August 26, 2010

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

Dear Mr. Ward:

As Coordinator for Groundwater Management Area (GMA) 10, I want to inform you that GMA 10 has formally adopted Desired Future Conditions (DFCs) for the undifferentiated Trinity Aquifer within GMA 10 and for minor aquifers in Uvalde County of GMA 10.

After reviewing “GTA Aquifer Assessment 10-06” for the Trinity Aquifer in GMA 10, all groundwater conservation district (GCD) representatives in attendance, eight of the nine members of the Joint Coordinating Committee of GMA 10, voted unanimously on August 23, 2010, to adopt DFCs for the Trinity Aquifer in GMA 10 as follows:

- A regional average well drawdown during average recharge conditions that does not exceed 25 feet (including exempt and non-exempt well use), except as otherwise provided herein;
- For the Trinity Aquifer in the part of GMA-10 that is within the jurisdiction of Hays-Trinity GCD: regional average well drawdown during average recharge conditions of zero (0) feet (including exempt and non-exempt well use);
- For the Trinity Aquifer in the Uvalde county part of GMA-10: regional average well drawdown during average recharge conditions of no more than twenty (20) feet (including exempt and non-exempt well use);
- Declare the Trinity Aquifer in the part of GMA-10 that is in the Trinity-Glenrose GCD as a non-relevant aquifer; and
- Request the TWDB to provide an official estimate of the Managed Available Groundwater, as defined by Chapter 36 of the Texas Water Code, that is consistent with achieving these DFCs.

Enclosed please find the following items related to the DFC adoption for the record:

- Copies of posted meeting notices for the August 23, 2010 meeting (Exhibit A);
- Minutes of the August 23, 2010 meeting (Exhibit B);
- Resolution No. 2010-10 with signatures of all attending GCD representatives (Exhibit C);
- Copy of “GTA Aquifer Assessment 10-06” (Exhibit D); and

As recommended by the Uvalde Underground Water Conservation District, all groundwater conservation district (GCD) representatives in attendance, eight of the nine members of the Joint Coordinating Committee of GMA 10, voted unanimously on August 23, 2010, to adopt a Desired Future Condition for
the three minor aquifers in Groundwater Management 10 of a zero drawdown, including exempt and non-exempt use.

Also enclosed are the following items related to the DFC adoption for the record:

- Resolution No. 2010-11 with signatures of all attending GCD representatives (Exhibit E).

If there are any additional submission requirements necessary, please contact me at:

Edwards Aquifer Authority
1615 N. St. Mary’s
San Antonio, TX 78215
Office phone (210) 222-2204
E-mail: rillgner@edwardsaquifer.org

Respectfully,

Rick Illgner
Governmental Affairs Officer
Edwards Aquifer Authority

RI/em

Enclosures
Notice of Groundwater Management Area #10 Joint Planning Meeting

Date: Monday, August 23, 2010
Time: 11:30 am
Place: Conference Center of the Edwards Aquifer Authority
Located: 1615 N. St. Mary's, San Antonio, TX 78215

As required by Section 36.109(c), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:
1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 38.109(c), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:
1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

The Board of Directors of the Hays Trinity Conservation District reserves the right to go into Executive Session at any time during the course of this meeting to discuss any of the matters listed on this agenda, as authorized by the Texas Open Meetings Act, Chapter 551, Government Code. No final action or decision will be made in Executive Session.

The Hays Trinity Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-858-9253 at least 24 hours in advance if accommodation is needed.

This notice has been posted on a bulletin board at a place convenient to the public in the Hays County Courthouse and outside the main entrance to the District offices not less than three (3) days prior to the scheduled meeting in accordance with the provisions of the Texas Open Meetings Act, Chapter 551, Government Code.

Posted by: Rick D. Brown

Center Lake Business Park 14101 Hwy 290 W, Bldg 100, Ste. 9212, Austin, Texas 78737
Mail: P. O. Box 1648 Dripping Springs, TX 78621
E-mail: manager@haysgroundwater.com Phone: 512-858-9253 Fax: 512-858-2384 website: haysgroundwater.com
Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority

Phone (210) 222-2204 Fax (210) 222-9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

 Came to hand and posted on a Bulletin Board in the Courthouse, Kinney County, Texas, on this, the ___ day of August, 2010 at ___:___ p.m.

[Signature]
Deputy Clerk
Kinney County, TEXAS
NOTICE OF OPEN MEETINGS
Groundwater Management Area #10 Joint Planning Meetings

Monday, August 23, 2010 at 11:30 a.m.

Notice is given that an open meeting of Groundwater Conservation Districts that are located within the State of Texas Groundwater Management Area #10, with one or more members of the Board of Directors and/or its designated representative and/or staff of the Barton Springs Edwards Aquifer Conservation District in attendance, for purposes of discussing and/or conducting joint planning concerning desired future conditions, in compliance with Texas Water Code, Chapter 36.108. This meeting will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

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1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

Groundwater Management Area #10 Joint Planning Meeting

Monday, August 23, 2010 at 12:30 p.m.

Notice is given that an open meeting of Groundwater Conservation Districts that are located within the State of Texas Groundwater Management Area #10, with one or more members of the Board of Directors and/or its designated representative and/or staff of the Barton Springs Edwards Aquifer Conservation District in attendance, for purposes of discussing and/or conducting joint planning concerning desired future conditions, in compliance with Texas Water Code, Chapter 36.108. This meeting will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.
At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, Travis County, Texas, on this, the 12th day of August, 2010 at 1:3 p.m.

[Signature]
Deputy Clerk
Travis County, TEXAS

Please note:

The Barton Springs Edwards Aquifer Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District office at 512-282-8441 at least 24 hours in advance if accommodation is needed.
Groundwater Management Area #10 Joint Planning Meeting

Edwards Aquifer Authority
Phone (210) 222-2204 Fax (210) 222-9869

NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, __________ County, Texas, on this, the____ day of August, 2010 at _______ m.

__________________________, Deputy Clerk

___________ County, TEXAS

Deed 14180 Fees: $2.00
08/17/2010 12:38PM # Pages 1
Filed & Recorded in the Official Public Records of BEXAR COUNTY
GERRY RICKHOFF COUNTY CLERK
Trinity Glen Rose Groundwater Conservation District
6335 Camp Bullis Rd. Suite #25 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting

Monday August 23, 2010 11:30 A.M.

