



Bluebonnet Groundwater Conservation District  
303 East Washington, Suite D, PO Box 269  
Navasota, Texas 77868-0269  
Phone: 936 825-7303 Fax: 936 825-7331  
E-mail: [LBehm@bluebonnetgroundwater.org](mailto:LBehm@bluebonnetgroundwater.org)  
[www.bluebonnetgroundwater.org](http://www.bluebonnetgroundwater.org)

Certified Mail

August 25, 2010

7002 3150 0004 6805 3732

Mr. J. Kevin Ward, Executive Administrator  
Texas Water Development Board (TWDB)  
PO Box 13231  
Austin, TX 78711-3231

Dear Mr. Ward,

As Administrator of Groundwater Management Area 14, I would like to state that the District Committee Members of GMA 14 have adopted Desired Future Conditions (DFCs) and are submitting the DFC statements to TWDB.

Upon evaluating several Groundwater Availability Modeling scenarios, the six Committee Members of GMA 14 present and representing all of the groundwater districts within GMA 14 voted unanimously in an open meeting held on August 25, 2010 to adopt the DFC statements presented in the attached resolution for aquifers within the GMA. Please find enclosed resolution 2010-01 with signatures of the District Committee Members present and record of their votes, record of the meeting notice postings, and minutes of the meeting.

If there is any additional information that needs to be submitted, until December 31, 2010 I can be contacted at: Bluebonnet Groundwater Conservation District, P.O. Box 269, Navasota, Texas 77868, Ph. 936 825-7303. After January 1, 2011, if additional information is needed, please contact: Kathy Jones, General Manager, Lone Star GCD, PO Box 2467, Conroe, Texas 77305, Ph. 936 494-3436. After January 1, 2011, any correspondence regarding the GMA 14 DFC or MAG needs to be sent to Ms. Jones. The date specific contacts are necessary due to my retirement on December 31, 2010.

Sincerely,

Lloyd A Behm  
General Manager

**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
Conference Room  
207 W. Phillips Street, Suite 300  
Conroe, Texas

**AGENDA**

1. Call to order
2. Discussion and possible action to approve minutes of 8/17/10 GMA 14 Planning Meeting.
3. Discussion and possible action to adopt resolution adopting Desired Future Conditions for GMA 14.
4. Adjourn 1:00 PM meeting.

**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

Joint Planning Group

Wednesday, August 25, 2010  
1:30 PM or 30 minutes following adjournment of 1:00 PM meeting on this date

Lone Star Groundwater Conservation District  
Conference Room  
207 W. Phillips Street, Suite 300  
Conroe, Texas

**AGENDA**

1. Call to Order
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4. Discussion and possible action to set date and time for next GMA 14 meeting
5. Adjourn 1:30 PM Meeting



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

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

## UPPER GULF COAST AQUIFER PLANNING AREA (GMA 14)

Joint Planning Group

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1:00 PM

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Joint Planning Group

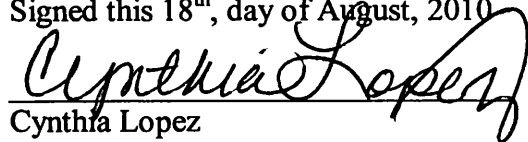
Wednesday, August 25, 2010  
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Signed this 18<sup>th</sup>, day of August, 2010



Cynthia Lopez  
Office Manager

:9792790035



# BRAZOS VALLEY GROUNDWATER CONSERVATION DISTRICT

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

CLERK, COUNTY CLERK  
COUNTY CLERK

## UPPER GULF COAST AQUIFER PLANNING AREA (GMA 14)

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
Conference Room  
207 W. Phillips Street, Suite 300  
Conroe, Texas

*Beth King*

2010 AUG 19 A 8:43

FILED

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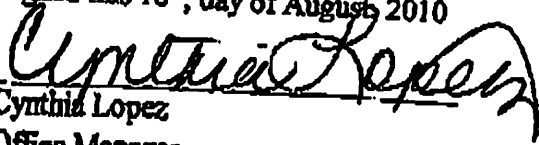
:9792790035

