MEMO

To:	Melanie Callahan
Through	Larry French, Robert Mace
From:	Rima Petrossian
Date:	7/26/2012
Re:	Management Plan Approval for Prairielands Groundwater Conservation District

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Staff recommends that the Prairielands Groundwater Conservation District management plan be approved as administratively complete.

Prairielands Groundwater Conservation District management plan is due for the Executive Administrator's approval by Friday, August 31, 2012.

Texas Water Development Board
Groundwater Conservation District Management Plan Review and Approval Tracking

Reviewers Recommending the Plan for Approval

1) Stephen Allen Date July 17, 2012
Stephen Allen, P.G., Geoscientist, Groundwater Technical Assistance

2) David Thorkildsen Date 7/18/2012
David Thorkildsen, P.G., Geologist, Groundwater Technical Assistance

3) SBackhouse Date 7/18/12
Sarah Backhouse, Hydrologist, Groundwater Technical Assistance

Recommended for Approval

1) Rima Petrossian Date July 26, 2012
Rima Petrossian, P.G., Manager, Groundwater Technical Assistance

2) Larry French Date 7.26.12
Larry French, P.G., Director, Groundwater Resources Division

3) Date 7/30/12
Robert E. Mace, Ph.D., P.G., Deputy Executive Administrator, Water Science & Conservation

Approval

The groundwater conservation district management plan document submitted by:

Prairielands Groundwater Conservation District

for approval, as administratively complete under the requirements of 31 TAC Ch. 356, has been found by me, to be in fulfillment of said requirements.

Melanie Callahan Date 7/30/12
Melanie Callahan, Executive Administrator, Texas Water Development Board

Texas Water Development Board

Management Plan Interim Checklist, effective September 1, 2011, expires pending new Chaper 356 rulemaking.

District name: Prairielands GCD ☑ Official review ☐ Prereview

Reviewing staff: Sarah Backhouse

Date plan received: 7/2/12

Date plan reviewed: 7/18/12

	Citation of rule	Citation of statute	Present in plan and administratively complete	Citation of source or method	Evidence that best available data was used	Notes
Is a paper hard copy of the plan available?	31 TAC §356.6(a)(1)		Yes			
Is an electronic copy of the plan available?	31 TAC §356.6(a)(1)		Yes			
1. Is an estimate of the modeled available groundwater in the District based on the desired future condition established under Section 36.108 included?	Submittal of a plan fulfills TWC §36.1071.	TWC §36.1071(e)(3)(A)	Yes	GR 10-063 MAG and GR 08-14 MAG	Yes	p. 7-8, Appendix D and E. Plan was adopted before GR 10-064 MAG for the Woobine Aquifer was finalized
2. Is an estimate of the amount of groundwater being used within the District on an annual basis for at least the most recent five years included?	31 TAC §356.5(a)(5)(B); §356.2(2)	TWC §36.1071(e)(3)(B)	Yes	TWDB WUS	Yes	p. 8, Appendix F
3. Is an estimate of the annual amount of recharge, from precipitation, to the groundwater resources within the District included?	31 TAC §356.5(a)(5)(C)	TWC §36.1071(e)(3)(C)	Yes	GR 11-004	Yes	p. 8-9, Appendix G
4. For each aquifer in the district, is an estimate of the annual volume of water that discharges from the aquifer to springs and any surface water bodies, including lakes, streams and rivers, included?	31 TAC §356.5(a)(5)(D)	TWC §36.1071(e)(3)(D)	Yes	GR 11-004	Yes	p. 9, Appendix G
5. Is an estimate of the annual volume of flow	31 TAC §356.5(a)(5)(E)	TWC §36.1071(e)(3)(E)				
a) into the District within each aquifer,			Yes	GR 11-004	Yes	p. 9, Appendix G
b) out of the District within each aquifer,			Yes	GR 11-004	Yes	p. 9, Appendix G
c) and between aquifers in the District,			Yes	GR 11-004	Yes	p. 9, Appendix G
if a groundwater availability model is available, included?						
6. Is an estimate of the projected surface water supply within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(F)	TWC §36.1071(e)(3)(F)	Yes	2012 SWP	Yes	p. 9, Appendix F
7. Is an estimate of the projected total demand for water within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(G)	TWC §36.1071(e)(3)(G)	Yes	2012 SWP	Yes	p. 9, Appendix F
8. Did the District consider and include the water supply needs from the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	Yes			p. 9, Appendix F
9. Did the District consider and include the water management strategies from the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	Yes			p. 10, Appendix F
10. Are the actions, procedures, performance, and avoidance necessary to effectuate the management plan, including specifications and proposed rules, all specified in as much detail as possible, included in the plan?	31 TAC §356.5(a)(4); §356.6(a)(3)	TWC §36.1071(e)(2)	Yes			p. 12-13
11. Was a certified copy of the District's resolution adopting the plan included?	31 TAC §356.6(a)(2)		Yes			Appendix A. Plan adopted 5/21/12
12. Was evidence that the plan was adopted, after notice and hearing, included?	31 TAC §356.6(a)(5)	TWC §36.1071(a)	Yes			Appendix B. Multiple notices prior to adoption
13. Was evidence that, following notice and hearing, the District coordinated in the development of its management plan with all surface water management entities, included?	31 TAC §356.6(a)(4)	TWC §36.1071(a)	Yes			Appendix C. Letters dated 6/28/12
14. Has any available site-specific information been provided by the district to the executive administrator for review and comment before being used in the management plan when developing the estimates required in subsection 31 TAC §§356.5(a)(5)(C), (D), and (E) ?	31 TAC §356.5(b)	TWC §36.1071(h)	NA			

Mark an affirmative response with YES
Mark a negative response with NO
Mark a non-applicable checklist item with N/A

Management goals required to be addressed	Management goal (as applicable) present in plan	Methodology for tracking progress 31TAC §356.5(a)(6)	Management objective(s)	Performance standard(s)	Notes
Providing the most efficient use of groundwater 31 TAC 356.5(a)(1)(A); TWC §36.1071(a)(1)	15) Yes	16) Yes, p. 14	17) Yes	18) Yes	p. 14-15
Controlling and preventing waste of groundwater 31 TAC 356.5(a)(1)(B); TWC §36.1071(a)(2)	19) Yes	20) Yes, p. 14	21) Yes	22) Yes	p. 15-16
Controlling and preventing subsidence 31 TAC 356.5(a)(1)(C); TWC §36.1071(a)(3)	23) NA	24) NA	25) NA	26) NA	p. 20
Addressing conjunctive surface water management issues 31 TAC 356.5(a)(1)(D); TWC §36.1071(a)(4)	27) Yes	28) Yes, p. 14	29) Yes	30) Yes	p. 16
Addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater 31 TAC 356.5(a)(1)(E); TWC §36.1071(a)(5)	31) Yes	32) Yes, p. 14	33) Yes	34) Yes	p. 16-17
Addressing drought conditions 31 TAC 356.5(a)(1)(F); TWC §36.1071(a)(6)	35) Yes	36) Yes, p. 14	37) Yes	38) Yes	p. 17
Addressing	39)	40)	41)	42)	
a) conservation,	39a) Yes	40a) Yes, p. 14	41a) Yes	42a) Yes	p.18-19
b) recharge enhancement,	39b) Yes	40b) Yes, p. 14	41b) Yes	42b) Yes	p.18
c) rainwater harvesting,	39c) Yes	40c) Yes, p. 14	41c) Yes	42c) Yes	p.18
d) precipitation enhancement, and	39d) Yes	40d) Yes, p. 14	41d) Yes	42d) Yes	p.18
e) brush control	39e) Yes	40e) Yes, p. 14	41e) Yes	42e) Yes	p.18
where appropriate and cost effective 31 TAC 356.5(a)(1)(G); TWC §36.1071(a)(7)					
Addressing the desired future conditions adopted by the district under TWC §36.108; TWC §36.1071(a)(8)	43) Yes	44) Yes, p. 14	45) Yes	46) Yes	p. 19-20
Does the plan identify the performance standards and management objectives for effecting the plan? 31 TAC §356.5(a)(2)&(3); TWC §36.1071(e)(1)			47) Yes	48) Yes	

Mark required elements that are present in the plan with YES
Mark any required elements that are missing from the plan with NO
Mark Plan elements that have been indicated as not applicable to the district with (N/A)

Texas Water Development Board

Management Plan Interim Checklist, effective September 1, 2011, expires pending new Chaper 356 rulemaking.

District name: Prairielands GCD ☑ Official review ☐ Prereview

Reviewing staff: David Thorkildsen

Date plan received: 7/02/2012

Date plan reviewed: 7/18/2012

	Citation of rule	Citation of statute	Present in plan and administratively complete	Citation of source or method	Evidence that best available data was used	Notes
Is a paper hard copy of the plan available?	31 TAC §356.6(a)(1)		Yes			
Is an electronic copy of the plan available?	31 TAC §356.6(a)(1)		Yes			
1. Is an estimate of the modeled available groundwater in the District based on the desired future condition established under Section 36.108 included?	Submittal of a plan fulfills TWC §36.1071.	TWC §36.1071(e)(3)(A)	Yes	GAM Run 08-14 MAG, GAM Run 10-063 MAG	Yes	p. 7-8, Appendices D & E
2. Is an estimate of the amount of groundwater being used within the District on an annual basis for at least the most recent five years included?	31 TAC §356.5(a)(5)(B); §356.2(2)	TWC §36.1071(e)(3)(B)	Yes	TWDB WUS	Yes	p. 8, Appendix F
3. Is an estimate of the annual amount of recharge, from precipitation, to the groundwater resources within the District included?	31 TAC §356.5(a)(5)(C)	TWC §36.1071(e)(3)(C)	Yes	GAM Run 11-004	Yes	p. 8, Appendix G
4. For each aquifer in the district, is an estimate of the annual volume of water that discharges from the aquifer to springs and any surface water bodies, including lakes, streams and rivers, included?	31 TAC §356.5(a)(5)(D)	TWC §36.1071(e)(3)(D)	Yes	GAM Run 11-004	Yes	p. 9, Appendix G
5. Is an estimate of the annual volume of flow	31 TAC §356.5(a)(5)(E)	TWC §36.1071(e)(3)(E)				
a) into the District within each aquifer,			Yes	GAM Run 11-004	Yes	p. 9, Appendix G
b) out of the District within each aquifer,			Yes	GAM Run 11-004	Yes	p. 9, Appendix G
c) and between aquifers in the District,			Yes	GAM Run 11-004	Yes	p. 9, Appendix G
if a groundwater availability model is available, included?						
6. Is an estimate of the projected surface water supply within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(F)	TWC §36.1071(e)(3)(F)	Yes	2012 SWP	Yes	p. 9, Appendix F
7. Is an estimate of the projected total demand for water within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(G)	TWC §36.1071(e)(3)(G)	Yes	2012 SWP	Yes	p. 9, Appendix F
8. Did the District consider and include the water supply needs from the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	Yes			p. 9, Appendix F
9. Did the District consider and include the water management strategies from the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	Yes			p. 9-10, Appendix F
10. Are the actions, procedures, performance, and avoidance necessary to effectuate the management plan, including specifications and proposed rules, all specified in as much detail as possible, included in the plan?	31 TAC §356.5(a)(4); §356.6(a)(3)	TWC §36.1071(e)(2)	Yes			p. 12-13
11. Was a certified copy of the District's resolution adopting the plan included?	31 TAC §356.6(a)(2)		Yes			Appendix A, 5/21/2012
12. Was evidence that the plan was adopted, after notice and hearing, included?	31 TAC §356.6(a)(5)	TWC §36.1071(a)	Yes			Appendix B, 4/25-26/2012
13. Was evidence that, following notice and hearing, the District coordinated in the development of its management plan with all surface water management entities, included?	31 TAC §356.6(a)(4)	TWC §36.1071(a)	Yes			Appendix C, 6/28/2012
14. Has any available site-specific information been provided by the district to the executive administrator for review and comment before being used in the management plan when developing the estimates required in subsection 31 TAC §§356.5(a)(5)(C), (D), and (E) ?	31 TAC §356.5(b)	TWC §36.1071(h)	NA			Used GAM numbers

Mark an affirmative response with YES
Mark a negative response with NO
Mark a non-applicable checklist item with N/A

Management goals required to be addressed	Management goal (as applicable) present in plan	Methodology for tracking progress 31TAC §356.5(a)(6)	Management objective(s)	Performance standard(s)	Notes
Providing the most efficient use of groundwater 31 TAC 356.5(a)(1)(A); TWC §36.1071(a)(1)	15) Yes	16) p. 14 Yes	17) Yes	18) Yes	p. 14-15
Controlling and preventing waste of groundwater 31 TAC 356.5(a)(1)(B); TWC §36.1071(a)(2)	19) Yes	20) p. 14 Yes	21) Yes	22) Yes	p. 15-16
Controlling and preventing subsidence 31 TAC 356.5(a)(1)(C); TWC §36.1071(a)(3)	23) NA	24) NA	25) NA	26) NA	p. 20
Addressing conjunctive surface water management issues 31 TAC 356.5(a)(1)(D); TWC §36.1071(a)(4)	27) Yes	28) p.14 Yes	29) Yes	30) Yes	p. 16
Addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater 31 TAC 356.5(a)(1)(E); TWC §36.1071(a)(5)	31) Yes	32) p. 14 Yes	33) Yes	34) Yes	p. 16-17
Addressing drought conditions 31 TAC 356.5(a)(1)(F); TWC §36.1071(a)(6)	35) Yes	36) p. 14 Yes	37) Yes	38) Yes	p. 17-18
Addressing	39)	40)	41)	42)	
a) conservation,	39a) Yes	40a) p. 14 Yes	41a) Yes	42a) Yes	p. 18-19
b) recharge enhancement,	39b) Yes	40b) p. 14 Yes	41b) Yes	42b) Yes	p. 18-19
c) rainwater harvesting,	39c) Yes	40c) p. 14 Yes	41c) Yes	42c) Yes	p. 18-19
d) precipitation enhancement, and	39d) Yes	40d) p. 14 Yes	41d) Yes	42d) Yes	p. 18-19
e) brush control	39e) Yes	40e) p. 14 Yes	41e) Yes	42e) Yes	p. 18-19
where appropriate and cost effective 31 TAC 356.5(a)(1)(G); TWC §36.1071(a)(7)					
Addressing the desired future conditions adopted by the district under TWC §36.108; TWC §36.1071(a)(8)	43) Yes	44) p. 14 Yes	45) Yes	46) Yes	p. 19-20
Does the plan identify the performance standards and management objectives for effecting the plan? 31 TAC §356.5(a)(2)&(3); TWC §36.1071(e)(1)			47) Yes	48) Yes	

Mark required elements that are present in the plan with YES
Mark any required elements that are missing from the plan with NO
Mark Plan elements that have been indicated as not applicable to the district with (N/A)

Texas Water Development Board

Management Plan Interim Checklist, effective September 1, 2011, expires pending new Chaper 356 rulemaking.

District name: Prairielands GCD ☑ Official review ☐ Prereview

Reviewing staff: Stephen Allen, SB, DT

Date plan received: July 2, 2012

Date plan reviewed: July 18, 2012

	Citation of rule	Citation of statute	Present in plan and administratively complete	Citation of source or method	Evidence that best available data was used	Notes
Is a paper hard copy of the plan available?	31 TAC §356.6(a)(1)		yes			received July 2, 2012
Is an electronic copy of the plan available?	31 TAC §356.6(a)(1)		yes			cd provided
1. Is an estimate of the modeled available groundwater in the District based on the desired future condition established under Section 36.108?		TWC §36.1071(e)(3)(A)	yes	GAM Runs 10-063MAG and 08-14MAG	yes	p. 7-8 and Appendix D and E
2. Is an estimate of the amount of groundwater being used within the District on an annual basis for at least the most recent five years, included?	31 TAC §356.5(a)(5)(B); §356.2(2)	TWC §36.1071(e)(3)(B)	yes	TWDB WUS	yes	p. 8 and Appendix F
3. Is an estimate of the annual amount of recharge, from precipitation, to the groundwater resources within the District included?	31 TAC §356.5(a)(5)(C)	TWC §36.1071(e)(3)(C)	yes	GAM Run 11-004	yes	p. 8 and Appendix G
4. For each aquifer in the district, is an estimate of the annual volume of water that discharges from the aquifer to springs and any surface water bodies, including lakes, streams and rivers, included?	31 TAC §356.5(a)(5)(D)	TWC §36.1071(e)(3)(D)	yes	GAM Run 11-004	yes	p. 9 and Appendix G
5. Is an estimate of the annual volume of flow						
a) into the District within each aquifer,	31 TAC §356.5(a)(5)(E)	TWC §36.1071(e)(3)(E)	yes	GAM Run 11-004	yes	p. 9 and Appendix G
b) out of the District within each aquifer,			yes	GAM Run 11-004	yes	p. 9 and Appendix G
c) and between aquifers in the District,			yes	GAM Run 11-004	yes	p. 9 and Appendix G
if a groundwater availability model is available, included?						
6. Is an estimate of the projected surface water supply within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(F)	TWC §36.1071(e)(3)(F)	yes	2012 SWP	yes	p. 9 and Appendix F
7. Is an estimate of the projected total demand for water within the District according to the most recently adopted state water plan included?	31 TAC §356.5(a)(5)(G)	TWC §36.1071(e)(3)(G)	yes	2012 SWP	yes	p. 9 and Appendix F
8. Did the District consider the water supply needs that are included in the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	yes			p. 9 and Appendix F
9. Did the District consider the water management strategies that are included in the adopted state water plan?	31 TAC §356.5(a)(7)	TWC §36.1071(e)(4)	yes			p. 9-10 and Appendix F
10. Are the actions, procedures, performance, and avoidance necessary to effectuate the management plan, including specifications and proposed rules, all specified in as much detail as possible, included in the plan?	31 TAC §356.5(a)(4); §356.6(a)(3)	TWC §36.1071(e)(2)	yes			p. 12-13
11. Was a certified copy of the District's resolution adopting the plan included?	31 TAC §356.6(a)(2)		yes			p. 7 and Appendix A
12. Was evidence that the plan was adopted, after notice and hearing, included?	31 TAC §356.6(a)(5)	TWC §36.1071(a)	yes			p. 7 and Appendix B, includes secretary of state notification (4 or more counties)
13. Was evidence that, following notice and hearing, the District coordinated in the development of its management plan with all surface water management entities, included?	31 TAC §356.6(a)(4)	TWC §36.1071(a)	yes			p. 7 and Appendix C, 6/28/2012
14. Has any available site-specific information been provided by the district to the executive administrator for review and comment before being used in the management plan when developing the estimates required in subsection 31 TAC §§356.5(a)(5)(C), (D), and (E) ?	31 TAC §356.5(b)	TWC §36.1071(h)	n/a			

Mark an affirmative response with YES
Mark a negative response with NO
Mark a non-applicable checklist item with N/A

Management goals required to be addressed	Management goal (as applicable) present in plan	Methodology for tracking progress 31TAC §356.5(a)(6)	Management objective(s)	Performance standard(s)	Notes
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Controlling and preventing waste of groundwater 31 TAC 356.5(a)(1)(B); TWC §36.1071(a)(2)	19) yes	20) p. 14	21) yes	22) yes	p. 15-16
Controlling and preventing subsidence 31 TAC 356.5(a)(1)(C); TWC §36.1071(a)(3)	23) n/a	24) n/a	25) n/a	26) n/a	p. 20
Addressing conjunctive surface water management issues 31 TAC 356.5(a)(1)(D); TWC §36.1071(a)(4)	27) yes	28) p. 14	29) yes	30) yes	p. 16
Addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater 31 TAC 356.5(a)(1)(E); TWC §36.1071(a)(5)	31) yes	32) p. 14	33) yes	34) yes	p. 16-17
Addressing drought conditions 31 TAC 356.5(a)(1)(F); §36.1071(a)(6)	35) yes	36) p. 14	37) yes	38) yes	p. 17-18
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b) recharge enhancement,	39b) yes	40b) p. 14	41b) yes	42b) yes	p. 18-19
c) rainwater harvesting,	39c) yes	40c) p. 14	41c) yes	42c) yes	p. 18-19
d) precipitation enhancement, and	39d) yes	40d) p. 14	41d) yes	42d) yes	p. 18-19
e) brush control	39e) yes	40e) p. 14	41e) yes	42e) yes	p. 18-19
where appropriate and cost effective 31 TAC 356.5(a)(1)(G); TWC §36.1071(a)(7)					
Addressing the desired future conditions adopted by the district under section 36.108 TWC §36.1071(a)(8)	43) yes	44) p. 26	45) yes	46) yes	p. 19-20
Does the plan identify the performance standards and management objectives for effecting the plan? 31 TAC §356.5(a)(2)&(3); TWC §36.1071(e)(1)			47) yes	48) yes	

Mark required elements that are present in the plan with YES
Mark any required elements that are missing from the plan with NO
Mark Plan elements that have been indicated as not applicable to the district with (N/A)

Lloyd Gosselink
ATTORNEYS AT LAW

816 Congress Avenue, Suite 1900
Austin, Texas 78701
Telephone: (512) 322-5800
Facsimile: (512) 472-0532
www.lglawfirm.com

Mr. Sledge's Direct Line: (512) 322-5839
Email: bsledge@lglawfirm.com

June 29, 2012

VIA CERTIFIED MAIL

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

Re: Submission of Prairielands Groundwater Conservation District Management Plan for Texas Water Development Board Approval

Dear Ms. Callahan:

On behalf of the Prairielands Groundwater Conservation District ("District"), please accept the enclosed Management Plan for Texas Water Development Board ("TWDB") review and approval pursuant to Section 36.1072(a-1) of the Texas Water Code. The District's Board of Directors adopted the enclosed Management Plan by resolution on May 21, 2012. The enclosed Management Plan fulfills the statutory requirements in Chapter 36 of the Texas Water Code and the provisions of TWDB rules contained in Title 31 Texas Administrative Code, Chapter 356.

A certified copy of the resolution adopting the Management Plan and other documents demonstrating compliance with the regulatory and statutory requirements for developing and adopting management plans are attached as appendices to the District's Management Plan. A copy of the District's temporary rules is also enclosed with this submission.

The District and I appreciate the efforts of TWDB staff during the preparation and review of the District's Management Plan. Please do not hesitate to contact me if you have any questions or require any additional information in the review of the enclosed Management Plan.

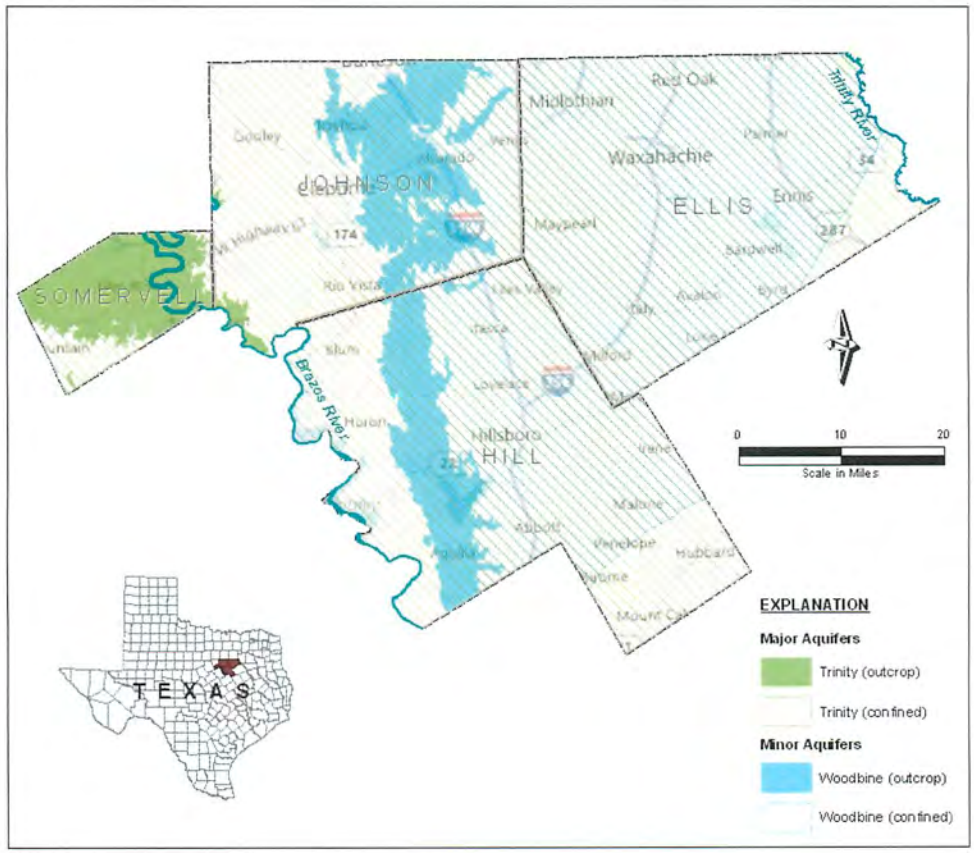
Sincerely,

Brian L. Sledge

Enclosures

cc: Joshua Grimes, General Manager
Prairielands Groundwater Conservation District

PRAIRIELANDS
GROUNDWATER CONSERVATION DISTRICT
MANAGEMENT PLAN



As Adopted on May 21, 2012

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Appendix D. GAM Run 10-063-MAG (Trinity)

Appendix E. GAM Run 08-14-MAG (Woodbine)

Appendix F. Estimated Historical Water Use and 2012 State Water Plan Datasets

Appendix G. GAM Run 11-004

I. DISTRICT MISSION

The Mission of the Prairielands Groundwater Conservation District ("District") is to develop rules to provide protection to existing wells, prevent waste, promote conservation, provide a framework that will allow availability and accessibility of groundwater for future generations, protect the quality of the groundwater in the recharge zone of the aquifer, insure that the residents of Ellis, Hill, Johnson, and Somervell Counties maintain local control over their groundwater, and operate the District in a fair and equitable manner for all residents of the District.

II. HISTORY AND PURPOSE OF THE MANAGEMENT PLAN

The purpose of the management plan is to identify the goals of the district and to document the management objectives and performance standards that will be used to accomplish those goals.

The 75th Texas Legislature in 1997 enacted Senate Bill 1 ("SB 1") to establish a comprehensive statewide water planning process. In particular, SB 1 contained provisions that require each groundwater conservation district ("GCD") to prepare a management plan to identify the water supply resources and water demands that will shape the decisions of the 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 GCDs in each Groundwater Management Area ("GMA") were required to meet and determine the Desired Future Conditions ("DFCs") for the groundwater resources within their boundaries by September 1, 2010. In 2011, Senate Bills 660 and 737 further modified these groundwater law and GCD management requirements in Texas.

All of these changes in law have been incorporated into the Texas Water Code and used as a framework to develop this management plan.

III. DISTRICT INFORMATION

A. Creation

The Prairielands Groundwater Conservation District ("District") was created by the 81st Texas Legislature under the authority of Section 59, Article XVI, of the Texas Constitution, and in accordance with Chapter 36 of the Texas Water Code ("Water Code"), by the Act of May 31, 2009, 81st Leg., R.S., Ch. 1208, 2009 Tex. Gen. Laws 3859, codified at TEX. SPEC. DIST. LOC. LAWS CODE ANN. Ch. 8855

("the District Act"). The District is a governmental agency and a body politic and corporate. The District was created to serve a public use and benefit, and is essential to accomplish the objectives set forth in Section 59, Article XVI, of the Texas Constitution.

B. Directors

The District's Board of Directors ("Board") consists of eight members who are appointed by the county commissioners courts for four-year terms. There are two members on the Board for each of the four counties in the District. One director is appointed per county every two years; therefore, each county has one Director with a term that expires every two years.

C. Authority

The District has the rights and responsibilities provided for in Chapter 36 of the Texas Water Code (TWC) and 31 Texas Administrative Code (TAC) Chapter 356. The District is charged with conducting hydrogeological studies, adopting a management plan, providing for the permitting of certain water wells and implementing programs to achieve statutory mandates. The District has rulemaking authority to implement the policies and procedures needed to manage the groundwater resources of Ellis, Hill, Johnson and Somervell counties.

D. Location and Extent

The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell Counties, Texas. The District covers an area of approximately 2,864 square miles. A map is included as Figure 1.

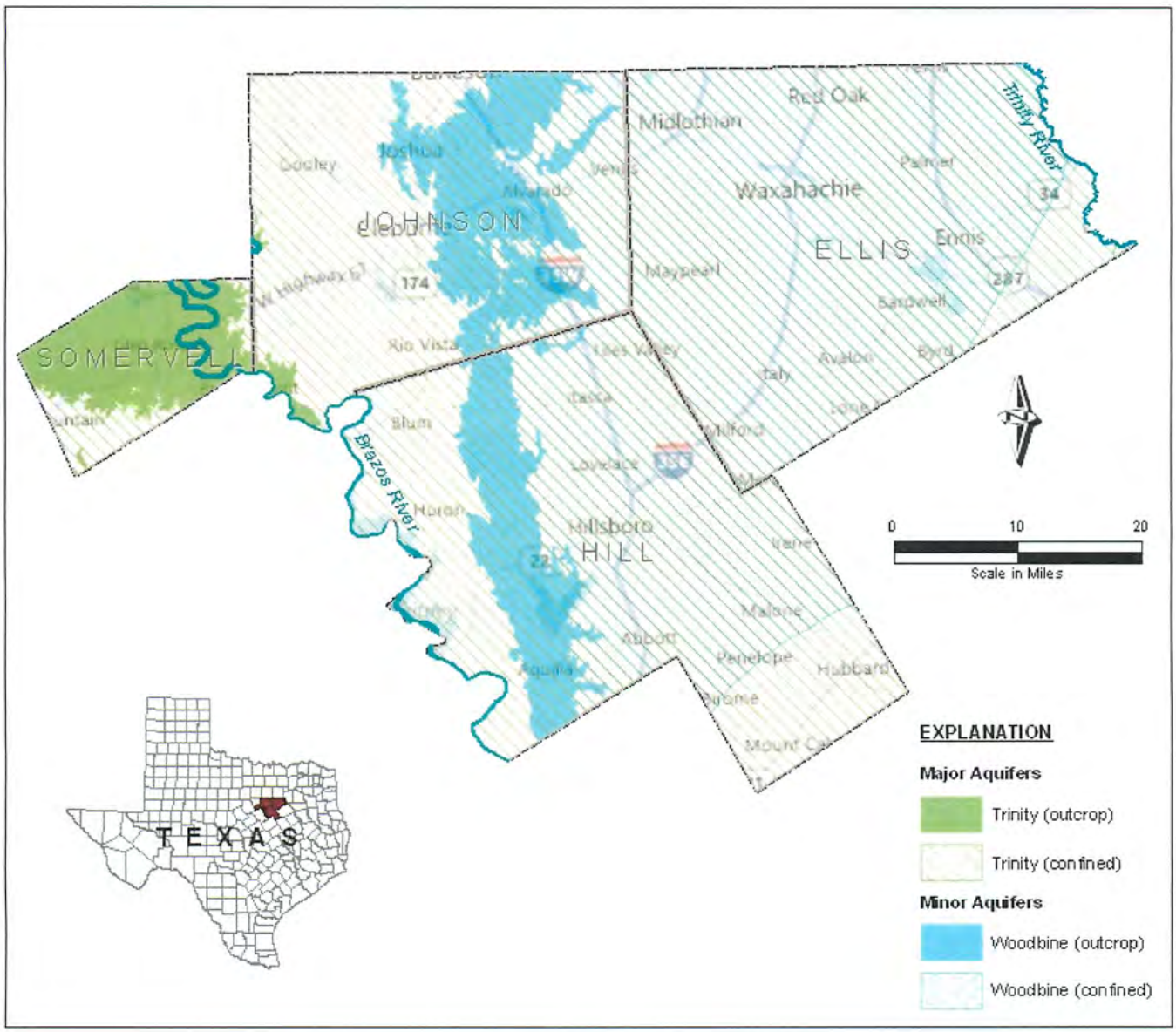

Figure 1. Prairielands Groundwater Conservation District Location Map

E. Topography and Drainage

The District is located within the Brazos and Trinity River Basins. Runoff on the west side of the District flows primarily west to the Brazos River, and runoff on the east side of the District drains primarily to the east to the Trinity River. Elevations in the District range from approximately 400 to 1,000 ft. amsl and the physiography consists primarily of gently rolling prairieland, woodlands and wooded bottomlands in the river valleys.

F. Groundwater Resources of Ellis, Hill, Johnson and Somervell Counties

A map showing the extent of the aquifers in the District is included as Figure 1. Cross sections through both the Woodbine and Trinity aquifers are included as Figures 2 and 3.

The Trinity aquifer consists of early Cretaceous age formations of the Trinity Group where they occur in a band extending through the central part of the state in all or parts of 55 counties, from the Red River in North Texas to the Hill Country of South-Central Texas. Trinity Group deposits also occur in the Panhandle and Edwards Plateau regions where they are included as part of the Edwards-Trinity (High Plains and Plateau) aquifers.

Formations comprising the Trinity Group are (from youngest to oldest) the Paluxy, Glen Rose, and Twin Mountains-Travis Peak. Updip, where the Glen Rose thins or is missing, the Paluxy and Twin Mountains coalesce to form the Antlers Formation. The Antlers consists of up to 900 feet of sand and gravel, with clay beds in the middle section. Water from the Antlers is mainly used for irrigation in the outcrop area of North and Central Texas. Forming the upper unit of the Trinity Group, the Paluxy Formation consists of up to 400 feet of predominantly fine-to-coarse-gained sand interbedded with clay and shale. The formation pinches out downdip and does not occur south of the Colorado River.

Underlying the Paluxy, the Glen Rose Formation forms a gulfward-thickening wedge of marine carbonates consisting primarily of limestone. South of the Colorado River, the Glen Rose is the upper unit of the Trinity Group and is divisible into an upper and lower member. In the north, the downdip portion of the aquifer becomes highly mineralized and is a source of contamination to wells that are drilled into the underlying Twin Mountains.

The basal unit of the Trinity Group consists of the Twin Mountains and Travis Peak formations, which are laterally separated by a facies change. To the north, the Twin Mountains formation consists mainly of medium- to coarse-grained sands, silty clays, and conglomerates. The Twin Mountains is the most prolific of the Trinity aquifers in North-Central Texas; however, the quality of the water is generally not as good as that from the Paluxy or Antlers Formations. To the south, the Travis Peak Formation contains calcareous sands and silts, conglomerates, and limestones. The formation is subdivided into the following members in descending order: Hensell, Pearsall, Cow Creek, Hammett, Sligo, Hosston, and Sycamore.

Extensive development of the Trinity aquifer has occurred in the Fort Worth- Dallas region where water levels have historically dropped as much as 550 feet. Since the mid-1970s, many public supply entities have inactivated wells and shifted to surface water supplies, and water levels in some areas have responded with slight rises. Water-level declines are still occurring in areas. The Trinity aquifer is most extensively developed from the Hensell and Hosston members in the Waco area, where the water level has declined by as much as 400 feet.

The Woodbine aquifer extends from McLennan County in North-Central Texas northward to Cooke County and eastward to Red River County, paralleling the Red River. Groundwater produced from the aquifer furnishes municipal, industrial, domestic, livestock, and small irrigation supplies throughout its North Texas extent. The Woodbine Formation is composed of water-bearing sandstone beds interbedded with shale and clay. The aquifer dips eastward into the subsurface where it reaches a

maximum depth of 2,500 feet below land surface and a maximum thickness of approximately 700 feet.

The Woodbine aquifer is divided into three water-bearing zones that differ considerably in productivity and quality. Only the lower two zones of the aquifer are developed to supply water for domestic and municipal uses. Chemical quality deteriorates rapidly in well depths below 1,500 feet. In areas between the outcrop and this depth, quality is considered good overall as long as ground water from the upper Woodbine is sealed off. The upper Woodbine contains water of extremely poor quality in downdip locales and contains excessive iron concentrations along the outcrop.

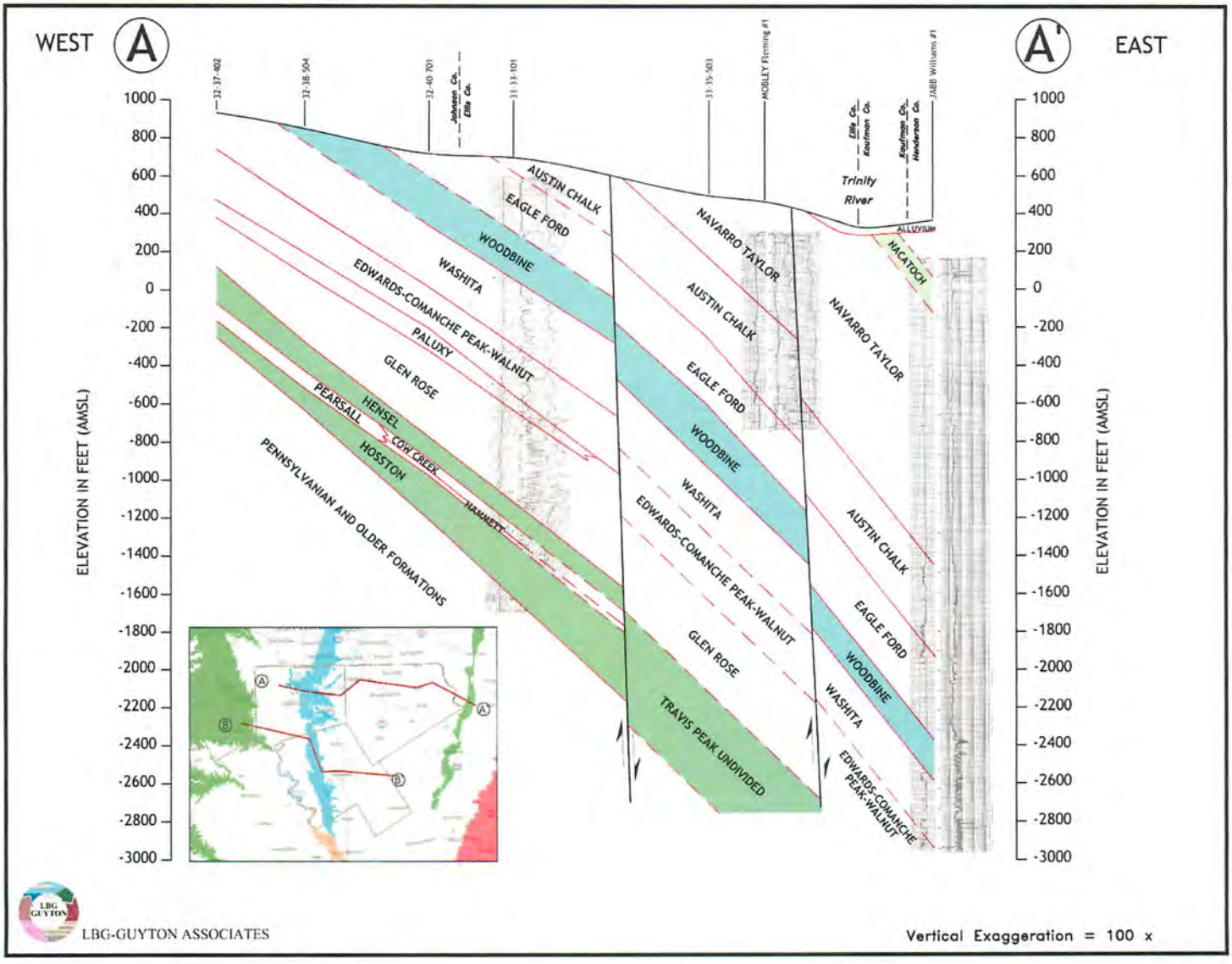

Figure 2. Cross section A-A' through the Trinity and Woodbine aquifers.