Notice is given that one or more members of the Board of Directors and/or their designated representatives and/or Staff of the Trinity Glenrose Groundwater Conservation District (TGRGCD) will attend a meeting of Groundwater Conservation Districts which are located within the State of Texas Groundwater Management Area #10 for purposes of discussing and/or conducting joint planning in compliance with the requirements of HB 1763, which was passed during the 2005 Texas Legislative Session. This meeting will be held at the Edwards Aquifer Authority Conference Center, located at 1615 N. St. Mary's, San Antonio, Texas 78215 on Monday August 23, 2010 at 11:30 a.m. for the following purposes:

Agenda

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 PM at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Posted at the TGRGCD office, TGRGCD Website and the Bexar County, Kendall County and Comal County Courthouses on this, the 16 day of August 2010.

George Wissmann, Manager, Trinity Glen Rose Groundwater Conservation District

The Trinity Glen Rose Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District Representative at 210-210-5555 at least 24 hours in advance if accommodation is needed.
Trinity Glen Rose Groundwater Conservation District
6335 Camp Bullis Rd, Suite #25 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting
Monday August 23, 2010 11:30 A.M.
CoMAC COUNTY GLE

Notice is given that one or more members of the Board of Directors and/or their designated representatives and/or Staff of the Trinity Glenrose Groundwater Conservation District (TGRGCD) will attend a meeting of Groundwater Conservation Districts which are located within the State of Texas Groundwater Management Area #10 for purposes of discussing and/or conducting joint planning in compliance with the requirements of HB 1763, which was passed during the 2005 Texas Legislative Session. This meeting will be held at the Edwards Aquifer Authority Conference Center, located at 1615 N. St. Mary's, San Antonio, Texas 78215 on Monday August 23, 2010 at 11:30 a.m. for the following purposes.

Agenda

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Posted at the TGRGCD office, TGRGCD Website and the Bexar County, Kendall County and Comal County Courthouses, on this, the 16 day of August 2010.

George Wisser, Manager, Trinity Glen Rose Groundwater Conservation District

The Trinity Glen Rose Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District Representative at 210-219-5555 at least 24 hours in advance if accommodation is needed.
Trinity Glen Rose Groundwater Conservation District
6315 Camp Hallis Rd. Suite 225 San Antonio, Texas 78257 (210) 698-1155 Fax (210) 698-1159

Groundwater Management Area Joint Planning Meeting
Monday August 23, 2010 11:30 A.M.

Notice is given that one or more members of the Board of Directors and/or their designated representatives and/or Staff of the Trinity Glen Rose Groundwater Conservation District (TGRGCD) will attend a meeting of Groundwater Conservation Districts which are located within the State of Texas Groundwater Management Area 10 for purposes of discussing and/or conducting joint planning in compliance with the requirements of HB 1763, which was passed during the 2005 Texas Legislative Session. This meeting will be held at the Edwards Aquifer Authority Conference Center, Located at 1615 N. St. Mary’s, San Antonio, Texas 78215 on Monday August 23, 2010 at 11:30 a.m., for the following purposes:

Agenda

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(c), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 p.m. at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Posted at the TGRGCD office, TGRGCD Website and the Bexar County, Kendall County and Comal County Courthouses, on this, the 16 day of August 2010.

George Wiseman, Manager, Trinity Glen Rose Groundwater Conservation District

The Trinity Glen Rose Groundwater Conservation District is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the District Representative at 210-219-1555 at least 24 hours in advance if accommodation is needed.
NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group.
6. Discussion and possible action related to establishing DFCs for the Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse. County, Texas. on this, the day of August, 2010 at .

Deputy Clerk

County, TEXAS
NOTICE OF OPEN MEETINGS

As required by Section 36.108(c), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of August 4, 2010 Meeting.
5. Discussion and possible action related to the designation of relevant aquifers for DPCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DPCs.
6. Discussion and possible action related to establishing DPCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DPCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(c), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, HAYS County, Texas, on this the 23rd day of August, 2010 at 11:41 a.m.

Deputy Clerk

Hays County, TEXAS
NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

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7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

[Signature and Date]

Filed for Recording
10 Aug 19 4:46 PM

Teresa Kiel
County Clerk
Guadalupe County, Texas

 County, Texas

Deputy Clerk

County, TEXAS
NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary's, San Antonio, TX 78215.

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6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

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At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, Medina County, Texas, on this, the 22nd day of August, 2010 at 11:50 a.m.
NOTICE OF OPEN MEETINGS

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 11:30 am at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of August 4, 2010 Minutes.
5. Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and the establishment of Trinity DFCs.
6. Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.
7. Discussion of compliance monitoring activities for adopted DFCs within each district.
9. Adjournment of morning meeting.

As required by Section 36.108(e), Texas Water Code, a meeting of the Groundwater Management Area 10 Planning Committee, comprised of delegates from the following groundwater conservation districts located wholly or partially within Groundwater Management Area 10: Edwards Aquifer Authority, Guadalupe County GCD, Medina County GCD, Uvalde County UWCD, Plum Creek CD, Barton Springs Edwards Aquifer CD, Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD will be held on Monday, August 23, 2010 at 12:30 pm at the Conference Center of the Edwards Aquifer Authority, 1615 N. St. Mary’s, San Antonio, TX 78215.

At this meeting, the following business may be considered and recommended for Joint Planning Committee action:

1. Call to Order.
2. Public Comment.
4. Approval of Minutes of the GMA 10 Meeting beginning at 11:30 AM, August 23, 2010.
5. Discussion of other GMA 10 Business.
6. Next Meeting and Discussion Topics.
7. Adjournment of afternoon meeting.

Came to hand and posted on a Bulletin Board in the Courthouse, ________ County, Texas, on this, the ____ day of August, 2010 at ________ m.

__________________________, Deputy Clerk

__________________________, County, TEXAS
GMA-10 Joint Planning Committee
Meeting Minutes
August 23, 2010 (First Session)

1. **Call to Order.** The meeting was called to order by Committee Coordinator Rick Illgner (EAA) at 11:31 am.

2. **Public Comment.** None

3. **Receipt of Public Notices.** A quorum of eight of the nine GMA-10 GCDs were present: Barton Springs/Edwards Aquifer Conservation District (BSEACD), Plum Creek GCD (PCGCD), Edwards Aquifer Authority (EAA), Medina Co. GCD (MCGCD), Uvalde Co. UWCD (UCUWCD), Hays Trinity GCD, Trinity Glen Rose GCD and Kinney County GCD (KCGCD); Guadalupe County GCD was not present. Posted meeting notices were received from all nine of the GCDs, including Guadalupe County GCD.