# 31 3

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Cynthia Lopez  
Office Manager



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

## UPPER GULF COAST AQUIFER PLANNING AREA (GMA 14)

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
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207 W. Phillips Street, Suite 300  
Conroe, Texas

FILED FOR RECORD  
COUNTY CLERK  
ROBERTS COUNTY, TX  
AUG 18 AM 8:40  
*Robert Roberts*  
CLERK OF COURTS ROBERTS COUNTY TEXAS

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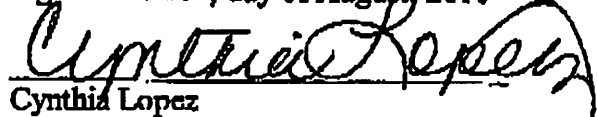
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Signed this 18<sup>th</sup>, day of August 2010



Cynthia Lopez  
Office Manager

*[Handwritten signature]*  
COUNTY CLERK

10 AUG 18 AM 8:40

FILED FOR RECORD  
COUNTY COURT  
ROBERTSON COUNTY, TX



**UPPER GULF COAST AQUIFER PLANNING AREA  
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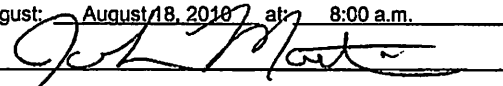
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Posted on: August: August 18, 2010 at: 8:00 a.m.  
By:   
Title: General Manager

**UPPER GULF COAST AQUIFER PLANNING AREA  
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DEBBIE NEWMAN, COUNTY CLERK  
JASPER COUNTY, TEXAS

FILED ~~AUG 18 2010~~

BY   
DEPUTY

**[jmartin@setgcd.org](mailto:jmartin@setgcd.org)**

---

**From:** liaison@sos.state.tx.us  
**Sent:** Wednesday, August 18, 2010 8:02 AM  
**To:** jmartin@setgcd.org  
**Subject:** S.O.S. Acknowledgment of Receipt

Agency: Southeast Texas Groundwater Conservation District  
Liaison: John M. Martin

Acknowledgment of Receipt

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

Meeting Information:

GMA 14

Regular Board Meeting

08/25/2010 01:00 PM "TRD# 2010006426"

Notice posted: 08/18/10 08:01 AM

Proofread your current open meeting notice at:

[http://info.sos.state.tx.us/pls/pub/pubomquery\\$omquery.queryTRD?p\\_trd=2010006426](http://info.sos.state.tx.us/pls/pub/pubomquery$omquery.queryTRD?p_trd=2010006426)



## Open Meeting Submission

*Success!*  
Row inserted

**TRD:** 2010006426  
**Date Posted:** 08/18/2010  
**Status:** Accepted  
**Agency Id:** 1416  
**Date of Submission:** 08/18/2010  
**Agency Name:** Southeast Texas Groundwater Conservation District  
**Board:** GMA 14  
**Committee:** Regular Board Meeting  
**Liaison Id:** 3  
**Date of Meeting:** 08/25/2010  
**Time of Meeting:** 01:00 PM (###:## AM Local Time)  
**Street Location:** 207 W. Phillips St., Suite 300  
**City Location:** Conroe  
**State Location:** TX  
**Liaison Name:** John M. Martin  
**Additional Information Obtained From:** John Martin  
 (409) 383-1577  
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**New**



**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
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RETURN  
 CAME TO MY HAND on the 18 day of Aug 2010,  
 and executed by posting a true copy at the Court house of  
 Brazoria County, Texas, on the 18 day of Aug 2010.  
 JOYCE HUDMAN, Clerk  
 County Court, in and for  
 Brazoria County, Texas  
 By [Signature] Deputy

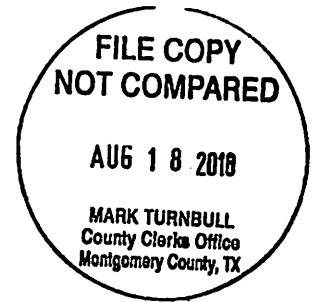
218 FILED  
 AT 7:18 O'CLOCK P.M.  
 AUG 18 2010  
 Joyce Hudman  
 COUNTY CLERK  
 BRAZORIA COUNTY TEXAS

**UPPER GULF COAST AQUIFER PLANNING AREA  
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Posted on 8-17-10 at 4:10pm  
By Sally Williams  
Title Adm. Asst.