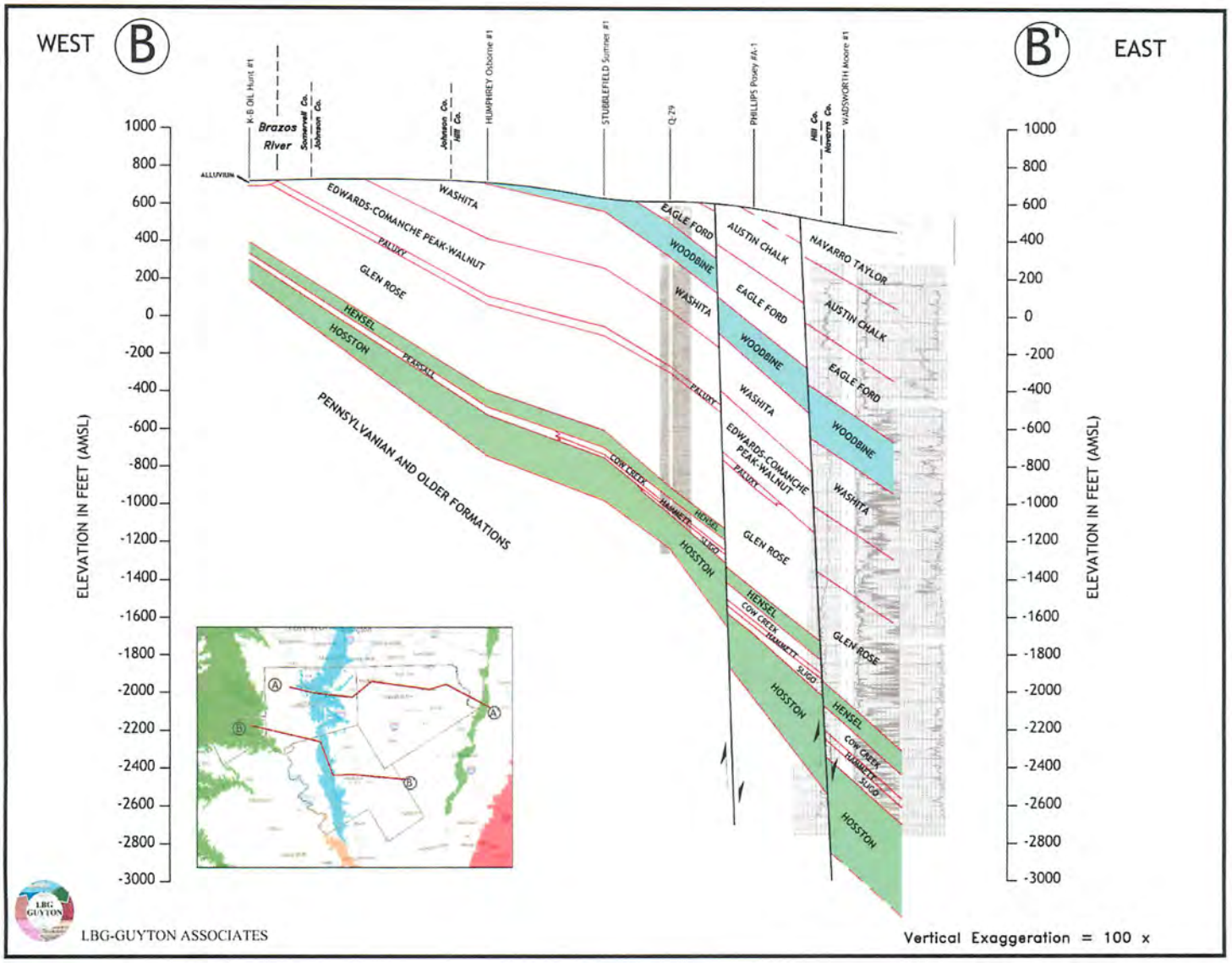

Figure 3. Cross section B-B' through the Trinity and Woodbine aquifers.

IV. STATEMENT OF GUIDING PRINCIPLES

The District is committed to manage and protect the groundwater resources within its jurisdiction and to work with others to ensure a sustainable, adequate, high quality and cost-effective supply of water, now and in the future. The District will strive to develop, promote, and implement water conservation, augmentation, and management strategies to protect water resources for the benefit of the citizens, economy and environment of the District. The preservation of this valuable resource can be managed in a prudent and cost effective manner through conservation, education, and appropriate rules. Any action taken by the District shall only be after full consideration and respect has been afforded to the individual property rights of all citizens of the District.

V. CRITERIA FOR PLAN CERTIFICATION

A. Planning Horizon

The time period for this plan is five years from the date of approval by the Texas Water Development Board ("TWDB"). This plan will be reviewed and readopted with or without amendments at least once every five years, or more frequently if deemed necessary or appropriate by the District Board. This management plan will remain in effect until it is replaced by a revised management plan approved by the TWDB.

B. Board Resolution

A certified copy of the Prairielands Groundwater Conservation District resolution adopting the plan is located in Appendix A – District Resolution.

C. Plan Adoption

Public notices documenting that the plan was adopted following appropriate public meetings and hearings are located in Appendix B – Notice of Meetings.

D. Coordination with Surface Management Entities

A template letter transmitting copies of this plan to the surface water management entities in the District along with a list of the surface water management entities to which the plan was sent are located in Appendix C – Letters to Surface Water Management Entities.

VI. ESTIMATES OF TECHNICAL INFORMATION

A. Modeled Available Groundwater based on the Desired Future Conditions

The amount of water that may be permitted from an aquifer is not the same amount as the total amount that can be pumped from an aquifer. Total pumping includes uses of water both subject to permitting and exempt from permitting ("exempt use"). Examples of exempt use include: domestic, livestock, and some types of water use associated with oil and gas exploration.

The desired future conditions (DFCs) of the aquifer are determined through joint planning with other groundwater conservation districts (GCDs) in the same groundwater management area (GMA) as required by the 79th legislature with the passage of HB 1763 into law. The Prairielands Groundwater Conservation District is located in GMA 8. The GCDs of GMA 8 have completed the initial establishment of desired future conditions of the aquifers in the GMA through the joint planning process.

To determine the DFCs, a series of simulations using the TWDB's Groundwater Availability Model (GAM) for the Northern Trinity and Woodbine aquifers were completed. Each GAM simulation was done by iteratively applying various amounts of simulated groundwater pumping from the aquifer over a predictive period that included a simulated repeat of the drought of record. Pumping was increased until the amount of pumping that could be sustained by the aquifer without impairing the aquifer conditions selected for consideration as the indicator of the aquifer desired future condition was identified.

There are three subdivisions in the Trinity aquifer – the Upper, Middle and Lower. In the Prairielands District, the geologic units comprising the Trinity are: The Paluxy Sand, the Glen Rose Limestone, the Hensell Sand and the Hosston Conglomerate of the Travis Peak Formation. The desired future conditions of the Northern Trinity aquifer in GMA 8 are documented in Table 1 of GAM Run 10-063-MAG, which is included as Appendix D. The DFCs are based on average drawdown in feet after 50 years from the year 2000 for each of the following Trinity aquifer units: Paluxy (Upper Trinity), Glen Rose (Upper Trinity), Hensell (Middle Trinity) and the Hosston (Lower Trinity). DFCs for the Woodbine aquifer are documented in Table 1 of GAM Run 08-14-MAG, which is included as Appendix E.

B. Amount of Groundwater Being Used Within the District

Each year the TWDB conducts an annual survey of ground and surface water use by municipal and industrial entities within the state of Texas. The information obtained is then utilized by the TWDB for water resources planning. The historical water use estimates are subject to revision as additional data and corrections are made available to the TWDB.

The amount of groundwater used in Ellis, Hill, Johnson and Somervell Counties in the years 1974, 1980 and 1984 through 2008 is presented in Appendix F. TWDB data included in Appendix F do not differentiate between exempt and non-exempt use.

C. Annual Amount of Recharge from Precipitation

Recharge from precipitation falling on the outcrop of the aquifer (where the aquifer is exposed to the surface) within the Prairielands GCD was estimated by the TWDB in the GAM Run 11-004 dated September 26, 2011. Water budget values of recharge extracted for the transient model period indicate that precipitation accounts for 11,748 acre-feet per year of recharge to the Trinity aquifer and 28,766 acre-feet per year of recharge to the Woodbine aquifer within the boundaries of the

Prairielands GCD (Appendix G). The model assumes average rainfall as measured during the calibration and verification time period (years 1980 through 1999).

D. Annual Volume of Discharge from the Aquifer to Springs and Surface Water Bodies

The total water discharged from the aquifer to surface water features such as streams, reservoirs and springs is defined as the surface water outflow. Water budget values of surface water outflow within the Prairielands GCD were estimated by the TWDB in the GAM Run 11-004 (Appendix G). Values from the transient model period (years 1980 through 1999) are 3,912 acre-feet per year of discharge from the Trinity aquifer and 3,618 acre-feet per year of discharge from the Woodbine aquifer to surface water bodies that are located within the Prairielands GCD.

E. Annual Volume of Flow into and out of the District within Each Aquifer and between Aquifers in the District

Flow into and out of the District is defined as the lateral flow within an aquifer between the District and adjacent counties. Flow between aquifers is defined as the vertical flow between aquifers or confining units that occurs within the boundaries of the District. The flow is controlled by hydrologic properties as well as relative water levels in the aquifers and confining units. Water budget values of flow for the Prairielands GCD were estimated by the TWDB in the GAM Run 11-004 (Appendix G). Values extracted from the transient model period represent the model's calibration and verification time period (years 1980 through 1999).

F. Projected Surface Water Supply in the District

The 2012 Texas State Water Plan, the most recent plan available, provides an estimate of projected surface water supplies in Ellis, Hill, Johnson and Somervell counties. These estimates are included in Appendix F.

G. Projected Total Demand for Water in the District

Appendix F contains an estimate of projected net water demand in Ellis, Hill, Johnson and Somervell counties based on the 2012 Texas State Water Plan.

VII. WATER SUPPLY NEEDS AND WATER MANAGEMENT STRATEGIES INCLUDED IN THE ADOPTED STATE WATER PLAN

A. Projected Water Supply Needs

Projected water needs for the counties in the District were developed for the 2012 State Water Plan. Those needs reflect conditions when projected water demands exceed projected water supplies in the event of a drought of record. Projected water needs were estimated on the county-basin level for all water user group categories for every decade from 2010 through 2060. Appendix F lists the total water supply needs for Ellis, Hill, Johnson and Somervell counties as adopted in the TWDB 2012 State Water Plan.

B. Water Management Strategies

The 2012 State Water Plan assessed and recommended water management strategies to meet the identified needs for every decade from 2010 through 2060. Potential strategies include water conservation, developing additional groundwater and surface water supplies, expanding and improving management of existing water supplies, water reuse, and alternative approaches such as desalination. The projected water management strategies for the counties in the District from the 2012 State Water Plan are shown in Appendix F by water user group ("WUG").

VIII. DISTRICT MANAGEMENT OF GROUNDWATER

The Texas Legislature has declared in Chapter 36 of the Texas Water Code that groundwater conservation districts (GCDs) are the state's preferred method of groundwater management and that GCDs will manage groundwater resources through management plans and rules that they develop and implement. Chapter 36 gives directives to GCDs and the statutory authority to carry out such directives, so that GCDs are provided the proper tools to protect and manage the groundwater resources within their boundaries.

However, groundwater management cannot go from zero to full implementation overnight. The citizens, businesses, and water suppliers of the District have been pumping groundwater unrestricted under the rule of capture for over a century. While the District is fully cognizant of the severe impacts that this unbridled pumping has caused to the aquifers in the District, which have among the greatest declines in water levels of any area of the state of Texas, the District Board does not wish to rush in and try to solve the problem in haste. The impacts of a groundwater management system are too important and can have too many far-reaching impacts to the citizens and local and regional economies to be approached in any way other than a careful, well-analyzed approach that is based upon sound science and a thorough understanding of the nature of the groundwater resources in the District.

In that regard, the District's initial efforts in its early years have been focused on getting organized, assembling a management structure and administrative staff, retaining well-qualified technical and legal consultants to provide it with sound advice, and beginning to gather data on groundwater use and the nature, location, extent, and hydraulic properties of the various layers of the aquifers that are located within its boundaries. The District has adopted temporary rules that will allow it to gather information on groundwater production throughout the District through a well registration program, and metering and production reporting requirements for non-exempt wells. The District has also constructed a geodatabase to serve as a repository for that information. The District has also commissioned studies to map, characterize, and model the groundwater resources within its boundaries. This approach is largely reflected in the "Goals, Management Objectives, and Performance Standards" section of this management plan, as well in the meeting minutes and other records of the District.

Simply stated, the legal framework in which the District must manage the groundwater resources within its boundaries is as follows: establishing desired future conditions (DFCs) for the aquifers through the joint planning process with other groundwater conservation districts located in Groundwater Management Area 8 and then adopting and enforcing rules to manage groundwater resources in a manner that will achieve those DFCs. Failure to do so, as expressly stated in Chapter 36, Texas Water Code, can lead to management of the resource through orders and actions by the Texas Commission on Environmental Quality (TCEQ). The District Board has no desire to take any course of action that will open the door to groundwater regulatory action by the TCEQ. Yet, once again, managing the groundwater resources in a responsible manner that will achieve DFCs necessarily implies that it will take several years to get to a point where sound permanent rules can be developed.

The District was created in 2009. Prairielands GCD had no hand whatsoever in the initial adoption of the inaugural round of DFCs for the aquifers in its boundaries, which were developed and adopted by the other existing districts in GMA 8 in 2008. There were a number of newly created districts in GMA 8 in a similar situation, having been created late in the inaugural round of DFC development with either little or no opportunity for any input in the DFCs they would be expected to implement. Those inaugural desired future conditions were re-adopted verbatim by the districts in GMA 8 in early 2011 for the sole purpose of extending the time by which they must be formally re-adopted under state law, thus allowing the District and other interested districts in GMA 8 a new five-year period in which to gather the appropriate data and science to develop and adopt DFCs that are applicable to them and that they are expected to achieve through rules implementation. The District realizes that the five-year period presents it with a unique opportunity to develop DFCs in which it can have confidence, and it intends to use the time wisely.

Once the DFCs are adopted at the end of the five-year period, the District will turn to the important and arduous task of developing permanent rules to achieve them. Because of the District's diverse population and land use portfolio and its location on the periphery of the Dallas-Fort Worth Metroplex, it is expected that development of its regulatory approach and permanent rules will be an extremely complex process involving numerous stakeholders. As set forth in the management goals, the District intends that this be accomplished by 2022.

The District seeks to understand just how much pumping can be sustained by each layer of each aquifer on a long-term basis so that the production from each resource can be maximized, but in a manner that is also sustainable on a long-term basis—without going into a scenario of overproduction that ultimately results in the depletion of the resource. The District has already commissioned the aquifer characterization and modeling studies to try to get a good handle on that information. The District is also determined to successfully tackle the difficult task of managing the groundwater resources in a manner that will be protective of private property rights in the region, including protecting the investments of both existing well owners and other property owners.

In addition to obvious threats to the long-term viability of the aquifers and property values in the District from long-term overpumping, the District is also concerned about protecting the limited available groundwater resources from other threats, such as contamination, that may render the supplies unusable. In that regard, the District is particularly concerned with potential impacts of oil and gas development activities on groundwater resources, especially including both the localized and cumulative impacts from injection well waste disposal activities, and the future implications of those activities to both freshwater and brackish groundwater supplies in the District. The District Board is very supportive of the exploration and development of domestic energy supplies. At the same time, however, there are a large number of operators in both the resource development and waste injection markets with varying levels of sophistication, and state agencies are too understaffed to meaningfully and thoroughly evaluate and track all proposed and ongoing projects. The District Board wishes to do its part to monitor these projects within its boundaries to ensure that practices being used by the operators located within its boundaries will not threaten the long-time viability of freshwater and brackish groundwater resources as water supplies.

The District is committed to undertake the important and complex task it has been given to manage, conserve, and protect the groundwater resources of the region so that they are viable sources of supply both now and for future generations. In doing so, the District Board intends to rely upon the best information and science available to it and to act reasonably and prudently in everything it does.

IX. ACTIONS, PROCEDURES, PERFORMANCE AND AVOIDANCE FOR PLAN IMPLEMENTATION

In order to implement the management plan, the District continually works to develop, maintain, review, and update the District's rules and procedures for the various activities contained in the management plan. In order to monitor performance: (a) the General Manager routinely meets with staff to track progress on the various objectives and standards adopted in this management plan, and (b) on an annual basis, staff prepares and submits an annual report documenting progress made towards implementation of the management plan to the Board for its review and approval.

The District will work diligently to ensure that all landowners and groundwater users within the District's jurisdictional boundaries are treated as equitably as possible. The District, as needed, will work of federal, state, regional, and local water management entities in the implementation of this management plan and management of groundwater supplies. The District will continue to enforce its rules to conserve, preserve, protect, and prevent the waste of groundwater resources within its jurisdiction. Texas Water Code Chapter 36.1071(a) (1-9) requires that all management plans address the following management goals, as applicable:

- providing the most efficient use of groundwater;
- controlling and preventing waste of groundwater;
- controlling and preventing subsidence;

- conjunctive surface water management issues;
- natural resource issues;
- drought conditions;
- conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, or brush control, where appropriate and cost-effective; and
- desired future conditions of the groundwater resources in a quantitative manner.

The following management goals, management objectives, and performance standards have been developed and adopted to ensure the management and conservation of groundwater resources within the District's jurisdiction.

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40e
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X. METHODOLOGY FOR TRACKING DISTRICT PROGRESS IN ACHIEVING MANAGEMENT GOALS

The District's General Manager and staff will prepare an annual report ("Annual Report") and will submit the Annual Report to members of the Board of the District. The Annual Report covers the activities of the District including information on the District's performance in regards to achieving the District's management goals and objectives. The Annual Report will be delivered to the Board within 120 days following the completion of the District's fiscal year, beginning with the fiscal year 2013. A copy of the Annual Report will be kept on file and available for public inspection at the District's offices upon approval by the Board.

XI. GOALS, MANAGEMENT OBJECTIVES AND PERFORMANCE STANDARDS

A. Providing the most efficient use of groundwater

The Board of Directors and staff work to assist water users in protecting, preserving, and conserving groundwater resources. The Board strives to use scientific data and logical methods to make decisions that allow for reasonable groundwater use. The Board determines what programs and activities that the staff and contractors will undertake to best implement water conservation and management services to the District. District rules will be developed to protect the quantity and quality of the groundwater and to prevent the waste of groundwater.

Management Objective 1

The District will require that all wells be registered in accordance with its rules.

Performance Standard

Each year the staff will report well registration statistics. A summary of registration activity by county and by aquifer will be included in the District's Annual Report.

Management Objective 2

Each year the District will monitor annual production from all non-exempt wells within the District. The District will compile records and develop a database of non-exempt wells to help assess the aquifer units from which groundwater production occurs.

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Performance Standard

The District will require installation of meters on all non-exempt wells and reporting of production to the District.

Management Objective 3

The District will compile records and develop a database of non-exempt wells to help assess in which aquifer units groundwater production occurs.

Performance Standard

The District will require installation of meters on all non-exempt wells and reporting of production to the District. The annual production of groundwater from non-exempt wells will be included in the Annual Report provided to the Board of Directors.

Management Objective 4

The District will develop a methodology to quantify current and projected annual groundwater production from exempt wells.

Performance Standard

The District will provide the TWDB with its methodology and estimates of current and projected annual groundwater production from exempt wells. The District will also utilize the information in the future in developing and achieving desired future conditions and in developing and implementing its production allocation and permitting system and rules. Information related to implementation of this objective will be included in the Annual Report to the Board of Directors.

B. Controlling and preventing waste of groundwater

Management Objective 1

Each year the District will monitor annual production from all non-exempt wells within the District.

Performance Standard

The District will require installation of meters on all non-exempt wells and reporting of production to the District. The annual production of groundwater from non-exempt wells will be included in the Annual Report provided to the Board of Directors.

Management Objective 2

The District will encourage the elimination and reduction of groundwater waste through the collection of a water use fee for non-exempt wells within the District.

Performance Standard

Annual reporting of the total groundwater used and total water use fees paid by non-exempt wells will be included in the Annual Report provided to the Board of Directors.

Management Objective 3

District will identify well owners that are not in compliance with District well registration, reporting, and fee payment requirements, and bring them into compliance.

Performance Standard

District will compare existing state records and field staff observations with the well registration database to identify noncompliant well owners.

Management Objective 4

The District will investigate instances of potential waste of groundwater.

Performance Standard

Report to the Board as needed and include the number of investigations in the Annual Report.

C. Addressing conjunctive surface water management issues

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Management Objective 1

The District will actively participate in the Region C and Region G regional water planning processes to stay abreast of water demand projections and supply strategies in the District and to coordinate the District's groundwater management strategies with the regional water planning groups and foster an understanding of regional management practices.

Performance Standard

The District will review the most recently approved State Water Plan to gain an understanding of water demand projections and supply strategies in the District. The District will monitor future proposed amendments to the Region C and Region G regional water plans as they pertain to the District and insure that supply strategies impacting groundwater resources in the District are identified in the appropriate regional water plan. The District's General Manager or designated representative will attend meetings of the Region C and Region G regional water planning groups when feasible. A summary of the District's interactions with the regional water planning groups will be included in the Annual Report provided to the Board of Directors.

Management Objective 2

The District will: 1) seek to better understand groundwater and surface water interactions, including groundwater base flow discharges to surface water courses and aquifer recharge from surface water flows; 2) identify existing and planned surface water and other alternative supplies to meet anticipated demand growth; 3) explore possible groundwater to surface water conversions in the District and facilitate the process, and 4) understand current and planned surface water supplies and how they affect groundwater demands.

Performance Standard

A summary of the progress and interaction with RWPGs will be included in each Annual Report.

D. Addressing natural resource issues that impact the use and availability of groundwater and which are impacted by the use of groundwater

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Management Objective 1

The District will develop a program to monitor and assess injection well activities in the District.

Performance Standard

The District will monitor and review injection well applications filed with the Railroad Commission of Texas and the Texas Commission on Environmental Quality that propose injection wells to be located within the boundaries of the District to identify contamination threats to groundwater resources in the District. The General Manager will bring to the attention of the Board any applications that the

General Manager determines in his discretion threaten the groundwater resources in the District and any outcomes of actions taken by the District. A summary of District's injection well monitoring activities and actions taken by the District will be included in each Annual Report.

Management Objective 2

The District will monitor compliance by oil and gas companies of the well registration, metering, production reporting, and fee payment requirements of the District's rules.

Performance Standard

As with other types of wells, instances of non-compliance by owners and operators of water wells for oil and gas activities will be reported to the Board of Directors as appropriate for enforcement action. A summary of such enforcement activities will be included in the Annual Report.

E. Addressing drought conditions

Management Objective 1

Monthly review of drought conditions within the District using the Texas Water Development Board's Monthly Drought Conditions available at:
http://www.twdb.state.tx.us/data/DROUGHT/drought_toc.asp

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Performance Standard

An annual review of drought conditions within the District will be included in the Annual Report provided to the Board of Directors. Reports will be provided more frequently to the Board as deemed appropriate by the General Manager to timely respond to drought conditions as they occur.

Management Objective 2

The District will develop information to understand the relationships between drought conditions, increased pumping, and the impacts of both on water levels and shallow wells in the outcrops and subcrops of the aquifer subdivisions in the District. Determine areas where it may be suitable for the District to implement pumping restrictions during drought times in order to protect public safety and welfare, as well as areas in which the District may wish to allow overpumping during drought periods to promote conjunctive management when surface water supplies become unavailable to water user groups due to drought conditions.

Performance Standard

Monitor and assess drought impacts on aquifer outcrops and subcrops, including effects of increased pumping. By 2022, the District will complete studies and rules and regulatory plan development for drought pumping restrictions or overpumping allowables.

F. Where appropriate and cost effective address conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, and brush control

39a 41e 42e

Management Objective 1

The District will annually submit at least one article regarding water conservation, rain water harvesting, or brush control for publication to at least one newspaper of general circulation in the District counties.

Performance Standard

Each year, a copy of each conservation article will be included in the District's Annual Report to be given to the District's Board of Directors.

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Management Objective 2

Each year, the District will include at least one informative flier on water conservation, rain water harvesting, or brush control within at least one mail out to groundwater non-exempt water users distributed in the normal course of business for the District. The District will also consider additional fliers or initiating other public awareness campaigns and outreach efforts on water conservation during drought conditions.

Performance Standard

Each year, a copy of each mail-out flyer and a summary of all other public awareness water conservation campaigns and outreach efforts will be included in the District's Annual Report to be given to the District's Board of Directors.

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Management Objective 3

The District will investigate the feasibility of recharge enhancement and aquifer storage and recovery projects in the District.

Performance Standard

By 2022, the District will complete studies and an initial assessment regarding the feasibility of recharge enhancement and aquifer storage and recovery projects in the District.

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Management Objective 4

The District will periodically support or sponsor an education seminar addressing conservation, recharge enhancement, rainwater harvesting, precipitation enhancement, or brush control.

Performance Standard

The District shall support or sponsor such a seminar at least once every other year. A summary of such educational activities will be included in the District's Annual Report.

39a 41a 42a

Management Objective 4

Each year, the District will seek to provide an educational outreach regarding water conservation to at least one elementary school in each county of the district.

Performance Standard

Each year, a list of schools that participate in the educational outreach will be included in the District's Annual Report to be given to the District's Board of Directors.

43
45
46

G. Addressing the desired future conditions adopted by the district under TWC §36.108; TWC §36.1071(a)(8)

Management Objective 1

The District will develop a Groundwater Monitoring Program within the District to monitor water well levels (and baseline water quality) in wells in each aquifer and subdivision thereof in the District. The District will review the geographic and vertical distribution of existing monitoring wells in the District with historical data from the TWDB, USGS, TCEQ, and other agencies and develop a plan to partner with those agencies as appropriate to ensure continued availability of the monitoring wells and data from them to the District. The District will also develop a plan to acquire or install new monitoring wells to fill in gaps in geographic or vertical distribution. The District will then develop an annual goal of how many monitoring wells it will add each year and a priority system for their installation based upon data deficiencies and needs for the geodatabase. The District will take periodic readings from the monitoring wells and input the data into the District's geodatabase. The District will utilize the information to help implement its regulatory and permitting program and monitor water level trends and actual achievement of DFCs.

Performance Standard

Upon development, a summary of the District Groundwater Monitoring Program will be included in the District's Annual Report to be given to the District's Board of Directors.

Management Objective 2

Upon approval of the District Monitoring Program – conduct water level measurements as specified in the Monitoring Program within the District.

Performance Standard

Annual evaluation of water-level trends and the adequacy of the monitoring network to monitor aquifer conditions within the District and to monitor achievement of applicable desired future conditions. The evaluation will be included in the District's Annual Report to be given to the District's Board of Directors.

Management Objective 3

Monitor non-exempt pumping within the District for use in evaluating District compliance with aquifer desired future conditions.

Performance Standard

Annual reporting of groundwater used by non-exempt wells will be included in the Annual Report provided to the District's Board of Directors.

Management Objective 4

Develop permanent rules including a water well permitting and groundwater allocation system that will achieve the desired future conditions of the aquifers in the District. In doing so, the District will strive to protect private property rights, including investments by existing well owners.

Performance Standard

By 2022, the District will develop and adopt permanent rules that will achieve the desired future conditions of the aquifers in the District.

XII. MANAGEMENT GOALS DETERMINED NON-APPLICABLE TO THE DISTRICT

Controlling and preventing subsidence

This management goal is not relevant due to the compacted geologic units in the District.

23

Appendix A

District Resolution

RESOLUTION TO ADOPT DISTRICT MANAGEMENT PLAN

11

THE STATE OF TEXAS §
§
PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT §

WHEREAS, Prairielands Groundwater Conservation District (the "District") was created as a groundwater conservation district by the 81st Texas Legislature under the authority of article XVI, Section 59, of the Texas Constitution, and in accordance with Chapter 36 of the Texas Water Code by the Act of May 31, 2009, 81st Leg., R.S., ch. 1208, 2009 Tex. Gen. Laws 3859, codified as Chapter 8855 of the Texas Special District Local Laws Code (the "District Act");

WHEREAS, under the direction of the Board of Directors of the District (the "Board"), and in accordance with Sections 36.1071, 36.1072, and 36.108 of the Texas Water Code, and 31 Texas Administrative Code Chapter 356, the District has undertaken the development of its Management Plan;

WHEREAS, Section 36.1085 of the Texas Water Code requires the District to ensure that its Management Plan contains the goals and objectives consistent with achieving the Desired Future Conditions ("DFCs") adopted through the joint planning process set forth in Chapter 36 of the Texas Water Code;

WHEREAS, Section 36.1071(a) requires the District, after notice and hearing, to develop a comprehensive Management Plan which addresses certain management goals;

WHEREAS, as part of the process of developing its Management Plan, the District requested and received the assistance of the Texas Water Development Board (the "TWDB") and worked closely with the TWDB staff to obtain staff's input and comments on the draft Management Plan and its technical and legal sufficiency;

WHEREAS, the Board, District staff, and the District's hydrogeologist have reviewed and analyzed the District's best available data, groundwater availability modeling information, and other information and data required by the TWDB;

WHEREAS, the District issued the notice in the manner required by state law and held a public hearing on May 21, 2012, at 9:30 a.m. in Cleburne, Texas, to receive public and written comments on the Management Plan;

WHEREAS, the District coordinated its planning efforts on a regional basis with the appropriate surface water management entities during the preparation of the Management Plan;

WHEREAS, the Board finds that the Management Plan meets all of the requirements of Chapter 36, Water Code, and 31 Texas Administrative Code Chapter 356; and

WHEREAS, after the public hearing, the Board of Directors met in a regular board meeting on May 21, 2012, properly noticed in accordance with state law, and considered adoption of the

attached Management Plan and approval of this resolution after due consideration of all comments received.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT AS FOLLOWS:

1. The above recitals are true and correct;

2. The Board of Directors of the District hereby adopts the attached Management Plan as the Management Plan for the District;

3. The Board President and the General Manager of the District, the District's legal counsel, and the District's hydrogeologist are further authorized to take all steps necessary to implement this resolution, including making any corrections to the plan authorized by the Board of Directors, and submit the Management Plan to the TWDB for its approval; and

4. The Board President and the General Manager of the District, the District's legal counsel, and the District's hydrogeologist are further authorized to take any and all action necessary to coordinate with the TWDB as may be required in furtherance of TWDB's approval pursuant to the provisions of Section 36.1072 of the Texas Water Code.

AND IT IS SO ORDERED.

PASSED AND ADOPTED on this 21st day of May, 2012.

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

By: _____
President

_____
Secretary

Appendix B

Notice of Meetings

12

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
NOTICE OF HEARING ON DISTRICT MANAGEMENT PLAN
MAY 21, 2012

NOTICE IS HEREBY GIVEN to all interested persons within Ellis, Hill, Johnson, and Somervell Counties, Texas:

That the Board of Directors of the Prairielands Groundwater Conservation District ("District") will hold a public hearing to discuss, consider, receive public comments, and potentially act upon adoption of the District Management Plan. All interested members of the public are invited to attend.

The hearing on the Management Plan will be held on Monday, May 21, 2012, beginning at 9:30 a.m. at the Cross Timbers Branch Room of the Cleburne Conference Center at 1501 West Henderson Street, Cleburne, Texas 76033. At the conclusion of the hearing or any time or date thereafter, the proposed Management Plan may be adopted in the form presented or as amended based upon comments received from the public, the Texas Water Development Board, District staff, attorneys, consultants, or members of the Board of Directors without any additional notice.

Any person who desires to appear at the hearing and present comment or other information on the proposed Management Plan may do so in person, by legal representative, or both. Limits may be placed on the amount of time that each person is allowed to present verbal comments. In addition, persons interested in submitting written comments on the proposed Management Plan may do so by sending any such comments to the Prairielands Groundwater Conservation District, P.O. Box 3128, Cleburne, Texas 76033. The hearing posted in this notice may be recessed from day to day or continued where appropriate.

At any time during the hearing and in compliance with Chapter 551, Government Code, the District Board may meet in executive session on the above hearing item for consultation concerning attorney-client matters. Any subject discussed in executive session may be subject to action during an open session of the District Board.

The District is committed to compliance with the Americans with Disabilities Act (ADA). Any person with a disability who needs special accommodations should contact Sandy Rodgers at (817) 556-2299 at least 24 hours in advance if accommodation is needed.

A copy of the proposed Management Plan may be requested by email at sandyrodgers@prairielandsgcd.org, is available at the District's website at www.prairielandsgcd.org/, and may be reviewed or copied at 205 South Caddo Street, Cleburne, Texas 76033. Any person who wishes to receive more detailed information on this notice should contact the District's General Manager, Joshua Grimes, at (817) 556-2299.

POSTED
_____ A.M. 2:01 P.M.
APR 26 2012
Becky Williams
County Clerk, Johnson County Texas
BY _____ DEPUTY

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
NOTICE OF HEARING ON DISTRICT MANAGEMENT PLAN
MAY 21, 2012

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
NOTICE OF HEARING ON DISTRICT MANAGEMENT PLAN
MAY 21, 2012

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FILED
CANDACE GARRETT
COUNTY/DISTRICT CLERK
SOMERVELL CO., TEXAS
2012 APR 26 AM 10:47
DEPUTY

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
NOTICE OF HEARING ON DISTRICT MANAGEMENT PLAN
MAY 21, 2012

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POSTED
DATE 4/26/12
11:15 A.M. ____ P.M.
Candace Garrett
BY ____ DEPUTY

PUBLISHER'S AFFIDAVIT

STATE OF TEXAS
COUNTY OF ELLIS

Before me, the undersigned authority in and for said State and County, on this day personally appeared Jennifer Henderson to me known, who, after being by me first duly sworn, on oath, says: that she is Clerk of the Waxahachie Daily Light which is a newspaper of general circulation, published in the City of Waxahachie, in Ellis County, Texas, and which has been continuously and regularly published therein for a period of more than one year next before the first publication of the attached writ and notice; that the said writ and notice was printed and published in said newspaper once each consecutive week for the period of time required, and on the following dates:

4-26, 2012 as appeared from a copy thereof attached.

Witness my hand this 14 day of May 2012

Jennifer Henderson

Subscribed and sworn to before me this 14 day of May 2012

Notary Public in and for Ellis County, Texas

Printer's Fee $_____

SHARON REXRODE
Notary Public, State of Texas
My Commission Expires
December 13, 2012

RECEIVED
5-16-12

AFFIDAVIT OF PUBLICATION:

STATE OF TEXAS

COUNTY OF HILL

The undersigned having been duly sworn, deposes and says that he is publisher of The Reporter Newspaper which has general circulation in Hill County, Texas. He further states that the attached legal notice appeared in The Reporter Newspaper on the following dates:

April 26, 2012

By _____
Publisher

Subscribed and sworn to before me, this 26th day of June, 2012.

JUDY BAILEY
NOTARY PUBLIC
STATE OF TEXAS
My Commission Expires 02-13-2013

Judy Bailey
Notary Public, Hill County, Texas
My commission expires 2-13-2013

Cleburne Times-Review
www.cleburnetimesreview.com
108 South Anglin
P.O. Box 1569
Cleburne, Texas, 76033
817-645-2441

PUBLISHER'S AFFIDAVIT

STATE OF TEXAS
COUNTY OF JOHNSON

Before me on this day personally appeared Kay Helms the Publisher of the Cleburne Times-Review, which is a newspaper of general circulation in Johnson County, Texas. The said ad or notice was printed and published in the Cleburne Times-Review and Online At www.cleburnetimesreview.com On the following date(s):
April 26, 2012

Charge: $226.75

Rate charged for publication is $10.50 per inch per publication date, and $15.00 per publication date online, which is the lowest applicable classified rate for the Cleburne Times-Review.

Prairielands Groundwater Conservation District Management Plan
May 21, 2012

Kay Helms - Publisher
SUBSCRIBED AND SWORN TO BEFORE ME by **Kay Helms**
On This **26th** -day of **April, 2012**

Lynn Coplin - Notary Public
Notary Public, State of Texas
In and for Johnson County, Texas

LYNN COPLIN
Notary Public
STATE OF TEXAS
My Comm. Exp. January 24, 2016

RECEIVED
5-1-12

PUBLISHER'S AFFIDAVIT

I solemnly swear that the above notice was published once in the Glen Rose Reporter, a newspaper printed in Glen Rose, Somervell County, Texas, and of general circulation in said county, as provided in the Texas Codes Annotated for the service of citation or notice by publication, and the date that issue of said newspaper bore in which said notice was published was April 25, 2012.

