

Contents

Chapter 10 – Public Participation in Developing the 2011 Region H Water Plan 1

- 10.1 Introduction..... 1
 - 10.1.1 Regional Water Planning Group as Stakeholder Representatives 1
 - 10.1.2 Public Meetings during Plan Development 1
 - 10.1.3 Targeted Meetings during Plan Development..... 2
 - 10.1.4 Public Notices and Press Releases 2
 - 10.1.5 Region H Water Website..... 2
 - 10.1.6 Texas Water Development Board Website..... 2
- 10.2 Summary of Public Hearing, August 2, 2006 2
- 10.3 Summary of Public Hearing, May 28, 2008 4
- 10.4 Summary of Public Meeting, May 6, 2009 5
- 10.5 Summary of Public Meeting, July 1, 2009..... 7
- 10.6 Public Review and Comment on Initially Prepared Plan..... 9
 - 10.6.1 Identification of Libraries 9
 - 10.6.2 Public Notice and Press Releases 9
 - 10.6.3 Distribution of Documents for Review and Comment 10
- 10.7 Summary of Public Hearings and Written Comments on the Initially Prepared Plan 12
 - 10.7.1 Summary of Public Hearing, March 30, 2010 13
 - 10.7.2 Summary of Public Hearing, April 1, 2010 14
 - 10.7.3 Summary of Public Hearing, April 7, 2010 15

List of Tables

- Table 10-1: Attendance at Public Hearing, August 2, 2006
- Table 10-2: Attendance at Public Hearing, May 28, 2008
- Table 10-3: Attendance at Public Hearing, May 6, 2009
- Table 10-4: Attendance at Public Hearing, July 1, 2009
- Table 10-5: Public Libraries Holding Copies of the Region H Regional Water Plan
- Table 10-6: Attendance at Public Hearing, March 30, 2010
- Table 10-7: Attendance at Public Hearing, April 1, 2010
- Table 10-8: Attendance at Public Hearing, April 7, 2010

Appendices

Appendix A	Public Hearing Materials, August 2, 2006
Appendix B	Public Hearing Materials, May 28, 2008
Appendix C	Public Meeting Materials, May 6, 2009
Appendix D	Public Meeting Materials, July 1, 2009
Appendix E	Public Hearing Materials, March 30, 2010
Appendix F	Public Meeting Materials, April 1, 2010
Appendix G	Public Meeting Materials, April 7, 2010
Appendix H	Written Comments
Appendix I	Responses to Written Comments

Chapter 10 – Public Participation in Developing the 2011 Region H Water Plan

10.1 Introduction

The Region H Water Planning Group (RHWPG) has sought to encourage public involvement and the participation of interested parties during the process of plan development so that any concerns could be addressed before the draft plan was completed. From its initial deliberations in preparing the 2001 Regional Water Plan, the RHWPG has made a commitment to an open planning process and has actively solicited public input and involvement in developing the elements of the 2011 Regional Water Plan (RWP). Securing a high level of public participation continues to be a challenge for long-term planning, even for a topic so vital to public well-being as the water supply, particularly if there is no drought. The attention of the news media in a major media market is rarely focused on continuing efforts that result in lengthy documents, no matter how important those documents may be to the region's future. Nevertheless, the RHWPG has reached out to communicate with the general public and especially with those segments of the population who will be most affected by the results of the regional water plan. This has been accomplished by pursuing several avenues to gain public involvement.

10.1.1 Regional Water Planning Group as Stakeholder Representatives

The first line of public involvement occurs through the membership of the Region H Water Planning Group. Each of the members of the RHWPG represent an interest category, such as river authority, agriculture, small businesses, general public, etc. They also represent the different geographic areas within this large region. Most of these members have linkages to the community through various organizations. These linkages, such as professional organizations or citizens groups, are the first avenue for taking information to the public and for receiving input to the RHWPG.

During development of the 2011 RWP, the RHWPG has met on the first Wednesday of the month at least quarterly, but often on a more frequent basis, so that interested parties can plan to attend and follow the proceedings. Notices of these meetings are posted in each of the counties in Region H and are e-mailed to a list of "interested persons" who have requested to be informed. The RHWPG maintains minutes of its meetings and places them on the Region H Water website for review, along with a multitude of other meeting resources.

10.1.2 Public Meetings during Plan Development

In addition to the August 2006 public hearing initiating the first biennium of the planning effort, the Region H Water Planning Group has held public meetings/hearings at several points in the planning process. Meeting formats encouraged discussion of the issues and in spite of the sparse turnout, those attending generally gave positive feedback. Summaries of the meetings and lists of attendees are included in this report.

This initial hearing in August 2006 began the development of special studies on environmental flows, drought management, and interruptible supplies. Another public hearing was held in May 2008 to initiate the second biennium of planning that would culminate in the development of the 2011 RWP. This meeting was held at the office of the San Jacinto River Authority in conjunction with a regular meeting of the RHWPG.