**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
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207 W. Phillips Street, Suite 300  
Conroe, Texas

#217  
**FILED FOR RECORD**  
AT 1:09 O'CLOCK P.M

AUG 18 2010

DAVID PASKET  
County Clerk, Grimes County, TX  
By [Signature] Deputy

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David Pasket, County Clerk  
Grimes County

STATE OF TEXAS  
I hereby certify that this instrument was  
filed on the date and time stamped hereon by me  
and was duly recorded in the volume and page  
of the named records of:  
Grimes County  
as stamped hereon by me:  
Aug 18, 2010

Filed for Record in:  
Grimes County  
On: Aug 18, 2010 at 01:09P  
As a NOTICE  
Amount 3.00  
Receipt Number - 37232  
By: Kristie Johnson



## Lloyd Behm

---

**From:** liaison@sos.state.tx.us  
**Sent:** Tuesday, August 17, 2010 3:54 PM  
**To:** LBehm@bluebonnetgroundwater.org  
**Subject:** S.O.S. Acknowledgment of Receipt

Agency: Bluebonnet Groundwater Conservation District  
Liaison: Lloyd A. Behm

Acknowledgment of Receipt

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

Meeting Information:

GMA 14

Joint Planning Group

08/25/2010 01:00 PM "TRD# 2010006408"

Notice posted: 08/17/10 03:53 PM

Proofread your current open meeting notice at:

[http://info.sos.state.tx.us/pls/pub/pubomquery\\$omquery.queryTRD?p trd=2010006408](http://info.sos.state.tx.us/pls/pub/pubomquery$omquery.queryTRD?p trd=2010006408)



## Current Meeting Notices

Agency Name	Date of Meeting	Time of Meeting ((Local Time))	Board	Committee	Status
<a href="#"><u>Bluebonnet Groundwater Conservation District</u></a>	08/25/2010	01:00 PM	GMA 14	Joint Planning Group	Active

Record 1

[Query](#)

For comments and or questions about this website please contact *Texas Register*  
[register@sos.state.tx.us](mailto:register@sos.state.tx.us)



## Current Meeting Notices

**Agency Name:** Bluebonnet Groundwater Conservation District  
**Date of Meeting:** 08/25/2010  
**Time of Meeting:** 01:00 PM (Local Time)  
**Board:** GMA 14  
**Committee:** Joint Planning Group  
**Status:** Active  
**Street Location:** 207 W. Phillips Street, Suite 300  
**City Location:** Conroe  
**Meeting State:** TX  
**TRD ID:** 2010006408  
**Submit Date:** 08/17/2010  
**Emergency Meeting?:** No  
**Additional Information Obtained From:** Lloyd A Behm, Bluebonnet GCD  
 936 825-7303  
**Agenda:** UPPER GULF COAST AQUIFER PLANNING AREA  
 (GMA 14)

Joint Planning Group

Wednesday, August 25, 2010  
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**For comments and or questions about this website please contact *Texas Register***  
**[register@sos.state.tx.us](mailto:register@sos.state.tx.us)**

2010-115

**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

Joint Planning Group

Wednesday, August 25, 2010  
1:00 PM

Lone Star Groundwater Conservation District  
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207 W. Phillips Street, Suite 300  
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FILED FOR RECORD  
2010 AUG 18 PM 2:12

*Christina Walker*  
SCOTT WALKER  
PDR

**AGENDA**

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LOWER TRINITY GROUNDWATER  
CONSERVATION DISTRICT  
P.O. BOX 1879  
LIVINGSTON, TX 77351