4. **Approval of August 4, 2010, Minutes.** Luana Buckner moved and Vic Hilderbran seconded approving the August 4, 2010, minutes as presented. There were no objections; therefore minutes were approved.

5. **Discussion and possible action related to the designation of relevant aquifers for DFCs related to the Trinity Group, relevant aquifer assessments, and a schedule for the establishment of Trinity DFCs.** Motion was made by Kirk Holland and seconded by Luana Buckner to approve Resolution 2010 – 10 adopting DFCs for the Trinity Aquifer in Groundwater Management 10 as follows:

- Adopt the following as the initial Desired Future Condition for the Trinity Aquifer throughout GMA-10, except as otherwise provided herein: *regional average well drawdown during average recharge conditions that does not exceed 25 feet (including exempt and non-exempt well use)*;
- Adopt the following as the initial Desired Future Condition for the Trinity Aquifer in the part of GMA-10 that is within the jurisdiction of Hays-Trinity GCD: *regional average well drawdown during average recharge conditions of zero (0) feet (including exempt and non-exempt well use)*;
- Adopt the following as the initial Desired Future Condition for the Trinity Aquifer in the Uvalde county part of GMA-10: *regional average well drawdown during average recharge conditions of no more than twenty (20) feet (including exempt and non-exempt well use)*;
- Declare the Trinity Aquifer in the part of GMA-10 that is in the Trinity-Glenrose GCD as a non-relevant aquifer; and
- Request the TWDB to provide an official estimate of the Managed Available Groundwater, as defined by Chapter 36 of the Texas Water Code, that is consistent with achieving these DFCs.

Motion was approved unanimously.
6. **Discussion and possible action related to establishing DFCs for the three minor aquifers in Uvalde County.** Vic Hilderbran moved and Ken Carver seconded to approve Resolution 2010 – 11 adopting a DFC for the three minor aquifers in Groundwater Management 10 of a zero drawdown, including exempt and non-exempt use. Motion passed unanimously.

7. **Discussion of compliance monitoring activities for adopted DFCs within each district.** Kirk Holland indicated that BSEACD has started to work on a monitoring program and will develop a proposal to present at the next GMA 10 meeting for the portions of GMA 10 with the 25 foot drawdown.

8. **Meeting schedule post September 2010.** The next meeting of GMA 10 will be on Monday, November 15, 2010, starting at 11:30 am in the Edwards Aquifer Authority Conference Center.

9. **Adjournment of morning meeting.** The meeting was adjourned at approximately 12:50 pm.
STATE OF TEXAS

COUNTIES OF BEXAR, CALDWELL, COMAL, GUADALUPE, HAYS, KINNEY, MEDINA, TRAVIS, AND UVALDE

THE JOINT COORDINATING COMMITTEE OF GROUNDWATER MANAGEMENT AREA 10

RESOLUTION FOR THE ADOPTION OF THE DESIRED FUTURE CONDITIONS OF THE TRINITY AQUIFER IN GROUNDWATER MANAGEMENT AREA 10

WHEREAS, THE JOINT COORDINATING COMMITTEE OF GROUNDWATER MANAGEMENT AREA (GMA) 10 COMPRISSES DELEGATES DESIGNATED BY THE FOLLOWING GROUNDWATER CONSERVATION DISTRICTS (GCDs) LOCATED WHOLLY OR PARTIALLY WITHIN GMA 10: BARTON SPRINGS/EDWARDS AQUIFER CONSERVATION DISTRICT, EDWARDS AQUIFER AUTHORITY, GUADALUPE COUNTY GCD, HAYS TRINITY GCD, KINNEY COUNTY GCD, MEDINA COUNTY GCD, PLUM CREEK CD, TRINITY GLEN ROSE GCD, AND UVALDE COUNTY UWCD:

WHEREAS, CHAPTER 36.108 OF THE TEXAS WATER CODE, (JOINT PLANNING IN MANAGEMENT AREA), REQUIRES THAT THE GROUNDWATER CONSERVATION DISTRICTS IN THE GMA ADOPT DESIRED FUTURE CONDITIONS (DFCs) OF ALL RELEVANT AQUIFERS IN THE GMA FOR A FIFTY-YEAR PLANNING PERIOD, NO LATER THAN SEPTEMBER 1, 2010;

WHEREAS, THE BOARD PRESIDENTS OR THEIR DESIGNATED REPRESENTATIVES OF THE GCDs IN GMA 10 HAVE MET AS A COMMITTEE IN VARIOUS MEETINGS AND CONDUCTED JOINT PLANNING IN ACCORDANCE WITH CHAPTER 36.108 OF THE TEXAS WATER CODE;

WHEREAS, ONE OR MORE OF THE COMMITTEE MEMBERS OF GMA 10 HAVE HELD ONE OR MORE PUBLIC MEETINGS NOTICED AND POSTED IN ACCORDANCE WITH
STATE LAW, AND HAVE REVIEWED AND DISCUSSED PERTINENT AQUIFER ASSESSMENTS BY THE TEXAS WATER DEVELOPMENT BOARD (TWDB) AND OTHERS WITH THE PUBLIC AND HAVE RECEIVED INPUT AND COMMENT FROM STAKEHOLDERS WITHIN THAT PART OF GMA 10 THAT USES AND IS AFFECTED BY USERS AND USES OF THE UNDIFFERENTIATED TRINITY AQUIFER (TRINITY AQUIFER);

WHEREAS, THE TRINITY AQUIFER IN GMA 10 IS A KARST AQUIFER THAT EXPERIENCES RELATIVELY RAPID RECHARGE DURING PERIODS OF HIGH RAINFALL AND RAPID DEPLETION DURING DROUGHT; IS LOCALLY VARIABLE IN WATER QUALITY AND IN THE AMOUNT OF WATER THAT IS YIELDED TO WELLS; IS PRESENT IN GMA 10 SUBSTANTIALLY ONLY IN THE SUBCROP, CONFINED PART OF THE AQUIFER; MAY BE WELL DIFFERENTIATED INTO THE LOWER TRINITY, MIDDLE TRINITY, AND UPPER TRINITY AQUIFERS ONLY IN CERTAIN PARTS OF GMA 10; AND WHERE SUCH SEGMENTS ARE HYDROLOGICALLY ISOLATED FROM EACH OTHER AND OTHER AQUIFERS HYDROSTRATIGRAPHICALLY, THEY MAY HAVE SOME INTERCONNECTION WITH OTHER AQUIFERS ACROSS FAULTS;