A copy of the notice published, clipped from the newspaper, is attached hereto.

Kathryn Jones
Publisher/Editor

SUBSCRIBED AND SWORN TO BEFORE ME BY Kathryn Jones, **PUBLISHER/EDITOR, THIS** 3 **DAY OF** May, 2012 **TO CERTIFY WHICH WITNESS MY HAND AND SEAL OF OFFICE.**

LINDA KAY WILLIS
Notary Public, State of Texas
My Commission Expires
April 12, 2016

Linda Kay Willis
Notary Public, State of Texas
My commission expires: 4-12-16

NOTICE OF PUBLIC HEARING, MEETING, AND WORK SESSION

OF THE
BOARD OF DIRECTORS
of the
PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
at the
Cross Timbers Branch Room of the
Cleburne Conference Center at
1501 West Henderson Street,
Cleburne, Texas
Monday, May 21, 2012

POSTED
_____A.M. 2:10 P.M.
MAY 17 2012
Becky Williams
County Clerk, Johnson County Texas
BY_____ DEPUTY

Work Session

The Work Session will begin at 8:30 a.m.

Work Sessions are primarily for the benefit of the Board, although they are open to the public. During work sessions of the Board, no public comment will be heard, unless specifically requested by a Director and recognized by the President. Public comment may be made at the time the item is set for discussion at a regular Board Meeting.

The following items will be discussed, considered, and potentially acted upon by the Board of Directors:

1. **Call meeting to order and establish a quorum.**
2. **Proposal from LBG-Guyton regarding water level monitoring and water quality analysis and related tasks.**
3. **Discuss and consider any items set forth in Item #5 of the Regular Board Meeting agenda listed below.**
4. **Adjourn Work Session.**

Public Hearing

The Public Hearing will begin at 9:30 a.m.

The Board of Directors of the Prairielands Groundwater Conservation District will hold a public hearing, accept public comment, and may discuss, consider, and take all necessary action regarding development and adoption of the District's proposed Management Plan.

1. **Call public hearing to order and establish a quorum.**
2. **Summary presentation and review of proposed District Management Plan.**

3. **Public Comment (verbal comments limited to 3 minutes each; written comments may also be submitted for the Board's consideration).**

4. **Adjourn public hearing on Management Plan or continue it to a future date.**

At the conclusion of the hearing or any time or date thereafter, the proposed Management Plan may be adopted in the form presented or as amended based upon comments received from the public, the Texas Water Development Board, District staff, attorneys, consultants, or members of the Board of Directors without any additional notice.

Regular Board Meeting

The Regular Board Meeting will begin at 10:00 a.m. or upon adjournment of the above-noticed Public Hearing, whichever is later.

The Board of Directors may discuss, consider, and take all necessary action, including possible expenditure of funds, regarding each of the agenda items below:

1. **Call to order, declare meeting open to the public, and take roll.**

2. **Public Comment (verbal comments limited to 3 minutes each).**

3. **Discuss and consider approval of resolution adopting the District Management Plan.**

4. **Administrative and Financials**

   A. Consent Agenda (Note: These items may be considered and approved by one motion of the Board. Directors may request to have any consent item removed from the consent agenda for consideration and possible action as a separate agenda item):

      1. Approve minutes of the April 16, 2012, board meeting and work session.
      2. Approve current budget report.
      3. Approve reimbursement of director expenses.
      4. Approve employee reimbursements.
      5. Approve monthly invoices and payment of bills.

   B. Approve any item removed from Consent Agenda.

5. **Committee Reports to the Board of Directors (the Board may discuss and take action on any item listed under a committee report):**

   A. Rules and Bylaws Committee:
      1. Brief the Board on the Committee's activities since the last regular Board meeting.
      2. Update on informing well owners regarding their duties under the District's Temporary Rules.

   B. Budget and Finance Committee:
      1. Brief the Board on the Committee's activities since the last regular Board meeting.
      2. Update on District's current banking activities and accounts.

C. Policy and Personnel Committee:

1. Brief the Board on the Committee's activities since the last regular Board meeting.
2. Update regarding retirement plans for District employees.
3. Consider revisions to personnel policy.

D. Building and Facilities Committee:

1. Brief the Board on the Committee's activities since the last regular Board meeting.
2. Update on purchase or lease of equipment, furniture, supplies, and services for District office, including District internet website, GIS software, GPS, water level monitoring equipment.

E. Conservation and Public Awareness Committee:

1. Brief the Board on the Committee's activities since the last regular Board meeting.
2. Update on progress and consideration of additional tasks for LRPR.

F. Groundwater Monitoring and Database Committee:

1. Brief the Board on the Committee's activities since the last regular Board meeting.
2. Update on work related to geodatabase and web-based application, and status of well registration within the District.
3. Consider proposal from LBG-Guyton regarding water level monitoring and water quality analysis and related tasks.

6. **Update regarding groundwater availability overhaul and aquifer characterization project.**

7. **Consider resolution for District participation in the Texas Comptroller of Public Accounts Cooperative Purchasing Program.**

8. **General Manager's Report.**
   A. Update on GMA 8 activities.
   B. Update on any other District matters.
   C. Update on compliance and enforcement activities for violations of District Rules.

9. **Discussion of any other organizational matters of the District, including strategic near-term and long-term planning regarding District operations and management of groundwater resources.**

10. **General Counsel's Report – The District's legal counsel will brief the Board on pertinent legal issues and developments impacting the District since the last regular Board meeting, and legal counsel's activities on behalf of the District.**

11. **Open forum / discussion of new business for future meeting agendas.**

12. **Adjourn public meeting.**

The above agenda schedule represents an estimate of the order for the indicated items and is subject to change at any time. These public meetings are available to all persons regardless of disability. If you require special assistance to attend the meeting, please call (817)556-2299 at least 24 hours in advance of the meeting to coordinate any special physical access arrangements.

At any time during the meeting and in compliance with the Texas Open Meetings Act, Chapter 551, Government Code, Vernon's Texas Codes, Annotated, the Prairielands Groundwater Conservation District Board may meet in executive session on any of the above agenda items or other lawful items for consultation concerning attorney-client matters (§551.071); deliberation regarding real property (§551.072); deliberation regarding prospective gifts (§551.073); personnel matters (§551.074); and deliberation regarding security devices (§551.076). Any subject discussed in executive session may be subject to action during an open meeting.

12 MAY 17 PM 2:50

FILED FOR RECORD
CINDY POLLEY
ELLIS COUNTY CLERK

NOTICE OF PUBLIC HEARING, MEETING, AND WORK SESSION

OF THE
BOARD OF DIRECTORS
of the
PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
at the
Cross Timbers Branch Room of the
Cleburne Conference Center at
1501 West Henderson Street,
Cleburne, Texas
Monday, May 21, 2012

Work Session

The Work Session will begin at 8:30 a.m.

Work Sessions are primarily for the benefit of the Board, although they are open to the public. During work sessions of the Board, no public comment will be heard, unless specifically requested by a Director and recognized by the President. Public comment may be made at the time the item is set for discussion at a regular Board Meeting.

The following items will be discussed, considered, and potentially acted upon by the Board of Directors:

1. Call meeting to order and establish a quorum.
2. Proposal from LBG-Guyton regarding water level monitoring and water quality analysis and related tasks.
3. Discuss and consider any items set forth in Item #5 of the Regular Board Meeting agenda listed below.
4. Adjourn Work Session.

Public Hearing

The Public Hearing will begin at 9:30 a.m.

The Board of Directors of the Prairielands Groundwater Conservation District will hold a public hearing, accept public comment, and may discuss, consider, and take all necessary action regarding development and adoption of the District's proposed Management Plan.

1. Call public hearing to order and establish a quorum.
2. Summary presentation and review of proposed District Management Plan.

NOTICE OF PUBLIC HEARING, MEETING, AND WORK SESSION

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1. **Call public hearing to order and establish a quorum.**
2. **Summary presentation and review of proposed District Management Plan.**

POSTED
DATE 5/17/12
A.M. 3:30 P.M.
Candace Garrett
BY DEPUTY

CANDACE BARRETT
COUNTY DISTRICT CLERK
SOMERVELL CO., TEXAS
2012 MAY 17 PM 3:20
DEPUTY

NOTICE OF PUBLIC HEARING, MEETING, AND WORK SESSION

OF THE
BOARD OF DIRECTORS
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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT
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Cleburne Conference Center at
1501 West Henderson Street,
Cleburne, Texas
Monday, May 21, 2012

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1. **Call public hearing to order and establish a quorum.**
2. **Summary presentation and review of proposed District Management Plan.**

Erin Zoch

From: liaison@sos.state.tx.us
Sent: Thursday, May 17, 2012 3:36 PM
To: Erin Zoch
Subject: S.O.S. Acknowledgment of Receipt

Agency: Prairielands Groundwater Conservation District
Liaison: Erin Zoch

Acknowledgment of Receipt

The Office of the Secretary of State has posted notice of the following meeting:

Meeting Information:
Prairielands Groundwater Conservation District Board of Directors - Public Hearing
05/21/2012 09:30 AM "TRD# 2012003488"
Notice posted: 05/17/12 03:35 PM
Proofread your current open meeting notice at:

http://info.sos.state.tx.us/pls/pub/pubomquery$omquery.queryTRD?p_trd=2012003488

Erin Zoch

From: liaison@sos.state.tx.us
Sent: Thursday, May 17, 2012 3:39 PM
To: Erin Zoch
Subject: S.O.S. Acknowledgment of Receipt

Agency: Prairielands Groundwater Conservation District
Liaison: Erin Zoch

Acknowledgment of Receipt

The Office of the Secretary of State has posted notice of the following meeting:

Meeting Information:
Prairielands Groundwater Conservation District Board of Directors - Regular Meeting
05/21/2012 10:00 AM "TRD# 2012003489"
Notice posted: 05/17/12 03:38 PM
Proofread your current open meeting notice at:

http://info.sos.state.tx.us/pls/pub/pubomquery$omquery.queryTRD?p_trd=2012003489

Appendix C

Letters to Surface Water Management Entities

13

List of Surface Water Management Entities

BUENA VISTA-BETHEL SUD
312 S OAK BRANCH RD
WAXAHACHIE, TEXAS 75167-7832

ELLIS COUNTY FWSD 1
19 BRIAR HOLLOW LN STE 245
HOUSTON, TEXAS 77027-2858

ELLIS COUNTY FWSD 2
19 BRIAR HOLLOW LN STE 245
HOUSTON, TEXAS 77027-2858

ELLIS COUNTY FWSD 3
19 BRIAR HOLLOW LN STE 245
HOUSTON, TEXAS 77027-2858

ELLIS COUNTY LID 2
1112 ALSDORF RD
ENNIS, TEXAS 75119

ELLIS COUNTY LID 3
203 MIMOSA
FERRIS, TEXAS 75125

ELLIS COUNTY MUD 1
c/o COATS ROSE YALE RYMAN & LEE
5420 LBJ FWY STE 1300
DALLAS, TEXAS 75240-6299

ELLIS COUNTY WCID 1
PO BOX 757
WAXAHACHIE, TEXAS 75168-0757

JOHNSON COUNTY SUD
PO BOX 509
CLEBURNE, TEXAS 76033-0509

MOUNTAIN PEAK SUD
5671 WATERWORKS RD
MIDLOTHIAN, TEXAS 76065-5851

ROCKETT SUD
PO BOX 40
RED OAK, TEXAS 75154

TRINITY RIVER AUTHORITY
PO BOX 60
ARLINGTON, TEXAS 76004-0060

ACTON MUD
6420 LUSK BRANCH CT
GRANBURY, TEXAS 76049-2035

BETHANY SUD
133 S COUNTY ROAD 810
ALVARADO, TX 76009-8409

JOHNSON COUNTY FWSD 2
19 BRIAR HOLLOW LN STE 245
HOUSTON, TEXAS 77027-2858

AQUILLA HACKBERRY CREEK CD
PO BOX 246
HILLSBORO, TEXAS 76645

AQUILLA WSD
PO BOX 959
HILLSBORO, TEXAS 76645-0959

MCLENNAN AND HILL COUNTIES TEHUACANA CREEK WCID 1
3728 CHIMNEY RIDGE DR
WACO, TEXAS 76708-2368

POST OAK SUD
PO BOX 246
HUBBARD, TEXAS 76648-0246

SOMERVELL COUNTY WATER DISTRICT
PO BOX 1386
GLEN ROSE, TEXAS 76043-1386

AVALON WSC
PO BOX 246
ITASCA, TEXAS 76055-0246

CITY OF BARDWELL
PO BOX 271
BARDWELL, TEXAS 75101

CITY OF CEDAR HILL
PO BOX 96
CEDAR HILL, TEXAS 75104

CITY OF ENNIS
PO BOX 220
ENNIS, TEXAS 75119

CITY OF FERRIS
100 TOWN PLAZA
FERRIS, TEXAS 75125

CITY OF GLENN HEIGHTS
1938 S HAMPTON RD
GLENN HEIGHTS, TEXAS 75154-8534

CITY OF ITALY
PO BOX 66
ITALY, TEXAS 76651

13

CITY OF MANSFIELD
1305 EAST BROAD STREET
MANSFIELD, TEXAS 76063

CITY OF MAYPEARL
PO BOX 143
MAYPEARL, TEXAS 76064

CITY OF MIDLOTHIAN
PO BOX 143
MAYPEARL, TEXAS 76064

CITY OF MILFORD
PO BOX 538
MILFORD, TEXAS 76670-0000

CITY OF OVILLA
105 COCKRELL HILL RD STE 2
RED OAK, TEXAS 75154-1493

CITY OF PALMER
PO BOX 489
PALMER, TX 75152-0489

CITY OF RED OAK
PO BOX 393
RED OAK, TEXAS 75154-0393

CITY OF WAXAHACHIE
PO BOX 757
WAXAHACHIE, TEXAS 75165

EAST GARRETT WSC
7520 FM 879
PALMER, TEXAS 75152

FILES VALLEY WSC
PO BOX 127
ITASCA, TEXAS 76055

MATTHEW ROAD WSC
PO BOX 540129
GRAND PRAIRIE, TEXAS 75054-0129

NASH FORRESTON WSC
PO BOX 58
FORRESTON, TEXAS 76041-0058

RICE WSC
PO BOX 137
RICE, TEXAS 75155-0137

RURAL BARDWELL WSC
PO BOX 129
BARDWELL, TEXAS 75101-0129

SARDIS LONE ELM WSC
6681 WEST HIGHLAND RD
MIDLOTHIAN, TEXAS 76065

SOUTH ELLIS COUNTY WSC
PO BOX 348
ITALY, TEXAS 76651

BETHESDA WSC
PO BOX 130
BURLESON, TEXAS 76097-0130

BLUE WATER OAKS WATER SUPPLY
AND SEWER SERVICE CORP.
2 RILL COURT
ALVARADO, TEXAS 76009-7100

BLUEBONNET HILLS WSC
PO BOX 311
CRESSON, TEXAS 76035

CITY OF ALVARADO
104 W COLLEGE ST
ALVARADO, TEXAS 76009

CITY OF BURLESON
141 WEST RENFRO STREET
BURLESON, TEXAS 76028

CITY OF CLEBURNE
PO BOX 677
CLEBURNE, TEXAS 76033

CITY OF CROWLEY
PO DRAWER 747
CROWLEY, TEXAS 76036

CITY OF GODLEY
PO BOX 27
GODLEY, TEXAS 76044

CITY OF GRANDVIEW
PO BOX 425
GRANDVIEW, TEXAS 76050

CITY OF KEENE
PO BOX 547
KEENE, TEXAS 76059

CITY OF RIO VISTA
PO BOX 129
RIO VISTA, TEXAS 76093-0129

CITY OF VENUS
PO BOX 129
RIO VISTA, TEXAS 76093-0129

13

PARKER WSC
7001 COUNTY ROAD 1200
CLEBURNE, TEXAS 76031

BIROME WSC
RR 1 BOX 73
MOUNT CALM, TEXAS 76673-9605

BOLD SPRINGS WSC
376 ERWIN RD
WEST, TEXAS 76691-2407

BRANDON IRENE WSC
PO BOX 87
BRANDON, TEXAS 76628-0087

CEDAR CREST COLONY WSC
PO BOX 1707
WHITNEY, TEXAS 76692

CHATT WSC
140 HCR 2305
ABBOTT, TEXAS 76621-3573

CITY OF ABBOTT
PO BOX 44
ABBOTT, TEXAS 76621

CITY OF ALEDO
200 OLD ANNETTA RD
ALEDO, TEXAS 76008

CITY OF BLUM
PO BOX 613
BLUM, TEXAS 76627

CITY OF BYNUM
PO BOX 103
BYNUM, TEXAS 76631

CITY OF CARLS CORNER
PO BOX 817
HILLSBORO, TEXAS 76645

CITY OF COVINGTON
PO BOX 443
COVINGTON, TEXAS 76636

CITY OF HILLSBORO
PO BOX 568
HILLSBORO, TEXAS 76645

CITY OF HUBBARD
118 N MAGNOLIA AVE
HUBBARD, TEXAS 76648-2444

CITY OF ITASCA
PO BOX 99
ITASCA, TEXAS 76055

CITY OF MALONE
PO BOX 6
MALONE, TEXAS 76660

CITY OF MERTENS
PO BOX 103
MERTENS, TEXAS 76666

CITY OF MOUNT CALM
PO BOX 85
MOUNT CALM, TEXAS 76673

CITY OF WHITNEY
PO BOX 2050
WHITNEY, TEXAS 76692

COTTONWOOD WSC
PO BOX 569
WEST, TEXAS 76691-0569

GHOLSON WSC
12520 GHOLSON RD
WACO, TEXAS 76705-5609

HILL COUNTY WSC
PO BOX 575
HIGHWAY 22
WHITNEY, TEXAS 76692

HILLTOP WSC
PO BOX 127
ITASCA, TEXAS 76055

MENLOW WSC
2330 FM 1304
ABBOTT, TEXAS 76621

NAVARRO MILLS WSC
1160 FM 667
PURDON, TEXAS 76679-3186

PENELOPE WSC
PO BOX 102
PENELOPE, TEXAS 76676

THE FORTY-EIGHT WSC
190 LAKESHORE TRL
WHITNEY, TEXAS 76692

13

TV WSC
100 PR 482
HILLSBORO, TEXAS 76645-7324

WOODROW OSCEOLA WSC
1147 FM 934
BLUM, TEXAS 76627-3138

CITY OF GLEN ROSE
PO BOX 87
GLEN ROSE, TEXAS 76043

CITY OF CRESSON
PO BOX 619
CRESSON, TEXAS 76035

DOUBLE DIAMOND WSC
7725 FM 1434
CLEBURNE, TEXAS 76033

CREST WSC
PO BOX 460
KEENE, TEXAS 76059

BRAZOS RIVER AUTHORITY
PO BOX 7555
WACO, TEXAS 76714

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Buena Vista-Bethel SUD
312 S Oak Branch Rd
Waxahachie, Texas 75167-7832

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

Enclosed you will find a copy of the Prairielands Groundwater Conservation District ("District")Management Plan developed and adopted in accordance with Chapter 36 of the Texas Water Code and Title 31 Texas Administrative Code Chapter 356. The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell counties. The purpose of the District Management Plan is to define the water needs and supply within the District and define the goals that the District will use to manage the District's groundwater resources.

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Please feel free to contact me if you have any questions or comments regarding the enclosed District Management Plan or other District activities.

Sincerely,

Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Ellis County FWSD 1
19 Briar Hollow LN Ste 245
Houston, Texas 77027-2858

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28. 2012

Ellis County FWSD 2
19 Briar Hollow LN Ste 245
Houston, Texas 77027-2858

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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June 28, 2012

Ellis County FWSD 3
19 Briar Hollow LN Ste 245
Houston, Texas 77027-2858

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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June 28, 2012

Ellis County LID 2
1112 Alsdorf Rd
Ennis, Texas 75119

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Ellis County LID 3
203 Mimosa
Ferris, Texas 75125

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Ellis County MUD 1
c\o Coats Rose Yale Ryman & Lee
5420 LBJ Fwy Ste 1300
Dallas, Texas 75240-6299

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
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June 28, 2012

Ellis County WCID 1
P.O. Box 757
Waxahachie, Texas 75168-0757

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Johnson County SUD
P.O. Box 509
Cleburne, Texas 76033-0509

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Mountain Peak SUD
5671 Water Works Rd
Midlothian, Texas 76065-5851

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Rockett SUD
P.O. Box 40
Red Oak, Texas 75154

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Trinity River Authority
P.O. Box 60
Arlington, Texas 76004-0060

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Action MUD
6420 Lusk Branch Ct
Grandbury, Texas 76049-2035

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Brazos River Authority
P.O. Box 7555
Waco, Texas 76714

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

Enclosed you will find a copy of the Prairielands Groundwater Conservation District ("District")Management Plan developed and adopted in accordance with Chapter 36 of the Texas Water Code and Title 31 Texas Administrative Code Chapter 356. The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell counties. The purpose of the District Management Plan is to define the water needs and supply within the District and define the goals that the District will use to manage the District's groundwater resources.

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Please feel free to contact me if you have any questions or comments regarding the enclosed District Management Plan or other District activities.

Sincerely,

Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Bethany SUD
133 S. CR 810
Alvarado, Texas 76009-8409

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Johnson County FWSD 2
19 Briar Hollow LN Ste 245
Houston, Texas 77027-2858

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Aquilla Hackberry Creek CD
P.O. Box 246
Hillsboro, Texas 76645

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Aquilla WSD
P.O. Box 959
Hillsboro, Texas 76645-0959

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

McLennan & Hill Counties
Tehuacana Creek WCID 1
3728 Chimney Ridge Drive
Waco, Texas 76708-2368

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Post Oak SUD
P.O. Box 246
Hubbard, Texas 76648-1386

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Somervell County Water District
P.O. Box 1386
Glen Rose, Texas 76043-1386

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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Joshua Grimes
General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
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June 28, 2012

Avalon WSC
P.O. Box 246
Itasca, Texas 76055-0246

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Bardwell
P.O. Box 271
Bardwell, Texas 75101

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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June 28, 2012

City of Cedar Hill
P.O. Box 96
Cedar Hill, Texas 75104

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Ennis
P.O. Box 220
Ennis, Texas 75119

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
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June 28, 2012

City of Ferris
100 Town Plaza
Ferris, Texas 75125

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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June 28, 2012

City of Glenn Heights
1938 S. Hampton Rd
Glenn Heights, Texas 75154-8534

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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June 28, 2012

City of Italy
P.O. Box 66
Italy, Texas 76651

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

City of Mansfield
1305 East Broad Street
Mansfield, Texas 76063

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
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FAX: (817) 556-2305
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June 28, 2012

City of Maypearl
P.O. Box 143
Maypearl, Texas 76064

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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June 28, 2012

City of Midlothian
P.O. Box 143
Maypearl, Texas 76064

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

City of Milford
P.O. Box 538
Milford, Texas 76670-0000

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

City of Ovilla
105 Cockrell Hill Rd, Ste 2
Red Oak, Texas 75154-1493

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

City of Palmer
P.O. Box 489
Palmer, Texas 75152-0489

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

Enclosed you will find a copy of the Prairielands Groundwater Conservation District ("District")Management Plan developed and adopted in accordance with Chapter 36 of the Texas Water Code and Title 31 Texas Administrative Code Chapter 356. The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell counties. The purpose of the District Management Plan is to define the water needs and supply within the District and define the goals that the District will use to manage the District's groundwater resources.

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Please feel free to contact me if you have any questions or comments regarding the enclosed District Management Plan or other District activities.

Sincerely,

Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Red Oak
P.O. Box 393
Red Oak, Texas 75154-0393

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Waxahachie
P.O. Box 757
Waxahachie, Texas 75165

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
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HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

East Garrett WSC
7520 FM 879
Palmer, Texas 75152

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Files Valley WSC
P.O. Box 127
Itasca, Texas 76055

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
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June 28, 2012

Matthew Road WSC
P.O. Box 540129
Grand Prairie, Texas 75054-0129

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
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June 28, 2012

Nash Forreston WSC
P.O. Box 58
Forreston, Texas 76041-0058

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

Rice WSC
P.O. Box 137
Rice, Texas 75155-0137

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
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June 28, 2012

Rural Bardwell WSC
P.O. Box 129
Bardwell, Texas 75101-0129

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

Sardis Lone Elm WSC
6681 West Highland Rd
Midlothian, Texas 76065

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June 28, 2012

South Ellis County WSC
P.O. Box 348
Italy, Texas 76651

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June 28, 2012

Bethesda WSC
P.O. Box 130
Burleson, Texas 76097-0130

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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June 28, 2012

Blue Water Oaks Water Supply
& Sewer Service Corp.
172 Rill Court
Alvarado, Texas 76009-7100

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June 28, 2012

Bluebonnet Hills WSC
P.O. Box 311
Cresson, Texas 76035

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June 28, 2012

City of Alvarado
104 W. College Street
Alvarado, Texas 76009

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June 28, 2012

City of Burleson
141 West Renfro Street
Burleson, Texas 76028

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CLEBURNE, TEXAS 76033

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June 28, 2012

City of Cleburne
P.O. Box 677
Cleburne, Texas 76033

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June 28, 2012

City of Crowley
P.O. Drawer 747
Crowley, Texas 76036

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June 28, 2012

City of Godley
P.O. Box 27
Godley, Texas 76044

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Grandview
P.O. Box 425
Grandview, Texas 76050

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June 28, 2012

City of Keene
P.O. Box 547
Keene, Texas 76059

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

Enclosed you will find a copy of the Prairielands Groundwater Conservation District ("District")Management Plan developed and adopted in accordance with Chapter 36 of the Texas Water Code and Title 31 Texas Administrative Code Chapter 356. The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell counties. The purpose of the District Management Plan is to define the water needs and supply within the District and define the goals that the District will use to manage the District's groundwater resources.

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Please feel free to contact me if you have any questions or comments regarding the enclosed District Management Plan or other District activities.

Sincerely,

Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Rio Vista
P.O. Box 129
Rio Vista, Texas 76093-0129

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
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June 28, 2012

City of Venus
P.O. Box 129
Rio Vista, Texas 76093-0129

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Parker WSC
7001 CR 1200
Cleburne, Texas 76031

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Birome WSC
RR 1 Box 73
Mount Calm, Texas 76673-9605

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Bold Springs WSC
376 Erwin Rd
West, Texas 76691-2407

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
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June 28, 2012

Brandon Irene WSC
P.O. Box 87
Brandon, Texas 76628-0087

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
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FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Cedar Crest Colony WSC
P.O. Box 1707
Whitney, Texas 76692

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
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CLEBURNE, TEXAS 76033

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June 28, 2012

City of Itasca
PO Box 99
Itasca, Texas 76055

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Chatt WSC
140 HCR 2305
Abbott, Texas 76621-3573

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Abbott
P.O. Box 44
Abbott, Texas 76621

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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CLEBURNE, TEXAS 76033

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June 28, 2012

City of Aledo
200 Old Annetta Rd
Aledo, Texas 76008

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Blum
P.O. Box 613
Blum, Texas 76627

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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MAILING ADDRESS: P.O. BOX 3128
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June 28, 2012

City of Bynum
P.O. Box 103
Bynum, Texas 76631

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June 28, 2012

City of Carls Corner
P.O. Box 817
Hillsboro, Texas 76645

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Covington
P.O. Box 443
Covington, Texas 76636

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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June 28, 2012

City of Hillsboro
P.O. Box 568
Hillsboro, Texas 76645

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Hubbard
118 N. Magnolia Ave
Hubbard, Texas 76055

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Malone
P.O. Box 6
Malone, Texas 76660

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Mertens
P.O. Box 103
Mertens, Texas 76666

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

City of Mount Calm
P.O. Box 85
Mount Calm, Texas 76673

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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Please feel free to contact me if you have any questions or comments regarding the enclosed District Management Plan or other District activities.

Sincerely,

Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Whitney
P.O. Box 2050
Whitney, Texas 76692

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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General Manager

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Cottonwood WSC
P.O. Box 569
West, Texas 76691-0569

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Gholson WSC
12520 Gholson Rd
Waco, Texas 76705-5609

RE: Prairielands Groundwater Conservation District Adopted Management Plan

To Whom It May Concern:

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Hill County WSC
P.O. Box 575
Whitney, Texas 76692

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

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MAILING ADDRESS: P.O. BOX 3128
CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Hilltop WSC
P.O. Box 127
Itasca, Texas 76055

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

ELLIS, HILL, JOHNSON AND SOMERVELL COUNTIES

205 SOUTH CADDO STREET
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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Menlow WSC
2330 FM 1304
Abbott, Texas 76621

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Navarro Mills WSC
1160 FM 667
Purdon, Texas 76679-3186

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Penelope WSC
P.O. Box 102
Penelope, Texas 76676

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
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June 28, 2012

The Forty-Eight WSC
190 Lakeshore Trail
Whitney, Texas 76692

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

TV WSC
100 PR 482
Hillsboro, Texas 76645-7324

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

Woodrow Osceola WSC
1147 FM 934
Blum, Texas 76627-3138

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT

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CLEBURNE, TEXAS 76033

OFFICE (817) 556-2299
FAX: (817) 556-2305
HTTP://PRAIRIELANDSGCD.ORG

June 28, 2012

City of Glen Rose
P.O. Box 87
Glen Rose, Texas 76043

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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CLEBURNE, TEXAS 76033

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FAX: (817) 556-2305
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June 28, 2012

City of Cresson
P.O. Box 619
Cresson, Texas 76035

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

Double Diamond WSC
7725 FM 1434
Cleburne, Texas 76033

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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June 28, 2012

Crest WSC
P.O. Box 460
Keene, Texas 76059

RE: Prairielands Groundwater Conservation District Adopted Management Plan

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Joshua Grimes
General Manager

Enclosure: Copy of District Management Plan

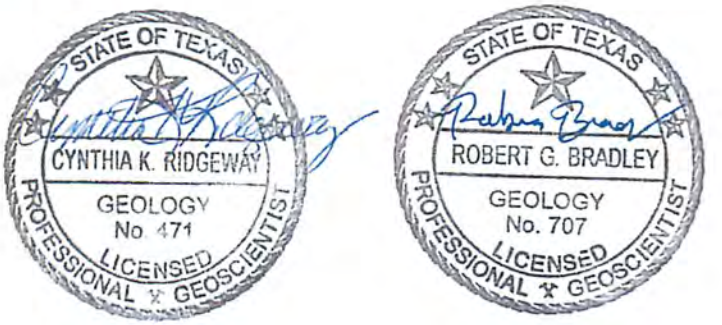
Appendix D

GAM Run 10-063-MAG (Trinity)

GAM Run 10-063 MAG

by Mr. Wade Oliver and Mr. Robert G. Bradley, P.G.

Texas Water Development Board
Groundwater Availability Modeling Section
(512) 463-3132
December 14, 2011



Cynthia K. Ridgeway, the Manager of the Groundwater Availability Modeling Section and Interim Director of the Groundwater Resources Division, is responsible for oversight of work performed by employees under her direct supervision. The seal appearing on this document was authorized by Cynthia K. Ridgeway, P.G. 471 on December 14, 2011.

Robert G. Bradley, P.G. is responsible for the water budget approach for Comanche and Erath counties within Middle Trinity Groundwater Conservation District. The seal appearing on this document was authorized by Robert G. Bradley, P.G. 707 on December 14, 2011.

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EXECUTIVE SUMMARY:

In response to receiving the adopted desired future conditions for the Trinity Aquifer in Groundwater Management Area 8, the Texas Water Development Board completed Groundwater Availability Model (GAM) Run 08-84mag, which reported the "managed available groundwater" that achieves the adopted desired future conditions. Subsequent to the release of GAM Run 08-84mag, the Middle Trinity Groundwater Conservation District requested that the Texas Water Development Board reevaluate the "managed available groundwater" for Comanche and Erath counties. This resulted in the completion of Aquifer Assessment 09-07, which addressed these counties. In April 2011, the groundwater conservation districts in Groundwater Management Area 8 readopted the desired future conditions for the Trinity Aquifer previously adopted in September 2008.

This report, an update to GAM Run 08-84mag and Aquifer Assessment 09-07, incorporates the changes above and addresses the readopted desired future conditions. In addition, the pumping estimates previously reported as "managed available groundwater" in the above reports are reported here as "modeled available groundwater" to reflect changes in statute effective September 1, 2011. The modeled available groundwater for the Trinity Aquifer as a result of the desired future conditions adopted by the members of Groundwater Management Area 8 is approximately 261,000 acre-feet per year.

REQUESTOR:

Mr. Eddy Daniel of North Texas Groundwater Conservation District on behalf of Groundwater Management Area 8

DESCRIPTION OF REQUEST:

In a letter dated August 31, 2011, Mr. Eddy Daniel provided the Texas Water Development Board (TWDB) with the desired future conditions of the Trinity Aquifer adopted in a resolution, dated April 27, 2011, by the members of Groundwater Management Area 8. This resolution referenced the desired future conditions previously adopted for the aquifer on September 17, 2008 by the groundwater conservation districts within Groundwater Management Area 8. These are summarized in Table 1.

In response to receiving the initially adopted desired future conditions from September 2008, the Texas Water Development Board completed Groundwater Availability Model (GAM) Run 08-84mag, which reported the "managed available groundwater" that achieves the above desired future conditions (Wade, 2009). On June 12, 2009, the general manager and consultants for the Middle Trinity Groundwater Conservation District met with Texas Water Development Board staff to discuss issues they had concerning GAM Run 08-84mag. After discussion, staff reevaluated pumping estimates using a water-budget approach based on the desired future conditions for Comanche and Erath counties and released this analysis as Aquifer Assessment 09-07 on November 22, 2010 (Bradley, 2010). This report, an update to GAM Run 08-84mag and Aquifer Assessment 09-07, incorporates the two changes above. In addition, the pumping estimates previously reported as "managed available groundwater" in the above reports are

reported here as "modeled available groundwater" to reflect changes in statute effective September 1, 2011.

METHODS:

Groundwater Management Area 8 contains the Trinity Aquifer, a major aquifer in Texas as defined in the 2007 State Water Plan (TWDB, 2007). The location of Groundwater Management Area 8, the Trinity Aquifer, and the groundwater availability model cells that represent the aquifer are shown in Figure 1.

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. This is distinct from "managed available groundwater," shown in the draft version of this report dated December 20, 2010, which was a permitting value and accounted for the estimated use of the aquifer exempt from permitting. This change was made to reflect changes in statute by the 82nd Texas Legislature, effective September 1, 2011.

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. The estimated amount of pumping exempt from permitting, which the Texas Water Development Board is now required to develop after soliciting input from applicable groundwater conservation districts, will be provided in a separate report.

PARAMETERS AND ASSUMPTIONS:

The groundwater availability model for the northern portion of the Trinity Aquifer was used for the results presented in this report outside of Comanche and Erath counties. In those counties, a water budget approach was used. The parameters and assumptions for developing the modeled available groundwater are described below:

Groundwater Availability Model for the Northern Portion of the Trinity Aquifer

- The results for modeled available groundwater presented here are based on the results reported as "managed available groundwater" in GAM Run 08-84mag (Wade, 2009) for all areas except Comanche and Erath counties. See GAM Run 08-84mag for a full description of the methods and assumptions associated with the model simulation. Because GAM Run 08-84mag presented constant pumping from 2000 to 2050, it was assumed for the purposes of this analysis that pumping from 2051 to 2060 was also constant at the same level. As summarized in Table 1, desired future conditions were defined by the groundwater conservation districts in Groundwater Management Area 8 for 2050. It is expected that pumping from 2051 to 2060 would cause additional

drawdown, but this analysis does not estimate drawdown in 2060. Pumping estimates for 2060 were important to include for purposes of regional water planning.

- Version 1.01 of the groundwater availability model for the northern portion of the Trinity Aquifer was used for this analysis. See Bené and others (2004) for assumptions and limitations of the model.

- The model includes seven layers which generally correspond to the Woodbine Aquifer (Layer 1), the Washita and Fredericksburg Groups (Layer 2), the Paluxy Formation (Layer 3), the Glen Rose Formation (Layer 4), the Hensell Formation (Layer 5), the Pearsall/Cow Creek/Hammett/Sligo Members (Layer 6), and the Hosston Formation (Layer 7).

- The mean absolute error (a measure of the difference between simulated and measured water levels during model calibration) for the four main aquifers in the model (Woodbine, Paluxy, Hensell, and Hosston) for the calibration and verification time periods (1980 to 2000) ranged from approximately 38 to 75 feet. The root mean squared error was less than ten percent of the maximum change in water levels across the model (Bené and others, 2004).

- Average annual recharge conditions based on climate data from 1980 to 1999 were assumed for the first 47 years of the simulation. The last three years of the simulation drought-of-record recharge conditions were assumed, which were defined as the years 1954 to 1956.

- Groundwater conservation district boundaries were updated since the release of GAM Run 08-84mag. The results presented here correspond to the official district boundaries as of the date of this report.

Water Budget Approach for Comanche and Erath Counties

- The modeled available groundwater presented for Comanche and Erath counties is based on Aquifer Assessment 09-07 (Bradley, 2010). See Aquifer Assessment 09-07 for a full description of the methods and assumptions associated with the water budget calculations.

- The Hensell and Hosston members were grouped as the Twin Mountains Formation in Aquifer Assessment 09-07. To be consistent with the desired future conditions, however, it was necessary to split the pumping in Aquifer Assessment 09-07 into the Hensell and Hosston members. In Comanche County, 10 percent of the pumping in the Twin Mountains Formation was assigned to the Hensell member while 90 percent was assigned to the Hosston. In Erath County, 35 percent of the pumping in Aquifer Assessment 09-07 was assigned to the Hensell with the remaining 65 percent assigned to the Hosston. These percentages were developed after a preliminary review of available pumping information and discussion with Joe Cooper of Middle Trinity Groundwater Conservation District.