*posted at office  
8/18/10 - 2:30 P.M.*

*By BILL Jacobs*

*General Manager*

GMA 14 Plan Group 08/17/10 Meeting Agenda

**2010-115**

**UPPER GULF COAST AQUIFER PLANNING AREA  
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FILED FOR RECORD  
2010 AUG 18 PM 2:12

*Shelene Walker*  
SHELENE WALKER  
POLK COUNTY CLERK

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375

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FILED FOR  
RECORD  
Page 8 of 1  
2010 AUG 18 PM 1:29  
Angelia Steele  
COUNTY CLERK  
SAN JACINTO COUNTY, TEXAS

## RESOLUTION FOR THE ADOPTION OF THE DESIRED FUTURE CONDITIONS FOR ALL AQUIFERS IN GROUNDWATER MANAGEMENT AREA 14

Whereas, pursuant to Section 35.004 of the Texas Water Code, the Texas Water Development Board ("TWDB") has designated groundwater management areas that, together, cover all major and minor aquifers in the state; and

Whereas, each groundwater management area was designated with the objective of providing the most suitable area for the management of groundwater resources; and

Whereas, through title 31, Section 356.23 of the Texas Administrative Code, the TWDB has designated the area encompassing all of Austin, Brazoria, Brazos, Chambers, Fort Bend, Galveston, Grimes, Hardin, Harris, Jasper, Jefferson, Liberty, Montgomery, Newton, Orange, Polk, San Jacinto, Tyler, Walker, Waller, and Washington counties as Groundwater Management Area No. 14 ("GMA 14"); and

Whereas, GMA 14 includes all or portions of areas subject to groundwater regulation by Bluebonnet Groundwater Conservation District (Grimes, Walker, Austin, and Waller Counties), Brazoria County Groundwater Conservation District, Brazos Valley Groundwater Conservation District (Brazos County), Lone Star Groundwater Conservation District (Montgomery County), Lower Trinity Groundwater Conservation District (Polk and San Jacinto Counties), and Southeast Texas Groundwater Conservation District (Hardin, Jasper, Newton, and Tyler Counties) (the "Member Districts"); and

Whereas Fort Bend Subsidence District (Fort Bend County), Harris-Galveston Subsidence District (Galveston, Harris Counties), and other stakeholders within GMA 14 from Chambers County, Liberty County, and Washington County also contributed to the development of DFCs for GMA 14; and

Whereas, Section 36.108 of the Texas Water Code requires the Member Districts in GMA 14 to consider groundwater availability models and other data or information for the management area and establish a desired future condition ("DFC") for each relevant aquifer within GMA 14 by September 1, 2010; and

Whereas, the Member Districts within GMA 14 secured hydrogeologic and engineering consulting services to provide technical support in their efforts to establish requisite DFCs; and

Whereas, in developing the DFCs for the relevant aquifers within GMA 14, the Member Districts in GMA 14 considered their respective desired production volumes for the 2010-2060 planning horizon, the aquifer availability projections in the 2006 Region H Regional Water Plan, and the results of the Northern Gulf Coast Groundwater Availability Model (GAM) simulation that was performed using all relevant input parameters; and

Whereas, the Member Districts used this information to developed proposed DFCs for the portions of the northern segment of the Gulf Coast aquifer that occurs within the bounds of GMA 14; and



Whereas, the Members Districts submitted the GAM run for the Northern Gulf Coast Aquifer, along with a technical memo describing the GAM run, to TWDB; and

Whereas, TWDB conducted a review of the GMA 14 GAM run for the Northern Gulf Coast Aquifer in GAM Task 10-002; and

Whereas, TWDB developed an updated GAM Run 10-023 for the Northern Gulf Coast Aquifer and submitted it to GMA 14, including Scenario 3 which includes the original pumpage for counties with the exception of counties within Southeast Texas Groundwater Conservation District in which pumpage was adjusted to meet the previously developed drawdown conditions; and

Whereas, the Brazos G Regional Water Planning Group has produced an estimate of groundwater availability from the Yegua-Jackson Aquifer in Washington County based on aquifer recharge; and