WHEREAS, THE FACTORS CONSIDERED IN SETTING A DFC FOR THIS AQUIFER INCLUDE:

1. THE ABILITY OF THE AQUIFER TO SERVE AS A SIGNIFICANT LOCAL GROUNDWATER RESOURCE AND HELP SERVE PART OF THE REGIONAL WATER NEEDS AS AN ALTERNATIVE SOURCE IN SOME AREAS;
2. THE FULLY SUBSCRIBED STATUS OF THE FIRM-YIELD OF THE SHALLOWER EDWARDS AQUIFER, WHICH RESTRICTS NEW USE OF THIS HIGHER QUALITY, MORE ACCESSIBLE GROUNDWATER MOSTLY TO EXEMPTS.
3. THE EXISTENCE OF THE RELATIVELY POORER QUALITY WATER IN THE UPPER TRINITY SEGMENT OF THE AQUIFER, REQUIRING PROTECTION TO ENSURE AGAINST INTERCONNECTIONS WITH THE SUCH GROUNDWATER.
5. THE SPARSE DATA CONCERNING HYDROGEOLOGIC CONDITIONS AND AQUIFER PERFORMANCE IN MOST OF GMA 10.
6. THE PAUCITY OF WELLS AND LACK OF EXPERIENCE IN MONITORING AND REGULATING THE TRINITY BY GCDs IN MUCH OF GMA 10, MUCH LESS INDIVIDUAL SEGMENTS OF THE TRINITY IN GMA 10.
9. THE LACK OF AN OFFICIAL GAM FOR THE AQUIFER IN GMA 10.
10. THE FACT THAT TWDB MAPS THE TRINITY AS A MAJOR AQUIFER EXTENDING BENEATH THE EDWARDS AQUIFER IN THE BALCONES FAULT ZONE (GMA 10) WITH UP TO 3,000 MG/L TOTAL DISSOLVED SOLIDS CONCENTRATION (PER TWDB REPORT 345), EVEN THOUGH IT'S USE FOR SOME BUT NOT ALL PURPOSES MAY BE IMPAIRED BY SUCH HIGH CONCENTRATIONS.
11. THE FACT THAT IT WILL BE EASIER TO IMPLEMENT LESS RESTRICTIVE GROUNDWATER PRODUCTION LIMITS SUCCESSFULLY IN FUTURE ROUNDS OF JOINT REGIONAL PLANNING THAN MORE RESTRICTIVE LIMITS IN THE FUTURE;

WHEREAS, COMMITTEE REPRESENTATIVES EXAMINED: 1) THE AQUIFER ASSESSMENTS DEVELOPED BY THE TWDB IN ITS DRAFT REPORT TITLED “GTA AQUIFER ASSESSMENT 09-02”, DATED APRIL 20, 2010; 2) A SECOND DRAFT REPORT TITLED “GTA AQUIFER ASSESSMENT 10-03”, DATED JUNE 10, 2010; 3) A MORE RECENT DRAFT REPORT TITLED “GTA AQUIFER ASSESSMENT 10-06”, DATED JULY 12, 2010 AND SUBSEQUENT REVISIONS; 4) DISCUSSION WITH TWDB’S MR. ROBERT BRADLEY CONCERNING HOW SUCH AQUIFER ASSESSMENT RESULTS CAN BE USED TO INFER OTHER RELATIONSHIPS AND EXTEND CONCLUSIONS, BY EMAILS ON APRIL 13, 2010; 5) MONITORING DATA AND PRELIMINARY RESULTS AND CONCLUSIONS FROM A MULTI-PORT MONITORING WELL MAINTAINED BY BSEACD THAT COLLECTS INFORMATION ON WATER LEVELS AND WATER QUALITY IN 13 DISCRETE ZONES IN THE EDWARDS, UPPER TRINITY, AND MIDDLE TRINITY AQUIFERS IN THE NORTHERN PART OF GMA 10; AND 6) THE SERIES OF GAM RUNS, POTENTIOMETRIC MAPS, AND PRELIMINARY DFC EXPRESSIONS PREPARED FOR THE TRINITY AQUIFER IN ADJACENT AREAS OF GMA 9. IT CONSIDERED WHETHER AVERAGE OR DROUGHT RECHARGE CONDITIONS SHOULD BE USED IN THE DFC EXPRESSION, AND DRAWDOWNS OF 25, 50, 75, 100, AND 125 FEET, WITH OTHER AMOUNTS INTERPOLATED OR EXTRAPOLATED BY ANALYTICAL COMPUTATION. THE COMMITTEE DETERMINED THAT, WITH THREE EXCEPTIONS FOR VALID REASONS AS STIPULATED BELOW, A REGIONAL-AVERAGE DRAWDOWN OF 25 FEET OF THE UNDIFFERENTIATED TRINITY AQUIFER UNDER AVERAGE RECHARGE CONDITIONS FROM ALL AQUIFER USERS, INCLUDING EXEMPT USERS, PROVIDES A SIGNIFICANT AMOUNT OF GROUNDWATER TO MEET AREA, IF NOT REGIONAL NEEDS WITHOUT RISKING WIDESPREAD DEWATERING OF THE AQUIFER DURING EXTREME DROUGHT CONDITIONS AND WITHOUT AFFECTING ADJACENT AREAS WHERE THE AQUIFER IS USED;

WHEREAS, THREE AREAS OF GMA 10 HAVE A RATIONAL BASIS FOR ESTABLISHING A DIFFERENT DFC FOR THE TRINITY AQUIFER: 1) THE PART OF GMA 10 THAT IS WITHIN THE JURISDICTION OF HAYS-TRINITY GCD IS IMMEDIATELY ADJACENT TO AN AREA IN GMA 9 THAT IS ALREADY EXPERIENCING PROBLEMS FROM OVERPUMPING AND MAY PROVIDE LESS INTRA-FORMATIONAL RECHARGE TO GMA 10 THAN ELSEWHERE, SUCH THAT A
CONSERVATIVE DRAWDOWNS OF ZERO (0) FEET IS REASONABLY INDICATED; 2) THE PART OF BEXAR COUNTY THAT IS IN THE TRINITY-GLENROSE GCD IS EXCEPTIONALLY SMALL (ABOUT TWO SQUARE MILES) AND, FURTHER, IN THE NEAR FUTURE WILL SEEK TO WITHDRAW FROM GMA 10 SUCH THAT IT IS ONLY IN GMA 9. SO FOR ADMINISTRATIVE-CONVENIENCE REASONS THIS AREA IS REASONABLY CONSIDERED A NON-RELEVANT PART OF THE TRINITY AQUIFER; AND 3) THE UVALDE COUNTY PART OF GMA 10 IS IMMEDIATELY ADJACENT TO BANDERA COUNTY IN GMA 9 THAT IS ALREADY USING A CONSIDERABLE AMOUNT OF THE TRINITY AQUIFER, SUCH THAT A MORE CONSERVATIVE DRAWDOWN OF TWENTY (20) FEET IS REASONABLY INDICATED:


NOW, THEREFORE, BE IT RESOLVED THAT THE DISTRICT MEMBERS OF GROUNDWATER MANAGEMENT AREA 10 TAKE THE FOLLOWING ACTIONS:

1. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER THROUGHOUT GMA-10, EXCEPT AS OTHERWISE PROVIDED HEREIN: REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS THAT DOES NOT EXCEED 25 FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE);

2. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER IN THE PART OF GMA-10 THAT IS WITHIN THE JURISDICTION OF HAYS-TRINITY GCD: REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE);

3. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION FOR THE TRINITY AQUIFER IN THE UVALDE COUNTY PART OF GMA-10: REGIONAL AVERAGE WELL DRAWDOWN DURING AVERAGE RECHARGE CONDITIONS OF NO MORE THAN TWENTY (20) FEET (INCLUDING EXEMPT AND NON-EXEMPT WELL USE);

4. DECLARE THE TRINITY AQUIFER IN THE PART OF GMA 10 THAT IS IN THE TRINITY-GLENROSE GCD AS A NON-RELEVANT AQUIFER; AND

5. REQUEST THE TWDB TO PROVIDE AN OFFICIAL ESTIMATE OF THE MANAGED AVAILABLE GROUNDWATER, AS DEFINED BY CHAPTER 36 OF THE TEXAS WATER CODE, THAT IS CONSISTENT WITH ACHIEVING THESE DFCs.
VOTED AND APPROVED THIS, THE ___ ___th DAY OF ____________, 2010, BY A VOTE OF ___ AYES AND ___ NAYS, CONSTITUTING AT LEAST A TWO-THIRDS MAJORITY OF THE VOTING MEMBERS PRESENT.

SIGNED
Kirk Holland Barton Springs/Edwards Aquifer Conservation District

SIGNED
Ludana Buckner Edwards Aquifer Authority

SIGNED
Ron Naumann Guadalupe County GCD

SIGNED
David Baker Hays Trinity GCD

SIGNED
Ken Carver Kinney County GCD

SIGNED
Thomas Boehme Medina County GCD

SIGNED
Daniel Meyer Plum Creek Conservation District

SIGNED
George Wissmann Trinity Glen Rose GCD

SIGNED
Vic Hilderbran Uvalde County UWCD

5 of 5
GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

GTA Aquifer Assessment 10-06
by David Thorkildsen, P.G. and Sarah Backhouse
Texas Water Development Board
Groundwater Technical Assistance Section
(512) 936-0871

This document is released for the purpose of interim review under the authority of
David Thorkildsen, P.G. 705 on July 12, 2010
REQUESTOR:

Rick Illgner, of the Edwards Aquifer Authority acting on behalf of Groundwater Management Area 10.

DESCRIPTION OF REQUEST:

On 4/27/10, Mr. Illgner provided the Texas Water Development Board (TWDB) with alternative draft desired future conditions for the Trinity Aquifer subcrop (lumping the upper, middle, and lower Trinity into one aquifer) in Groundwater Management Area 10 and requested that TWDB estimate alternative draft managed available groundwater values. This request was addressed with GTA Aquifer Assessment 10-03. At the Groundwater Management Area 10 meeting on 6/16/10, the group requested TWDB to revise the assessment by splitting the aquifer out by layers and including the outcrop area. This aquifer assessment presents the revised alternative draft managed available groundwater for the Trinity Aquifer outcrop/subcrop in Groundwater Management Area 10.

DRAFT DESIRED FUTURE CONDITIONS:

Trinity Aquifer outcrop/subcrop – Allow average drawdowns of 25, 50, 75, 100, and 125 feet in the Trinity Aquifer outcrop and subcrop (upper, middle and lower zones) over the next 50 years.

METHODS:

A transient hydrologic budget for the saturated portion of an aquifer is described by Freeze and Cherry (1979, p.365):

\[ Q(t) = R(t) - D(t) + \frac{dS}{dt} \]

where  
\( Q(t) \) = total rate of groundwater withdrawal 
\( R(t) \) = total rate of groundwater recharge to the basin 
\( D(t) \) = total rate of groundwater discharge from the basin 
\( \frac{dS}{dt} \) = rate of change of storage in the saturated zone of the basin

For this analysis, it is assumed that 

\[ R(t) = R(r) + R(e) \]
GTA Aquifer Assessment 10-06
Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

where \( R(r) = \) rejected recharge for the basin
\( R(e) = \) effective recharge

Effective recharge is the amount of water that enters an aquifer and is available for development (Muller and Price, 1978, p. 5). Rejected recharge is the amount of total (or potential) recharge that discharges from an aquifer because it is overfull and cannot accept more water (Theis, 1940, p.1).

In addition, it is assumed that

\[ R(r) \equiv D(t) \]

Therefore, the total rate of groundwater withdrawal equals effective recharge plus the change in storage of the aquifer, or

\[ Q(t) = R(e) + \frac{dS}{dt} \]

County, outcrop/subcrop, river basin, regional water planning area, area with water quality less than or equal to 3,000 milligrams per liter (mg/l) total dissolved solids (TDS), and groundwater conservation district boundaries were used to split the aquifer into map areas (Figure 1). The areal extent of each aquifer map area was calculated.

Annual effective recharge was calculated by multiplying each outcrop area by the average precipitation (1971-2000) and an effective recharge rate developed from base flow analysis for the Trinity Aquifer in the Hill Country of South-Central Texas (Ashworth, 1983).

Lateral inflow to the Trinity Aquifer in Groundwater Management Area 10 was estimated based on the average outflow across the Balcones Fault Zone results of Draft GAM Task 10-005 (Hutchison, 2010). Draft GAM Task 10-005 provides results of seven pumping scenarios from the Trinity Aquifer within Groundwater Management Area 9 using the Groundwater Availability Model (GAM) for the Hill Country portion of the Trinity Aquifer system in Texas. The average outflow across the Balcones Fault Zone results from Scenario 5 (total pumpage approximately 80,000 acre-feet per year) is used for the calculations in this assessment.