RESULTS:

The modeled available groundwater for the Trinity Aquifer in Groundwater Management Area 8 as a result of the desired future conditions is approximately 261,000 acre-feet per year between 2010 and 2060. This pumping has been divided by county, regional water planning area, and river basin for each decade between 2010 and 2060 for use in the regional water planning process (Table 2). These areas are shown in Figure 2.

Since the desired future conditions are specified for individual units of the Trinity Aquifer (Paluxy, Glen Rose, Hensell, and Hosston) based on the layering used in the model, the modeled available groundwater is shown for each unit in the subsequent tables. Tables 3, 4, 5, and 6 show the modeled available groundwater summarized by county in the Paluxy, Glen Rose, Hensell, and Hosston units of the Trinity Aquifer, respectively. Tables 7, 8, 9, and 10 show the modeled available groundwater summarized by regional water planning area for the same units, respectively. Tables 11, 12, 13, and 14 show the modeled available groundwater summarized by river basin for each of the above units, respectively. The modeled available groundwater summarized by groundwater conservation district is shown for the Paluxy, Glen Rose, Hensell, and Hosston units in tables 15, 16, 17, and 18, respectively. Notice that the pumping is totaled both excluding and including areas outside of a groundwater conservation district.

LIMITATIONS:

The groundwater model used in developing estimates of modeled available groundwater is the best available scientific tool that can be used to estimate the pumping that will achieve the desired future conditions. Although the groundwater model used in this analysis is the best available scientific tool for this purpose, it, like all models, has limitations. 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 develop estimates of modeled available groundwater is the need to make assumptions about the location in the aquifer where future pumping will occur. As actual pumping changes in the future, it will be necessary to evaluate the amount of that pumping as well as its location in the context of the assumptions associated with this analysis. Evaluating the amount and location of future pumping is as important as evaluating the changes in groundwater levels, spring flows, and other metrics that describe the condition of the groundwater resources in the area that relate to the adopted desired future condition(s).

Given these limitations, users of this information are cautioned that the modeled available groundwater numbers should not be considered a definitive, permanent description of the amount

of groundwater that can be pumped to meet the adopted desired future condition. 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 future groundwater pumping as well as whether or not they are achieving their desired future conditions. Because of the limitations of the model and the assumptions in this analysis, it is important that the groundwater conservation districts work with the TWDB to refine the modeled available groundwater numbers given the reality of how the aquifer responds to the actual amount and location of pumping now and in the future.

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National Research Council, 2007, Models in Environmental Regulatory Decision Making. Committee on Models in the Regulatory Decision Process, National Academies Press, Washington D.C., 287 p.

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Table 1. Desired future conditions (in feet of drawdown) for each unit of the Trinity Aquifer adopted by members of Groundwater Management Area 8.

County	Average water level decrease (feet)			
	Paluxy	Glen Rose	Hensell	Hosston
Bell	134	155	286	319
Bosque	26	33	201	220
Brown	0	0	1	1
Burnet	1	1	11	29
Callahan	n/a	n/a	0	2
Collin	298	247	224	236
Comanche	0	0	2	11
Cooke	26	42	60	78
Coryell	15	15	156	179
Dallas	240	224	263	290
Delta	175	162	162	159
Denton	98	134	180	214
Eastland	0	0	0	0
Ellis	265	283	336	362
Erath	1	1	11	27
Falls	279	354	459	480
Fannin	212	196	182	181
Grayson	175	161	160	165
Hamilton	0	2	39	51
Hill	209	253	381	406
Hood	1	2	16	56
Hunt	286	245	215	223
Johnson	37	83	208	234
Kaufman	303	286	295	312
Lamar	132	130	136	134
Lampasas	0	1	12	23
Limestone	328	392	475	492
McLennan	251	291	489	527
Milam	252	294	337	344
Mills	0	0	3	12
Montague	0	1	3	12
Navarro	344	353	399	413
Parker	5	6	16	40
Red River	82	77	78	78
Rockwall	346	272	248	265
Somervell	1	4	53	113
Tarrant	33	75	160	173
Taylor	n/a	n/a	n/a	3
Travis	124	61	98	116
Williamson	108	88	142	166
Wise	4	14	23	53

Table 2. Modeled available groundwater in acre-feet for the Trinity Aquifer in Groundwater Management Area 8 by county, regional water planning area, and river basin.

County	Regional Water Planning Area	Basin	Year					
			2010	2020	2030	2040	2050	2060
Bell	G	Brazos	7,068	7,068	7,068	7,068	7,068	7,068
Bosque	G	Brazos	5,849	5,849	5,849	5,849	5,849	5,849
Brown	F	Brazos	28	28	28	28	28	28
		Colorado	2,017	2,017	2,017	2,017	2,017	2,017
Burnet	K	Brazos	2,723	2,723	2,723	2,723	2,723	2,723
		Colorado	823	823	823	823	823	823
Callahan	G	Brazos	1,792	1,792	1,792	1,792	1,792	1,792
		Colorado	1,985	1,985	1,985	1,985	1,985	1,985
Collin	C	Sabine	0	0	0	0	0	0
		Trinity	2,104	2,104	2,104	2,104	2,104	2,104
Comanche	G	Brazos	32,115	32,115	32,115	32,115	32,115	32,115
		Colorado	120	120	120	120	120	120
Cooke	C	Red	1,284	1,284	1,284	1,284	1,284	1,284
		Trinity	5,566	5,566	5,566	5,566	5,566	5,566
Coryell	G	Brazos	3,716	3,716	3,716	3,716	3,716	3,716
Dallas	C	Trinity	5,458	5,458	5,458	5,458	5,458	5,458
Delta	D	Sulphur	362	362	362	362	362	362
Denton	C	Trinity	19,333	19,333	19,333	19,333	19,333	19,333
Eastland	G	Brazos	4,489	4,489	4,489	4,489	4,489	4,489
		Colorado	231	231	231	231	231	231
Ellis	C	Trinity	3,959	3,959	3,959	3,959	3,959	3,959
Erath	G	Brazos	32,926	32,926	32,926	32,926	32,926	32,926
Falls	G	Brazos	169	169	169	169	169	169
Fannin	C	Red	617	617	617	617	617	617
		Sulphur	0	0	0	0	0	0
		Trinity	83	83	83	83	83	83
Franklin	D	Sulphur	0	0	0	0	0	0
Grayson	C	Red	7,722	7,722	7,722	7,722	7,722	7,722
		Trinity	1,678	1,678	1,678	1,678	1,678	1,678
Hamilton	G	Brazos	2,144	2,144	2,144	2,144	2,144	2,144
Hill	G	Brazos	3,086	3,086	3,086	3,086	3,086	3,086
		Trinity	61	61	61	61	61	61
Hood	G	Brazos	11,081	11,081	11,081	11,081	11,081	11,081
		Trinity	64	64	64	64	64	64
Hunt	D	Sabine	0	0	0	0	0	0
		Sulphur	0	0	0	0	0	0
		Trinity	551	551	551	551	551	551
Johnson	G	Brazos	4,940	4,940	4,940	4,940	4,940	4,940
		Trinity	7,931	7,931	7,931	7,931	7,931	7,931
Kaufman	C	Sabine	45	45	45	45	45	45
		Trinity	1,136	1,136	1,136	1,136	1,136	1,136

Table 2. Continued.

County	Regional Water Planning Area	Basin	Year					
			2010	2020	2030	2040	2050	2060
Lamar	D	Red	1,320	1,320	1,320	1,320	1,320	1,320
		Sulphur	2	2	2	2	2	2
Lampasas	G	Brazos	2,925	2,925	2,925	2,925	2,925	2,925
		Colorado	192	192	192	192	192	192
Limestone	G	Brazos	69	69	69	69	69	69
		Trinity	0	0	0	0	0	0
McLennan	G	Brazos	20,690	20,690	20,690	20,690	20,690	20,690
Milam	G	Brazos	288	288	288	288	288	288
Mills	K	Brazos	1,273	1,273	1,273	1,273	1,273	1,273
		Colorado	1,128	1,128	1,128	1,128	1,128	1,128
Montague	B	Brazos	0	0	0	0	0	0
		Red	129	129	129	129	129	129
		Trinity	2,545	2,545	2,545	2,545	2,545	2,545
Navarro	C	Trinity	1,873	1,873	1,873	1,873	1,873	1,873
Parker	C	Brazos	2,799	2,799	2,799	2,799	2,799	2,799
		Trinity	12,449	12,449	12,449	12,449	12,449	12,449
Red River	D	Red	263	263	263	263	263	263
		Sulphur	267	267	267	267	267	267
Rockwall	C	Sabine	0	0	0	0	0	0
		Trinity	958	958	958	958	958	958
Somervell	G	Brazos	2,485	2,485	2,485	2,485	2,485	2,485
Tarrant	C	Trinity	18,747	18,747	18,747	18,747	18,747	18,747
Taylor	G	Brazos	153	153	153	153	153	153
		Colorado	278	278	278	278	278	278
Travis	K	Brazos	8	8	8	8	8	8
		Colorado	3,882	3,882	3,882	3,882	3,882	3,882
Williamson	G	Brazos	1,514	1,514	1,514	1,514	1,514	1,514
		Colorado	68	68	68	68	68	68
	K	Brazos	157	157	157	157	157	157
		Colorado	61	61	61	61	61	61
Wise	C	Trinity	9,282	9,282	9,282	9,282	9,282	9,282
Total			**261,061**	**261,061**	**261,061**	**261,061**	**261,061**	**261,061**

Table 3. Modeled available groundwater for the Paluxy unit of the Trinity Aquifer summarized by county in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

County	Year					
	2010	2020	2030	2040	2050	2060
Bell	96	96	96	96	96	96
Bosque	1,013	1,013	1,013	1,013	1,013	1,013
Brown	18	18	18	18	18	18
Burnet	182	182	182	182	182	182
Collin	1,762	1,762	1,762	1,762	1,762	1,762
Comanche	2,292	2,292	2,292	2,292	2,292	2,292
Cooke	3,528	3,528	3,528	3,528	3,528	3,528
Coryell	254	254	254	254	254	254
Dallas	433	433	433	433	433	433
Delta	0	0	0	0	0	0
Denton	9,822	9,822	9,822	9,822	9,822	9,822
Eastland	4	4	4	4	4	4
Ellis	400	400	400	400	400	400
Erath	13,614	13,614	13,614	13,614	13,614	13,614
Falls	0	0	0	0	0	0
Fannin	288	288	288	288	288	288
Grayson	4,708	4,708	4,708	4,708	4,708	4,708
Hamilton	291	291	291	291	291	291
Hill	1,254	1,254	1,254	1,254	1,254	1,254
Hood	942	942	942	942	942	942
Hunt	551	551	551	551	551	551
Johnson	9,493	9,493	9,493	9,493	9,493	9,493
Kaufman	102	102	102	102	102	102
Lamar	0	0	0	0	0	0
Lampasas	13	13	13	13	13	13
Limestone	0	0	0	0	0	0
McLennan	231	231	231	231	231	231
Milam	0	0	0	0	0	0
Mills	5	5	5	5	5	5
Montague	505	505	505	505	505	505
Navarro	413	413	413	413	413	413
Parker	9,800	9,800	9,800	9,800	9,800	9,800
Red River	473	473	473	473	473	473
Rockwall	958	958	958	958	958	958
Somervell	120	120	120	120	120	120
Tarrant	10,544	10,544	10,544	10,544	10,544	10,544
Travis	3	3	3	3	3	3
Williamson	11	11	11	11	11	11
Wise	2,559	2,559	2,559	2,559	2,559	2,559
Total	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**

Table 4. Modeled available groundwater for the Glen Rose unit of the Trinity Aquifer summarized by county in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

County	Year					
	2010	2020	2030	2040	2050	2060
Bell	880	880	880	880	880	880
Bosque	258	258	258	258	258	258
Brown	0	0	0	0	0	0
Burnet	205	205	205	205	205	205
Collin	0	0	0	0	0	0
Comanche	0	0	0	0	0	0
Cooke	0	0	0	0	0	0
Coryell	784	784	784	784	784	784
Dallas	0	0	0	0	0	0
Delta	0	0	0	0	0	0
Denton	0	0	0	0	0	0
Eastland	0	0	0	0	0	0
Ellis	0	0	0	0	0	0
Erath	41	41	41	41	41	41
Falls	2	2	2	2	2	2
Fannin	0	0	0	0	0	0
Franklin	0	0	0	0	0	0
Grayson	0	0	0	0	0	0
Hamilton	46	46	46	46	46	46
Hill	10	10	10	10	10	10
Hood	4	4	4	4	4	4
Hunt	0	0	0	0	0	0
Johnson	24	24	24	24	24	24
Kaufman	0	0	0	0	0	0
Lamar	0	0	0	0	0	0
Lampasas	773	773	773	773	773	773
Limestone	4	4	4	4	4	4
McLennan	265	265	265	265	265	265
Milam	149	149	149	149	149	149
Mills	66	66	66	66	66	66
Montague	0	0	0	0	0	0
Navarro	0	0	0	0	0	0
Parker	192	192	192	192	192	192
Red River	0	0	0	0	0	0
Rockwall	0	0	0	0	0	0
Somervell	134	134	134	134	134	134
Tarrant	112	112	112	112	112	112
Travis	2,612	2,612	2,612	2,612	2,612	2,612
Williamson	760	760	760	760	760	760
Wise	5	5	5	5	5	5
Total	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**

Table 5. Modeled available groundwater for the Hensell unit of the Trinity Aquifer summarized by county in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

County	Year					
	2010	2020	2030	2040	2050	2060
Bell	1,099	1,099	1,099	1,099	1,099	1,099
Bosque	1,749	1,749	1,749	1,749	1,749	1,749
Brown	79	79	79	79	79	79
Burnet	690	690	690	690	690	690
Callahan	123	123	123	123	123	123
Collin	103	103	103	103	103	103
Comanche	2,995	2,995	2,995	2,995	2,995	2,995
Cooke	1,611	1,611	1,611	1,611	1,611	1,611
Coryell	1,765	1,765	1,765	1,765	1,765	1,765
Dallas	1,121	1,121	1,121	1,121	1,121	1,121
Delta	181	181	181	181	181	181
Denton	3,112	3,112	3,112	3,112	3,112	3,112
Eastland	79	79	79	79	79	79
Ellis	1,142	1,142	1,142	1,142	1,142	1,142
Erath	6,745	6,745	6,745	6,745	6,745	6,745
Falls	22	22	22	22	22	22
Fannin	203	203	203	203	203	203
Grayson	2,345	2,345	2,345	2,345	2,345	2,345
Hamilton	1,109	1,109	1,109	1,109	1,109	1,109
Hill	933	933	933	933	933	933
Hood	3,595	3,595	3,595	3,595	3,595	3,595
Hunt	0	0	0	0	0	0
Johnson	1,065	1,065	1,065	1,065	1,065	1,065
Kaufman	240	240	240	240	240	240
Lamar	661	661	661	661	661	661
Lampasas	885	885	885	885	885	885
Limestone	15	15	15	15	15	15
McLennan	4,190	4,190	4,190	4,190	4,190	4,190
Milam	36	36	36	36	36	36
Mills	946	946	946	946	946	946
Montague	362	362	362	362	362	362
Navarro	256	256	256	256	256	256
Parker	1,441	1,441	1,441	1,441	1,441	1,441
Red River	19	19	19	19	19	19
Rockwall	0	0	0	0	0	0
Somervell	741	741	741	741	741	741
Tarrant	2,535	2,535	2,535	2,535	2,535	2,535
Travis	156	156	156	156	156	156
Williamson	415	415	415	415	415	415
Wise	1,480	1,480	1,480	1,480	1,480	1,480
Total	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**

Table 6. Modeled available groundwater for the Hosston unit of the Trinity Aquifer summarized by county in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

County	Year					
	2010	2020	2030	2040	2050	2060
Bell	4,993	4,993	4,993	4,993	4,993	4,993
Bosque	2,829	2,829	2,829	2,829	2,829	2,829
Brown	1,948	1,948	1,948	1,948	1,948	1,948
Burnet	2,469	2,469	2,469	2,469	2,469	2,469
Callahan	3,654	3,654	3,654	3,654	3,654	3,654
Collin	239	239	239	239	239	239
Comanche	26,948	26,948	26,948	26,948	26,948	26,948
Cooke	1,711	1,711	1,711	1,711	1,711	1,711
Coryell	913	913	913	913	913	913
Dallas	3,904	3,904	3,904	3,904	3,904	3,904
Delta	181	181	181	181	181	181
Denton	6,399	6,399	6,399	6,399	6,399	6,399
Eastland	4,637	4,637	4,637	4,637	4,637	4,637
Ellis	2,417	2,417	2,417	2,417	2,417	2,417
Erath	12,526	12,526	12,526	12,526	12,526	12,526
Falls	145	145	145	145	145	145
Fannin	209	209	209	209	209	209
Franklin	0	0	0	0	0	0
Grayson	2,347	2,347	2,347	2,347	2,347	2,347
Hamilton	698	698	698	698	698	698
Hill	950	950	950	950	950	950
Hood	6,604	6,604	6,604	6,604	6,604	6,604
Hunt	0	0	0	0	0	0
Johnson	2,289	2,289	2,289	2,289	2,289	2,289
Kaufman	839	839	839	839	839	839
Lamar	661	661	661	661	661	661
Lampasas	1,446	1,446	1,446	1,446	1,446	1,446
Limestone	50	50	50	50	50	50
McLennan	16,004	16,004	16,004	16,004	16,004	16,004
Milam	103	103	103	103	103	103
Mills	1,384	1,384	1,384	1,384	1,384	1,384
Montague	1,807	1,807	1,807	1,807	1,807	1,807
Navarro	1,204	1,204	1,204	1,204	1,204	1,204
Parker	3,815	3,815	3,815	3,815	3,815	3,815
Red River	38	38	38	38	38	38
Rockwall	0	0	0	0	0	0
Somervell	1,490	1,490	1,490	1,490	1,490	1,490
Tarrant	5,556	5,556	5,556	5,556	5,556	5,556
Taylor	431	431	431	431	431	431
Travis	1,119	1,119	1,119	1,119	1,119	1,119
Williamson	614	614	614	614	614	614
Wise	5,238	5,238	5,238	5,238	5,238	5,238
Total	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**

Table 7. Modeled available groundwater for the Paluxy unit of the Trinity Aquifer summarized by regional water planning area in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

Regional Water Planning Area	Year					
	2010	2020	2030	2040	2050	2060
B	505	505	505	505	505	505
C	45,317	45,317	45,317	45,317	45,317	45,317
D	1,024	1,024	1,024	1,024	1,024	1,024
F	18	18	18	18	18	18
G	29,628	29,628	29,628	29,628	29,628	29,628
K	190	190	190	190	190	190
Total	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**

Table 8. Modeled available groundwater for the Glen Rose unit of the Trinity Aquifer summarized by regional water planning area in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

Regional Water Planning Area	Year					
	2010	2020	2030	2040	2050	2060
B	0	0	0	0	0	0
C	309	309	309	309	309	309
D	0	0	0	0	0	0
F	0	0	0	0	0	0
G	4,016	4,016	4,016	4,016	4,016	4,016
K	3,001	3,001	3,001	3,001	3,001	3,001
Total	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**

Table 9. Modeled available groundwater for the Hensell unit of the Trinity Aquifer summarized by regional water planning area in Groundwater Management Area 12 for each decade between 2010 and 2060. Results are in acre-feet per year.

Regional Water Planning Area	Year					
	2010	2020	2030	2040	2050	2060
B	362	362	362	362	362	362
C	15,589	15,589	15,589	15,589	15,589	15,589
D	861	861	861	861	861	861
F	79	79	79	79	79	79
G	27,514	27,514	27,514	27,514	27,514	27,514
K	1,839	1,839	1,839	1,839	1,839	1,839
Total	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**

Table 10. Modeled available groundwater for the Hosston unit of the Trinity Aquifer summarized by regional water planning area in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

Regional Water Planning Area	Year					
	2010	2020	2030	2040	2050	2060
B	1,807	1,807	1,807	1,807	1,807	1,807
C	33,878	33,878	33,878	33,878	33,878	33,878
D	880	880	880	880	880	880
F	1,948	1,948	1,948	1,948	1,948	1,948
G	87,271	87,271	87,271	87,271	87,271	87,271
K	5,025	5,025	5,025	5,025	5,025	5,025
Total	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**

Table 11. Modeled available groundwater for the Paluxy unit of the Trinity Aquifer summarized by river basin in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

River Basin	Year					
	2010	2020	2030	2040	2050	2060
Brazos	23,223	23,223	23,223	23,223	23,223	23,223
Colorado	193	193	193	193	193	193
Red	4,943	4,943	4,943	4,943	4,943	4,943
Sabine	4	4	4	4	4	4
Sulphur	267	267	267	267	267	267
Trinity	48,052	48,052	48,052	48,052	48,052	48,052
Total	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**

Table 12. Modeled available groundwater for the Glen Rose unit of the Trinity Aquifer summarized by river basin in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

River Basin	Year					
	2010	2020	2030	2040	2050	2060
Brazos	4,263	4,263	4,263	4,263	4,263	4,263
Colorado	2,753	2,753	2,753	2,753	2,753	2,753
Red	0	0	0	0	0	0
Sabine	0	0	0	0	0	0
Sulphur	0	0	0	0	0	0
Trinity	310	310	310	310	310	310
Total	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**

Table 13. Modeled available groundwater for the Hensell unit of the Trinity Aquifer summarized by river basin in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

River Basin	Year					
	2010	2020	2030	2040	2050	2060
Brazos	29,030	29,030	29,030	29,030	29,030	29,030
Colorado	585	585	585	585	585	585
Red	3,129	3,129	3,129	3,129	3,129	3,129
Sabine	9	9	9	9	9	9
Sulphur	182	182	182	182	182	182
Trinity	13,309	13,309	13,309	13,309	13,309	13,309
Total	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**

Table 14. Modeled available groundwater for the Hosston unit of the Trinity Aquifer summarized by river basin in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year.

River Basin	Year					
	2010	2020	2030	2040	2050	2060
Brazos	87,971	87,971	87,971	87,971	87,971	87,971
Colorado	7,254	7,254	7,254	7,254	7,254	7,254
Red	3,263	3,263	3,263	3,263	3,263	3,263
Sabine	32	32	32	32	32	32
Sulphur	182	182	182	182	182	182
Trinity	32,107	32,107	32,107	32,107	32,107	32,107
Total	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**

Table 15. Modeled available groundwater for the Paluxy unit of the Trinity Aquifer summarized by groundwater conservation district (GCD) in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year. UWCD refers to Underground Water Conservation District. WD refers to Water District.

Groundwater Conservation District	Year					
	2010	2020	2030	2040	2050	2060
Central Texas GCD	182	182	182	182	182	182
Clearwater UWCD	96	96	96	96	96	96
Fox Crossing WD	5	5	5	5	5	5
Middle Trinity GCD	17,173	17,173	17,173	17,173	17,173	17,173
North Texas GCD	15,112	15,112	15,112	15,112	15,112	15,112
Northern Trinity GCD	10,544	10,544	10,544	10,544	10,544	10,544
Post Oak Savannah GCD	0	0	0	0	0	0
Prairielands GCD	11,267	11,267	11,267	11,267	11,267	11,267
Red River GCD	4,996	4,996	4,996	4,996	4,996	4,996
Saratoga UWCD	13	13	13	13	13	13
Southern Trinity GCD	231	231	231	231	231	231
Upper Trinity GCD	13,806	13,806	13,806	13,806	13,806	13,806
Total (excluding non-district areas)	**73,425**	**73,425**	**73,425**	**73,425**	**73,425**	**73,425**
No District	3,257	3,257	3,257	3,257	3,257	3,257
Total (including non-district areas)	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**	**76,682**

Table 16. Modeled available groundwater for the Glen Rose unit of the Trinity Aquifer summarized by groundwater conservation district (GCD) in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year. UWCD refers to Underground Water Conservation District. WD refers to Water District.

Groundwater Conservation District	Year					
	2010	2020	2030	2040	2050	2060
Central Texas GCD	205	205	205	205	205	205
Clearwater UWCD	880	880	880	880	880	880
Fox Crossing WD	66	66	66	66	66	66
Middle Trinity GCD	1,083	1,083	1,083	1,083	1,083	1,083
North Texas GCD	0	0	0	0	0	0
Northern Trinity GCD	112	112	112	112	112	112
Post Oak Savannah GCD	149	149	149	149	149	149
Prairielands GCD	168	168	168	168	168	168
Red River GCD	0	0	0	0	0	0
Saratoga UWCD	773	773	773	773	773	773
Southern Trinity GCD	265	265	265	265	265	265
Upper Trinity GCD	201	201	201	201	201	201
Total (excluding non-district areas)	**3,902**	**3,902**	**3,902**	**3,902**	**3,902**	**3,902**
No District	3,424	3,424	3,424	3,424	3,424	3,424
Total (including non-district areas)	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**	**7,326**

Table 17. Modeled available groundwater for the Hensell unit of the Trinity Aquifer summarized by groundwater conservation district (GCD) in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year. UWCD refers to Underground Water Conservation District. WD refers to Water District.

Groundwater Conservation District	Year					
	2010	2020	2030	2040	2050	2060
Central Texas GCD	690	690	690	690	690	690
Clearwater UWCD	1,099	1,099	1,099	1,099	1,099	1,099
Fox Crossing WD	946	946	946	946	946	946
Middle Trinity GCD	13,254	13,254	13,254	13,254	13,254	13,254
North Texas GCD	4,826	4,826	4,826	4,826	4,826	4,826
Northern Trinity GCD	2,535	2,535	2,535	2,535	2,535	2,535
Post Oak Savannah GCD	36	36	36	36	36	36
Prairielands GCD	3,881	3,881	3,881	3,881	3,881	3,881
Red River GCD	2,548	2,548	2,548	2,548	2,548	2,548
Saratoga UWCD	885	885	885	885	885	885
Southern Trinity GCD	4,190	4,190	4,190	4,190	4,190	4,190
Upper Trinity GCD	6,878	6,878	6,878	6,878	6,878	6,878
Total (excluding non-district areas)	**41,768**	**41,768**	**41,768**	**41,768**	**41,768**	**41,768**
No District	4,476	4,476	4,476	4,476	4,476	4,476
Total (including non-district areas)	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**	**46,244**

Table 18. Modeled available groundwater for the Hosston unit of the Trinity Aquifer summarized by groundwater conservation district (GCD) in Groundwater Management Area 8 for each decade between 2010 and 2060. Results are in acre-feet per year. UWCD refers to Underground Water Conservation District. WD refers to Water District.

Groundwater Conservation District	Year					
	2010	2020	2030	2040	2050	2060
Central Texas GCD	2,469	2,469	2,469	2,469	2,469	2,469
Clearwater UWCD	4,993	4,993	4,993	4,993	4,993	4,993
Fox Crossing WD	1,384	1,384	1,384	1,384	1,384	1,384
Middle Trinity GCD	43,216	43,216	43,216	43,216	43,216	43,216
North Texas GCD	8,349	8,349	8,349	8,349	8,349	8,349
Northern Trinity GCD	5,556	5,556	5,556	5,556	5,556	5,556
Post Oak Savannah GCD	103	103	103	103	103	103
Prairielands GCD	7,146	7,146	7,146	7,146	7,146	7,146
Red River GCD	2,556	2,556	2,556	2,556	2,556	2,556
Saratoga UWCD	1,446	1,446	1,446	1,446	1,446	1,446
Southern Trinity GCD	16,004	16,004	16,004	16,004	16,004	16,004
Upper Trinity GCD	17,464	17,464	17,464	17,464	17,464	17,464
Total (excluding non-district areas)	**110,686**	**110,686**	**110,686**	**110,686**	**110,686**	**110,686**
No District	20,123	20,123	20,123	20,123	20,123	20,123
Total (including non-district areas)	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**	**130,809**

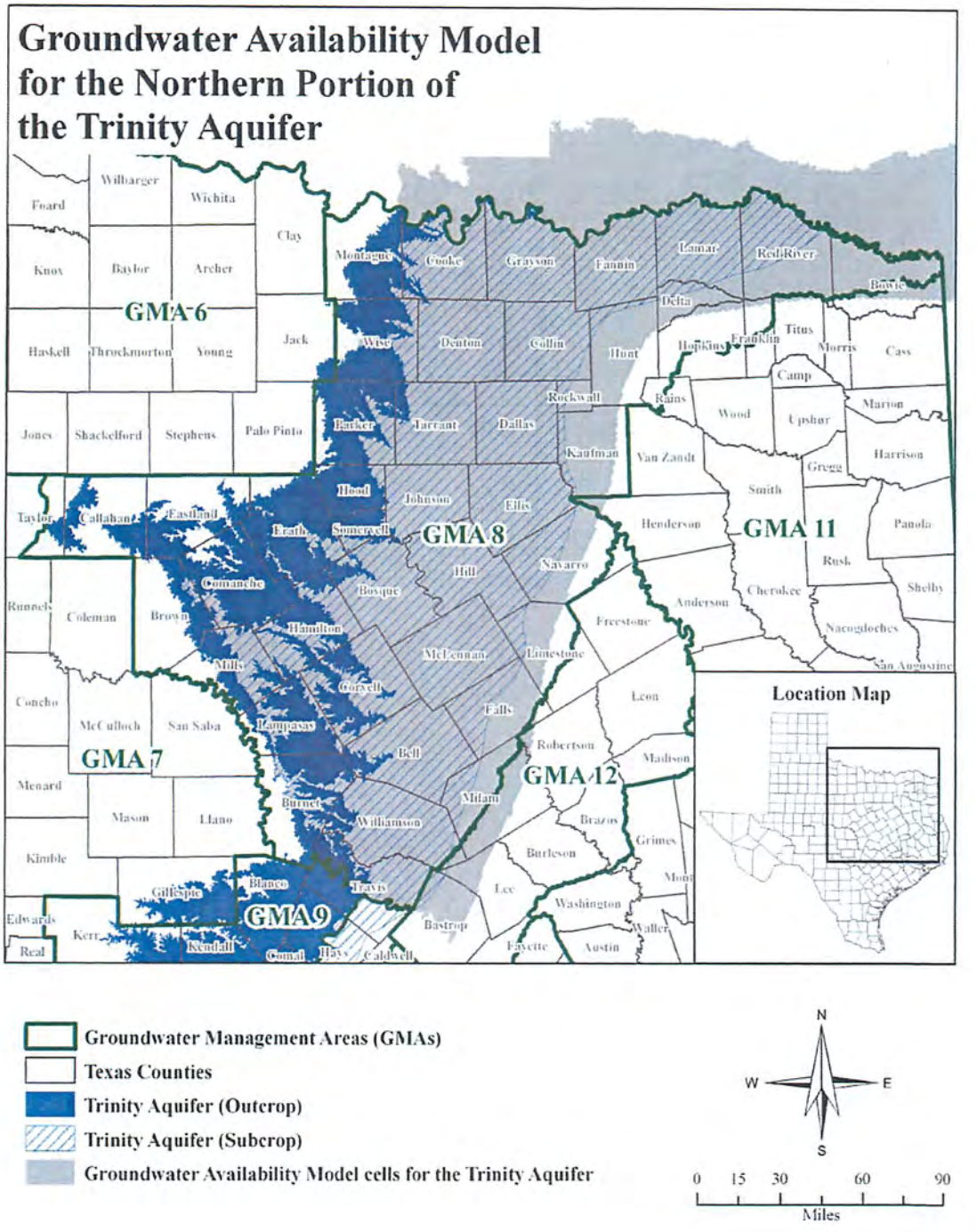


Figure 1. Map showing the areas of the groundwater availability model representing the northern portion of the Trinity Aquifer and the boundary of Groundwater Management Area 8.

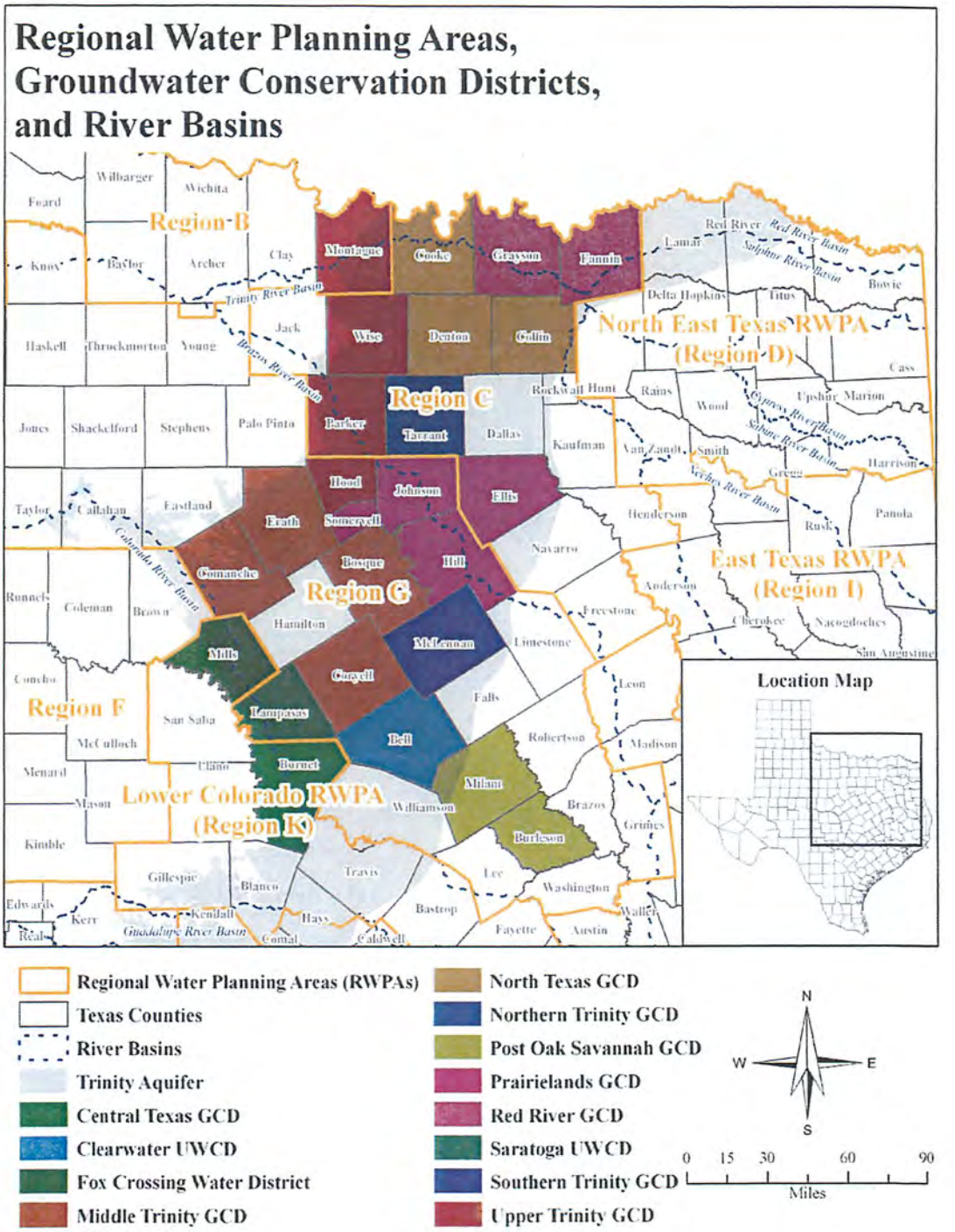


Figure 2. Map showing regional water planning areas (RWPAs), groundwater conservation districts (GCDs), counties, and river basins in and neighboring Groundwater Management Area 8.

Appendix E

GAM Run 08-14-MAG (Woodbine)

GAM Run 08-14mag

by Shirley C. Wade, P.G.
Texas Water Development Board
Groundwater Availability Modeling Section
(512) 463-3132
May 6, 2008

REQUESTOR:

Ms. Cheryl Maxwell of the Clearwater Underground Water Conservation District acting on behalf of Groundwater Management Area 8.

DESCRIPTION OF REQUEST:

In a letter dated December 26, 2007, Ms. Cheryl Maxwell provided the Texas Water Development Board (TWDB) with the desired future conditions for the Edwards (Balcones Fault Zone), Blossom, Brazos River Alluvium, Nacatoch, and Woodbine aquifers in Groundwater Management Area 8 and requested that TWDB estimate managed available groundwater values. This groundwater availability modeling run presents the managed available groundwater for the Woodbine Aquifer in Groundwater Management Area 8.

DESIRED FUTURE CONDITIONS:

Desired future conditions for the Woodbine Aquifer submitted to TWDB by the groundwater conservation districts in Groundwater Management Area 8:

- From estimated year 2000 conditions, the average drawdown should not exceed approximately 154 feet after 50 years in Collin County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 0 feet after 50 years in Cooke County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 112 feet after 50 years in Dallas County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 16 feet after 50 years in Denton County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 102 feet after 50 years in Ellis County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 186 feet after 50 years in Fannin County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 28 feet after 50 years in Grayson County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 87 feet after 50 years in Hill County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 353 feet after 50 years in Hunt County.

- From estimated year 2000 conditions, the average drawdown should not exceed approximately 4 feet after 50 years in Johnson County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 211 feet after 50 years in Kaufman County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 297 feet after 50 years in Lamar County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 61 feet after 50 years in McLennan County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 177 feet after 50 years in Navarro County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 202 feet after 50 years in Red River County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 241 feet after 50 years in Rockwall County.
- From estimated year 2000 conditions, the average drawdown should not exceed approximately 2 feet after 50 years in Tarrant County.

This information is summarized in Table 1.

Table 1. Summary of requested desired future conditions for the Woodbine Aquifer in Groundwater Management Area 8.

County	Average water level decrease (feet)
Collin	154
Cooke	0
Dallas	112
Denton	16
Ellis	102
Fannin	186
Grayson	28
Hill	87
Hunt	353
Johnson	4
Kaufman	211
Lamar	297
McLennan	61
Navarro	177
Red River	202
Rockwall	241
Tarrant	2

EXECUTIVE SUMMARY:

TWDB staff ran the groundwater availability model for the northern part of the Trinity Aquifer and the Woodbine Aquifer to determine the managed available groundwater based on the desired future conditions for the Woodbine Aquifer adopted by the groundwater conservation districts in Groundwater Management Area 8. The results are listed in Table 2:

METHODS:

This request is based on previous GAM run 07-30 (Wade, 2007). In that simulation, average streamflows and evapotranspiration rates were used for each year of the predictive simulation. Average recharge was used for the first forty-seven years of the simulation, followed by a three-year drought-of-record.