Whereas, TWDB has prepared a report for GAM Task 10-012 for the Yegua-Jackson Aquifer based on groundwater production information published in the 2007 State Water Plan; and

Whereas, Bluebonnet Groundwater Conservation District has prepared and adopted a management plan recommending management conditions for the Carrizo-Wilcox, Brazos River Alluvium, Queen City, Sparta, and Yegua-Jackson aquifers; and

Whereas, during joint meetings noticed and conducted pursuant to Section 36.108(e) of the Texas Water Code, the Member Districts considered GAMs and other data and information relevant to the development of DFCs for GMA 14, including input and comments from stakeholders within GMA 14; and

Whereas, the Member Districts find that all notice requirements for a meeting, held this day, to take up and consider adoption of the DFCs proposed herein for GMA 14 have been, and are, satisfied; and

Whereas, the Member Districts find that the DFCs proposed herein for establishment are each merited and necessary for the effective and prudent management of groundwater resources within GMA 14, and have otherwise been developed in accordance with, and do satisfy the obligations imposed by, Chapter 36 of the Texas Water Code and all other applicable laws of the State of Texas.

Now, therefore, be it resolved by the Member Districts of GMA 14 that the following DFCs are each hereby established:

### Formations in Fort Bend, Galveston, and Harris Counties

The Groundwater Management Area (GMA) efforts to determine Desired Future Conditions (DFCs) is primarily an aquifer water-level based approach to describe the regional and local desires for the aquifer beneath them. The GMA process only requires Groundwater Conservation Districts (GCDs) to determine the DFCs for the entire GMA, regardless of whether each county is included within a GCD. The Fort Bend Subsidence District (FBSD) and the Harris-Galveston Subsidence District (HGSD), operating in Fort Bend County and Harris and Galveston Counties, respectively, regulate groundwater for the purpose of ending land surface subsidence within their jurisdiction. They are not GCDs and operate considerably different from the typical GCD. Therefore, in an official context these three counties are “unrepresented” but the GCDs within GMA-14 must still determine the DFC for these counties.

Both FBSD and HGSD have participated in an unofficial role to aid the GCDs within GMA-14 with their evaluation of Fort Bend, Galveston and Harris County information. The groundwater pumpage within these three counties even though regulated is still greater than the sum of all other counties within GMA-14. FBSD and HGSD recognize that the projected groundwater pumpage from these three counties will impact the decisions of GMA-14 throughout a large portion of the area. FBSD and HGSD have provided considerable historical and projected groundwater pumpage data and details of regulations to assist GMA-14 in incorporating these counties in the overall GMA-14 DFC. FBSD and HGSD cannot however, present DFCs for these three counties in terms of aquifer water-level changes over time. The FBSD and HGSD regulations do not specifically address water-levels nor do they designate a specific pumping limit, rather the regulations are based on limitations of groundwater as a percentage of total water demand. The percentage of groundwater to total water demand is decreased over time, as total water demand increases.

The goal of both FBSD and HGSD is to end land surface subsidence that is caused by man’s pumpage of groundwater. There is a clearly established link between the over-pumpage of groundwater and land surface subsidence. The DFC within the aquifer beneath Fort Bend, Galveston, and Harris Counties has no easily defined relationship to water-levels. The Desired Future Condition for FBSD and HGSD is the reduction and halting of the compaction of clay layers within the aquifer caused by the over-pumpage of groundwater. Stated more simply, the DFC for these three counties is that future land surface subsidence be avoided. That stated HGSD and FBSD have adopted regulations, most recently in 1999 and 2003 respectively that require the reduction of groundwater pumpage and the conversion to alternate water sources, while balancing with the realistic ability of the permittees to achieve compliance with these regulations.

Within HGSD, from central to southeastern Harris County and all of Galveston County (Regulatory Areas 1 and 2), virtually all permittees have achieved compliance with previous and current HGSD regulations. Subsidence has been halted and water-levels within the aquifer have risen dramatically in these areas. However, in northern and western areas of Harris County (Regulatory Area 3), the HGSD regulations have allowed groundwater pumpage to continue until the required reductions in 2010, 2020, and 2030. With these scheduled reductions in groundwater pumpage, subsidence will slow dramatically and even be halted with water-levels stabilizing and in later years rising.

