641599

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Notice of Public Hearing Southeast Texas Texas Groundwater Conservation District Notice

NOTICE OF PUBLIC HEARING SOUTHEAST TEXAS GROUNDWATER CONSERVATION DISTRICT NOTICE is given that the Southeast Texas Groundwater Conservation District ("District") will hold a Public Hearing on Thursday June 8, 2017 at 9:30 AM, at the Jasper-Newton Electric Co-op. Meeting Room located at 812 S. Margaret Avenue, in Kirbyville, Texas 75956. The District proposes to re-adopt its Management Plan for the District which is comprised of Jasper, Newton, Hardin, and Tyler Counties. The public hearing will be held to receive public comment. The proposed Management Plan can be reviewed at the District Office at 271 East Lamar, Jasper Texas 75951; or on the District's website at http://www.setgcd.org. Further information can also be obtained by contacting the District at P.O. Box 1407, Jasper, Texas 75951; phone number (409) 383-1577. (19-1t-b)

Notice of Annual Meeting of Allison Cemetery

NOTICE OF ANNUAL: meeting of Allison Cemetery, INC. A public meeting of the member of the Allison Cemetery is located on CR 4472 in Warren, Texas. Items to considered are the election of Directors and Officers and such other business as may be presented. The public is encouraged to attend. David Standley, Secretary/ Treasurer Allison Cemetery, Inc. (18-2t-p)

Notice of Nonjudicial Forclosure Sale

NOTICE OF NONJUDICAL: Foreclosure Sale On June 6, 2017, between 1:00 and 4:00 pm, Lee Carroll, Tommy Jackson, Tiffany Beggs, Ron Harmon or Carolyn Ciccio, as duly appointed Substitute Trustee under the Deed of Trust executed by Christina L. Cravy and Frances C. Cravy and recorded at Vol. 840, Page 816 and as modified at Vol. 860, Page 421, Real Property Records of Tyler County, Texas, shall sell by a nonjudicial foreclosure sale to the highest bidder for cash or cashier's check, the real property secured by the Deed of Trust and having the legal description of: Lot 21, Block 93, Lake Charmaine, Section 6, Tyler County, Texas. The lienholder shall bid by way of a credit bid under the Deed of Trust and state law.
The place shall be in that area designated by the Commissioners' Court of Tyler County, Texas for such sales or at all that area under the steps giving access to the north entrance to the second floor of the courthouse, bounded on the south by the north wall of the courthouse building, more particularly all that area lying within 6 feet and 8 inches on either side of a line beginning at the middle of the north entrance of the first floor of the courthouse and running due north 19 feet and 6 inches, or if the preceding area is no longer the designated area, at the area most recently designated by the County Commissioners' Court, in Woodville, Texas. (19-1t-p)

A-1 Discount Wrecker Notification of Fees Owed

TO WHOM IT: May concern, A-1 DISCOUNT WRECKER SERVICE, 0559961 VSF located at 2510 Highway 69 N. Woodville, TX 75979, picked up a 1997 PONTIAC, GRAND AM, WHITE. Picked up at Feed Store HWY 287 Chester, Tx on 01/02/2017. Total amount owed as of 05/05/17 is 2718.15. The daily storage fee is $20.00 tax rate of 6.75% that accrue daily, a $20.00 Impound Fee, a one-time notification fee of $50.00 and the towing charge is $150.00. www.tdlr.texas.gov(19-1t-p)