The areal extent of each map area in Travis and Hays counties was multiplied by the aquifer storage coefficient derived from aquifer tests performed and compiled
The remaining subcrop map areas were multiplied by the aquifer storage coefficient derived for the calibrated Groundwater Availability Model (GAM) for the Hill Country portion of the Trinity Aquifer system in Texas (Jones and others, 2009). Each map area was then multiplied by several uniform water level drawdown scenarios specified in the draft desired future conditions.

In outcrop areas where unconfined conditions exist the aerial extent was multiplied by the aquifer specific yield and then by several uniform water level drawdown scenarios specified in the draft desired future conditions.

Volumes for each scenario were then divided by 50 years to obtain an annual volume.

The calculations were completed in a Microsoft Excel worksheet.

**DETERMINING MANAGED AVAILABLE GROUNDWATER:**

As defined in Chapter 36 of the Texas Water Code, “managed available groundwater” is the amount of water that may be permitted by a groundwater conservation district. The estimated total annual volume of groundwater calculated, however, represents the total amount of pumping from the aquifer. The total pumping includes uses of water both subject to permitting and exempt from permitting. Examples of exempt uses include domestic, livestock, and oil and gas exploration. Each district may also exempt additional uses as defined by its rules or enabling legislation.

Since exempt uses are not available for permitting, it is necessary to account for them when determining managed available groundwater. To do this the Texas Water Development Board developed a standardized method for estimating exempt use for domestic and livestock purposes based on projected changes in population and the ratio of domestic and livestock wells in an area to the total number of wells. Because other exempt uses can vary significantly from district to district and there is much higher uncertainty associated with estimating use due to oil and gas exploration, estimates of exempt pumping outside domestic and livestock uses have not been included. If the district believes it has a more appropriate estimate of exempt pumping, they may submit it, along with a description of how it was developed, to the Texas Water Development Board for consideration. Once established, the estimates of exempt pumping are subtracted from the total pumping calculation to yield the estimated managed available groundwater for permitting purposes.
PARAMETERS AND ASSUMPTIONS:

- Outcrop and subcrop areas exist in the upper Trinity. Only subcrop areas exist in the middle and lower Trinity.
- Outcrop areas are calculated as unconfined areas of the aquifer and subcrop areas are calculated as confined areas of the aquifer.
- The aquifer is considered to contain water that is fresh to slightly saline (< 3,000 TDS)
- The aquifer area was calculated from the TWDB shapefile for the Trinity Aquifer, projected into the GAM projection (Anaya, 2001).
- Areas, in acres, were calculated within ArcGIS 9.3.
- Map areas were designated as Plum Creek Conservation District only where their jurisdiction does not overlap with the BSEACD.
- The Edwards Aquifer Authority (EAA) is not included in this assessment because they are restricted by their legislation to manage only the Edwards Aquifer. Map areas where the EAA or no other district exists are designated as "n/a."
- The draft managed available groundwater volume estimates are the annual volume of water depleted from the aquifer based on the draft desired future conditions.
- Water level drawdowns were assumed to be uniform across the aquifer.
- Annual volumes are calculated by dividing the total volume by 50 years.
- The average annual precipitation for outcrop map areas (Table 1) was determined from the Texas Climatic Atlas (Narasimhan and others, 2008) which is the average for years 1971 to 2000.
- Annual effective recharge from precipitation to outcrop areas is 4 percent of annual average precipitation (Ashworth, 1983).
- Lateral inflow to the Trinity Aquifer in Groundwater Management Area 10 is estimated to be 64,696 acre-feet per year based on the average outflow across the Balcones Fault Zone results (Scenario 5) from Draft GAM Task 10-005 (Hutchison, 2010) This volume was apportioned across the aquifer map areas. GAM Task 10-005 does not address Uvalde County; therefore the same value for total inflow to Medina County was used.
- Inflow is split between layers based on data from GAM Task 10-005. Inflow is only to the upper and middle Trinity units.
- Specific yield applied to the Trinity Aquifer outcrop areas is 0.05 (LBG-Guyton and Associates, 2003).
- The storage coefficient of the Trinity Aquifer subcrop is 0.001 derived from aquifer tests of the Trinity Aquifer subcrop in Travis and Hays counties (BSEACD, in preparation). The storage coefficient of the Trinity Aquifer subcrop in the remaining counties is 0.0000001 as derived from the
calibrated GAM for the Hill Country portion of the Trinity Aquifer system in Texas (Jones and others, 2009).

- Conditions were assumed to be physically possible across Groundwater Management Area 10.

Table 1. Estimated total annual effective recharge volume for the Trinity Aquifer by map area subdivisions (See Figure 1).

<table>
<thead>
<tr>
<th>GMA</th>
<th>Aquifer</th>
<th>County</th>
<th>GCD</th>
<th>Map Area</th>
<th>Areal extent (acres)</th>
<th>Estimated average annual precipitation (inches)</th>
<th>Estimated average annual precipitation (feet)</th>
<th>Effective recharge rate (percent)</th>
<th>Estimated annual effective recharge (ac-ft/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Hays</td>
<td>n/a</td>
<td>n/a</td>
<td>21</td>
<td>494</td>
<td>35</td>
<td>2.0</td>
<td>4</td>
<td>57</td>
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<tr>
<td></td>
<td>Hays</td>
<td>Hays Trinity GCD</td>
<td>22</td>
<td>554</td>
<td>35</td>
<td>2.9</td>
<td>4</td>
<td>64</td>
<td></td>
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<tr>
<td></td>
<td>Hays</td>
<td>Hays Trinity GCD</td>
<td>23</td>
<td>473</td>
<td>36</td>
<td>3</td>
<td>4</td>
<td>57</td>
<td></td>
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<tr>
<td></td>
<td>Hays</td>
<td>n/a</td>
<td>24</td>
<td>419</td>
<td>36</td>
<td>3</td>
<td>4</td>
<td>50</td>
<td></td>
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<tr>
<td></td>
<td>Comal</td>
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<td>1,262</td>
<td>35</td>
<td>2.9</td>
<td>4</td>
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<tr>
<td></td>
<td>Comal</td>
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<td>513</td>
<td>34</td>
<td>2.8</td>
<td>4</td>
<td>57</td>
<td></td>
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<tr>
<td></td>
<td>Utide</td>
<td>Utide County UWCD</td>
<td>27</td>
<td>372</td>
<td>29</td>
<td>2.4</td>
<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

GMA = groundwater management area
GCD = groundwater conservation district
ac-ft/yr = acre-feet per year
UWCD = underground water conservation district
n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD

The formula for this table is: areal extent (acres) * estimated average annual precipitation (feet) * effective recharge rate = estimated annual effective recharge (ac-ft/yr).
Figure 1. Geographic subdivisions for analyzing draft managed available groundwater for the Trinity Aquifer in GMA 10. GMA = groundwater management area, BSEACD = Barton Springs/Edwards Aquifer Conservation District, CD = conservation district, GCD = groundwater conservation district, UWCD = underground water conservation district
RESULTS:

The results (Tables 2-4) show the total pumping estimates for the Trinity Aquifer by layer in Groundwater Management Area 10.