Within FBSD, from central to northern and eastern Fort Bend County (Regulatory Area A), the regulations call for reductions of groundwater pumpage in 2013/2015, and 2025. Similar to HGSD's Regulatory Area 3, subsidence within FBSD Regulatory Area A will slow dramatically and even be halted with water-levels stabilizing and in later years rising.

In both HGSD and FBSD, because of the percentage based approach to regulations, groundwater pumpage will increase until scheduled reductions in milestone years (ex: 2010, 2013/2015, 2020, 2025, and 2030). In between milestone years, groundwater pumpage will increase with the assumed increase in total water demand from an assumed increase in population. In order to demonstrate the DFC of these three counties using water-level changes, the area of previous groundwater-to-alternative water conversions must be separated from future conversions AND each annual time step must be depicted. If a further separation in to layers of the aquifer is necessary, then it is quite apparent that describing the DFC in terms of water-levels is far too complicated and error prone.

The HGSD and FBSD have submitted to GMA-14 their current regulations and projected groundwater pumpages through the year 2030. This data has been divided into the grid cells/layers relative to the Northern Gulf Coast Groundwater Availability Model (NGCGAM) and utilized by the GCDs in development of their DFCs. For the years beyond 2030, assumptions were made to address groundwater pumping limits.

Groundwater pumpage within GMA-14 from Fort Bend, Galveston, and Harris Counties is regulated by FBSD and HGSD, non GCD governmental agencies (the only GMA with this occurrence) and the missions of HGSD and FBSD are vastly different from GCDs and do not fit well with a water-level designed DFC process). The groundwater pumpage projections developed in recognition of the HGSD and FBSD regulatory plans have been utilized without adjustment by GMA14 in the DFC process. Therefore, the DFCs adopted by GMA-14 are consistent with the HGSD and FBSD regulatory plans.

**Formations of the Gulf Coast Aquifer**

***Austin County (BGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 17 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 10 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 11 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 20 feet after 52 years.

***Brazoria County (BCGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 45 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 40 feet after 52 years.

***Brazos County (BVGCD)***

- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 7 feet after 52 years.

***Chambers County***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 43 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 36 feet after 52 years.

***Grimes County (BGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 0 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 5 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 10 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 28 feet after 52 years.

***Hardin County (STGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 17 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 27 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 23 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 37 feet after 52 years.

***Jasper County (STGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 10 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 23 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 24 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 21 feet after 52 years.

***Jefferson County***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 25 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 26 feet after 52 years.

***Liberty County***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 32 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 37 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 28 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 64 feet after 52 years.

***Montgomery County (LSGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 3 feet after 8 years.

- From estimated year 2016 conditions, the average draw down of the Chicot aquifer should not exceed approximately 6 feet after 44 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 13 feet after 8 years.
- From estimated year 2016 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 25 feet after 44 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 10 feet after 8 years.
- From estimated year 2016 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 23 feet after 44 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 61 feet after 8 years.
- From estimated year 2016 conditions, the average draw down of the Jasper aquifer should not exceed approximately –38 feet after 44 years.

***Newton County (STGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 9 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 20 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 22 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 18 feet after 52 years.

***Orange County***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 14 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 19 feet after 52 years.

***Polk County (LTGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 4 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 4 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 20 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 41 feet after 52 years.

***San Jacinto County (LTGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 5 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 7 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 18 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 72 feet after 52 years.

***Tyler County (STGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 3 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 16 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 19 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 33 feet after 52 years.

***Walker County (BGCD)***

- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 10 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 5 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 33 feet after 52 years.

***Waller County (BGCD)***

- From estimated year 2008 conditions, the average draw down of the Chicot aquifer should not exceed approximately 7 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 8 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 9 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 25 feet after 52 years.