In May and July of 2009, meetings were again held at the San Jacinto River Authority offices. These were both morning meetings and focused on review and comment on the draft population projections prepared by the RHWPG with cooperation from the TWDB for use in preparing the 2011 RWP.

In March and April of 2010, the RHWPG conducted public hearings in Houston, Madisonville, and Conroe to receive public comment on the Initially Prepared Plan. Meetings in Madisonville and Conroe were well attended by the public, particularly with comments regarding the proposed Millican Reservoir project as a water management strategy.

10.1.3 Targeted Meetings during Plan Development

Interaction with and updates to the 40-member Galveston Bay Freshwater Inflow Group (GBFIG) provided a forum for communication with environmental and conservation organizations and commercial and recreational fisher groups, as well as the GBFIG members from business and state and local agencies. GBFIG continues to work on developing management strategies for meeting the freshwater inflow targets that are endorsed in the 2001 and 2006 RWPs.

10.1.4 Public Notices and Press Releases

Media coverage was sought in conjunction with each series of public meetings or hearings. For each series, paid meeting notices were placed in fourteen newspapers providing service to all fifteen of the counties in Region H. Direct first-class mailings to county judges and mayors accompanied the issuance of public notices.

10.1.5 Region H Water Website

A website was developed at the onset of the first biennium of the 2011 RWP in order to maintain a constant level of contact with the public and to provide members of the RHWPG with resources for plan development. The new site, Region H Water (<http://regionhwater.org>), provides visitors with background on the importance of water and conservation efforts as an overview of the regional planning process in Texas. The site also provides information and announcements for meetings of the RHWPG and downloads of past and in-progress RWPs.

10.1.6 Texas Water Development Board Website

The Region H Water Planning Group has taken advantage of the Internet site provided by TWDB on its home page (www.twdb.state.tx.us). Upcoming meetings, minutes of previous meetings, and contact information are posted. TWDB has posted a copy of the 2001 and 2006 RWPs on its site as well.

10.2 Summary of Public Hearing, August 2, 2006

A public hearing to receive comments on the proposed scope of work for the grant application to update the Region H Water Plan was held on August 2, 2006 at 10 a.m. as part of the regular meeting of the Region H Water Planning Group. The meeting was held at the San Jacinto River Authority offices in Conroe. Three individuals provided comments.

Mr. Brandt Mannchen of the Houston Sierra Club expressed that the Sierra Club has sixteen potential issues for the next round of planning. The top two consisted of the environmental flow needs and drought management strategies. Mr. Mannchen stated he would like to see a target for industrial water conservation, which is not currently part of the plan. He questioned if the agricultural water conservation goals could be attained, and he said he would like to see stronger municipal conservation plans.

Mr. Ken Kramer of the Lone Star Sierra Club echoed the comments of Mr. Mannchen on the issues on environmental flow needs and drought management strategies. As for the other two issues, he stated he had no objections to them. The municipal conservation plan was updated last year, and he would like to see a survey regarding municipal conservation.

Mr. Jerry Lovelady of the Porter Special Utility District commented on water conservation and stated that there are more opportunities available for more aggressive measures.

Table 10-1: Attendance at Public Hearing, August 2, 2006

2 August, 10:00 a.m., SJRA Offices, Conroe

Interested Public Speaking

Ken Kramer, Sierra Club, Lone Star Chapter

Jerry Lovelady, Porter SUD

Brandt Mannchen, Houston Sierra Club

Consulting Team

Jason Afinowicz, TCB

Glenda Callaway, Ekistics

Lucia Lee, KBR

David Parkhill, TCB

Region H Water Planning Group Members

Reed Eichelberger for James Adams, SJRA

Roosevelt Alexander, Waller County

John Baker, BRA

John Bartos, Galveston Bay Fdn.

John Blount, Harris County

Robert Bruner, Walker County

Mark Evans, Trinity County

Jason Fluharty, Texas Genco

Tom Michel for Mary Alice Gonzalez, Fort Bend County

Jack Harris, Brazoria County

Robert Istre, GCWA

Jace Houston for Marvin Marcell, FBSD

James Morrison, Walker County Rural Water Supply Corp.

James Murray, ExxonMobil, Houston

Ron Neighbors, HGSD, Friendswood

Jimmie Schindewolf, NHCRWA

Jeff Taylor, City of Houston

William Teer, Leon County

Steve Tyler, Trinity County

Danny Vance, TRA

Harold Wallace, West Harris County WSC

10.3 Summary of Public Hearing, May 28, 2008

A public hearing to receive comments on the proposed scope of work for the grant application to update the Region H Water Plan was held on May 28, 2008 at 10 a.m. as part of the regular meeting of the Region H Water Planning Group. The meeting was held at the San Jacinto River Authority offices in Conroe. Six individuals provided comments.