PARAMETERS AND ASSUMPTIONS:

The groundwater availability model for the northern part of the Trinity Aquifer was used for this model run. The parameters and assumptions for this model are described below:

- We used version 1.01 of the groundwater availability model for the northern part of the Trinity Aquifer for this run. See Bené and others (2004) for assumptions and limitations of the model.

- The model includes seven layers, representing the Woodbine Aquifer (Layer 1), the Washita and Fredericksburg Series (Layer 2), the Paluxy Formation (Layer 3), the Glen Rose Formation (Layer 4), the Hensell Formation (Layer 5), the Pearsall/Cow Creek/Hammett/Sligo formations (Layer 6), and the Hosston Formation (Layer 7). The Woodbine, Paluxy, Hensell, and Hosston layers are the main aquifers used in the region.

- The mean absolute error (a measure of the difference between simulated and actual water levels during model calibration) for the four main aquifers in the model (Woodbine, Paluxy, Hensell, and Hosston) for the calibration and verification time periods (1980 to 2000) ranged from approximately 37 to 75 feet. The root mean squared error was less than ten percent of the maximum change in water levels across the model (Bené and others, 2004).

- We used average annual recharge conditions based on climate data from 1980 to 1999 for the simulation. The last three years of the simulation used drought-of-record recharge conditions, which were defined as the years 1954 to 1956.

- The model uses the MODFLOW stream-routing package to simulate the interaction between the aquifer(s) and major intermittent streams flowing in the region. Flow both from the stream to the aquifer and from the aquifer to the stream is allowed, and the direction of flow is determined by the water levels in the aquifer and stream during each stress period in the simulation.

- Spatial and vertical pumpage distribution is described in GAM run 07-30 (Wade, 2007).

Table 2. Estimates of managed available groundwater for the Woodbine Aquifer by geographic subdivisions (See Figure 1).

Aquifer	Map Key	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
Woodbine	39	Collin	C	Sabine	None	8	Collin	n/a	40
Woodbine	40	Collin	C	Trinity	None	8	Collin	n/a	2,469
Woodbine	47	Cooke	C	Red	None	8	Cooke	n/a	18
Woodbine	48	Cooke	C	Trinity	None	8	Cooke	n/a	136
Woodbine	50	Dallas	C	Trinity	None	8	Dallas	n/a	2,313
Woodbine	51	Delta	C	Sulphur	None	8	Delta	n/a	20
Woodbine	52	Denton	C	Trinity	None	8	Denton	n/a	4,126
Woodbine	55	Ellis	C	Trinity	None	8	Ellis	n/a	5,441
Woodbine	59	Fannin	C	Red	None	8	Fannin	n/a	2,676
Woodbine	60	Fannin	C	Sulphur	None	8	Fannin	n/a	21
Woodbine	61	Fannin	C	Trinity	None	8	Fannin	n/a	600
Woodbine	69	Grayson	C	Red	None	8	Grayson	n/a	6,590
Woodbine	70	Grayson	C	Trinity	None	8	Grayson	n/a	5,497
Woodbine	83	Hill	G	Brazos	None	8	Hill	n/a	1,249
Woodbine	82	Hill	G	Trinity	None	8	Hill	n/a	1,012
Woodbine	92	Hunt	D	Sabine	None	8	Hunt	n/a	1,867
Woodbine	91	Hunt	D	Sulphur	None	8	Hunt	n/a	849
Woodbine	93	Hunt	D	Trinity	None	8	Hunt	n/a	124
Woodbine	97	Johnson	G	Brazos	None	8	Johnson	n/a	141
Woodbine	96	Johnson	G	Trinity	None	8	Johnson	n/a	4,591
Woodbine	99	Kaufman	C	Sabine	None	8	Kaufman	n/a	0
Woodbine	100	Kaufman	C	Trinity	None	8	Kaufman	n/a	200
Woodbine	102	Lamar	D	Red	None	8	Lamar	n/a	1,910
Woodbine	103	Lamar	D	Sulphur	None	8	Lamar	n/a	1,734
Woodbine	111	Limestone	G	Brazos	None	8	Limestone	n/a	34

Aquifer	Map Key	County	RWPA	River Basin	GCD	GMA	GeoArea	Year	MAG (Acre-feet per year)
Woodbine	114	McLennan	G	Brazos	McLennan C.	8	McLennan	n/a	5
Woodbine	130	Navarro	C	Trinity	None	8	Navarro	n/a	300
Woodbine	137	Red River	D	Red	None	8	Red River	n/a	162
Woodbine	138	Red River	D	Sulphur	None	8	Red River	n/a	4
Woodbine	140	Rockwall	C	Sabine	None	8	Rockwall	n/a	0
Woodbine	141	Rockwall	C	Trinity	None	8	Rockwall	n/a	144
Woodbine	152	Tarrant	C	Trinity	N. Trinity	8	Tarrant	n/a	632

GCD = Groundwater conservation district.

GeoArea = Geographic areas defined by unique desired future conditions as specified by a groundwater management area.

GMA = Groundwater management area.

MAG = Managed available groundwater in units of acre-feet per year.

McLennan C. = McLennan County Groundwater Conservation District

N. Trinity = Northern Trinity Groundwater Conservation District

RWPA = Regional water planning area.

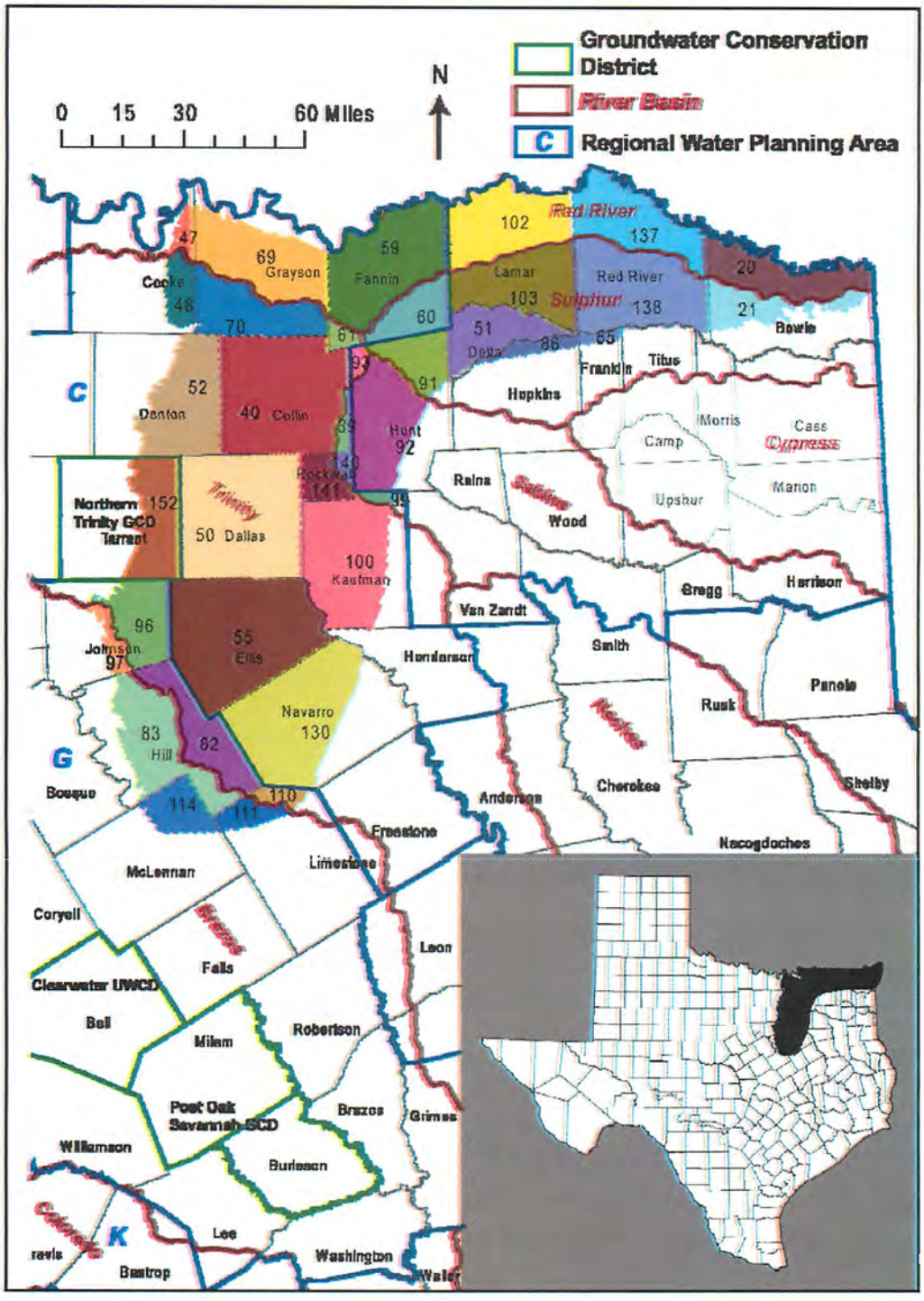


Figure 1. Geographic subdivisions of managed available groundwater for the Woodbine Aquifer. See Table 2 for descriptions of the geographic subdivisions.

RESULTS:

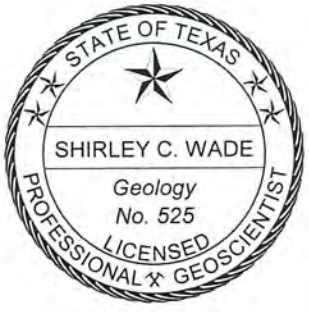
Water level declines in the Woodbine Aquifer for the counties in Groundwater Management Area 8 were verified to meet the desired future conditions developed by groundwater conservation districts in Groundwater Management Area 8. The results (Figure 1 and Table 2) show 44,905 acre-feet per year of managed available groundwater for the Woodbine Aquifer in Groundwater Management Area 8. Under the jurisdiction of the Northern Trinity Groundwater Conservation District, Tarrant County has 632 acre-feet per year of managed available groundwater in the Woodbine Aquifer. The remaining counties in Regional Planning Area C have 30,591 acre-feet per year of managed available groundwater. McLennan County Groundwater Conservation District has 5 acre-feet per year. The remaining counties in Regional Planning Area G have 7,027 acre-feet per year of managed available groundwater. The counties in Regional Planning Area D have 6,650 acre-feet per year of managed available groundwater.

Note that estimates of managed available groundwater are based on the best available scientific tools that can be used to evaluate managed available groundwater and that these estimates can be a function of assumptions made on the magnitude and distribution of pumping in the aquifer. Therefore, it is important for groundwater conservation districts to monitor whether or not they are achieving their desired future conditions and to work with the TWDB to refine managed available groundwater given the reality of how the aquifer responds to the actual magnitude and distribution of pumping now and in the future. In addition, any changes to the assumptions for the volume and distribution of pumpage in the Trinity Aquifer in the counties located within and surrounding the Woodbine Aquifer have the potential of affecting the managed available groundwater estimates described in this report.

REFERENCES:

Bené, J., Harden, B., O'Rourke, D., Donnelly, A., and Yelderman, J., 2004, Northern Trinity/Woodbine Groundwater Availability Model: contract report to the Texas Water Development Board by R.W. Harden and Associates, 391 p.

Wade, S.C., 2007, GAM07-30 Final Report, Texas Water Development Board GAM Run Report, October 26, 2007, 25 p.



The seal appearing on this document was authorized by Shirley Wade, P.G., on May 6, 2008.

Appendix F

Estimated Historical Water Use

and 2012 State Water Plan Datasets

Estimated Historical Water Use And 2012 State Water Plan Datasets:

Prairielands Groundwater Conservation District

by Stephen Allen
Texas Water Development Board
Groundwater Resources Division
Groundwater Technical Assistance Section
stephen.allen@twdb.texas.gov
(512) 463-7317
March 27, 2012

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/gmpchecklist0911.pdf

The five reports included in part 1 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)

   reports 2-5 are from the 2012 State Water Plan (SWP)

Part 2 of the 2-part package is the groundwater availability model (GAM) report. The District should have received this report from the Groundwater Availability Modeling Section. Questions about the GAM can be directed to Dr. Shirley Wade, shirley.wade@twdb.texas.gov, or (512) 463-0749 (to contact the Administrative Assistant).

DISCLAIMER:

The data presented in this report represents the most updated Historical Water Use and 2012 State Water Planning data available as of 3/27/2012. Although it does not happen frequently, neither of these datasets are static and are subject to change pending the availability of more accurate data (Historical Water Use data) or an amendment to the 2012 State Water Plan (2012 State Water Planning data). District personnel must review these datasets and correct any discrepancies in order to ensure approval of their groundwater management plan.

The Historical Water Use dataset can be verified at this web address:

http://www.twdb.texas.gov/wrpi/wus/summary.asp

The 2012 State Water Planning dataset can be verified by contacting Wendy Barron (wendy.barron@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 use estimates are currently unavailable for 2005, 2009 and 2010.
TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

2

ELLIS COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	2,199	1,976	0	0	19	147	4,341
	SW	4,043	461	0	0	0	1,377	5,881
1980	GW	3,765	1,805	0	0	0	146	5,716
	SW	4,876	869	0	0	9	982	6,736
1984	GW	4,927	2,673	0	0	87	101	7,788
	SW	7,154	1,637	0	0	0	914	9,705
1985	GW	5,787	2,740	0	0	87	92	8,706
	SW	8,052	857	0	0	0	829	9,738
1986	GW	5,911	1,400	0	0	90	99	7,500
	SW	5,536	912	0	0	0	895	7,343
1987	GW	5,717	1,654	0	150	76	94	7,691
	SW	6,149	852	0	0	0	851	7,852
1988	GW	5,938	2,673	0	150	84	98	8,943
	SW	7,815	892	0	0	0	890	9,597
1989	GW	5,779	2,398	0	20	73	96	8,366
	SW	8,491	781	0	180	0	865	10,317
1990	GW	5,856	2,871	0	12	73	105	8,917
	SW	7,955	1,041	0	108	0	946	10,050
1991	GW	3,996	2,286	0	12	90	106	6,490
	SW	8,583	1,083	0	108	0	954	10,728
1992	GW	3,770	2,695	0	12	90	129	6,696
	SW	7,880	884	0	108	0	1,158	10,030
1993	GW	4,056	2,615	0	23	90	160	6,944
	SW	9,110	870	0	207	0	1,436	11,623
1994	GW	4,101	2,400	0	20	90	122	6,733
	SW	8,637	999	0	180	0	1,101	10,917
1995	GW	3,340	2,022	0	20	90	131	5,603
	SW	9,731	1,109	0	180	0	1,176	12,196
1996	GW	3,647	2,251	0	23	90	188	6,199
	SW	10,810	1,219	0	207	0	1,688	13,924
1997	GW	4,260	2,175	0	23	90	131	6,679
	SW	10,885	1,421	0	207	0	1,176	13,689
1998	GW	5,357	1,617	0	23	90	115	7,202

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1998	SW	15,152	1,937	0	207	0	1,039	18,335
1999	GW	5,119	1,667	0	23	90	123	7,022
	SW	13,870	1,687	0	207	0	1,105	16,869
2000	GW	5,478	1,536	0	58	90	78	7,240
	SW	16,638	1,513	0	525	0	702	19,378
2001	GW	5,078	6,729	0	52	134	164	12,157
	SW	20,943	4,397	0	531	0	1,474	27,345
2002	GW	4,992	3,226	0	68	134	136	8,556
	SW	16,056	2,108	0	688	0	1,222	20,074
2003	GW	4,890	5,641	0	208	134	120	10,993
	SW	12,147	3,685	0	0	0	1,075	16,907
2004	GW	4,792	2,528	0	208	134	97	7,759
	SW	12,243	1,651	0	0	0	872	14,766
2006	GW	6,707	2,325	0	261	21	22	9,336
	SW	18,894	3,606	0	51	0	1,093	23,644
2007	GW	6,790	2,115	0	166	21	19	9,111
	SW	15,289	3,022	0	0	0	929	19,240
2008	GW	7,664	1,850	0	1,155	21	18	10,708
	SW	15,395	2,279	0	0	0	864	18,538

HILL COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	2,831	496	0	238	3	234	3,802
	SW	0	0	0	324	0	1,269	1,593
1980	GW	2,950	286	0	300	0	231	3,767
	SW	308	0	0	537	0	1,036	1,881
1984	GW	2,426	214	0	0	72	118	2,830
	SW	811	25	0	0	0	1,066	1,902
1985	GW	2,112	199	0	217	72	117	2,717
	SW	1,252	42	0	116	0	1,062	2,472
1986	GW	2,120	203	0	325	75	114	2,837
	SW	1,213	32	0	175	0	1,030	2,450
1987	GW	2,191	146	0	325	63	115	2,840
	SW	1,400	22	0	175	0	1,040	2,637
1988	GW	2,375	108	0	500	69	106	3,158

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1988	SW	1,578	21	0	0	0	964	2,563
1989	GW	2,228	83	0	50	0	111	2,472
	SW	1,233	364	0	215	0	1,005	2,817
1990	GW	2,298	39	0	54	0	128	2,519
	SW	1,355	23	0	229	0	1,160	2,767
1991	GW	2,272	31	0	54	120	130	2,607
	SW	1,200	23	0	229	0	1,164	2,616
1992	GW	2,145	30	0	54	120	135	2,484
	SW	1,320	23	0	229	0	1,216	2,788
1993	GW	2,400	45	0	62	118	177	2,802
	SW	1,873	22	0	221	0	1,594	3,710
1994	GW	2,405	41	0	62	118	143	2,769
	SW	2,329	28	0	197	0	1,290	3,844
1995	GW	2,391	38	0	126	118	143	2,816
	SW	1,990	142	0	446	0	1,290	3,868
1996	GW	2,604	39	0	124	118	202	3,087
	SW	2,103	187	0	441	0	1,821	4,552
1997	GW	2,487	36	0	168	118	133	2,942
	SW	2,312	43	0	595	0	1,189	4,139
1998	GW	2,487	2	0	168	118	137	2,912
	SW	2,645	50	0	595	0	1,240	4,530
1999	GW	2,752	0	0	84	118	146	3,100
	SW	2,920	32	0	299	0	1,313	4,564
2000	GW	1,807	13	0	43	118	140	2,121
	SW	3,117	54	0	0	0	1,261	4,432
2001	GW	2,599	5	0	151	118	79	2,952
	SW	3,010	6	0	0	0	1,288	4,304
2002	GW	2,375	2	0	287	118	74	2,856
	SW	2,727	3	0	0	0	1,222	3,952
2003	GW	2,615	0	0	132	118	76	2,941
	SW	2,671	1	0	320	0	1,238	4,230
2004	GW	2,730	5	0	150	118	74	3,077
	SW	2,690	5	0	15	0	1,216	3,926
2006	GW	2,692	0	0	0	309	59	3,060
	SW	2,630	8	0	1,073	0	1,118	4,829

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
2007	GW	2,469	0	0	0	309	46	2,824
	SW	2,417	0	0	881	0	882	4,180
2008	GW	2,782	0	0	324	309	61	3,476
	SW	2,684	0	0	27	0	1,161	3,872

JOHNSON COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	2,993	445	0	0	231	256	3,925
	SW	3,419	452	0	0	505	958	5,334
1980	GW	5,734	364	0	50	0	664	6,812
	SW	4,805	584	0	0	0	471	5,860
1984	GW	6,074	310	0	0	40	811	7,235
	SW	4,988	602	0	0	77	811	6,478
1985	GW	6,345	321	0	0	87	715	7,468
	SW	5,420	711	0	0	473	715	7,319
1986	GW	6,188	250	0	0	87	687	7,212
	SW	5,301	649	0	0	467	687	7,104
1987	GW	6,603	210	0	100	55	705	7,673
	SW	5,743	345	0	0	238	705	7,031
1988	GW	7,650	193	0	200	57	625	8,725
	SW	5,913	594	0	0	228	625	7,360
1989	GW	6,948	603	0	0	27	617	8,195
	SW	5,305	547	0	0	0	617	6,469
1990	GW	5,809	584	0	0	27	968	7,388
	SW	6,462	364	0	0	0	968	7,794
1991	GW	5,560	467	0	0	332	945	7,304
	SW	7,496	196	0	0	0	945	8,637
1992	GW	5,419	633	0	0	332	1,291	7,675
	SW	6,507	220	0	0	0	1,291	8,018
1993	GW	6,463	644	0	0	324	1,234	8,665
	SW	7,374	228	0	0	0	1,234	8,836
1994	GW	6,678	719	0	0	324	1,302	9,023
	SW	7,440	247	0	0	0	1,302	8,989
1995	GW	6,433	717	0	0	324	1,156	8,630
	SW	7,864	265	0	0	0	1,156	9,285

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1996	GW	7,296	638	0	0	324	1,397	9,655
	SW	8,297	293	0	0	0	1,397	9,987
1997	GW	7,137	621	0	0	324	1,028	9,110
	SW	9,258	435	0	0	0	1,028	10,721
1998	GW	8,470	629	0	0	324	1,071	10,494
	SW	8,749	1,573	0	0	0	1,071	11,393
1999	GW	8,733	630	0	0	324	1,123	10,810
	SW	9,772	1,512	0	0	0	1,123	12,407
2000	GW	7,953	771	0	0	324	1,059	10,107
	SW	13,638	1,221	0	0	0	1,059	15,918
2001	GW	9,296	744	0	0	272	477	10,789
	SW	11,225	571	0	0	0	1,431	13,227
2002	GW	8,079	557	0	0	272	483	9,391
	SW	10,720	428	0	0	0	1,451	12,599
2003	GW	7,086	535	0	0	272	418	8,311
	SW	12,900	410	0	0	0	1,252	14,562
2004	GW	6,812	685	0	0	272	395	8,164
	SW	10,784	525	0	21	0	1,184	12,514
2006	GW	7,703	1,028	0	17	4,594	493	13,835
	SW	15,484	599	207	33	179	1,151	17,653
2007	GW	7,024	998	0	29	4,594	440	13,085
	SW	12,406	802	465	9	179	1,026	14,887
2008	GW	6,694	987	0	95	4,594	469	12,839
	SW	13,410	812	480	69	0	1,095	15,866

SOMERVELL COUNTY

All values are in acre-feet/year

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1974	GW	331	1	0	53	11	36	432
	SW	0	0	0	127	0	134	261
1980	GW	660	0	0	150	0	72	882
	SW	0	0	0	627	1	68	696
1984	GW	715	1	0	521	25	59	1,321
	SW	0	15	0	266	23	59	363
1985	GW	701	1	0	396	291	51	1,440
	SW	0	55	0	204	8	51	318

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
1986	GW	730	1	17	396	210	34	1,388
	SW	0	55	1,299	204	6	34	1,598
1987	GW	720	0	29	396	174	51	1,370
	SW	0	0	3,294	204	5	51	3,554
1988	GW	761	1	22	396	167	57	1,404
	SW	0	55	12,847	204	4	57	13,167
1989	GW	810	0	41	145	261	65	1,322
	SW	0	0	9,800	175	69	65	10,109
1990	GW	771	0	45	158	261	64	1,299
	SW	0	0	9,800	192	69	64	10,125
1991	GW	738	1	52	158	305	65	1,319
	SW	0	0	4,724	192	28	65	5,009
1992	GW	771	4	53	158	458	60	1,504
	SW	0	0	4,724	193	60	60	5,037
1993	GW	817	4	0	196	429	60	1,506
	SW	0	0	7,532	557	46	60	8,195
1994	GW	803	5	71	105	429	69	1,482
	SW	0	0	4,724	369	46	69	5,208
1995	GW	750	4	68	126	310	77	1,335
	SW	0	0	4,035	357	28	77	4,497
1996	GW	850	2	47	118	607	74	1,698
	SW	0	0	6,012	335	28	74	6,449
1997	GW	912	6	36	118	607	99	1,778
	SW	0	0	3,376	335	9	99	3,819
1998	GW	931	0	38	118	384	98	1,569
	SW	0	0	4,068	335	2	98	4,503
1999	GW	967	0	38	118	384	97	1,604
	SW	0	0	4,068	335	2	97	4,502
2000	GW	1,024	5	39	0	384	83	1,535
	SW	0	0	76,466	475	8	83	77,032
2001	GW	982	7	616	0	211	79	1,895
	SW	0	0	57,720	452	3	79	58,254
2002	GW	1,041	5	339	0	515	81	1,981
	SW	0	0	31,823	590	8	81	32,502
2003	GW	1,106	4	440	0	719	64	2,333

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

Groundwater and surface water use estimates are currently unavailable for 2005, 2009 and 2010. TWDB staff anticipates the calculation and posting of such estimates during the first half of 2012.

Year	Source	Municipal	Manufacturing	Steam Electric	Irrigation	Mining	Livestock	Total
2003	SW	0	0	41,224	96	11	64	41,395
2004	GW	1,070	4	475	0	756	64	2,369
	SW	0	0	44,537	81	11	64	44,693
2006	GW	1,096	9	28	83	564	46	1,826
	SW	0	0	46,746	84	167	108	47,105
2007	GW	964	1,645	25	20	520	55	3,229
	SW	0	0	38,184	88	55	129	38,456
2008	GW	1,138	8	22	0	528	46	1,742
	SW	0	0	19,235	39	44	107	19,425

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

ELLIS COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
C	BRANDON-IRENE WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	10	11	11	12	13	15
C	BUENA VISTA - BETHEL SUD	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	560	560	560	560	560	560
C	CEDAR HILL	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	10	8	8	7	6	6
C	COMMUNITY WATER COMPANY	TRINITY	BARDWELL LAKE/RESERVOIR	100	119	112	101	90	80
C	COUNTY-OTHER	TRINITY	BARDWELL LAKE/RESERVOIR	48	39	31	25	19	15
C	COUNTY-OTHER	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	92	72	86	112	117	111
C	COUNTY-OTHER	TRINITY	WAXAHACHIE LAKE/RESERVOIR	198	210	179	123	91	72
C	ENNIS	TRINITY	BARDWELL LAKE/RESERVOIR	3,537	3,355	3,200	3,033	2,817	2,348
C	ENNIS	TRINITY	CLARK LAKE/RESERVOIR	0	0	0	0	0	0
C	ENNIS	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	13	711	1,446	2,034	1,853	2,353
C	FERRIS	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	167	202	209	221	238	244
C	FILES VALLEY WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	208	227	247	265	286	309
C	GLENN HEIGHTS	TRINITY	RAY HUBBARD LAKE/RESERVOIR	64	40	46	51	55	57
C	GLENN HEIGHTS	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	102	109	118	125	128	116
C	GLENN HEIGHTS	TRINITY	TAWAKONI LAKE/RESERVOIR	146	182	217	245	267	282
C	GRAND PRAIRIE	TRINITY	RAY HUBBARD LAKE/RESERVOIR	12	15	39	62	84	75

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Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
C	GRAND PRAIRIE	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	18	41	100	153	197	152
C	GRAND PRAIRIE	TRINITY	TAWAKONI LAKE/RESERVOIR	26	69	184	299	411	370
C	IRRIGATION	TRINITY	TRINITY RIVER COMBINED RUN-OF-RIVER IRRIGATION	3	3	3	3	3	3
C	JOHNSON COUNTY SUD	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	42	55	69	86	104	122
C	LIVESTOCK	TRINITY	LIVESTOCK LOCAL SUPPLY	1,688	1,688	1,688	1,688	1,688	1,688
C	MANSFIELD	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	387	251	281	472	670	802
C	MANUFACTURING	TRINITY	BARDWELL LAKE/RESERVOIR	351	284	225	176	135	95
C	MANUFACTURING	TRINITY	JOE POOL LAKE/RESERVOIR	1,161	536	494	458	416	354
C	MANUFACTURING	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	309	559	827	1,037	1,068	984
C	MANUFACTURING	TRINITY	WAXAHACHIE LAKE/RESERVOIR	795	794	700	520	403	315
C	MIDLOTHIAN	TRINITY	JOE POOL LAKE/RESERVOIR	3,073	3,499	4,066	4,236	4,184	3,936
C	MILFORD	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	84	84	84	84	84	84
C	MOUNTAIN PEAK SUD	TRINITY	JOE POOL LAKE/RESERVOIR	63	538	513	578	723	876
C	OAK LEAF	TRINITY	RAY HUBBARD LAKE/RESERVOIR	50	28	30	32	33	33
C	OAK LEAF	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	80	76	77	77	76	67
C	OAK LEAF	TRINITY	TAWAKONI LAKE/RESERVOIR	114	127	142	152	159	163
C	OAK LEAF	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	40	39	35	31	27	24
C	OVILLA	TRINITY	RAY HUBBARD LAKE/RESERVOIR	155	113	142	162	147	129

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
C	OVILLA	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	248	310	364	398	344	264
C	OVILLA	TRINITY	TAWAKONI LAKE/RESERVOIR	352	517	672	781	719	641
C	PECAN HILL	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	160	183	205	228	254	285
C	RED OAK	TRINITY	JOE POOL LAKE/RESERVOIR	0	0	0	0	0	0
C	RED OAK	TRINITY	RAY HUBBARD LAKE/RESERVOIR	338	280	338	352	339	319
C	RED OAK	TRINITY	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM	537	768	866	864	795	648
C	RED OAK	TRINITY	TAWAKONI LAKE/RESERVOIR	764	1,280	1,596	1,696	1,661	1,579
C	RED OAK	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	118	188	202	192	184	177
C	RICE WSC	TRINITY	BARDWELL LAKE/RESERVOIR	51	39	29	22	16	12
C	RICE WSC	TRINITY	NAVARRO MILLS LAKE/RESERVOIR	76	126	162	198	234	268
C	ROCKETT SUD	TRINITY	JOE POOL LAKE/RESERVOIR	1,394	1,220	1,093	1,073	1,083	1,117
C	ROCKETT SUD	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	3,349	4,675	5,273	5,456	5,198	4,610
C	STEAM ELECTRIC POWER	TRINITY	BARDWELL LAKE/RESERVOIR	601	601	601	601	601	601
C	STEAM ELECTRIC POWER	TRINITY	JOE POOL LAKE/RESERVOIR	187	82	73	64	57	51
C	STEAM ELECTRIC POWER	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	22	62	78	81	80	75
C	WAXAHACHIE	TRINITY	BARDWELL LAKE/RESERVOIR	4,203	3,689	3,192	2,769	2,429	2,132
C	WAXAHACHIE	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	1,633	1,256	2,200	2,989	1,930	1,721
C	WAXAHACHIE	TRINITY	WAXAHACHIE LAKE/RESERVOIR	1,910	1,766	1,760	1,873	1,901	1,889
	Sum of Projected Surface Water Supplies (acre-feet/year)			**29,649**	**31,686**	**34,873**	**36,857**	**34,977**	**33,229**

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

HILL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	BRANDON-IRENE WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	238	236	234	220	200	178
G	COUNTY-OTHER	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	456	456	456	436	408	380
G	COUNTY-OTHER	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	84	84	84	84	83	82
G	COUNTY-OTHER	TRINITY	NAVARRO MILLS LAKE/RESERVOIR	344	344	344	344	344	344
G	FILES VALLEY WSC	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	465	454	443	385	312	225
G	FILES VALLEY WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	75	76	77	77	69	72
G	HILLSBORO	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	4,119	4,119	4,119	3,940	3,684	3,428
G	HUBBARD	TRINITY	NAVARRO MILLS LAKE/RESERVOIR	194	188	183	177	173	173
G	IRRIGATION	BRAZOS	BRAZOS RIVER COMBINED RUN-OF-RIVER IRRIGATION	2,991	2,992	2,993	2,994	2,995	2,995
G	JOHNSON COUNTY SUD	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	40	40	40	40	40	46
G	LAKE WHITNEY WATER COMPANY	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	92	92	92	88	82	76
G	LIVESTOCK	BRAZOS	LIVESTOCK LOCAL SUPPLY	981	981	981	981	981	981
G	LIVESTOCK	TRINITY	LIVESTOCK LOCAL SUPPLY	420	420	420	420	420	420

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	MANUFACTURING	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	250	250	250	250	250	250
G	MINING	TRINITY	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,000	1,000	1,000	1,000	1,000	1,000
G	PARKER WSC	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	20	20	20	20	20	20
G	PARKER WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	10	10	10	10	10	10
	Sum of Projected Surface Water Supplies (acre-feet/year)			**11,779**	**11,762**	**11,746**	**11,466**	**11,071**	**10,680**

JOHNSON COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	ACTON MUD	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	30	30	30	30	30	30
G	BETHESDA WSC	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	1,578	1,578	1,578	1,578	1,578	1,578
G	BURLESON	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	4,449	6,135	6,449	5,501	4,783	4,170
G	CLEBURNE	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	4,372	4,427	4,047	3,513	2,978	2,445
G	CLEBURNE	BRAZOS	PAT CLEBURNE LAKE/RESERVOIR	4,857	4,802	4,747	4,692	4,637	4,581
G	COUNTY-OTHER	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	1,800	1,800	1,800	1,800	1,800	1,800
G	IRRIGATION	BRAZOS	BRAZOS RIVER COMBINED RUN-OF-RIVER IRRIGATION	1,079	1,079	1,079	1,079	1,079	1,079

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	JOHNSON COUNTY SUD	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	2,341	2,308	2,222	2,122	1,988	1,807
G	JOHNSON COUNTY SUD	TRINITY	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	4,000	4,000	4,000	4,000	4,000	4,000
G	JOSHUA	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	18	67	123	198	296
G	JOSHUA	TRINITY	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	0	15	52	96	155	232
G	KEENE	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	32	44	57	71	90	100
G	KEENE	TRINITY	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	725	713	700	686	667	599
G	LIVESTOCK	BRAZOS	LIVESTOCK LOCAL SUPPLY	1,037	1,037	1,037	1,037	1,037	1,037
G	LIVESTOCK	TRINITY	LIVESTOCK LOCAL SUPPLY	1,080	1,080	1,080	1,080	1,080	1,080
G	MANSFIELD	TRINITY	TRWD LAKE/RESERVOIR SYSTEM	165	172	172	173	175	178
G	MINING	BRAZOS	BRAZOS RIVER COMBINED RUN-OF-RIVER MINING	46	48	50	51	53	55
G	MINING	TRINITY	BRAZOS RIVER COMBINED RUN-OF-RIVER MINING	7	7	7	7	7	7
G	MOUNTAIN PEAK SUD	TRINITY	JOE POOL LAKE/RESERVOIR	897	1,120	1,120	1,120	1,120	1,120
G	PARKER WSC	BRAZOS	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	296	296	296	296	296	296

Projected Surface Water Supplies
TWDB 2012 State Water Plan Data

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	PARKER WSC	TRINITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM	10	10	10	10	10	10
G	VENUS	TRINITY	JOE POOL LAKE/RESERVOIR	263	493	858	1,120	1,120	1,120
	Sum of Projected Surface Water Supplies (acre-feet/year)			**29,064**	**31,212**	**31,458**	**30,185**	**28,881**	**27,620**

SOMERVELL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	Source Name	2010	2020	2030	2040	2050	2060
G	COUNTY-OTHER	BRAZOS	BRAZOS RIVER RUN-OF-RIVER	2,000	2,000	2,000	2,000	2,000	2,000
G	IRRIGATION	BRAZOS	BRAZOS RIVER COMBINED RUN-OF-RIVER IRRIGATION	1,070	1,077	1,085	1,092	1,099	1,107
G	LIVESTOCK	BRAZOS	LIVESTOCK LOCAL SUPPLY	166	166	166	166	166	166
G	MANUFACTURING	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	300	300	300	300	300	300
G	STEAM ELECTRIC POWER	BRAZOS	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM	40,351	40,398	40,445	40,492	40,540	40,587
G	STEAM ELECTRIC POWER	BRAZOS	SQUAW CREEK LAKE/RESERVOIR	8,887	8,877	8,868	8,858	8,848	8,838
	Sum of Projected Surface Water Supplies (acre-feet/year)			**52,774**	**52,818**	**52,864**	**52,908**	**52,953**	**52,998**

Projected Water Demands
TWDB 2012 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.

ELLIS COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
C	BARDWELL	TRINITY	103	130	155	182	213	248
C	BRANDON-IRENE WSC	TRINITY	10	11	11	12	13	15
C	BUENA VISTA - BETHEL SUD	TRINITY	1,387	1,810	2,311	2,880	3,502	4,180
C	CEDAR HILL	TRINITY	11	11	10	10	10	10
C	COMMUNITY WATER COMPANY	TRINITY	116	171	201	230	264	304
C	COUNTY-OTHER	TRINITY	2,015	2,003	1,979	1,967	1,955	1,955
C	ENNIS	TRINITY	3,497	4,358	5,504	6,949	8,834	11,308
C	FERRIS	TRINITY	401	447	495	555	630	700
C	FILES VALLEY WSC	TRINITY	208	227	247	265	286	309
C	GLENN HEIGHTS	TRINITY	361	485	602	724	858	1,014
C	GRAND PRAIRIE	TRINITY	74	329	809	1,302	1,842	1,842
C	IRRIGATION	TRINITY	583	583	583	583	583	583
C	ITALY	TRINITY	282	330	362	397	439	489
C	JOHNSON COUNTY SUD	TRINITY	42	55	69	86	104	122
C	LIVESTOCK	TRINITY	1,183	1,183	1,183	1,183	1,183	1,183
C	MANSFIELD	TRINITY	237	475	950	1,662	2,375	2,850
C	MANUFACTURING	TRINITY	3,466	3,670	3,841	3,987	4,089	3,912
C	MAYPEARL	TRINITY	195	238	282	276	272	272
C	MIDLOTHIAN	TRINITY	3,438	6,765	9,174	11,151	13,178	15,206
C	MILFORD	TRINITY	132	130	127	125	122	122
C	MINING	TRINITY	210	140	140	140	140	140
C	MOUNTAIN PEAK SUD	TRINITY	1,207	1,337	1,409	1,607	1,975	2,452
C	OAK LEAF	TRINITY	338	393	448	503	567	640
C	OVILLA	TRINITY	924	1,434	1,917	2,355	2,355	2,355
C	PALMER	TRINITY	271	282	293	303	320	342
C	PECAN HILL	TRINITY	160	183	205	228	254	285
C	RED OAK	TRINITY	2,366	4,022	4,922	5,269	5,612	5,986
C	RICE WSC	TRINITY	127	165	204	242	288	338
C	ROCKETT SUD	TRINITY	4,387	5,586	6,997	8,155	8,704	8,704
C	SARDIS-LONE ELM WSC	TRINITY	2,500	3,298	4,077	4,033	4,010	4,010
C	STEAM ELECTRIC POWER	TRINITY	981	698	1,450	3,741	5,754	7,878
C	WAXAHACHIE	TRINITY	6,855	8,781	10,330	13,090	16,672	21,341

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Projected Water Demands
TWDB 2012 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.