***Washington County***

- From estimated year 2008 conditions, the average draw down of the Evangeline aquifer should not exceed approximately 1 foot after 52 years.
- From estimated year 2008 conditions, the average draw down of the Burkeville confining unit should not exceed approximately 17 feet after 52 years.
- From estimated year 2008 conditions, the average draw down of the Jasper aquifer should not exceed approximately 20 feet after 52 years.

**Carrizo Sand Aquifer**

***Grimes County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Carrizo Sand Aquifer should not exceed approximately 52.8 feet average draw down across the area of occurrence of the aquifer.

***Walker County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Carrizo Sand Aquifer should not exceed approximately 45.7 feet average draw down across the area of occurrence of the aquifer.

**Queen City Aquifer**

***Grimes County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Queen City Aquifer should not exceed approximately 16.8 feet average draw down across the area of occurrence of the aquifer.

***Walker County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Queen City Aquifer should not exceed approximately 21.0 feet average draw down across the area of occurrence of the aquifer.



### **Sparta Aquifer**

#### ***Grimes County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Sparta Aquifer should not exceed approximately 14 feet average draw down across the area of occurrence of the aquifer.

#### ***Walker County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the Sparta Aquifer should not exceed approximately 19.5 feet average draw down across the area of occurrence of the aquifer.

### **Yegua-Jackson Aquifer**

#### ***Grimes County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the unconfined portion of the Yegua should not exceed approximately 10 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the confined portion of the Yegua should not exceed approximately 15 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the brackish confined portion of the Yegua should not exceed approximately 20 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the unconfined portion of the Jackson should not exceed approximately 10 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the confined portion of the Jackson should not exceed approximately 15 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the brackish confined portion of the Jackson should not exceed approximately 20 feet average draw down across the area of occurrence of the aquifer.

***Jasper County (STGCD)***

- The portion of the Yegua-Jackson occurring in Jasper County is declared non-relevant.

***Newton County (STGCD)***

- The portion of the Yegua-Jackson occurring in Newton County is declared non-relevant.

***Polk County (LTGCD)***

- From estimated 2010 conditions, the average drawdown of the Yegua-Jackson should not exceed approximately 2 feet average draw down across the area of occurrence of the aquifer.

***Tyler County (STGCD)***

- The portion of the Yegua-Jackson occurring in Tyler County is declared non-relevant.

***Walker County (BGCD)***

- From estimated 2010 conditions, the average drawdown of the unconfined portion of the Yegua should not exceed approximately 10 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the confined portion of the Yegua should not exceed approximately 15 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the brackish confined portion of the Yegua should not exceed approximately 20 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the unconfined portion of the Jackson should not exceed approximately 10 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the confined portion of the Jackson should not exceed approximately 15 feet average draw down across the area of occurrence of the aquifer.
- From estimated 2010 conditions, the average drawdown of the brackish confined portion of the Jackson should not exceed approximately 20 feet average draw down across the area of occurrence of the aquifer.

***Washington County***

- From estimated 2010 conditions, no additional drawdown of the Yegua Jackson across the area of occurrence of the aquifer.

**River Alluvium Aquifers**

***Austin County (BGCD)***

- From estimated 2010 conditions, the saturated thickness of the Brazos River Alluvium should be maintained at 90 percent.
- From estimated 2010 conditions, the saturated thickness of the San Bernard River Alluvium should be maintained at 90 percent.

***Brazos County (BVGCD)***

- The Brazos River Alluvium Aquifer is viewed as not relevant to the joint planning process of GMA 14.

***Grimes County (BGCD)***

- From estimated 2010 conditions, the saturated thickness of the Brazos River Alluvium should be maintained at 90 percent.
- From estimated 2010 conditions, the saturated thickness of the Navasota River Alluvium should be maintained at 90 percent.

***Walker County (BGCD)***

- From estimated 2010 conditions, the saturated thickness of the San Jacinto River Alluvium should be maintained at 90 percent.
- From estimated 2010 conditions, the saturated thickness of the Trinity River Alluvium should be maintained at 90 percent.

***Waller County (BGCD)***

- From estimated 2010 conditions, the saturated thickness of the Brazos River Alluvium should be maintained at 90 percent.