Table 5 summarizes and combines the total pumping results from tables 2-4.

Table 6 shows exempt use estimates by county, river basin, regional water planning area, and groundwater conservation district for the Trinity Aquifer.

Table 7 summarizes the draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district. As described above, these reflect the difference between the combined total pumping (table 5) and the estimated exempt use (table 6).

Table 8 summarizes the draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by groundwater conservation district.
Table 2. Estimates of total pumping for the Upper Trinity Aquifer summarized by map areas (see Figure 1).

<table>
<thead>
<tr>
<th>GMA Aquifer</th>
<th>County</th>
<th>GCD</th>
<th>Map Area</th>
<th>Estimated storage coefficient</th>
<th>Area extent (acres)</th>
<th>Estimated total aquifer water level decline (feet)</th>
<th>Estimated total volume from water level decline (ac-foo)</th>
<th>Estimated annual volume from water level decline (ac-foo/yr)</th>
<th>Estimated annual effective recharge</th>
<th>Estimated annual lateral inflow</th>
<th>Estimated annual total volume (ac-foo/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tract</td>
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<td>1</td>
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<td>53.168</td>
<td>25</td>
<td>1,309</td>
<td>27</td>
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**Note:**
- **GMA** = groundwater management area
- **GCD** = groundwater conservation district
- **BSEACD** = Barton Springs/Edwards Aquifer Conservation District
- **UWCD** = Underground Water Conservation District
- **n/a** = Areas that are not covered by the Edwards Aquifer Authority or areas that are not covered by a GCD
- **1** = This is the estimated total annual effective recharge volume for the Trinity Aquifer by map areas as shown in Table 1.

The formulas for this table are:
- Storage coefficient = area extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual effective recharge + estimated annual lateral inflow = estimated annual total volume.
Table 3. Estimates of total pumping for the Middle Trinity Aquifer summarized by map areas (see Figure 1).

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Groundwater Management Area 10
Trinity Aquifer
Draft Managed Available Groundwater estimates
July 12, 2010

#### Table 3 continued.

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**Notes:**
- GMA = groundwater management area
- GCD = groundwater conservation district
- CD = conservation district
- BSEACD = Barton Springs/Edwards Aquifer Conservation District
- UWCD = underground water conservation district
- "ac-ft/yr" = acre-feet per year
- GCD = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD
- The formulas for this table are: storage coefficient * areal extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual lateral inflow = estimated annual total volume.
### Table 4. Estimates of total pumping for the Lower Trinity Aquifer summarized by map areas (see Figure 1).

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GMA = groundwater management area  
GCD = groundwater conservation district  
CD = conservation district  
BSEACD = Barton Springs/Edwards Aquifer Conservation District  
UWCD = underground water conservation district  
ac-ft/yr = acres-feet per year  
n/a = Areas that are covered by the Edwards Aquifer Authority or areas that are not covered by a GCD  
The formulas for this table are: storage coefficient * areal extent * desired total aquifer water level decline = estimated total volume from water level decline/50 = estimated annual volume from water level decline. Estimated annual volume from water level decline + estimated annual lateral inflow = estimated annual total volume.
Table 5. Summary of total pumping estimates for the Trinity Aquifer (upper, middle, and lower units combined).

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GCD = groundwater conservation district

ac-ft/yr = acre-feet per year

UWCD = underground water conservation district
Table 6. Estimates of exempt use for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district

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GCD = groundwater conservation district  
CD = conservation district  
UWCD = underground water conservation district  
ac-ft/yr = acre-feet per year

Table 7. Summary of draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by county, river basin, regional water planning area, and groundwater conservation district.

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GCD = groundwater conservation district  
CD = conservation district  
UWCD = underground water conservation district  
ac-ft/yr = acre-feet per year

Total (ac-ft/yr) 9,921 10,122 10,339 10,644 10,748
Table 8. Summary of draft managed available groundwater for the Trinity Aquifer in Groundwater Management Area 10 by groundwater conservation district.

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<td>Hays Trinity GCD</td>
<td>318</td>
<td>350</td>
<td>387</td>
<td>418</td>
<td>450</td>
</tr>
<tr>
<td>Medina County GCD</td>
<td>6,610</td>
<td>6,610</td>
<td>6,610</td>
<td>6,610</td>
<td>6,610</td>
</tr>
<tr>
<td>Plum Creek CD</td>
<td>307</td>
<td>322</td>
<td>340</td>
<td>355</td>
<td>373</td>
</tr>
<tr>
<td>Trinity Glen-Rose GCD</td>
<td>123</td>
<td>123</td>
<td>123</td>
<td>123</td>
<td>123</td>
</tr>
<tr>
<td>Uvalde County UWCD</td>
<td>803</td>
<td>813</td>
<td>822</td>
<td>831</td>
<td>841</td>
</tr>
<tr>
<td><strong>Total (ac-ft/yr)</strong></td>
<td><strong>9,921</strong></td>
<td><strong>10,122</strong></td>
<td><strong>10,339</strong></td>
<td><strong>10,544</strong></td>
<td><strong>10,748</strong></td>
</tr>
</tbody>
</table>

BSEACD = Barton Springs/Edwards Aquifer Conservation District  
GCD = groundwater conservation district  
CD = conservation district  
ac-ft/yr = acre-feet per year  
UWCD = underground water conservation district

Limitations:

Additional data are needed to create improved estimates; these estimates are a fundamental interpretation of the requested conditions. This analysis assumes homogeneous and isotropic aquifers; however, conditions for the Trinity Aquifer may not behave in a uniform manner.