Sum of Projected Water Demands (acre-feet/year)	**38,067**	**49,730**	**61,287**	**74,192**	**87,403**	**101,095**

HILL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	BRANDON-IRENE WSC	TRINITY	251	253	255	256	263	273
G	COUNTY-OTHER	BRAZOS	250	270	296	322	351	386
G	COUNTY-OTHER	TRINITY	18	19	21	23	25	27
G	FILES VALLEY WSC	BRAZOS	338	341	344	347	354	365
G	FILES VALLEY WSC	TRINITY	75	76	77	77	79	82
G	HILLSBORO	BRAZOS	1,819	1,862	1,911	1,957	2,030	2,123
G	HUBBARD	TRINITY	194	188	183	177	173	173
G	IRRIGATION	BRAZOS	43	42	42	42	42	41
G	ITASCA	BRAZOS	210	204	197	192	188	187
G	ITASCA	TRINITY	15	15	15	14	14	14
G	JOHNSON COUNTY SUD	BRAZOS	37	41	46	53	59	65
G	LAKE WHITNEY WATER COMPANY	BRAZOS	623	608	593	578	570	574
G	LIVESTOCK	BRAZOS	981	981	981	981	981	981
G	LIVESTOCK	TRINITY	420	420	420	420	420	420
G	MANUFACTURING	BRAZOS	85	97	108	119	129	140
G	MINING	TRINITY	100	96	94	92	90	89
G	PARKER WSC	BRAZOS	45	47	49	52	56	60
G	PARKER WSC	TRINITY	6	6	7	7	8	8
G	WHITE BLUFF COMMUNITY WS	TRINITY	369	456	553	650	757	875
G	WHITNEY	BRAZOS	365	370	375	380	391	405
G	WOODROW-OSCEOLA WSC	BRAZOS	286	285	284	287	298	319
	Sum of Projected Water Demands (acre-feet/year)		**6,530**	**6,677**	**6,851**	**7,026**	**7,278**	**7,607**

JOHNSON COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	ACTON MUD	BRAZOS	21	27	33	39	47	58
G	ALVARADO	TRINITY	570	607	654	697	766	858
G	BETHANY WSC	TRINITY	363	397	431	471	527	602
G	BETHESDA WSC	TRINITY	2,751	3,415	4,115	4,898	5,863	7,096

Projected Water Demands
TWDB 2012 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	2010	2020	2030	2040	2050	2060
G	BURLESON	TRINITY	4,449	6,687	8,272	8,153	8,096	8,095
G	CLEBURNE	BRAZOS	6,027	6,680	7,343	8,097	9,046	9,879
G	COUNTY-OTHER	BRAZOS	173	175	177	180	184	190
G	COUNTY-OTHER	TRINITY	2,079	2,112	2,146	2,183	2,243	2,327
G	CRESSON	TRINITY	12	14	17	20	24	29
G	GODLEY	BRAZOS	167	206	250	295	355	429
G	GRANDVIEW	TRINITY	230	281	342	334	331	331
G	IRRIGATION	BRAZOS	240	240	240	240	240	240
G	JOHNSON COUNTY SUD	BRAZOS	3,044	3,875	4,782	5,865	7,236	8,750
G	JOHNSON COUNTY SUD	TRINITY	4,992	6,548	8,276	10,336	12,956	15,756
G	JOSHUA	BRAZOS	450	495	544	600	675	773
G	JOSHUA	TRINITY	351	387	424	468	527	604
G	KEENE	BRAZOS	89	101	114	128	147	172
G	KEENE	TRINITY	531	604	684	768	881	1,030
G	LIVESTOCK	BRAZOS	1,037	1,037	1,037	1,037	1,037	1,037
G	LIVESTOCK	TRINITY	1,080	1,080	1,080	1,080	1,080	1,080
G	MANSFIELD	TRINITY	165	172	172	173	175	178
G	MANUFACTURING	BRAZOS	2,106	2,499	2,882	3,272	3,620	3,966
G	MANUFACTURING	TRINITY	15	18	21	23	26	28
G	MINING	BRAZOS	330	348	359	370	381	389
G	MINING	TRINITY	40	42	44	45	46	47
G	MOUNTAIN PEAK SUD	TRINITY	313	420	534	653	809	1,001
G	PARKER WSC	BRAZOS	259	311	363	425	502	600
G	PARKER WSC	TRINITY	28	33	39	45	53	64
G	RIO VISTA	BRAZOS	71	77	85	93	105	122
G	STEAM ELECTRIC POWER	BRAZOS	3,500	7,000	7,000	7,000	7,000	7,000
G	VENUS	TRINITY	363	358	349	344	342	342
	Sum of Projected Water Demands (acre-feet/year)		**35,846**	**46,246**	**52,809**	**58,332**	**65,320**	**73,073**

SOMERVELL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	COUNTY-OTHER	BRAZOS	481	519	547	559	562	566
G	GLEN ROSE	BRAZOS	659	728	785	817	830	836

Projected Water Demands
TWDB 2012 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	2010	2020	2030	2040	2050	2060
G	IRRIGATION	BRAZOS	474	471	468	467	464	461
G	LIVESTOCK	BRAZOS	166	166	166	166	166	166
G	MANUFACTURING	BRAZOS	6	7	8	9	10	11
G	MINING	BRAZOS	304	287	278	270	263	257
G	STEAM ELECTRIC POWER	BRAZOS	84,817	84,817	84,817	84,817	84,817	84,817
	Sum of Projected Water Demands (acre-feet/year)		**86,907**	**86,995**	**87,069**	**87,105**	**87,112**	**87,114**

Projected Water Supply Needs
TWDB 2012 State Water Plan Data

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

ELLIS COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
C	BARDWELL	TRINITY	10	-17	-42	-69	-100	-135
C	BRANDON-IRENE WSC	TRINITY	0	0	0	0	0	0
C	BUENA VISTA - BETHEL SUD	TRINITY	-483	-906	-1,407	-1,976	-2,598	-3,276
C	CEDAR HILL	TRINITY	-1	-3	-2	-3	-4	-4
C	COMMUNITY WATER COMPANY	TRINITY	-16	-52	-89	-129	-174	-224
C	COUNTY-OTHER	TRINITY	123	118	117	93	72	43
C	ENNIS	TRINITY	53	-292	-858	-1,882	-4,164	-6,607
C	FERRIS	TRINITY	-7	-18	-59	-107	-165	-229
C	FILES VALLEY WSC	TRINITY	0	0	0	0	0	0
C	GLENN HEIGHTS	TRINITY	21	-69	-118	-186	-274	-408
C	GRAND PRAIRIE	TRINITY	-15	-191	-442	-707	-1,022	-1,114
C	IRRIGATION	TRINITY	-326	-326	-326	-326	-326	-326
C	ITALY	TRINITY	5	-43	-75	-110	-152	-202
C	JOHNSON COUNTY SUD	TRINITY	0	0	0	0	0	0
C	LIVESTOCK	TRINITY	659	659	659	659	659	659
C	MANSFIELD	TRINITY	150	-224	-669	-1,190	-1,705	-2,048
C	MANUFACTURING	TRINITY	604	-43	-141	-342	-613	-710
C	MAYPEARL	TRINITY	20	-23	-67	-61	-57	-57
C	MIDLOTHIAN	TRINITY	-365	-3,266	-5,108	-6,915	-8,994	-11,270
C	MILFORD	TRINITY	97	99	102	104	107	107
C	MINING	TRINITY	21	91	91	91	91	91
C	MOUNTAIN PEAK SUD	TRINITY	-393	-48	-145	-278	-501	-825
C	OAK LEAF	TRINITY	-38	-99	-130	-170	-222	-295
C	OVILLA	TRINITY	-122	-397	-580	-803	-921	-1,093
C	PALMER	TRINITY	9	-2	-13	-23	-40	-62
C	PECAN HILL	TRINITY	0	0	0	0	0	0
C	RED OAK	TRINITY	98	-661	-937	-1,101	-1,510	-2,097
C	RICE WSC	TRINITY	0	0	-13	-22	-38	-58
C	ROCKETT SUD	TRINITY	356	309	-631	-1,626	-2,423	-2,977
C	SARDIS-LONE ELM WSC	TRINITY	-1,358	-2,150	-2,929	-2,885	-2,862	-2,862
C	STEAM ELECTRIC POWER	TRINITY	629	847	102	-2,195	-4,216	-6,351
C	WAXAHACHIE	TRINITY	891	-491	-924	-2,752	-7,670	-12,558

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Projected Water Supply Needs
TWDB 2012 State Water Plan Data

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

Sum of Projected Water Supply Needs (acre-feet/year)	**-3,124**	**-9,321**	**-15,705**	**-25,858**	**-40,751**	**-55,788**

HILL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	BRANDON-IRENE WSC	TRINITY	116	112	108	93	66	34
G	COUNTY-OTHER	BRAZOS	555	535	509	463	405	341
G	COUNTY-OTHER	TRINITY	327	326	324	322	320	318
G	FILES VALLEY WSC	BRAZOS	127	113	99	38	-42	-140
G	FILES VALLEY WSC	TRINITY	0	0	0	0	-10	-10
G	HILLSBORO	BRAZOS	2,300	2,257	2,208	1,983	1,654	1,305
G	HUBBARD	TRINITY	399	399	399	399	399	399
G	IRRIGATION	BRAZOS	3,307	3,309	3,310	3,311	3,312	3,313
G	ITASCA	BRAZOS	15	21	28	33	37	38
G	ITASCA	TRINITY	4	4	4	5	5	5
G	JOHNSON COUNTY SUD	BRAZOS	22	18	13	6	0	0
G	LAKE WHITNEY WATER COMPANY	BRAZOS	234	249	264	275	277	267
G	LIVESTOCK	BRAZOS	0	0	0	0	0	0
G	LIVESTOCK	TRINITY	0	0	0	0	0	0
G	MANUFACTURING	BRAZOS	307	295	284	273	263	252
G	MINING	TRINITY	1,048	1,052	1,054	1,056	1,058	1,059
G	PARKER WSC	BRAZOS	15	13	11	8	4	0
G	PARKER WSC	TRINITY	12	12	11	11	10	10
G	WHITE BLUFF COMMUNITY WS	TRINITY	-51	-138	-235	-332	-439	-557
G	WHITNEY	BRAZOS	114	109	104	99	88	74
G	WOODROW-OSCEOLA WSC	BRAZOS	-83	-82	-81	-84	-95	-116
	Sum of Projected Water Supply Needs (acre-feet/year)		**-134**	**-220**	**-316**	**-416**	**-586**	**-823**

JOHNSON COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	ACTON MUD	BRAZOS	30	30	30	30	30	30
G	ALVARADO	TRINITY	-216	-253	-300	-343	-412	-504
G	BETHANY WSC	TRINITY	55	21	-73	-113	-169	-244
G	BETHESDA WSC	TRINITY	862	198	-502	-1,285	-2,427	-3,660

Projected Water Supply Needs
TWDB 2012 State Water Plan Data

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

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	BURLESON	TRINITY	0	-552	-1,823	-2,652	-3,313	-3,925
G	CLEBURNE	BRAZOS	4,101	3,448	2,350	1,007	-532	-1,954
G	COUNTY-OTHER	BRAZOS	1,661	1,659	1,657	1,654	1,650	1,644
G	COUNTY-OTHER	TRINITY	419	386	352	315	255	171
G	CRESSON	TRINITY	25	23	20	17	13	8
G	GODLEY	BRAZOS	-91	-130	-174	-219	-279	-353
G	GRANDVIEW	TRINITY	139	88	27	35	38	38
G	IRRIGATION	BRAZOS	839	839	839	839	839	839
G	JOHNSON COUNTY SUD	BRAZOS	8	-856	-1,849	-3,032	-4,537	-6,232
G	JOHNSON COUNTY SUD	TRINITY	292	-1,264	-2,992	-5,052	-7,672	-10,472
G	JOSHUA	BRAZOS	27	0	0	0	0	0
G	JOSHUA	TRINITY	21	0	0	0	0	0
G	KEENE	BRAZOS	0	0	0	0	0	-15
G	KEENE	TRINITY	543	458	365	267	135	-82
G	LIVESTOCK	BRAZOS	0	0	0	0	0	0
G	LIVESTOCK	TRINITY	0	0	0	0	0	0
G	MANSFIELD	TRINITY	0	0	0	0	0	0
G	MANUFACTURING	BRAZOS	-1,360	-1,753	-2,136	-2,526	-2,874	-3,220
G	MANUFACTURING	TRINITY	1	-2	-5	-7	-10	-12
G	MINING	BRAZOS	77	61	52	42	33	27
G	MINING	TRINITY	7	5	3	2	1	0
G	MOUNTAIN PEAK SUD	TRINITY	1,878	1,994	1,880	1,761	1,605	1,413
G	PARKER WSC	BRAZOS	207	155	103	41	-36	-134
G	PARKER WSC	TRINITY	46	41	35	29	21	10
G	RIO VISTA	BRAZOS	147	141	133	125	113	96
G	STEAM ELECTRIC POWER	BRAZOS	-2,156	-5,656	-5,656	-5,656	-5,656	-5,656
G	VENUS	TRINITY	111	346	720	987	989	989
	Sum of Projected Water Supply Needs (acre-feet/year)		**-3,823**	**-10,466**	**-15,510**	**-20,885**	**-27,917**	**-36,463**

SOMERVELL COUNTY

All values are in acre-feet/year

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	COUNTY-OTHER	BRAZOS	2,123	2,085	2,057	2,045	2,042	2,038
G	GLEN ROSE	BRAZOS	100	31	-26	-58	-71	-77
G	IRRIGATION	BRAZOS	596	606	617	625	635	646

Projected Water Supply Needs
TWDB 2012 State Water Plan Data

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

RWPG	WUG	WUG Basin	2010	2020	2030	2040	2050	2060
G	LIVESTOCK	BRAZOS	0	0	0	0	0	0
G	MANUFACTURING	BRAZOS	305	304	303	302	301	300
G	MINING	BRAZOS	590	607	616	624	631	637
G	STEAM ELECTRIC POWER	BRAZOS	-35,579	-35,542	-35,504	-35,467	-35,429	-35,392
	Sum of Projected Water Supply Needs (acre-feet/year)		**-35,579**	**-35,542**	**-35,530**	**-35,525**	**-35,500**	**-35,469**

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

ELLIS COUNTY

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
BARDWELL, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	1	5	9	11	13	16
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	1	1	1	1	2	2
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	11	32	57	85	117
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
BRANDON-IRENE WSC, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	0	0	1	1	1	1
BUENA VISTA - BETHEL SUD, TRINITY (C)							
CONVEYANCE PROJECT (2)	INDIRECT REUSE [DALLAS]	0	0	0	0	0	0
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	108	352	475	616	778	963
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	9	15	19	24	29	35
OVERDRAFT TRINITY AQUIFER - EXISTING WELLS	TRINITY AQUIFER [ELLIS]	366	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	236	419
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	539	913	1,336	1,555	1,859
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
CEDAR HILL, TRINITY (C)							
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	1
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	1	1	1	1	1	1
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	1	1	1	1	1
PURCHASE FROM WATER PROVIDER (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	1	1	1	1	1
PURCHASE FROM WATER PROVIDER (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	1	1	1

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
COMMUNITY WATER COMPANY, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	3	13	11	14	17	22
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	13	0	0	0	0	0
TRWD THIRD PIPELINE AND REUSE	INDIRECT REUSE [NAVARRO]	0	39	78	116	158	204
COUNTY-OTHER, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	17	54	73	81	87	94
NEW WELLS - WOODBINE AQUIFER	WOODBINE AQUIFER [ELLIS]	0	865	865	865	865	865
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	248	288
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
ENNIS, TRINITY (C)							
ENNIS REUSE	INDIRECT REUSE [ELLIS]	0	0	0	333	2,521	3,696
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	150	377	559	775	1,065	1,462
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	35	53	74	102	129	164
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	40	283
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	1	291	742	496	1,113
FERRIS, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	4	14	20	25	31	37
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	3	3	3	4	4	5
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	63	92
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	2	36	78	67	97
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
FILES VALLEY WSC, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	2	6	9	10	12	14
GLENN HEIGHTS, TRINITY (C)							
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	99
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	5	21	33	42	54	67
PURCHASE FROM WATER PROVIDER (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	35	47	43	58	62
PURCHASE FROM WATER PROVIDER (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	50	68	63	89	96
PURCHASE FROM WATER PROVIDER (1)	RAY HUBBARD LAKE/RESERVOIR [RESERVOIR]	12	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM [RESERVOIR]	12	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	65	91	100
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [DALLAS]	0	14	22	23	33	36
SUPPLEMENTAL WELLS	TRINITY AQUIFER [DALLAS]	0	0	0	0	0	0
GRAND PRAIRIE, TRINITY (C)							
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	111
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	3	29	82	143	218	234
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	1	4	6	9	9
PURCHASE FROM WATER PROVIDER (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	11	32	42	74	69
PURCHASE FROM WATER PROVIDER (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	15	47	63	113	106
PURCHASE FROM WATER PROVIDER (1)	RAY HUBBARD LAKE/RESERVOIR [RESERVOIR]	6	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM [RESERVOIR]	6	0	0	0	0	0

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	131	262	365	450	433
PURCHASE FROM WATER PROVIDER (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	65	116	111
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [DALLAS]	0	4	15	23	42	41
PURCHASE FROM WATER PROVIDER (3)	MARVIN NICHOLS LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	0	0
IRRIGATION, TRINITY (C)							
GOLF COURSE CONSERVATION	CONSERVATION [ELLIS]	1	15	29	37	44	51
NEW WELLS - WOODBINE AQUIFER	WOODBINE AQUIFER [ELLIS]	563	563	563	563	563	563
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
ITALY, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	4	13	19	23	27	32
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	17	32
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	30	56	87	108	138
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
JOHNSON COUNTY SUD, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	0	1	1	1	2	1
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	20	28
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	4	15	27	21	30
LIVESTOCK, TRINITY (C)							
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
MANSFIELD, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	15	43	87	156	241	308

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

WUG, Basin (RWPG)

All values are in acre-feet/year

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	2	5	11	16	20
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	383	554
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	171	422	594	661	581
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	8	155	429	404	585
MANUFACTURING, TRINITY (C)							
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	690	681
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	50	128	195	250	277
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [HENDERSON]	0	0	906	1,266	938	934
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
MAYPEARL, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	2	12	18	20	22	24
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	1	1	1	1	2
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	10	48	40	34	31
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
MIDLOTHIAN, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	156	591	905	1,198	1,527	1,890
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	37	74	125	176	210	244
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	736	1,302
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	172	1,859	3,213	4,034	4,693	5,112
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	742	865	1,507	1,828	2,722
WATER TREATMENT PLANT - EXPANSION	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	0

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
WATER TREATMENT PLANT - NEW	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	0
MILFORD, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	1	4	5	5	6	6
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
MINING, TRINITY (C)							
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
MOUNTAIN PEAK SUD, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	37	73	96	125	170	231
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	9	13	14	16	20	26
NEW WELLS - WOODBINE AQUIFER	WOODBINE AQUIFER [ELLIS]	0	200	200	200	200	200
OVERDRAFT TRINITY AQUIFER - EXISTING WELLS	TRINITY AQUIFER [ELLIS]	301	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	JOE POOL LAKE/RESERVOIR [RESERVOIR]	46	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	112	368
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
OAK LEAF, TRINITY (C)							
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	52
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	10	20	29	37	47	59
PURCHASE FROM WATER PROVIDER (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	22	28	24	32	32
PURCHASE FROM WATER PROVIDER (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	32	40	36	48	50
PURCHASE FROM WATER PROVIDER (1)	RAY HUBBARD LAKE/RESERVOIR [RESERVOIR]	7	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM [RESERVOIR]	7	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	15	0	0	0	0	0

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
PURCHASE FROM WATER PROVIDER (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	37	50	52
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [DALLAS]	0	9	13	13	18	19
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	16	20	24	28	31
OVILLA, TRINITY (C)							
CONVEYANCE PROJECT (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	94	137	127	145	131
CONVEYANCE PROJECT (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	188	252	239	270	247
CONVEYANCE PROJECT (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	194	228	211
CONVEYANCE PROJECT (2)	INDIRECT REUSE [DALLAS]	0	38	65	68	82	77
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	211
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	26	72	119	166	186	205
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	1	5	7	9	10	11
PURCHASE FROM WATER PROVIDER (1)	RAY HUBBARD LAKE/RESERVOIR [RESERVOIR]	47	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM [RESERVOIR]	48	0	0	0	0	0
PALMER, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	4	11	16	18	20	23
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	5	20	39
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
PECAN HILL, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	1	5	7	9	11	13
RED OAK, TRINITY (C)							
CONVEYANCE PROJECT (1)	FORK LAKE/RESERVOIR [RESERVOIR]	0	227	320	276	336	321

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
CONVEYANCE PROJECT (1)	RAY HUBBARD LAKE/RESERVOIR [RESERVOIR]	63	0	0	0	0	0
CONVEYANCE PROJECT (1)	RAY ROBERTS-LEWISVILLE-GRAPEVINE LAKE/RESERVOIR SYSTEM [RESERVOIR]	63	0	0	0	0	0
CONVEYANCE PROJECT (2)	INDIRECT REUSE [DALLAS]	0	92	151	148	189	190
FASTRILL REPLACEMENT (REGION C COMPONENT)	NECHES RIVER RUN-OF-RIVER [ANDERSON]	0	0	0	0	0	518
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	27	190	288	354	424	503
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	16	26	28	29	31
PURCHASE FROM WATER PROVIDER (1)	PALESTINE LAKE/RESERVOIR [RESERVOIR]	0	326	467	410	511	497
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	47	60
PURCHASE FROM WATER PROVIDER (1)	WRIGHT PATMAN LAKE/RESERVOIR [RESERVOIR]	0	0	0	420	527	520
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	13	44	71	50	63
SUPPLEMENTAL WELLS	WOODBINE AQUIFER [ELLIS]	0	0	0	0	0	0
RICE WSC, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	2	7	11	14	17	22
PURCHASE FROM WATER PROVIDER (1)	NAVARRO MILLS LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	RICHLAND CHAMBERS LAKE/RESERVOIR NON-SYSTEM PORTION [RESERVOIR]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [HENDERSON]	0	14	34	49	62	71
ROCKETT SUD, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	60	219	349	440	502	531
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	30	38	48	56	60	60
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	1,482	1,833

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	142	1,066	2,102	1,519	1,880
SARDIS-LONE ELM WSC, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	77	173	264	297	329	362
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	23	39	48	48	48	48
OVERDRAFT TRINITY AQUIFER - EXISTING WELLS	TRINITY AQUIFER [ELLIS]	1,258	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	387	476
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	1,938	2,286	1,948	1,691	1,474
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	0	332	593	407	502
SUPPLEMENTAL WELLS	TRINITY AQUIFER [ELLIS]	0	0	0	0	0	0
STEAM ELECTRIC POWER, TRINITY (C)							
PURCHASE FROM WATER PROVIDER (1)	JOE POOL LAKE/RESERVOIR [RESERVOIR]	15	74	51	40	52	48
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	1,816	1,804
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	1,058	1,720	1,803
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	6	22	1,097	647	917
TRA ELLIS COUNTY REUSE	DIRECT REUSE [ELLIS]	0	0	0	0	0	2,200
WAXAHACHIE, TRINITY (C)							
MUNICIPAL CONSERVATION-BASIC	CONSERVATION [ELLIS]	56	433	769	1,089	1,528	2,134
MUNICIPAL CONSERVATION-EXPANDED	CONSERVATION [ELLIS]	0	19	46	73	91	116
PURCHASE FROM WATER PROVIDER (1)	TOLEDO BEND LAKE/RESERVOIR [RESERVOIR]	0	0	0	0	1,217	2,278
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	1,376	4,221	5,885
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [HENDERSON]	0	39	109	941	1,354	2,518
Sum of Projected Water Management Strategies (acre-feet/year)		**3,941**	**11,660**	**19,424**	**30,783**	**46,255**	**61,528**

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

HILL COUNTY

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
FILES VALLEY WSC, BRAZOS (G)							
REALLOCATION OF SOURCE	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	44	96	159
FILES VALLEY WSC, TRINITY (G)							
MUNICIPAL WATER CONSERVATION	CONSERVATION [HILL]	15	35	29	21	20	21
REALLOCATION OF SOURCE	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	10	10
PARKER WSC, BRAZOS (G)							
ADDITIONAL TRINITY AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	TRINITY AQUIFER [JOHNSON]	0	0	0	0	5	5
PARKER WSC, TRINITY (G)							
ADDITIONAL TRINITY AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	TRINITY AQUIFER [JOHNSON]	0	0	0	0	5	5
WHITE BLUFF COMMUNITY WS, TRINITY (G)							
BRA SYSTEM OPERATIONS PERMIT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	600	600	600	600	600	600
MUNICIPAL WATER CONSERVATION	CONSERVATION [HILL]	11	29	31	33	40	45
WOODROW-OSCEOLA WSC, BRAZOS (G)							
BRA SYSTEM OPERATIONS PERMIT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	150	150	150	150	150	150
Sum of Projected Water Management Strategies (acre-feet/year)		**776**	**814**	**810**	**848**	**926**	**995**

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

JOHNSON COUNTY

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
ALVARADO, TRINITY (G)							
ADDITIONAL TRINITY AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	TRINITY AQUIFER [JOHNSON]	401	0	0	0	0	0
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	2,240	2,240	2,240	2,240	2,240
BETHANY WSC, TRINITY (G)							
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	1,120	1,120	1,120	1,120	1,120	1,120
BETHESDA WSC, TRINITY (G)							
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	1,539	2,087	2,881	3,744
BURLESON, TRINITY (G)							
PURCHASE FROM WATER PROVIDER (1)	OKLAHOMA LAKE/RESERVOIR [RESERVOIR - OKLAHOMA]	0	0	0	0	0	925
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	552	0	0	0	0
PURCHASE FROM WATER PROVIDER (3)	MARVIN NICHOLS LAKE/RESERVOIR [RESERVOIR]	0	0	1,823	2,652	3,313	3,000
CLEBURNE, BRAZOS (G)							
FUTURE PHASES OF LAKE WHITNEY WATER SUPPLY PROJECT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	7,572	7,572	7,572	7,572	7,572
INCREASE TREATMENT CAPACITY	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	2,800	2,800	2,800	2,800	2,800
MUNICIPAL WATER CONSERVATION	CONSERVATION [JOHNSON]	240	580	519	482	488	532
NEW WEST LOOP REUSE LINE	DIRECT REUSE [JOHNSON]	680	680	680	680	680	680
PHASE I LAKE WHITNEY WATER SUPPLY PROJECT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	2,128	2,128	2,128	2,128	2,128	2,128

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
WASTEWATER REUSE	DIRECT REUSE [JOHNSON]	351	351	351	351	1,051	2,853
GODLEY, BRAZOS (G)							
BRA SWATS EXPANSION	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	375	375	375	375	375	375
JOHNSON COUNTY SUD, BRAZOS (G)							
BRA SWATS EXPANSION	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	3,170	3,170	3,170	3,170	3,170
MUNICIPAL WATER CONSERVATION	CONSERVATION [JOHNSON]	246	743	1,043	1,504	2,121	2,587
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	2,000	2,000	2,000	2,000	2,000	2,000
JOHNSON COUNTY SUD, TRINITY (G)							
MUNICIPAL WATER CONSERVATION	CONSERVATION [JOHNSON]	245	742	1,042	1,504	2,120	2,584
PURCHASE FROM WATER PROVIDER (1)	TRINITY AQUIFER [DALLAS]	0	3,200	3,200	3,200	3,200	3,200
PURCHASE FROM WATER PROVIDER (1)	TRINITY AQUIFER [TARRANT]	0	163	163	163	163	163
PURCHASE FROM WATER PROVIDER (1)	TRWD LAKE/RESERVOIR SYSTEM [RESERVOIR]	4,726	4,726	4,726	4,726	4,726	4,726
PURCHASE FROM WATER PROVIDER (2)	INDIRECT REUSE [NAVARRO]	0	3,363	3,363	3,363	3,363	3,363
KEENE, BRAZOS (G)							
BRA SYSTEM OPERATIONS PERMIT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	15
KEENE, TRINITY (G)							
BRA SYSTEM OPERATIONS PERMIT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	0	0	0	0	142
MANUFACTURING, BRAZOS (G)							
MANUFACTURING WATER CONSERVATION	CONSERVATION [JOHNSON]	64	124	198	224	245	268

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
VOLUNTARY REDISTRIBUTION	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM [RESERVOIR]	363	717	1,045	1,429	1,773	2,114
VOLUNTARY REDISTRIBUTION	DIRECT REUSE [JOHNSON]	1,000	1,000	1,000	1,000	1,000	1,000
MANUFACTURING, TRINITY (G)							
MANUFACTURING WATER CONSERVATION	CONSERVATION [JOHNSON]	0	2	5	7	10	12
PARKER WSC, BRAZOS (G)							
ADDITIONAL TRINITY AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	TRINITY AQUIFER [JOHNSON]	0	0	0	0	145	145
PARKER WSC, TRINITY (G)							
ADDITIONAL TRINITY AQUIFER DEVELOPMENT (INCLUDES OVERDRAFTING)	TRINITY AQUIFER [JOHNSON]	0	0	0	0	5	5
STEAM ELECTRIC POWER, BRAZOS (G)							
STEAM-ELECTRIC CONSERVATION	CONSERVATION [JOHNSON]	105	350	490	490	490	490
VOLUNTARY REDISTRIBUTION	BRAZOS RIVER AUTHORITY AQUILLA LAKE/RESERVOIR SYSTEM [RESERVOIR]	2,159	5,589	5,449	5,449	5,449	5,449
Sum of Projected Water Management Strategies (acre-feet/year)		**16,203**	**44,287**	**48,041**	**50,716**	**54,628**	**59,402**

SOMERVELL COUNTY

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

Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
COUNTY-OTHER, BRAZOS (G)							
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 1-4)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	200	200	200	200	200	200
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 5-13)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	0	0	516	516	516	516

Projected Water Management Strategies
TWDB 2012 State Water Plan Data

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

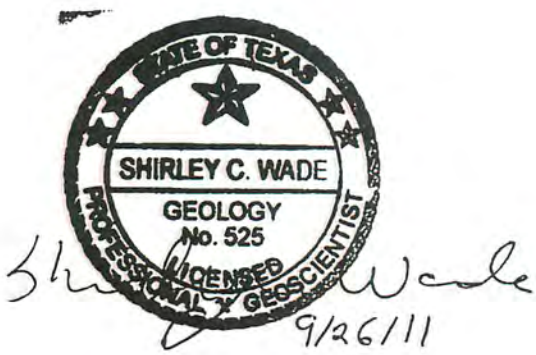
Water Management Strategy	Source Name [Origin]	2010	2020	2030	2040	2050	2060
GLEN ROSE, BRAZOS (G)							
MUNICIPAL WATER CONSERVATION	CONSERVATION [SOMERVELL]	22	47	41	32	28	29
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 1-4)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	340	340	340	340	340	340
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 5-13)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	0	0	260	260	260	260
STEAM ELECTRIC POWER, BRAZOS (G)							
BRA SYSTEM OPERATIONS PERMIT	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	76,270	76,270	76,270	76,270	76,270
REALLOCATION OF SOURCE	BRAZOS RIVER AUTHORITY MAIN STEM LAKE/RESERVOIR SYSTEM [RESERVOIR]	0	26,847	26,847	26,847	26,847	26,847
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 1-4)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	300	300	300	300	300	300
SOMERVELL COUNTY WATER SUPPLY PROJECT (PHASES 5-13)	WHEELER BRANCH OFF-CHANNEL LAKE/RESERVOIR [RESERVOIR]	0	0	184	184	184	184
Sum of Projected Water Management Strategies (acre-feet/year)		**862**	**104,004**	**104,958**	**104,949**	**104,945**	**104,946**

Appendix G

GAM Run 11-004

GAM Run 11-004: Prairielands Groundwater Conservation District Management Plan

by Shirley Wade, Ph.D., P.G.
Texas Water Development Board
Groundwater Resources Division
Groundwater Availability Modeling Section
September 26, 2011



The seal appearing on this document was authorized by Shirley C. Wade, P.G. 525, on September 26, 2011.

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GAM Run 11-004: Prairielands Groundwater Conservation District Management Plan

by Shirley Wade, Ph.D., P.G.
Texas Water Development Board
Groundwater Resources Division
Groundwater Availability Modeling Section
September 26, 2011

EXECUTIVE SUMMARY:

Texas Water Code, Section 36.1071, Subsection (h), states that, in developing its groundwater management plan, groundwater conservation districts shall use groundwater availability modeling information provided by the Executive Administrator of the Texas Water Development Board in conjunction with any available site-specific information provided by the district for review and comment to the Executive Administrator before being used in the plan. Information for your groundwater management plan that was derived from groundwater availability model(s) in this report includes:

- the annual amount of recharge from precipitation to the groundwater resources within the district, if any;
- 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
- the annual volume of flow into and out of the district within each aquifer and between aquifers in the district.

The purpose of this report is to provide Part 2 of a two-part package of information from the Texas Water Development Board to Prairielands Groundwater Conservation District required for its groundwater management plan. The groundwater management plan for Prairielands Groundwater Conservation District is due for approval by the Executive Administrator of the Texas Water Development Board before September 1, 2012.

This report discusses the method, assumptions, and results from a model run using a groundwater model for the northern part of the Trinity Aquifer and the Woodbine Aquifer. Tables 1 and 2 summarize the groundwater model data required by the statute, and figures 1 and 2 show the areas of the model from which the values in the respective tables were extracted. If after review of the figures, Prairielands Groundwater Conservation District determines that the district boundaries used in the assessment do not reflect current conditions, please notify the Texas Water Development Board immediately.

METHODS:

A groundwater model for the northern part of the Trinity Aquifer and the Woodbine Aquifer was run for this analysis. Water budgets for the transient model period were extracted and the average annual water budget values for recharge, surface water outflow, inflow to the district, outflow from the district, net inter-aquifer flow (upper), and net inter-aquifer flow (lower) for the portions of the aquifers located within the district are summarized in this report.

PARAMETERS AND ASSUMPTIONS:

Northern part of the Trinity Aquifer and the Woodbine Aquifer

- Version 1.01 of the groundwater availability model for the northern part of the Trinity Aquifer and the Woodbine Aquifer (Bené and others, 2004) was used for these simulations.
- The model has seven layers which represent the Woodbine Aquifer (Layer 1), the Washita and Fredericksburg Confining Unit (Layer 2), and the Trinity Aquifer (Layer 3 through 7).
- The mean absolute error (a measure of the difference between simulated and actual water levels during model calibration) for individual aquifer layers in the model for the calibration and verification time period (1980 through 1999) ranged from approximately 37 to 75 feet. The root mean square error was less than 10 percent of the maximum change in water levels across the model (Bené and others, 2004).
- As described in Bené and others (2004), the evapotranspiration package used in the groundwater availability model represents evaporation,

transpiration, springs, seeps, and discharge to streams not modeled by the streamflow-routing package. Both the streamflow-routing package and the evapotranspiration package were used, as applicable, to extract information needed for discharges to surface water in this analysis.

- The model was run with MODFLOW-96 (Harbaugh and McDonald, 1996).

RESULTS:

A groundwater budget summarizes the amount of water entering and leaving the aquifer according to the groundwater availability model. Selected components were extracted from the groundwater budget for the aquifers located within the district and averaged over the duration of the calibration and verification portion of the model runs in the district, as shown in tables 1 and 2. The components of the modified budget shown in tables 1 and 2 include:

- 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.
- Surface water outflow—The total water discharging from the aquifer (outflow) to surface water features such as streams, reservoirs, and drains (springs).
- Flow into and out of district—The lateral flow within the aquifer between the district and adjacent counties.
- Flow between aquifers—The vertical flow between aquifers or confining units. This flow is controlled by the relative water levels in each aquifer or confining unit 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 district or county boundaries, 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 (see figures 1 and 2).

LIMITATIONS:

The groundwater model(s) used in completing this analysis is the best available scientific tool that can be used to meet the stated objective(s). 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 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.

TABLE 1: SUMMARIZED INFORMATION FOR THE WOODBINE AQUIFER THAT IS NEEDED FOR PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT'S GROUNDWATER MANAGEMENT PLAN. ALL VALUES ARE REPORTED IN ACRE-FEET PER YEAR AND ROUNDED TO THE NEAREST 1 ACRE-FOOT.