***Washington County***

- From estimated 2010 conditions, the saturated thickness of the Brazos River Alluvium should be maintained at 90 percent.

And it is so ordered and passed this 25th day of August, 2010.

Signed Lloyd A Behm

Mr. Lloyd Behm                      Bluebonnet Groundwater Conservation District

Signed Kent Burkett

Mr. Kent Burkett                      Brazoria County Groundwater Conservation District

Signed Ralph Crum

Mr. Ralph Crum                      Brazos Valley Groundwater Conservation District

Signed Kathy Jones

Ms. Kathy Jones                      Lone Star Groundwater Conservation District

Signed Bill Jacobs

Mr. Bill Jacobs                      Lower Trinity Groundwater Conservation District

Signed John Martin

Mr. John Martin                      Southeast Texas Groundwater Conservation District

UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)

Joint Planning Group  
Meeting

Tuesday, August 25, 2010  
1:00 PM

**MEETING MINUTES**

A regular meeting of the Upper Gulf Coast Aquifer Planning Area (GMA 14) was held Tuesday, August 25, 2010, at 1:00 p.m., in the board room of the Lone Star Groundwater Conservation District located at 207 W Phillips St, Suite 300, Conroe, Texas.

The meeting was called to order by Lloyd Behm (Bluebonnet GCD) at 1:00 p.m. District representatives introduced themselves. Districts represented included: Lone Star GCD, Bluebonnet GCD, Brazoria County, Lower Trinity GCD, Brazos Valley GCD, Brazoria County GCD and Southeast Texas GCD. Also, in attendance at said meeting were: Sarah Backhouse and Bill Hutchison with the TWDB and Jason Afinowicz with AECOM. (see Attachment "A" for a list of attendees).

Members discussed approval of the meeting minutes of August 17, 2010, Joint Planning Group Meeting. Without further discussion, upon a motion by, Ralph Crum (Brazos Valley GCD), Seconded by, Kathy Jones (Lone Star GCD) and unanimously carried, the meeting minutes for August 17, 2010, were approved.

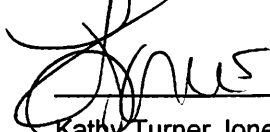
Discussion was made in regards to the resolution adopting Desired Future Conditions for GMA 14. Jason Afinowicz presented the few minor changes made to the resolution since the last meeting. Without further discussion, upon a motion by Ralph Crum (Brazos Valley GCD), seconded by Kathy Jones (Lone Star GCD), and unanimously carried, Resolution No. 2010-01 for the Adoption of the Desired Future Conditions for all Aquifers in Groundwater Management Area 14 was approved as presented.

There being no further business, upon a motion by John Martin (Southeast Texas GCD), seconded by Ralph Crum (Brazos Valley GCD), the meeting was adjourned at 1:10 p.m.

PASSED, APPROVED, AND ADOPTED THIS 25th day of August, 2010.

  
\_\_\_\_\_  
Lloyd Behm, Chairman

ATTEST:

  
\_\_\_\_\_  
Kathy Turner Jones, Secretary

**UPPER GULF COAST AQUIFER PLANNING AREA  
(GMA 14)**

**25-Aug-10**

**MEMBER ATTENDANCE**

Member District	District Representative (Please Print)	Signature	Alternate (Please Print)	Signature
Bluebonnet GCD	Jared Patout, Bd. Pres.		Lloyd Behm, GM	<i>Lloyd A Behm</i>
Brazoria County GCD	<i>KENT BURKETT, GM</i>	<i>Kent Burkett</i>		
Brazos Valley GCD	<i>RALPH CRUM</i>	<i>Ralph Crum</i>		
Lone Star GCD	Kathy Jones, GM	<i>Kathy Jones</i>	Orval R. Love	
Lower Trinity GCD	Bill Jacobs, GM	<i>Bill Jacobs</i>		
Southeast Texas GCD	John Martin, GM	<i>John Martin</i>		
TWDB	Robert Bradley		Sarah Backhouse	<i>Sarah Backhouse</i>