Note that estimates of managed available groundwater are based on the best available scientific tools that can be used to develop 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.
REFERENCES:


STATE OF TEXAS

COUNTIES OF BEXAR, CALDWELL, COMAL, GUADALUPE, HAYS, KINNEY, MEDINA, TRAVIS, AND UVALDE

DRAFT RESOLUTION No. 2010-11

THE JOINT COORDINATING COMMITTEE OF GROUNDWATER MANAGEMENT AREA 10

RESOLUTION FOR THE ADOPTION OF THE DESIRED FUTURE CONDITIONS OF THREE MINOR AQUIFERS IN THE UVALDE COUNTY PORTION OF GROUNDWATER MANAGEMENT AREA 10

WHEREAS, THE JOINT COORDINATING COMMITTEE OF GROUNDWATER MANAGEMENT AREA (GMA) 10 COMPRISES DELEGATES DESIGNATED BY THE FOLLOWING GROUNDWATER CONSERVATION DISTRICTS (GCDs) LOCATED WHOLLY OR PARTIALLY WITHIN GMA 10: BARTON SPRINGS/EDWARDS AQUIFER CONSERVATION DISTRICT, EDWARDS AQUIFER AUTHORITY, GUADALUPE COUNTY GCD, HAYS TRINITY GCD, KINNEY COUNTY GCD, MEDINA COUNTY GCD, PŁUM CREEK CD, TRINITY GLEN ROSE GCD, AND UVALDE COUNTY UWCD;

WHEREAS, CHAPTER 36.108 OF THE TEXAS WATER CODE, (JOINT PLANNING IN MANAGEMENT AREA), REQUIRES THAT THE GROUNDWATER CONSERVATION DISTRICTS IN THE GMA ADOPT DESIRED FUTURE CONDITIONS (DFCs) OF ALL RELEVANT AQUIFERS IN THE GMA FOR A FIFTY-YEAR PLANNING PERIOD, NO LATER THAN SEPTEMBER 1, 2010;

WHEREAS, THE BOARD PRESIDENTS OR THEIR DESIGNATED REPRESENTATIVES OF THE GCDs IN GMA 10 HAVE MET AS A COMMITTEE IN VARIOUS MEETINGS AND CONDUCTED JOINT PLANNING IN ACCORDANCE WITH CHAPTER 36.108 OF THE TEXAS WATER CODE;
WHEREAS, ONE OR MORE OF THE COMMITTEE MEMBERS OF GMA 10 HAVE HELD ONE OR MORE PUBLIC MEETINGS NOTICED AND POSTED IN ACCORDANCE WITH STATE LAW, AND HAVE REVIEWED AND DISCUSSED PERTINENT AQUIFER ASSESSMENTS BY THE TEXAS WATER DEVELOPMENT BOARD (TWDB) AND OTHERS WITH THE PUBLIC AND HAVE RECEIVED INPUT AND COMMENT FROM STAKEHOLDERS WITHIN THAT PART OF GMA 10 THAT USES AND IS AFFECTED BY USERS AND USES OF THE LEONA GRAVEL, BUDA LIMESTONE, AND AUSTIN CHALK AQUIFERS IN UVALDE COUNTY (TOGETHER, THE MINOR UVALDE AQUIFERS);

WHEREAS, RECENT HISTORIC GROUNDWATER PUMPING IN THE LEONA GRAVEL, AUSTIN CHALK, AND BUDA AQUIFERS IN THE UVALDE COUNTY PORTION OF THE NUECES RIVER BASIN AND GMA 10 (TOGETHER, THE MINOR UVALDE COUNTY AQUIFERS) HAS RESULTED IN NO LONG TERM DRAWDOWN IN GROUNDWATER LEVELS;

WHEREAS, THE MINOR UVALDE COUNTY AQUIFERS ARE HYDROLOGICALLY CONNECTED AMONG THEMSELVES AND ALSO WITH THE UNDERLYING EDWARDS AQUIFER, SUCH THAT THE TWDB CONSIDERS THE AQUIFERS IN AN EQUILIBRIUM AT THEIR PRESENT USAGE AND ARE SELF-REGULATING;

WHEREAS, THE JOINT COORDINATING COMMITTEE HAS DETERMINED THAT A DESIRED FUTURE CONDITION OF ZERO DRAWDOWN IN THE MINOR UVALDE COUNTY AQUIFERS WILL LIKELY RESULT IN CONTINUATION OF THIS LEVEL OF HISTORIC GROUNDWATER PUMPING BY BOTH EXEMPT AND NON-EXEMPT USERS;


NOW, THEREFORE, BE IT RESOLVED THAT THE DISTRICT MEMBERS OF GROUNDWATER MANAGEMENT AREA 10 TAKE THE FOLLOWING ACTIONS:

1. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE LEONA GRAVEL AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE);

2. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE AUSTIN CHALK AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE);
3. ADOPT THE FOLLOWING AS THE INITIAL DESIRED FUTURE CONDITION OF THE BUDA LIMESTONE AQUIFER IN THE UVALDE COUNTY PART OF GMA 10: REGIONAL AVERAGE WELL DRAWDOWN OF ZERO (0) FEET (INCLUDING EXEMPT AND NON-EXEMPT USE); AND

4. REQUEST THE TWDB TO PROVIDE AN OFFICIAL ESTIMATE OF THE MANAGED AVAILABLE GROUNDWATER, AS DEFINED BY CHAPTER 36 OF THE TEXAS WATER CODE, THAT IS CONSISTENT WITH ACHIEVING THESE DFCs.
VOTED AND APPROVED THIS, THE ___ th DAY OF ____________, 2010, BY A VOTE OF ___ AYES AND ___ NAYS, CONSTITUTING AT LEAST A TWO-THIRDS MAJORITY OF THE VOTING MEMBERS PRESENT.

SIGNED    
Kirk Holland    Barton Springs/Edwards Aquifer Conservation District

SIGNED    
Luana Buckner    Edwards Aquifer Authority

SIGNED    
Ron Naumann    Guadalupe County GCD

SIGNED    
David Baker    Hays Trinity GCD

SIGNED    
Stan Mettaff    Kinney County GCD

SIGNED    
Thomas Boehme    Medina County GCD

SIGNED    
Daniel Meyer    Plum Creek Conservation District

SIGNED    
George Wissmann    Trinity Glen Rose GCD

SIGNED    
Vic Hilderbran    Uvalde County UWCD