Management Plan requirement	*Aquifer or confining unit*	*Results*
Estimated annual amount of recharge from precipitation to the district	Woodbine Aquifer	28,766
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Woodbine Aquifer	3,618
Estimated annual volume of flow into the district within each aquifer in the district	Woodbine Aquifer	1,911
Estimated annual volume of flow out of the district within each aquifer in the district	Woodbine Aquifer	1,001
Estimated net annual volume of flow between each aquifer in the district	From the Washita Fredericksburg Confining Unit into the Woodbine Aquifer	194

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5a
5b
5c

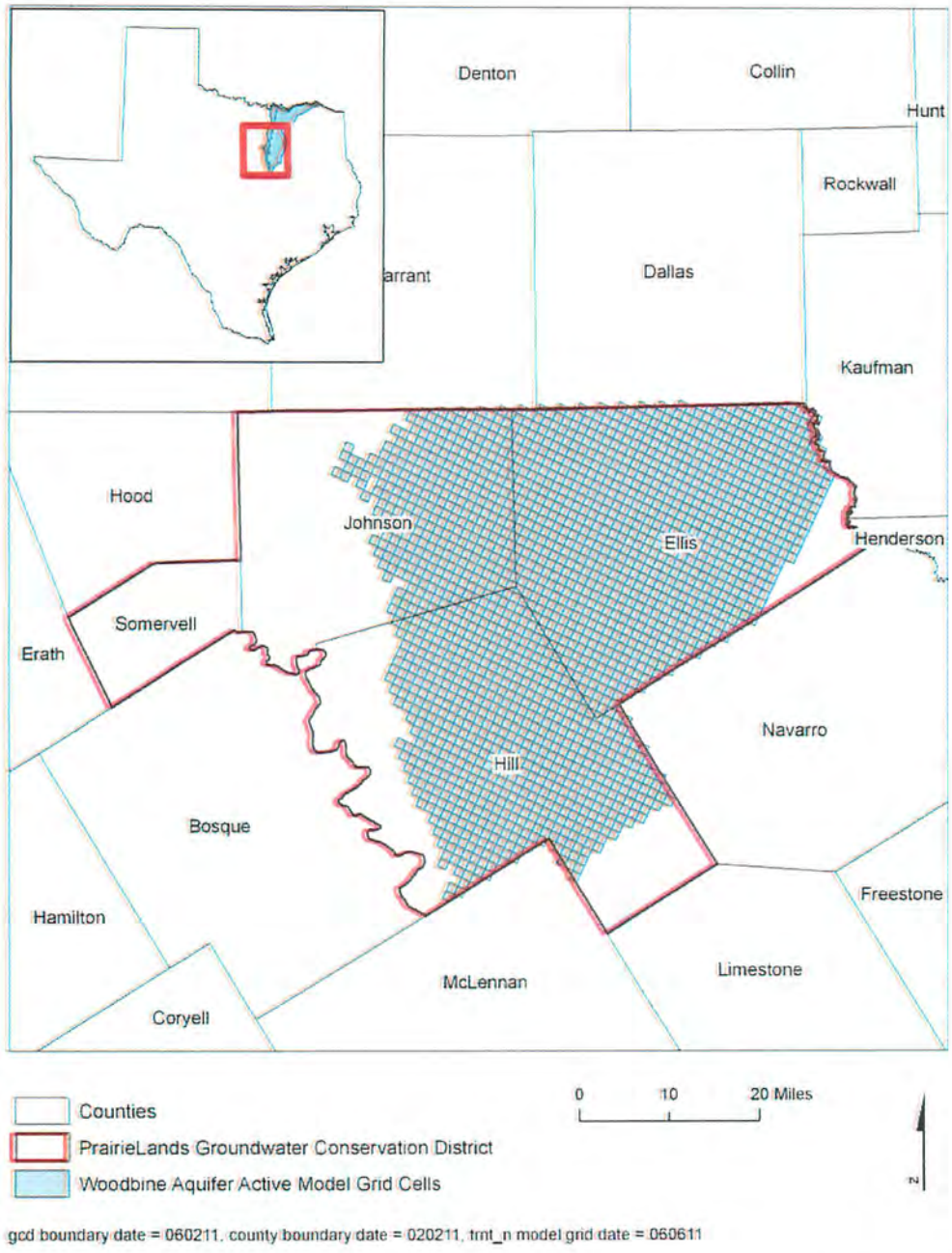

FIGURE 1: AREA OF THE GROUNDWATER MODEL FOR THE WOODBINE AQUIFER (LAYER 1 OF THE MODEL FOR THE NORTHERN PART OF THE TRINITY AQUIFER) FROM WHICH THE INFORMATION IN TABLE 1 WAS EXTRACTED (THE AQUIFER EXTENT WITHIN THE DISTRICT BOUNDARY).

TABLE 2: SUMMARIZED INFORMATION FOR THE TRINITY AQUIFER THAT IS NEEDED FOR PRAIRIELANDS GROUNDWATER CONSERVATION DISTRICT'S GROUNDWATER MANAGEMENT PLAN. ALL VALUES ARE REPORTED IN ACRE-FEET PER YEAR AND ROUNDED TO THE NEAREST 1 ACRE-FOOT.

Management Plan requirement	*Aquifer or confining unit*	*Results*
Estimated annual amount of recharge from precipitation to the district	Trinity Aquifer	11,748
Estimated annual volume of water that discharges from the aquifer to springs and any surface water body including lakes, streams, and rivers	Trinity Aquifer	3,912
Estimated annual volume of flow into the district within each aquifer in the district	Trinity Aquifer	14,261
Estimated annual volume of flow out of the district within each aquifer in the district	Trinity Aquifer	10,240
Estimated net annual volume of flow between each aquifer in the district	From the Washita Fredericksburg Confining Unit into the Trinity Aquifer	658

3

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5a
5b
5c

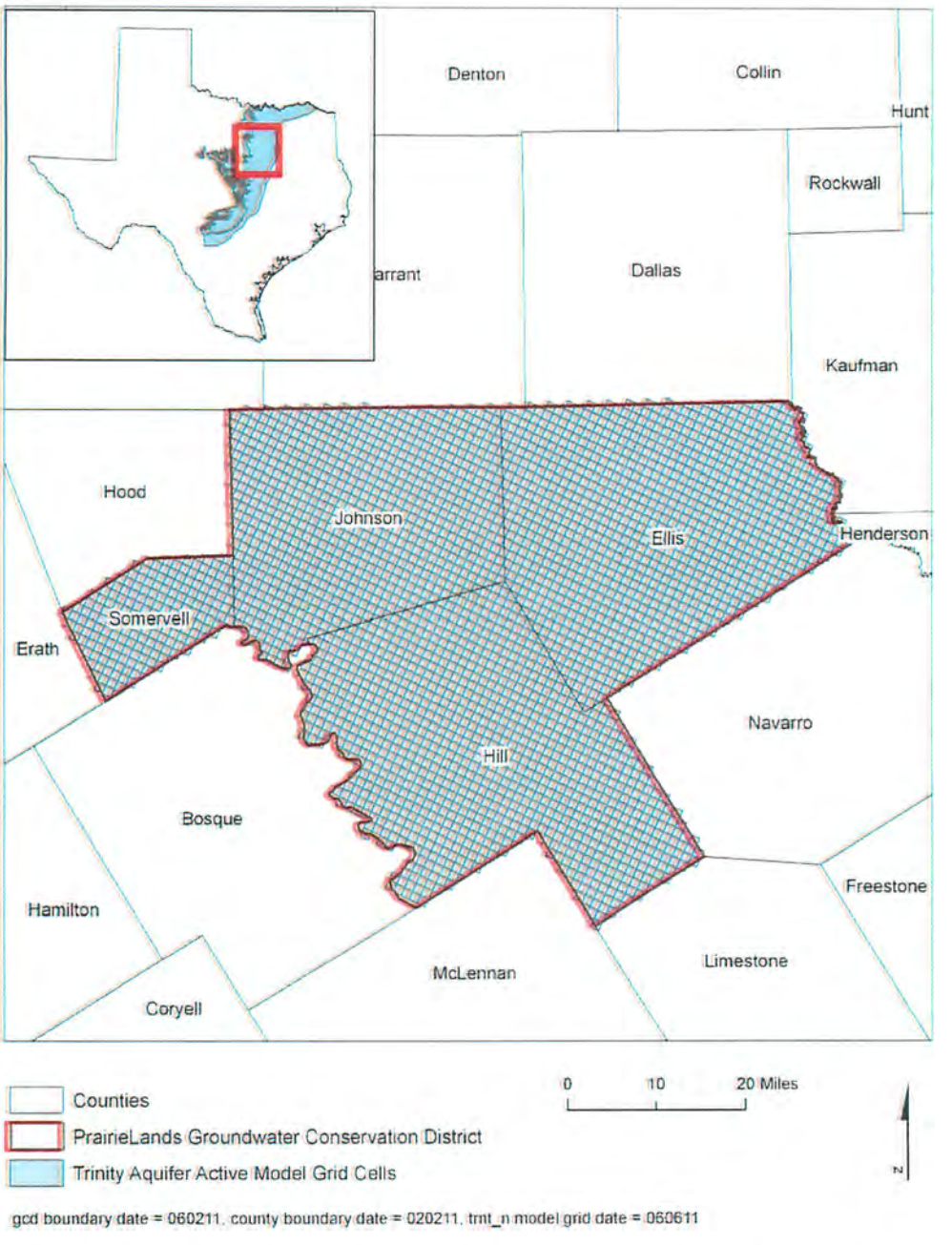

FIGURE 2: AREA OF THE GROUNDWATER MODEL FOR THE NORTHERN PART OF THE TRINITY AQUIFER FROM WHICH THE INFORMATION IN TABLE 2 WAS EXTRACTED (THE AQUIFER EXTENT WITHIN THE DISTRICT BOUNDARY).

REFERENCES:

Bené, J., Harden, B., O'Rourke, D., Donnelly, A., and Yelderman, J., 2004, Northern Trinity/Woodbine Groundwater Availability Model: contract report to the Texas Water Development Board by R.W. Harden and Associates, 391 p., http://www.twdb.state.tx.us/gam/trnt_n/trnt_n.htm.

Harbaugh, A.W., and McDonald, M.G., 1996. User's Documentation for MODFLOW-96, an Update to the U.S. Geological Survey Modular Finite-Difference Ground-Water Flow Model, U.S. Geological Survey, Open-File Report 96-485, 56 p.

National Research Council, 2007. Models in Environmental Regulatory Decision Making. Committee on Models in the Regulatory Decision Process, National Academies Press, Washington D.C., 287 p., http://www.nap.edu/catalog.php?record_id=11972.

10

Prairielands Groundwater Conservation District

Temporary Rules for Water Wells in Ellis, Hill, Johnson, and Somervell Counties, Texas

As Amended on May 23, 2011

Procedural History of Rules Adoption

These temporary rules of the Prairielands Groundwater Conservation District were initially adopted by the Board of Directors on November 15, 2010, at a duly posted public meeting in compliance with the Texas Open Meetings Act and following notice and hearing in accordance with Chapter 36 of the Texas Water Code. In accordance with Section 59 of Article XVI of the Texas Constitution, the District Act, and Chapter 36 of the Texas Water Code, the following rules are hereby adopted as the rules of this District by its Board.

Prairielands

Groundwater Conservation District

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Prairielands Groundwater Conservation District

District Rules

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PREAMBLE

The Prairielands Groundwater Conservation District ("District") was created by the 81st Texas Legislature under the authority of Section 59, Article XVI, of the Texas Constitution, and in accordance with Chapter 36 of the Texas Water Code ("Water Code"), by the Act of May 31, 2009, 81st Leg., R.S., ch. 1208, 2009 Tex. Gen. Laws 3859, codified at TEX. SPEC. DIST. LOC. LAWS CODE ANN. ch. 8855 ("the District Act"). The District is a governmental agency and a body politic and corporate. The District was created to serve a public use and benefit, and is essential to accomplish the objectives set forth in Section 59, Article XVI, of the Texas Constitution. The District's boundaries are coextensive with the boundaries of Ellis, Hill, Johnson, and Somervell Counties, Texas, and all lands and other property within these boundaries will benefit from the works and projects that will be accomplished by the District.

The Mission of the Prairielands Groundwater Conservation District is to develop rules to provide protection to existing wells, prevent waste, promote conservation, provide a framework that will allow availability and accessibility of groundwater for future generations, protect the quality of the groundwater in the recharge zone of the aquifer, insure that the residents of Ellis, Hill, Johnson, and Somervell Counties maintain local control over their groundwater, and operate the district in a fair and equitable manner for all residents of the district.

The District is committed to manage and protect the groundwater resources within its jurisdiction and to work with others to ensure a sustainable, adequate, high quality and cost effective supply of water, now and in the future. The District will strive to develop, promote, and implement water conservation, augmentation, and management strategies to protect water resources for the benefit of the citizens, economy and environment of the District. The preservation of this most valuable resource can be managed in a prudent and cost effective manner through conservation, education, and management. Any action taken by the District shall only be after full consideration and respect has been afforded to the individual property rights of all citizens of the District.

SECTION 1.
DEFINITION, CONCEPTS, AND GENERAL PROVISIONS

Rule 1.1 Definition of Terms.
In the administration of its duties, the District follows the definitions of terms set forth in Chapter 36, Texas Water Code, and other definitions as follows:

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

1. cultivating the soil to produce crops for human food, animal feed, or planting seed or for the production of fibers;

2. the practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or nonsoil media, by a nursery grower;

3. 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;

4. 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;

5. wildlife management; and

6. raising or keeping equine animals.

(2) "Agricultural use" means any use or activity involving agriculture, including irrigation.

(3) "Aquifer" means a water bearing geologic formation in the District.

(4) "As equipped" for purposes of determining the capacity of a well means visible pipes, plumbing, and equipment attached to the wellhead or adjacent plumbing that controls the maximum rate of flow of groundwater and that is permanently affixed to the well or adjacent plumbing by welding, glue or cement, bolts or related hardware, or other reasonably permanent means.

(5) "Beneficial use" or "beneficial purpose" means use of groundwater for:

1. agricultural, gardening, domestic, stock raising, municipal, mining, manufacturing, industrial, commercial, or recreational purposes;

2. exploring for, producing, handling, or treating oil, gas, sulfur, lignite, or other minerals; or

3. any other purpose that is useful and beneficial to the user that does not constitute waste.

(6) "Board" means the Board of Directors of the District.

(7) "District" means the Prairielands Groundwater Conservation District created in accordance with Section 59, Article XVI, Texas Constitution, Chapter 36, Texas Water Code, and the District Act.

(8) "District Act" means the Act of May 31, 2009, 81st Leg., R.S., ch. 1208, 2009 Tex. Gen. Laws 3859, codified at TEX. SPEC. DIST. LOC. LAWS CODE ANN. ch. 8855, as may be amended from time to time.

(9) "Domestic use" means the use of groundwater by an individual or a household to support domestic activity. Such use may include water for drinking, washing, or culinary purposes; for irrigation of lawns, or of a family garden and/or family orchard; for watering of domestic animals. Domestic use does not include water used to support activities for which consideration is given or received or for which the product of the activity is sold. Domestic use does not include use by or for a public water system. Domestic use does not include irrigation of crops in fields or pastures. Domestic use does not include water used for open-loop residential geothermal heating and cooling systems, but does include water used for closed-loop residential geothermal systems. Domestic use does not include pumping groundwater into a pond or other surface water impoundment unless the impoundment has a surface area equal to or smaller than one-third of a surface acre (14,520 square feet).

(10) "Effective date" means November 15, 2010, which was the original date of adoption of these Temporary Rules.

(11) "Emergency purposes" means the use of groundwater:

(a) to fight fires, manage chemical spills, and otherwise address emergency public safety or welfare concerns; or

(b) for training exercises conducted in preparation for responding to fires, chemical spills, and other emergency public safety or welfare concerns.

(12) "Exempt well" means a new or an existing well that is exempt under Rule 2.1 from certain regulatory requirements in these rules.

(13) "Existing well" means a well that was in existence or for which drilling commenced prior to April 1, 2011.

(14) "General Manager" as used herein is the chief administrative officer of the District, as set forth in the District's bylaws, or the District staff or other Board designee acting at the direction of the General Manager or Board to perform the duties of the General Manager.

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

(16) "Groundwater reservoir" means a specific subsurface water-bearing stratum.

(17) "Landowner" means the person who holds possessory rights to the land surface or to the withdrawal of groundwater from wells located on the land surface.

(18) "Leachate well" means a well used to remove contamination from soil or groundwater.

(19) "Livestock" means, in the singular or plural, grass- or plant-eating, single- or cloven-hooved mammals raised in an agricultural setting for subsistence, profit or for its labor, or to make produce such as food or fiber, including cattle, horses, mules, asses, sheep, goats, llamas, alpacas, and hogs, as well as species known as ungulates that are not indigenous to this state from the swine, horse, tapir, rhinoceros, elephant, deer, and antelope families, but does not mean a mammal defined as a game animal in section 63.001, Parks and Wildlife Code, or as a fur-bearing animal in section 71.001, Parks and Wildlife Code, or any other indigenous mammal regulated by the Texas Department of Parks and Wildlife as an endangered or threatened species. The term does not include any animal that is stabled, confined, or fed at a facility that is defined by TCEQ rules as an Animal Feeding Operation or a Concentrated Animal Feeding Operation.

(20) "Meter" or "measurement device" means a water flow measuring device that meets the requirements of Section 8 of these Rules.

(21) "Monitoring well" means a well installed to measure some property of the groundwater or the aquifer that it penetrates, and does not produce more than 5,000 gallons per year.

(22) "New well" means a well for which drilling commenced on or after April 1, 2011.

(23) "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.

(24) "Penalty" means a reasonable civil penalty set by rule under the express authority delegated to the District through Section 36.102(b) of the Texas Water Code.

(25) "Person" means an individual, corporation, limited liability company, organization, government, governmental subdivision, agency, business trust, estate, trust, partnership, association, or other legal entity.

(26) "Poultry" means chickens, turkeys, nonmigratory game birds, and other domestic nonmigratory fowl, but does not include any other bird regulated by the Parks and Wildlife as an endangered or threatened species. The term does not include any animal that is stabled, confined, or fed at a facility that is defined by TCEQ rules as an Animal Feeding Operation or a Concentrated Animal Feeding Operation.

(27) "Production" or "producing" means the act of extracting groundwater from an aquifer by a pump or other method.

(28) "Public Water System" means a system for the provision to the public of water for human consumption through pipes or other constructed conveyances, which includes all uses described under the definition for "drinking water" in 30 Texas Administrative Code, Section 290.38. Such a system must have at least 15 service connections or serve at least 25 individuals at least 60 days out of the year. This term includes any collection, treatment, storage, and distribution facilities under the control of the operator of such system and used primarily in connection with such system, and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system. Two or more systems with each having a potential to serve less than 15 connections or less than 25 individuals but owned by the same person, firm, or corporation and located on adjacent land will be considered a public water system when the total potential service connections in the combined systems are 15 or greater or if the total number of individuals served by the combined systems total 25 or greater at least 60 days out of the year. Without excluding other meanings of the terms "individual" or "served," an individual shall be deemed to be served by a water system if he lives in, uses as his place of employment, or works in a place to which drinking water is supplied from the system.

(29) "Pump" means any facility, device, equipment, materials, or method used to obtain water from a well.

(30) "Registrant" means a person required to submit a registration.

(31) "Registration" means a well owner providing certain information about a well to the District, as more particularly described under Section 3.

(32) "Rule" or "Rules" or "Temporary Rules" means these Temporary Rules of the District regulating water wells, which shall continue to be effective until amended or repealed.

(33) "Spacing requirement" means a well spacing, tract size, or minimum distance requirement established under Rule 4.3.

(34) "Substantially alter" with respect to the size or capacity of a well means to increase the inside diameter of the pump discharge column pipe size of the well in any way or to increase the size of the pump on the well.

(35) "TCEQ" means the Texas Commission on Environmental Quality.

(36) "Transfer" means a change in a registration as follows, except that the term "transfer" shall have its ordinary meaning as read in context when used in other contexts:

(a) ownership; or

(b) the person authorized to exercise the right to make withdrawals and place the groundwater to beneficial use.

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

(a) withdrawal of groundwater from the aquifer at a rate and in an amount that causes or threatens to cause an intrusion into the aquifer unsuitable for agriculture, gardening, domestic, stock raising, or other beneficial purposes;

(b) the flowing or producing of water from the aquifer by artificial means if the water produced is not used for a beneficial purpose;

(c) the escape of groundwater from the aquifer to any other underground reservoir or geologic stratum that does not contain groundwater;

(d) pollution or harmful alteration of groundwater in the aquifer by saltwater or by other deleterious matter admitted from another stratum or from the surface of the ground;

(e) 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 other than that of the owner of the well unless such discharge is authorized by permit, rule, or other order issued by the TCEQ under Chapters 11 or 26 of the Texas Water Code;

(f) 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;

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

(h) operating a deteriorated well; or

(i) producing groundwater in violation of any District rule governing the withdrawal of groundwater through production limits on wells, managed depletion, or both.

(38) "Well" means any artificial excavation located within the boundaries of the District dug or drilled for the purpose of exploring for or withdrawing groundwater from the aquifer.

(39) "Well owner" means the person who owns a possessory interest in: (1) the land upon which a well or well system is located or to be located; (2) the well or well system; or (3) the groundwater withdrawn from a well or well system.

(40) "Well system" means a well or group of wells tied to the same distribution system.

(41) "Withdraw" means the act of extracting or producing groundwater by pumping or other method.

(42) "Year" means a calendar year (January 1 through December 31), except where the usage of the term clearly suggests otherwise.

Rule 1.2 Authority of District.
The Prairielands Groundwater Conservation District is a political subdivision of the State of Texas organized and existing under Section 59, Article XVI, Texas Constitution, Chapter 36, Texas Water Code, and the District Act. The District is a governmental agency and a body politic and corporate. The District was created to serve a public use and benefit.

Rule 1.3 Purpose of Rules.
These Temporary Rules are adopted under the authority of Sections 36.101 and 36.1071(f), Texas Water Code, and the District Act for the purpose of conserving, preserving, protecting, and recharging groundwater in the District in order to prevent subsidence, prevent degradation of water quality, prevent waste of groundwater, and to carry out the powers and duties of Chapter 36, Texas Water Code, and the District Act.

Rule 1.4 Use and Effect of Rules.
These rules are used by the District in the exercise of the powers conferred on the District by law and in the accomplishment of the purposes of the law creating the District. 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 will they, or any part therein, be construed as a limitation or restriction upon the District to exercise powers, duties and jurisdiction conferred by law. These rules create no rights or privileges in any person or water well, and shall not be construed to bind the Board in any manner in its promulgation of the District Management Plan, amendments to these Temporary Rules, or promulgation of permanent rules.

Rule 1.5 Purpose of District.
The purpose of the District is to provide for the conservation, preservation, protection, recharging, and prevention of waste of groundwater, and of groundwater reservoirs or their subdivisions, consistent with the objectives of Section 59, Article XVI, Texas Constitution.

Rule 1.6 Construction.
A reference to a title or chapter without further identification is a reference to a title or chapter of the Texas Water Code. A reference to a section or rule without further identification is a reference to a section or rule in these Rules. Construction of words and phrases is governed by the Code Construction Act, Subchapter B, Chapter 311, Texas Government Code. The singular includes the

plural, and the plural includes the singular. The masculine includes the feminine, and the feminine includes the masculine.

Rule 1.7 Methods of Service Under the Rules.
Except as provided in these rules, any notice or document required by these rules to be served or delivered may be delivered to the recipient or the recipient's authorized representative in person, by agent, by courier receipted delivery, by certified or registered mail sent to the recipient's last known address, or by fax to the recipient's current fax number and shall be accomplished by 5:00 o'clock p.m. on the date which it is due. Service by mail is complete upon deposit in a post office depository box or other official depository of the United States Postal Service. Service by fax is complete upon transfer, except that any transfer commencing after 5:00 o'clock p.m. shall be deemed complete the following business day. If service or delivery is by mail and the recipient has the right or is required to do some act within a prescribed period of time after service, three days will be added to the prescribed period. If service by other methods has proved unsuccessful, service will be deemed complete upon publication of the notice or document in a newspaper of general circulation in the District.

Rule 1.8 Severability.
If a provision contained in these Temporary Rules is for any reason held to be invalid, illegal, or unenforceable in any respect, the invalidity, illegality, or unenforceability does not affect any other rules or provisions of these Temporary Rules, and these Temporary Rules shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in these rules.

Rule 1.9 Regulatory Compliance; Other Governmental Entities.
All registrants of the District shall comply with all applicable rules and regulations of the District and of all other governmental entities. If the District Rules and regulations are more stringent than those of other governmental entities, the District Rules and regulations control.

Rule 1.10 Computing Time.
In computing any period of time prescribed or allowed by these Rules, order of the Board, or any applicable statute, the day of the act, event, or default from which the designated period of time begins to run is not included, but the last day of the period so computed is included, unless it is a Saturday, Sunday, or legal holiday, in which event the period runs until the end of the next day which is neither a Saturday, Sunday, or legal holiday.

Rule 1.11 Time Limits.
Applications, requests, or other papers or documents required or allowed to be filed under these Rules or by law must be received for filing by the District within the time limit for filing, if any. The date of receipt, not the date of posting, is determinative of the time of filing. Time periods set forth in these rules shall be measured by calendar days, unless otherwise specified.

Rule 1.12 Notification to Well Owners.
As soon as practicable after November 15, 2010, the District shall publish notice to inform the well owners of the District's existence, the management authority of the District, and the well owners' duties and responsibilities under these Rules. This provision does not apply to the adoption of amendments to these Rules.

Rule 1.13 Amending of Rules.
The Board may, following notice and hearing, amend or repeal these rules or adopt new rules from time to time.

SECTION 2.
APPLICABILITY OF REGULATORY REQUIREMENTS; EXEMPTIONS

Rule 2.1 Wells Exempt from Fee Payment, Metering, and Reporting Requirements of These Temporary Rules.

(a) The requirements of these Temporary Rules relating to the payment of fees under Section 7, the requirement to install and maintain a meter under Section 8, and the requirement to report to the District the amount of water produced from a well under Section 3 do not apply to the following types of wells:

1. All wells, existing or new, of any size or capacity used solely for domestic use, livestock use, poultry use, or agricultural use;

2. An existing well or new well that does not have the capacity, as equipped, to produce more than 25 gallons per minute and is used in whole or in part for commercial, industrial, municipal, manufacturing, or public water supply use, use for oil or gas or other hydrocarbon exploration or production, or any other purpose of use other than solely for domestic, livestock, poultry, or agricultural use, except as provided by Subsection (b) of this rule; or

3. Leachate wells, monitoring wells, and piezometers.

(b) For purposes of determining whether the exemption set forth under Subsection (a)(2) applies, the capacity of a well that is part of a well system shall be determined by taking the sum of the capacities of each of the individual wells, as equipped, in the system. If the total sum of the capacities is greater than 25 gallons per minute, the well system and the individual wells that are part of it are not exempt from the fee payment, metering, and reporting requirements of these rules.

(c) A well exempted under Subsection (a) will lose its exempt status if the well is subsequently used for a purpose or in a manner that is not exempt under Subsection (a).

(d) A well exempted under Subsection (a)(2) will lose its exempt status if, while the well was registered as an exempt well, the District determines that the well had the capacity, as equipped, to produce more than 25 gallons per minute. Such wells are subject to the fee payment, metering, reporting, and other requirements of these Temporary Rules, and may be subject to enforcement under Section 9.

(e) The owner of a new well that is exempt under this Rule shall nonetheless register the well with the District, as required under Section 3.

Rule 2.2 Wells Subject to Fee Payment, Metering, and Reporting Requirements of These Temporary Rules

All wells not described as exempt under Rule 2.1(a) are subject to the fee payment, metering, reporting, registration, and other requirements of these Temporary Rules, except as otherwise provided under Rules 2.4 or 2.5. Such wells include wells with a capacity, as equipped, to produce more than 25 gallons per minute and that are used in whole or in part for any purpose of use other than solely for domestic use, livestock use, poultry use, or agricultural use.

Rule 2.3 Exemption from Production Fees for Groundwater Used for Certain Emergency Purposes

(a) Groundwater produced within the boundaries of the District is exempt from the assessment of applicable Water Use Fees and Groundwater Transport Fees otherwise required by Section 7 if the groundwater is used by a fire department or an emergency services district solely for emergency purposes and the use is qualified under Subsection (b).

(b) To qualify for the exemption provided for in Subsection (a), a fire department or emergency services district that uses groundwater produced from within the District, or a person that supplies groundwater produced from within the District to a fire department or emergency services district, shall submit to the District a Water Production Report that complies with Rule 3.10.

Rule 2.4 Exemption from Production Fees for Groundwater Used for Maintenance Purposes

Groundwater used for the purposes of flushing lines, tanks, or fire hydrants as required by TCEQ are exempt from fees if an approved metering device or an alternative measuring method approved by the District is used. These amounts shall be noted on the water production report and, only for purposes of calculating fees due, subtracted from the total amount pumped.

Rule 2.5 Exemption from Production Fees, Metering, and Reporting Requirements for Groundwater Used for Well Development

Groundwater produced from a well during its development or rehabilitation, including groundwater used in pump tests, is exempt from the requirements relating to the payment of fees under Section 7, the requirement to install and maintain a meter under Section 8, and the requirement to report to the District the amount of water produced from a well under Section 3. However, use of the well must comply with those requirements before being placed into operation unless otherwise exempt under these rules.

SECTION 3.
REGISTRATIONS, RECORDS, REPORTS, AND LOGS; PERMIT NOT REQUIRED

Rule 3.1 Purpose and Policy

The accurate and timely reporting to the District of activities governed by these Rules is a critical component to the District's ability to effectively and prudently manage the groundwater resources that it has been charged by law with regulating. The purpose of Section 3 is to require the submission, by the appropriate person or persons, of complete, accurate, and timely registrations, records, reports, and logs as required throughout the District Rules. Because of the important role that accurate and timely reporting plays in the District's understanding of past, current and anticipated groundwater conditions within the District, the failure to comply with these rules may result in the assessment of additional fees, civil penalties, or any combination of the same, as specifically set forth under Section 9.

Rule 3.2 Permit Not Required Under Temporary Rules.

No permit of any kind is required under these Temporary Rules. Notwithstanding Chapter 36, Water Code, a permit is not required under these Temporary Rules to drill, equip, operate, or complete a well, produce water from a well, or to substantially alter the size or capacity of a well. Permitting requirements will be developed and adopted by the District in the future after it has had a sufficient opportunity to develop a management plan and carefully consider various regulatory approaches and how such approaches may impact landowners and other water users in the District while achieving proper management of the groundwater resources. Permitting rules will be adopted only after ample opportunity has been afforded the public to participate in the development of such rules.

Rule 3.3 Well Registration.

(a) The following wells must be registered with the District:

1. all new wells drilled on or after April 1, 2011, including new wells exempt under Rule 2.1(a);

2. all existing wells that are not exempt under Rule 2.1(a).

(b) A person seeking to register a well shall provide the District with the following information in the registration application on a form provided by the District:

1. the name and mailing address of the registrant and the owner of the property, if different from the registrant, on which the well is or will be located;

2. if the registrant is other than the owner of the property, documentation establishing the applicable authority to file the application for well registration,

serve as the registrant in lieu of the property owner, and construct and operate a well for the proposed use;

3. a statement of the nature and purpose of the existing or proposed use of water from the well;

4. the location or proposed location of the well, identified as a specific point measured by latitudinal and longitudinal coordinates;

5. the location or proposed location of the use of water from the well, if used or proposed to be used at a location other than the location of the well;

6. the production capacity or proposed production capacity of the well, as equipped, in gallons per minute, as well as the pump manufacturer's horsepower rating of the pump;

7. a water well closure plan or a declaration that the applicant will comply with well plugging guidelines and report closure to the District;

8. a statement that the water withdrawn from the well will be put to beneficial use at all times; and

9. any other information deemed necessary by the Board.

(c) The timely filing of an application for registration shall provide the owner of a well described under Subsection (a)(2) with evidence that a well existed before April 1, 2011, for purposes of establishing the well as an existing well, grandfathering the well from the requirement to comply with any well location or spacing requirements of the District, and any other entitlements that existing wells may receive under these Temporary Rules or under permanent rules adopted by the District. A well that is required to be registered under this Rule and that is not exempt under Rule 2.1(a) shall not be operated after July 1, 2011, without first complying with the metering provisions set forth under Section 8.

(d) Once a registration is complete, which for new wells also includes receipt by the District of the well report required by Rule 3.7 and the well registration fee required by Rule 7.8, the registration shall be perpetual in nature, subject to being amended or transferred and to enforcement for violations of these Rules.

Rule 3.4 Registration of Existing Non-Exempt Wells Required Before July 1, 2011.

(a) The owner of an existing well described under Rule 3.3(a)(2) must register the well with the District between April 1 and June 30, 2011, and must install a meter on the well as set forth under Section 8 of these rules by July 1, 2011. Failure of the owner of such a well to timely register the well under this Rule shall subject the well owner to enforcement under these Rules. Any owner wishing to participate in an early fee payment incentive program under Rule 7.4 for calendar year 2011 must register the well with the District before July

1, 2011, and for owners participating under Rule 7.4(b), pre-pay estimated fees no later than July 1, 2011.

(b) Although not required under these Temporary Rules, the owner of an existing well exempt under Rule 2.1(a) may elect to register the well with the District to provide the owner with evidence that the well existed before April 1, 2011, for purposes of establishing the well as an existing well, grandfathering the well from the requirement to comply with any well location or spacing requirements of the District, and any other entitlements that existing wells may receive under these Temporary Rules or under permanent rules adopted by the District.

Rule 3.5 Registration of New Wells or Alterations to Existing Wells Required Prior to Drilling or Alteration.

(a) An owner or well driller, or any other person legally authorized to act on their behalf, must submit and obtain approval of a registration application, submit the well registration fee under Rule 7.8, and submit the well report deposit under Rule 7.7 with the District before any new well, except leachate wells or monitoring wells, may be drilled, equipped, or completed, or before an existing well may be substantially altered with respect to size or capacity, beginning on and after April 1, 2011.

(b) A registrant for a new well has 120 days from the date of approval of its application for well registration to drill and complete the new well, and must file the well report within 60 days of completion. However, a registrant may apply for up to two extensions of an additional 120 days each, which shall be granted by the General Manager without the need for consideration or action by the Board. Any additional extensions of time may only be authorized by the Board.

(c) If the well report is timely submitted to the District, the District shall return the well report deposit to the owner or well driller. In the event that the well report required under this rule and Rule 3.7 are not filed within the deadlines set forth under Subsection (b) of this rule, the driller or owner shall forfeit the well report deposit and shall be subject to enforcement by the District for violation of this rule.

(d) Notwithstanding any other rule to the contrary, the owner and driller of a new well are jointly responsible for ensuring that a well registration required by this section is timely filed with the District and contains only information that is true and accurate. Each will be subject to enforcement action if a registration required by this section is not timely filed by either, or by any other person legally authorized to act on the behalf of either.

Rule 3.6 General Provisions Applicable to Registrations.

(a) Registration applications may be submitted to the District in person, by mail, or by fax, or by email or internet once such services become available from the District, using the registration form provided by the District.

(b) A determination of administrative completeness of a registration application shall be made by the General Manager within five business days after the date of receipt of an application for registration and any applicable deposit and fee. If an application is not administratively complete, the District shall request the applicant to complete the application. The application will expire if the applicant does not complete the application within 120 days of the date of the District's request. An application will be considered administratively complete and may be approved by the General Manager without notice or hearing if:

(1) it substantially complies with the requirements set forth under Rule 3.3(b), including providing all information required to be included in the application that may be obtained through reasonable diligence; and

(2) if it is a registration for a new well:

(A) includes the well report deposit and well registration fee; and

(B) proposes a well that complies with the spacing, location, and well completion requirements of Section 4.

A person may appeal the General Manager's ruling by filing a written request for a hearing before the Board. The Board will hear the applicant's appeal at the next regular Board meeting. The General Manager may set the application for consideration by the Board at the next available Board meeting or hearing in lieu of approving or denying an application.

(c) Upon approval or denial of an application, the General Manager shall inform the registrant in writing by regular mail of the approval or denial, as well as whether the well meets the exemptions provided in Rule 2.1 or whether it is subject to the metering, fee payment, and reporting requirements of these Rules. The General Manager shall also attempt to contact the registrant by phone, fax, or email if the applicant provided a phone number, fax number, or email address.

(d) An application pursuant to which a registration has been issued is incorporated in the registration, and the registration is valid contingent upon the accuracy of the information supplied in the registration application. A finding that false information has been supplied in the application may be grounds to refuse to approve the registration or to revoke or suspend the registration.

(e) Submission of a registration application constitutes an acknowledgment by the registrant of receipt of the rules and regulations of the District and agreement that the registrant will comply with all rules and regulations of the District.

(f) The District may amend any registration, in accordance with these Rules, to accomplish the purposes of the District Rules, management plan, the District Act, or Chapter 36, Texas Water Code.

(g) If multiple wells have been aggregated under one registration and one or more wells under the registration will be transferred, the District will require separate registration applications from each new owner for the wells retained or obtained by that person.

(h) No person shall operate or otherwise produce groundwater from a well required under this Section to be registered with the District before:

(1) timely submitting an accurate application for registration, or accurate application to amend an existing registration as applicable, of the well to the District; and

(2) obtaining approval from the District of the application for registration or amendment application, if such approval is required under these Rules.

Rule 3.7 Records of Drilling, Pump Installation and Alteration Activity, and Plugging

(a) Each person who drills, deepens, completes or otherwise alters a well shall make, at the time of drilling, deepening, completing or otherwise altering the well, a legible, complete, and accurate well report recorded on the Texas Department of Licensing and Regulation "Well Report" form.

(b) The person who drilled, deepened, completed or otherwise altered a well pursuant to this rule shall, within 60 days after the date the well is completed, file the well report described in Subsection (a) with the District.

(c) Not later than the 30th day after the date a well is plugged, a driller, licensed pump installer, or well owner who plugs the well shall submit a plugging report to the District, which shall be substantially similar in form to the Texas Department of Licensing and Regulation Form a004WWD (Plugging Report) and shall include all information required therein.

Rule 3.8 Transfer of Well Ownership

(a) Within 90 days after the date of a change in ownership of a well exempt under Rule 2.1, the new well owner (transferee) shall notify the District in writing of the effective date of the change in ownership, the name, daytime telephone number, and mailing address of the new well owner, along with any other contact or well-related information reasonably requested by the General Manager. The new well owner may, in addition, be required to submit an application for registration of an existing well if a registration does not yet exist for the well.

(b) Within 90 days after the date of a change in ownership of a well that is not exempt under District Rule 2.1 from the fee payment, metering, and reporting requirements of these rules, the new well owner (transferee) shall submit to the District, on a form provided by the District staff, a signed and sworn-to application for transfer of ownership.

(c) If a registrant conveys by any lawful and legally enforceable means to another person the real property interests in one or more wells or a well system that is recognized in the registration so that the transferring party (the transferor) is no longer the "well owner" as defined herein, and if an application for change of ownership under subsection (b) has been approved by the District, the District shall recognize the person to whom such interests were conveyed (the transferee) as the legal holder of the registration, subject to the conditions and limitations of these District Rules.

(d) The burden of proof in any proceeding related to a question of well ownership or status as the legal holder of a registration issued by the District and the rights thereunder shall be on the person claiming such ownership or status.

(e) Notwithstanding any provision of this Rule to the contrary, no application made pursuant to Subsection (b) of this Rule shall be granted by the District unless all outstanding fees, penalties, and compliance matters have first been fully and finally paid or otherwise resolved by the transferring party (transferor) for all wells included in the application or existing registration, and each well and registration made the subject of the application is otherwise in good standing with the District.

(f) The new owner of a well that is the subject of a transfer described in this rule (transferee) may not operate or otherwise produce groundwater from the well after 90 days from the date of the change in ownership until the new owner has:

(1) submitted written notice to the District of the change in ownership, for wells described in subsection (a); or

(2) submitted to the District a completed application for transfer of ownership, for wells described in subsection (b).

A new well owner that intends to alter or use the well in a manner that would constitute a substantial change from the information in the existing registration or that would trigger the requirement to register the well under these Rules must also submit and obtain District approval of a registration application or registration amendment application, as applicable, prior to altering or operating the well in the new manner.

Rule 3.9 Amendment of Registration

A registrant shall file an application to amend an existing registration and obtain approval by the District of the application prior to engaging in any activity that would constitute a substantial change from the information in the existing registration. For purposes of this rule, a substantial change includes a change that would substantially alter the size or capacity of a pump or well, a change in the type of use of the water produced, the addition of a new well to be included in an already registered aggregate system, a change in location of a well or proposed well, a change of the location of use of the groundwater, or a change in ownership of a well. A registration amendment is not required for maintenance or repair of a well if the maintenance or repair does not substantially alter the size or production capacity of the pump or well.

Rule 3.10 Water Production Reports

(a) Not later than September 1 and March 1 of each year, the owner or operator of any non-exempt well within the District must submit, on a form provided by the District, a report containing the following:

(1) the name of the registrant;

(2) the well numbers of each registered well within the District owned or operated by the registrant;

(3) the total amount of groundwater produced by each well or well system during the immediately preceding reporting period;

(4) the total amount of groundwater produced by each well or well system during each month of the immediately preceding reporting period;

(5) the purposes for which the water was used;

(6) for water used at a location other than the property on which the well is located, and that is not used by a fire department or emergency services district for emergency purposes or by a public water system:

(A) the location of the use of the water; and

(B) if the water was sold on a retail or wholesale basis, the name of the person to whom it was sold and the quantity sold to each person; and

(7) for water used at a location other than the property on which the well is located and that is used by a public water system, a description of identified system losses, including:

(A) an estimate of the total quantity, reported in gallons or in percentages of total annual production, of actual water lost to system loss;

(B) the sources of system losses reported under Subpart (A); and

(C) the methods, if any, employed to address the system losses reported under this subsection; and

(8) additionally, for fire departments, emergency services districts, and any person that provides groundwater produced from within the District to a fire department or emergency services district and that seeks a fee payment exemption under Rule 2.3:

(A) the total amount of groundwater produced or used, as applicable, solely for emergency purposes during each month of the reporting period provided for under this Rule; and

(B) the total amount of groundwater produced or used, as applicable, for any purpose other than for emergency purposes during each month of the reporting period provided for under this Rule.

(b) There shall be two semiannual reporting periods each year. The report due on or before March 1 shall report groundwater produced during the period of the immediately preceding July 1 to December 31. The report due on or before September 1 shall report groundwater produced during the reporting period of the immediately preceding January 1 to June 30. To comply with this rule, the registrant of a well shall read each water meter associated with a well within 15 days before or after June 30 and within 15 days before or after December 31 each year and report the readings to the District on the form described in Subsection (a). Additionally, to comply with this rule, all applicable information required under Subsection (a) must be contained in the Water Production Report filed with the District.

(c) The report required by Subsection (a) must also include a true and correct copy of the meter log required by District Rule 8.6. Once the District makes on-line submission of Water Production Reports and meter logs available by internet to well owners, all such reports and logs may be submitted via internet.

(d) The first deadline to submit a report to the District under this Rule is:

(1) March 1, 2012, for existing wells and for new wells completed before July 1, 2011; and

(2) no later than the first September 1 or March 1 following the semiannual reporting period during which the well was completed for new wells completed on or after July 1, 2011.

(e) Notwithstanding any other rule to the contrary, the owner and any operator of a well are jointly responsible for ensuring that Water Production Reports and meter logs required by this rule are timely filed with the District and contain only information that is true and accurate. Each will be subject to enforcement action if a report or log required by this rule is not timely filed by either, or by any other person legally authorized to act on the behalf of either.

(f) Persons participating in the early fee payment incentive program under Rule 7.4 shall submit reports according to the timelines set forth under Rule 7.4 to the extent that the timelines under Rule 7.4 are in conflict with this rule.

SECTION 4.
SPACING AND LOCATION OF WELLS; WELL COMPLETION

Rule 4.1 Spacing and Location of Existing Wells.

Wells drilled prior to November 15, 2010, shall be drilled in accordance with state law in effect, if any, on the date such drilling commenced and are exempt from the spacing and location requirements of these rules to the extent that they were drilled lawfully.

Rule 4.2 Spacing and Location of New Wells.

(a) All new wells must comply with the spacing and location requirements set forth under the Texas Water Well Drillers and Pump Installers Administrative Rules, Title 16, Part 4, Chapter 76, Texas Administrative Code, unless a written variance is granted by the Texas Department of Licensing and Regulation and a copy of the variance is forwarded to the District by the applicant or registrant.

(b) After authorization to drill a new or replacement well has been granted by the District, the well may only be drilled at a location that is within ten (10) yards (30 feet) of the location specified in the registration. New wells must nonetheless be actually drilled in compliance with the spacing requirements under Rule 4.3. Replacement wells must be actually drilled and completed so that they are located no more than 50 feet from the well being replaced, unless otherwise authorized by Rule 3.11(d).

(c) Compliance with the spacing and location requirements of these rules or the grant of an exception to such requirements does not necessarily authorize a person to drill a well at a specified location in the District. Agencies or other political subdivisions of the State of Texas that are located in whole or in part within the boundaries of the District may impose additional requirements related to the drilling or completion of water wells.

(d) The owner and driller of a well are jointly responsible for ensuring that the well is drilled at a location that strictly complies with the location requirements of Subsection (b). If the board determines that a well is drilled at a location that does not strictly comply with the location requirements of Subsection (b), the Board may, in addition to taking all other appropriate enforcement action, require the well to be permanently closed or authorize the institution of legal action to enjoin any continued drilling activity or the operation of the well.

Rule 4.3 Standards of Completion for All Wells

(a) All wells must be completed in accordance with the well completion standards set forth under the Texas Water Well Drillers and Pump Installers Administrative Rules, Title 16, Part 4, Chapter 76, Texas Administrative Code, and under these Rules.

(b) Water well drillers shall indicate the method of completion performed on the well report.

(c) To prevent the commingling of water between the aquifers which can result in a loss of artesian (or static) head pressure or the degradation of water quality, each well penetrating more than one aquifer or subdivision thereof must be completed in a manner so as to prevent the commingling of groundwater between aquifers or between subdivisions of an aquifer if required by the Texas Water Well Drillers and Pump Installers Administrative Rules, Title 16, Part 4, Chapter 76, Texas Administrative Code. The driller shall indicate the method of completion used to prevent the commingling of water on the well report. The well driller may use any lawful method of completion calculated to prevent the commingling of groundwater.

(d) In order to protect water quality, the integrity of the well, or loss of groundwater from the well, the District may impose additional well completion requirements on any well as determined necessary or appropriate by the Board.

(e) In addition to the requirements under Subsection (a), all new wells, re-worked wells, and re-completed wells shall be equipped in such a manner as to allow the measurement of the water level in the aquifer supplying water to the well. The driller or well owner are jointly responsible for ensuring that the completed well complies with this subsection.

SECTION 5.
REGULATION OF PRODUCTION; WASTE PROHIBITED

Rule 5.1 Temporary Production Limitations.

The maximum quantity of water that a person may withdraw from a well that is not exempt under Rule 2.1(a) is the amount of water the person produces and timely:

(1) submits payment to the District for in accordance with the fee rate adopted by the District under Section 7; and

(2) reports pumpage volumes to the District under Rule 3.10.

Rule 5.2 Regular Production Limitations.

In order to accomplish the purposes of Chapter 36, Texas Water Code, and the District Act, and to achieve the goals of the District Management Plan, the District may, after notice and hearing, establish groundwater production limitations for all wells, or certain classes of wells, when it adopts permanent rules for the District.

Rule 5.3 Waste Prohibited.

No person shall engage in any conduct subject to the District's regulatory jurisdiction that constitutes waste, as that term is defined herein.

SECTION 6.
TRANSPORTATION OF GROUNDWATER OUT OF THE DISTRICT

Rule 6.1 General Provisions.

(a) A person who produces or wishes to produce water from a well not exempt under Rule 2.1(a) that is located or is to be located within the District and transport such water for use outside of the District must register the well and submit timely payment of the Groundwater Transport Fee to the District under Rule 7.2 for any water transported out of the District. The District may require the person to install any meters necessary to report the total amount of groundwater transported outside of the District for reporting purposes and for purposes of calculating the Groundwater Transport Fee.

(b) The District may not, in a manner inconsistent with rules and fees applied to production and use occurring wholly within the boundaries of the District, regulate production of groundwater or assess fees against the transport of water produced in an area of a retail public utility that is located inside the district boundaries and transported for use to an area that is within the same retail public utility but that is located outside the district boundaries if the majority of the groundwater produced inside the District is used within the boundaries of the District. If conditions change over time such that the majority of such use is not within the boundaries of the District, the groundwater transported for use outside of the District shall be assessed the Groundwater Transport Fee.

Rule 6.2 Reporting.

A person transporting groundwater for use outside of the District and subject to the requirement to pay the Groundwater Transport Fee shall file periodic reports with the District describing the amount of water transported and used outside the District. The report shall be filed with the District in the same manner, for the same reporting periods, and by the same deadlines set forth for Water Production Reports under Rule 3.10. The report for groundwater transported shall be on the appropriate Groundwater Transport Report form provided by the District and shall state the following: (1) the name of the person; (2) the well registration numbers of each well from which the person has produced groundwater transported for use outside the District; (3) the total amount of groundwater produced from each well or well system during the immediately preceding reporting period; (4) the total amount of groundwater transported outside of the district from each well or well system during each month of the immediately preceding reporting period; (5) the purposes for which the water was transported; (6) the amount and source of surface water transported, if any; and (7) any other information requested by the District.

SECTION 7.
FEES AND PAYMENT OF FEES

Rule 7.1 Water Use Fees.

(a) A Water Use Fee rate schedule shall be established by Board resolution annually at least 60 days before the end of the calendar year. The rate shall be applied to the groundwater pumpage in the ensuing calendar year for each well not exempt under Rule 2.1. The District will review the account of any person changing the use of a well from non-exempt to exempt or vice versa to determine if additional Water Use Fees are due or if a refund of Water Use Fees is warranted. For fees applied to groundwater produced in the second half of 2011 only, the Board may adopt the rate schedule at any time between November 15, 2010 and March 31, 2011.

(b) Wells exempt under Rule 2.1 shall be exempt from payment of Water Use Fees. However, if exempt well status is withdrawn, the District may assess fees and penalties in accordance with the District Rules.

(c) No later than 60 days prior to the end of the calendar year, beginning with calendar year 2011, the District shall send by regular mail, internet account, or electronic mail to the owner or operator of each registered well that is required to pay the Water Use Fee a reminder statement setting forth the Water Use Fee rate applicable to the water produced in the ensuing year, setting forth deadlines for submission of fee payments and production reports of meter readings, and other information deemed appropriate by the District.

(d) Notwithstanding any other rule to the contrary, the owner and any operator of a well are jointly responsible for ensuring that Water Use Fees and Groundwater Transport Fees required by this rule or Rule 7.2 are timely submitted to the District. Each will be subject to enforcement action if a report or log required by this rule is not timely filed by either, or by any other person legally authorized to act on the behalf of either.

Rule 7.2 Groundwater Transport Fee.

The District shall impose a 50 percent export surcharge in addition to the District's Water Use Fee for in-District use for groundwater produced in the District that is transported for use outside of the District, except as provide by Rule 6.1(b). The procedures, requirements, and penalties related to payment of the Water Use Fee shall also apply to payment of the Groundwater Transport Fee.

Rule 7.3 Payment of Water Use and Groundwater Transport Fees.

(a) Except for persons participating in the Early Fee Payment Incentive Program under Rule 7.4, all fees for groundwater production or transport in a calendar year must be paid to the District semiannually, consistent with the semiannual reporting periods for submission of

Water Production Reports under Rule 3.10(b). Fees for water produced or transported between January 1 and June 30 each year are due to the District by September 1 of the same calendar year; fees for water produced or transported between July 1 and December 31 each year are due to the District by March 1 of the following calendar year. Fee payments shall be submitted in conjunction with the Water Production Reports, monthly logs, and Groundwater Transport Reports if applicable.

(b) Any well that is subject to fee payment under this rule and that provides water for both agricultural and non-agricultural purposes of use shall pay the Water Use Fee rate applicable to non-agricultural purposes for all water produced from the well, unless the applicant can demonstrate through convincing evidence to the satisfaction of the District that a system is or will be in place so as to assure an accurate accounting of water for each purpose of use.

(c) Except for persons participating in the Early Fee Payment Incentive Program under Rule 7.4, the first deadline to submit fees under this Rule is:

(1) March 1, 2012, for existing wells and for new wells completed before July 1, 2011; and

(2) no later than the first September 1 or March 1 following the semiannual reporting period during which the well was completed for new wells completed on or after July 1, 2011.

Rule 7.4 Early Fee Payment Incentive.

(a) A person required to pay the Water Use Fee or Groundwater Transport Fee may elect to make early payments in accordance with the provisions of this rule and receive a reduction in the payment amount due. This Early Fee Payment Incentive program shall expire at the end of calendar year 2012.

(b) A person who complies with the provisions of this subsection will be entitled to a discount of 10 percent off the total fees due for groundwater production in a calendar year, as specifically set forth herein. A well owner or operator may estimate their Water Use Fee payment for estimated groundwater production for the entire calendar year and submit such estimate and Water Use Fee payment to the District no later than March 1 of the same calendar year during which the groundwater is being produced. The Water Use Fee rate applicable to the payment shall be a rate of 90% of the regular Water Use Fee rate established by the Board for that calendar year. Within 15 days before or after the end of the calendar year, the person shall be required to take final water meter readings for the year and compare the difference in the estimated amount of water for which an early payment was submitted to the District and the actual amount of water produced during the year. If the person actually produced less water than the estimated amount and corresponding early payment submitted, the District shall provide a refund to the person within 60 days or credit the person's account with the District for the ensuing calendar year, as set forth under Subsection (d) of this rule. If the person actually produced more

water than the estimated amount and corresponding early payment submitted, the person shall submit payment for the difference to the District by March 1 of the ensuing calendar year at 100 percent of the regular Water Use Fee rate only for that amount of water produced in excess of the early estimate submitted to the District. Notwithstanding Rule 3.10 or other rules, a person who participates in the annual pre-pay option under this subsection shall submit Water Production Reports, monthly production records, and Groundwater Transport Reports if applicable on an annual, rather than semi-annual, basis, which are due not later than March 1 of the ensuing calendar year. For 2011 only, a person who wishes to participate in this Early Fee Payment Incentive Program for groundwater to be produced in the second half of calendar year 2011 shall submit their estimate and reduced rate pre-payment to the District no later than June 30, 2011.

(c) In addition to the requirements under Rule 3.4, a person who desires to participate in an early fee payment incentive under Subsection (b) of this rule must register the well with the District in accordance with Section 3 of these rules no later than March 1 of the same calendar year.

(d) A person that participates in the annual pre-pay Option under Subsection (b), actually produces less water that the estimate and payment submitted early, and that desires to have a refund issued rather than have the credit applied to the person's account for the following year must submit a written request for a refund no later than March 1 of the year following the year in which the groundwater was produced. The amount of the refund due from the District to the person must be equal to or greater than $50.00, or the refund will not be granted and will instead be applied to the person's account for the ensuing year. The General Manager may rule on requests for Water Use Fee refunds without notice, hearing, or further action by the Board. An applicant may appeal the General Manager's ruling by filing a written request for a hearing before the Board. The Board will hear the applicant's appeal at the next regular Board meeting.

(e) Monthly Reporting and Payment Option. A person who complies with the provisions of this subsection will be entitled to submit production records and fee payments to the District on a monthly basis, and shall receive a discount of five (5) percent off the total fees due for groundwater produced during each month as specifically set forth in this subsection. Not later than the tenth (10^{th}) day of the month, a well owner or operator must read each water meter associated with a well and record the meter reading and the actual amount of pumpage since the previous month's meter reading. The well owner or operator must then calculate the total amount of fees owed to the District for groundwater produced since the previous month's meter reading, and must submit a monthly production record and a payment to the District at a rate of 95% of the total amount of Water Use Fees calculated for that month. The monthly production record and fee payment must be received by the District no later than the last day of the month following the month for which groundwater production is being reported. Should a well owner fail to make a monthly payment that is received by the District by the required date, the well owner shall immediately become ineligible to participate in the monthly reporting and payment option program for the remainder of the current semiannual reporting period, and shall be required to immediately comply with the reporting and fee payment

provisions of Rules 3.10, 6.2, and 7.1-7.3 for all groundwater produced during the semiannual period for which a monthly production record and fee payment was not already timely received by the District. Such a well owner may continue to pay monthly at the full Water Use Fee rate for the remainder of the semiannual reporting period, so long as all fees and reports are submitted by the deadlines applicable to the regular reporting for the semiannual reporting period. The well owner will not become eligible to participate in the monthly reporting and payment option program again until the beginning of the next semiannual reporting period. The General Manager may develop an alternate monthly reporting form or system for use by persons reporting and paying monthly in compliance with this subsection.

(f) Groundwater Transport Fees for groundwater transported shall be treated by the District in the same manner as Water Use Fees for groundwater produced for purposes of the early payment incentive provisions under this rule.

(g) A person with an existing well who participates in the monthly reporting and payment option program under Subsection (e) for the July 1 through December 31, 2011, semiannual reporting period must take an initial meter reading on or before July 1, 2011, and an ending meter reading between August 1 and August 10, 2011 for purposes of calculating July 2011 monthly water production. The production report and fee payment for July 2011 monthly water production must be received by the District no later than August 31, 2011. This subsection expires May 1, 2012.

Rule 7.5 Failure to Make Fee Payments.

(a) Payments not received within 30 days following the date that Water Use Fees or Groundwater Transport Fees are due and owing to the District pursuant to Rule 7.3(a) or Rule 7.4(c) will be subject to a late payment fee of the greater of the following:

(1) $25.00; or

(2) ten percent (10 %) of the total amount of Water Use Fees due and owing to the District.

(b) Persons failing to remit all Water Use Fees or Groundwater Transport Fees due and owing to the District within 60 days of the date such fees are due pursuant to Rule 7.3(a) or Rule 7.4(c) shall be subject to a civil penalty not to exceed three times the amount of the outstanding Water Use Fees or Groundwater Transport Fees due and owing, in addition to the late fee penalty prescribed in Subsection (a) of this Rule, and may be subject to additional enforcement measures provided for by these Rules or by order of the Board.

Rule 7.6 Returned Check Fee.

A $25.00 fee shall be assessed for checks returned to the District for insufficient funds, account closed, signature missing, or any other reason causing a check to be returned by the District's depository.

Rule 7.7 Well Report Deposit.

A well report deposit of $200.00 is hereby established to be held by the District as part of the well registration procedures. The District shall return the deposit to the depositor if the well report is timely submitted to the District in accordance with these Rules. In the event the District does not timely receive the well report, or if rights granted within the registration are not timely used, the deposit shall become the property of the District.

Rule 7.8 New Well Registration Fee

The owner of any new well for which drilling commences on or after April 1, 2011, shall submit payment to the District of a $250.00 non-refundable well registration fee per well, which is due by the same deadline established under these rules for registration of the well. The well registration fee must be received by the District in order for the District to find a registration application administratively complete. The purpose of the well registration fee is to cover the administrative costs to the District associated with registering the well and administering the rules and operations of the District related to the registration of the well. The amount of the well registration fee has been determined by the District to be less than the actual administrative costs to the District of registering the well and administering the rules and operations of the District with respect to the registration of the well.

Rule 7.9 Enforcement.

After a well is determined to be in violation of these rules for failure to make payment of Water Use Fees or Groundwater Transport Fees on or before the 60th day following the date such fees are due pursuant to Rule 7.3, all enforcement mechanisms provided by law and these Rules shall be available to prevent unauthorized use of the well and may be initiated by the General Manager without further authorization from the Board.

SECTION 8.
METERING

Rule 8.1 Water Meter Required.

(a) Except as provided in Rule 8.2, the owner of a well located in the District and not exempt under Rule 2.1 shall equip the well with a flow measurement device meeting the specifications of these Rules and shall operate the meter on the well to measure the flow rate and cumulative amount of groundwater withdrawn from the well. Except as

provided in Rule 8.2, the owner of an existing well not exempt under Rule 2.1 that is located in the District shall install a meter on the well prior to producing groundwater from the well after July 1, 2011.

(b) A mechanically driven, totalizing water meter is the only type of meter that may be installed on a well registered with the District unless an approval for another type of meter is applied for and granted by the District. The totalizer must not be resettable by the registrant and must be capable of a maximum reading greater than the maximum expected annual pumpage. Battery operated registers must have a minimum five-year life expectancy and must be permanently hermetically sealed. Battery operated registers must visibly display the expiration date of the battery. All meters must meet the requirements for registration accuracy set forth in the American Water Works Association standards for cold-water meters as those standards existed on the date of adoption of these Rules. Meters must be able to measure instantaneous flow rate of the groundwater produced from the well, except as follows: a meter that was installed on an existing well as of November 15, 2010, that is not capable of measuring the instantaneous flow rate will not have to be replaced, provided that the meter has the ability to measure the cumulative amount of groundwater withdrawn from the well and meets all other requirements herein.

(c) The water meter must be installed according to the manufacturer's published specifications in effect at the time of the meter installation, or the meter's accuracy must be verified by the registrant in accordance with Rule 8.4. If no specifications are published, there must be a minimum length of five pipe diameters of straight pipe upstream of the water meter and one pipe diameter of straight pipe downstream of the water meter. These lengths of straight pipe must contain no check valves, tees, gate valves, back flow preventers, blow-off valves, or any other fixture other than those flanges or welds necessary to connect the straight pipe to the meter. In addition, the pipe must be completely full of water throughout the region. All installed meters must measure only groundwater.

(d) Each meter shall be installed, operated, maintained, and repaired in accordance with the manufacturer's standards, instructions, or recommendations, and shall be calibrated to ensure an accuracy reading range of 95% to 105% of actual flow.

(e) The owner of a well is responsible for the purchase, installation, operation, maintenance, and repair of the meter associated with the well.

(f) Bypasses are prohibited unless they are also metered.

Rule 8.2 Water Meter Exemption.

Wells exempt under Rule 2.1(a) shall be exempt from the requirement to obtain a water meter under Rule 8.1.

Rule 8.3 Metering Aggregate Withdrawal.

Where wells are part of an aggregate system, one or more water meters may be used for the aggregate well system if the water meter or meters are installed so as to measure the groundwater production from all wells included in the system. The provisions of Rule 8.1 apply to meters measuring aggregate pumpage.

Rule 8.4 Accuracy Verification.

(a) **Meter Accuracy to be Tested:** The General Manager may require the registrant, at the registrant's expense, to test the accuracy of a water meter and submit a certificate of the test results. The certificate shall be on a form provided by the District. The General Manager may further require that such test be performed by a third party qualified to perform such tests. The third party must be approved by the General Manager prior to the test. Except as otherwise provided herein, certification tests will be required no more than once every three years for the same meter. If the test results indicate that the water meter is registering an accuracy reading outside the range of 95% to 105% of the actual flow, then appropriate steps shall be taken by the registrant to repair or replace the water meter within 90 calendar days from the date of the test. The District, at its own expense, may undertake random tests and other investigations at any time for the purpose of verifying water meter readings. If the District's tests or investigations reveal that a water meter is not registering within the accuracy range of 95% to 105% of the actual flow, or is not properly recording the total flow of groundwater withdrawn from the well or wells, the registrant shall reimburse the District for the cost of those tests and investigations within 90 calendar days from the date of the tests or investigations, and the registrant shall take appropriate steps to bring the meter or meters into compliance with these Rules within 90 calendar days from the date of the tests or investigations. If a water meter or related piping or equipment is tampered with or damaged so that the measurement of accuracy is impaired, the District may require the registrant, at the registrant's expense, to take appropriate steps to remedy the problem and to retest the water meter within 90 calendar days from the date the problem is discovered and reported to the registrant.

(b) **Meter Testing and Calibration Equipment:** Only equipment capable of accuracy results of plus or minus two percent of actual flow may be used to calibrate or test meters.

(c) **Calibration of Testing Equipment:** All approved testing equipment must be calibrated every two years by an independent testing laboratory or company capable of accuracy verification. A copy of the accuracy verification must be presented to the District before any further tests may be performed using that equipment.

Rule 8.5 Removal of Meter for Repairs.

A water meter may be removed for repairs and the well remain operational provided that the District is notified prior to removal and the repairs are completed in a timely manner. The readings on the meter must be recorded immediately prior to removal and at the time of

reinstallation. The record of pumpage must include an estimate of the amount of groundwater withdrawn during the period the meter was not installed and operating.

Rule 8.6 Water Meter Readings.

The registrant of a well not exempt under Rule 2.1 must read each water meter associated with the well and record the meter readings and the actual amount of pumpage in a log at least monthly. The logs containing the recordings shall be available for inspection by the District at reasonable business hours. Copies of the logs must be included with the Water Production Report required by District Rule 3.10, along with fee payments as set forth under Section 7. Except as otherwise provided under Rule 7.4 for early payment incentive participants, the registrant of a well shall read each water meter associated with a well within 15 days before or after June 30th and within 15 days before or after December 31st each year and report the readings to the District on a form provided by the District along with copies of the monthly logs and payment of all Water Use Fees and Groundwater Transport Fees by the deadlines set forth for fee payment under Rule 7.3.

Rule 8.7 Installation of Meters.

Except as otherwise provided by these Rules, a meter required to be installed under these Rules shall be installed before producing water from the well on or after July 1, 2011.

Rule 8.8 Enforcement.

It is a major violation of these Rules to fail to meter a well and report meter readings in accordance with this Section. After a well is determined to be in violation of these rules for failure to meter or maintain and report meter readings, all enforcement mechanisms provided by law and these Rules shall be available to prevent unauthorized use of the well and may be initiated by the General Manager without further authorization from the Board.

SECTION 9.
INSPECTION AND ENFORCEMENT OF RULES

Rule 9.1 Purpose and Policy.

The District's ability to effectively and efficiently manage the limited groundwater resources within its boundaries depends entirely upon the adherence to the rules promulgated by the Board to carry out the District's purposes. Those purposes include providing for the conservation, preservation, protection and recharge of the groundwater resources within the District, to protect against subsidence, degradation of water quality, and to prevent waste of those resources. Without the ability to enforce these rules in a fair, effective manner, it would not be possible to

accomplish the District's express groundwater management purposes. The enforcement rules and procedures that follow are consistent with the responsibilities delegated to it by the Texas Legislature through the District Act, and through Chapter 36 of the Texas Water Code.

Rule 9.2 Rules Enforcement.

(a) If it appears that a person or entity has violated, is violating, or is threatening to violate any provision of the District Rules, the Board may institute and conduct a suit in a court of competent jurisdiction in the name of the District for injunctive relief, recovery of a civil penalty in an amount set by District Rule per violation, both injunctive relief and a civil penalty, or any other appropriate remedy. Each day of a continuing violation constitutes a separate violation.

(b) Unless otherwise provided in these rules, the penalty for a violation of any District rule shall be either:

(1) $10,000.00 per violation; or

(2) a lesser amount, based on the severity of the violation, as set forth in the Enforcement Policy and Civil Penalty Schedule, which is attached to these Rules as Appendix A and adopted as a Rule of the District for all purposes.

(c) A penalty under this section is in addition to any other penalty provided by law and may be enforced by filing a complaint in a court of competent jurisdiction in the county in which the District's principal office or meeting place is located.

(d) If the District prevails in a suit to enforce its Rules, the District may seek, in the same action, recovery of attorney's fees, costs for expert witnesses, and other costs incurred by the District before the court. The amount of attorney's fees awarded by a court under this Rule shall be fixed by the court.

Rule 9.3 Failure to Report Pumpage and/or Transported Volumes.

The accurate reporting and timely submission of pumpage and/or transported volumes is necessary for the proper management of water resources in the District. Failure of a well owner required by these Temporary Rules to submit complete, accurate, and timely pumpage and transportation reports may result in:

(a) the assessment of any fees or penalties adopted under Rule 9.2 for meter reading and inspection as a result of District inspections to obtain current and accurate pumpage and/or transported volumes; and

(b) additional enforcement measures provided by these Rules or by order of the Board.

Rule 9.4 District Inspections.

No person shall unreasonably interfere with the District's efforts to conduct inspections or otherwise comply with the requirements, obligations, and authority provided in Section 36.123 of the Texas Water Code.

Rule 9.5 Notices of Violation.

Whenever the District determines that any person has violated or is violating any provision of the District's Rules, including the terms of any rule or order issued by the District, it may use any of the following means of notifying the person or persons of the violation:

(a) Informal Notice: The officers, staff or agents of the District acting on behalf of the District or the Board may inform the person of the violation by telephone by speaking or attempting to speak to the appropriate person to explain the violation and the steps necessary to satisfactorily remedy the violation. The information received by the District through this informal notice concerning the violation will be documented, along with the date and time of the call, and will be kept on file with the District. Nothing in this subsection shall limit the authority of the District to take action, including emergency actions or any other enforcement action, without first providing notice under this subsection.

(b) Notice of Violation: The District may inform the person of the violation through a written notice of violation issued pursuant to this rule. Each notice of violation issued hereunder shall explain the basis of the violation, identify the rule or order that has been violated or is being violated, and list specific required actions that must be satisfactorily completed—which may include the payment of applicable civil penalties—to address each violation raised in the notice. Notices of violation issued hereunder shall be tendered by a delivery method that complies with District Rule 1.7. Nothing in this rule subsection shall limit the authority of the District to take action, including emergency actions or any other enforcement action, without first issuing a notice of violation.

(c) Compliance Meeting: The District may hold a meeting with any person whom the District believes to have violated, or to be violating, a District Rule or District order to discuss each such violation and the steps necessary to satisfactorily remedy each such violation. The information received in any meeting conducted pursuant to this rule subsection concerning the violation will be documented, along with the date and time of the meeting, and will be kept on file with the District. Nothing in this rule subsection shall limit the authority of the District to take action, including emergency actions or any other enforcement action, without first conducting a meeting under this subsection.

Rule 9.6 Show Cause Hearing.

(a) Upon recommendation of the General Manager to the Board or upon the Board's own motion, the Board may order any person that it believes has violated or is violating any

provision of the District's Rules a District order to appear before the Board at a public meeting called for such purpose and show cause why an enforcement action, including the initiation of a suit in a court of competent jurisdiction, should not be pursued by the District against the person or persons made the subject of the show cause hearing.

(b) No show cause hearing under subsection (a) of this Rule may be held unless the District first serves, on each person to be made the subject of the hearing, written notice not less than 20 days prior to the date of the hearing. Such notice shall include the following:

1. the time and place for the hearing;

2. the basis of each asserted violation; and

3. the rule or order that the District believes has been violated or is being violated; and

4. a request that the person cited duly appear and show cause why enforcement action should not be pursued.

(c) The District may pursue immediate enforcement action against the person cited to appear in any show cause order issued by the District where the person so cited fails to appear and show cause why an enforcement action should not be pursued.

(d) Nothing in this rule shall limit the authority of the District to take action, including emergency actions or any other enforcement action, against a person at any time regardless of whether the District holds a hearing under this Rule.

SECTION 10.
OTHER DISTRICT MANAGEMENT ACTIONS AND DUTIES

Rule 10.1 District Management Plan.

Following notice and hearing, the District shall adopt a comprehensive Management Plan. The District Management Plan shall specify the acts and procedures and performance and avoidance measures necessary to prevent waste, the reduction of artesian pressure, or the draw-down of the water table. The District shall use the Rules to implement the Management Plan. The Board will review the Management Plan at least every five years. If the Board considers a new Management Plan necessary or desirable based on evidence presented at a hearing, a new Management Plan will be developed and adopted. A Management Plan, once adopted, remains in effect until the subsequent adoption of another Management Plan.

SECTION 11.
EFFECTIVE DATE

Rule 11.1. Effective Date.

These Rules take effect on November 15, 2010, which was the date of their original adoption. An amendment to these Rules takes effect on the date of its original adoption. It is the District's intention that the rules and amendments thereto be applied retroactively to activities involving the production and use of groundwater resources located in the District, as specifically set forth in these Rules.

APPENDIX 1. Enforcement Policy and Civil Penalty Schedule.

Prairielands Groundwater Conservation District
ENFORCEMENT POLICY AND CIVIL PENALTY SCHEDULE

General Guidelines

When the General Manager discovers a violation of the District Rules that either (1) constitutes a Major Violation, or (2) constitutes a Minor Violation that the General Manager is unable to resolve within 60 days of discovering the Minor Violation, the General Manager shall bring the Major Violation or the unresolved Minor Violation and the pertinent facts surrounding it to the attention of the Board. Violations related to water well construction and completion requirements shall also be brought to the attention of the Board.

The General Manager shall recommend to the Board of Directors an appropriate settlement offer to settle the violation in lieu of litigation based upon the Civil Penalty Schedule set forth below. The Board may instruct the General Manager to tender an offer to settle the violation or to institute a civil suit in the appropriate court to seek civil penalties, injunctive relief, and costs of court and expert witnesses, damages, and attorneys' fees.

I. Minor Violations

The following acts each constitute a minor violation:

1. Failure to timely file a registration on a new well that qualifies for an exemption under Rule 2.1.

2. Failure to conduct a meter reading within the required period.

3. Failure to timely notify District regarding change of ownership.

4. Failure to timely file Well Report.

5. Failure to timely submit required documentation reflecting alterations or increased production.

6. Operating a meter that is not accurately calibrated.

CIVIL PENALTY SCHEDULE FOR MINOR VIOLATIONS

First Violation:	**$50.00**
Second Violation:	**$100.00**
Third Violation:	**Major Violation**

A second violation shall be any minor violation within 3 years of the first minor violation. A third violation shall be any minor violation following the second minor violation within 5 years of the first minor violation. Each day of a continuing violation constitutes a separate violation.

II. Major Violations

The following acts each constitute a major violation:

1. Failure to register a well where mandated by rules, including drilling, equipping, completing, altering, or operating a well without a compliant and approved registration.
2. Failure to timely meter a well when required.
3. Failure to submit accurate Water Production Report within the required period.
4. Failure to submit accurate Groundwater Transport Report within the required period.
5. Drilling a well at a different location than authorized or in violation of spacing requirements.*
6. Failure to close or cap an open or uncovered well.
7. Failure to submit Water Use Fees within 60 days of the date the fees are due.**
8. Failure to timely submit Groundwater Transport Fees within 60 days of the date the fees are due.**
9. Committing waste.
10. Falsification of documents.***

CIVIL PENALTY SCHEDULE FOR MAJOR VIOLATIONS

First Violation:	**$250.00**
Second Violation:	**$500.00**
Third Violation:	**Civil Suit for injunction and damages**

A second violation shall be any major violation within 3 years of the first major violation. A third violation shall be any major violation following the second major violation within 5 years of the first major violation. Each day of a continuing violation constitutes a separate violation.

* In addition to the applicable penalty provided for in the Civil Penalty Schedule for Major Violations, persons who drill a well in violation of applicable spacing requirements may

be required to plug the well.

** In addition to the applicable penalty provided for in the Civil Penalty Schedule for Major Violations, persons who do not submit all Water Use Fees and Groundwater Transport Fees due and owing within 60 days of the date the fees are due pursuant to Rule 7.3(a) or Rule 7.4(c) will be assessed a civil penalty equal to three times the total amount of outstanding Water Use Fees, Groundwater Transport Fees, or both, that are due and owing.

*** In addition to the applicable penalty provided for in the Civil Penalty Schedule, the Board may refer any person it suspects of falsifying documents or records submitted to the District to the district attorney or other local prosecuting authority for criminal prosecution.

III. Water Well Construction and Completion Requirements

Failure to use approved construction materials:	**$250 + total costs of remediation**
Failure to properly cement annular space:	**$500 + total costs of remediation**

In addition to the civil penalties provided for in this schedule, persons who drill a well in violation of applicable spacing or completion requirements may be required to recomplete or reconstruct the well in accordance with the District's rules, or may be ordered to plug the well.

IV. Other Violations of District Rules Not Specifically Listed Herein

Any violation of a District Rule not specifically set forth herein shall be presented to the Board of Directors for a determination of whether the violation is Minor or Major, based upon the severity of the violation and the particular facts and issues involved, whereupon the procedures and the appropriate civil penalty amount set forth herein for Minor and Major Violations shall apply to the violation.