Ken Kramer with the Lone Star Chapter of the Sierra Club commented on the scope of work and complimented the Region H website. He voiced support for the supplemental funding request related to water conservation and encouraged the use of demand management to meet monthly or daily shortages. He also encouraged evaluation of successful water conservation plans in other regions to see how they compare with plans in Region H. He stated that the Sierra Club opposes Bédias Reservoir and that other strategies would be better.

Dan Davis expressed his appreciation for Region H's work. He expressed support for Bédias Reservoir and explained that it would mitigate issues related to the use of Lake Conroe surface water. He discussed the role of water conservation in future planning. He encouraged the legislature to fund research with the objective of determining an acceptable method of using treated effluent for direct injection into potable water treatment plants. Mr. Davis explained that he was a member of the Lake Conroe Communities Network and the Walden Community Improvement Association, and that he was a director on Montgomery County MUD 8, but that he was testifying in his individual capacity.

Jackie Chance commented on the environmental flows into Galveston Bay and the reduction of same when the groundwater conversion takes place and emphasized the need to study potential impacts. He encouraged the construction of more reservoirs and requested that TCEQ request drought contingency plans and water conservation plans from smaller systems also.

Jerry Fannin requested that Madison County have a representative on Region H. He expressed his concern regarding consideration of Bédias Reservoir as a potential management strategy.

Gerald Jozwiak, a Madison County resident, stated that he opposed the construction of Bédias Reservoir and wants it removed from Region H Plan completely. He commented on the wetlands, hardwood forests, wildlife, and the negative economic impacts on agriculture that this reservoir would have on their community. He echoed previous comments on the need to reduce the demand for water through conservation. He stated that additional reservoirs would not be needed if Montgomery County residents reduced their demand through conservation.

Art Henson, County Judge for Madison County, expressed opposition to Bédias Reservoir and requested that the impacts on agriculture and the local tax base be considered in planning for surface water. He requested a seat on the Region H Planning Group and stated that a formal request would be forthcoming.

Mike Reedy summarized written comments received from Ronald Rushing, Senator Robert Nichols, Representative Brandon Creighton, Angela Fannin, and Dan Davis.

Table 10-2: Attendance at Public Hearing, May 28, 2008**28 May, 10:00 a.m., SJRA Offices, Conroe****Interested Public**

Jackie Chance, So. Montgomery County Area

Jerry Fannin, Madison County

Dan Davis, Lake Conroe Area

Art Henson, Madison County

Gerald Jozwiak, Madison County

Ken Kramer, Sierra Club, Lone Star Chapter

Consulting Team

Jason Afinowicz, TCB

Glenda Callaway, Ekistics

Chris Krueger, KBR

Mike Reedy, TCB

Region H Water Planning Group Members

Roosevelt Alexander, Waller County

John Baker, BRA

John Bartos, Galveston Bay Fdn.

John Blount, Harris County

Robert Bruner, Walker County

Reed Eichelberger, SJRA

Mark Evans, Trinity County

Jason Fluharty, Texas Genco

Jack Harris, Brazoria County

Bob Hebert, Fort Bend County

Robert Istre, GCWA

Ron Neighbors, HGSD

Jimmie Schindewolf, NHCRWA

Jeff Taylor, City of Houston

William Teer, Leon County

Steve Tyler, Trinity County

Mike Uhl, DOW

Danny Vance, TRA

Harold Wallace, West Harris County WSC

Pudge Wilcox, CLCND

10.4 Summary of Public Meeting, May 6, 2009

A public meeting to approve population and water demand projections was held on May 6, 2009 at 10 a.m. as part of the regular meeting of the Region H Water Planning Group. The meeting was held at

the San Jacinto River Authority offices in Conroe. One member of the public provided comment on the proposed projections.

Mike Reedy with AECOM reviewed the current schedule for preparing the 2011 Regional Water Plan. He then turned the presentation over to Jason Afinowicz with AECOM to present the results of the population and water demand projection analysis (Task 2), including the steam-electric demands, population projections, and municipal water demands.

Brandt Mannchen commented on the proposed population and water demand projections that will be used in preparing the revised Region H Water Plan. He distributed a written summary of his comments and then briefly summarized his thoughts on the availability and clarity of the information, the public comment period, and the process in general. Mr. Mannchen encouraged the group to withdraw the submittal of revised population and water demand projections until the public policy issues of population growth and economic growth can be debated. Harold Wallace inquired as to what evidence was available to reflect that the information that the consultant provided was inaccurate, and Mr. Mannchen responded that more time was needed to evaluate the available information.

Discussion ensued regarding questions and concerns related to the population projections for the City of Richmond, the City of Huntsville, and the information related to the demand projections for steam electric power. Ron Neighbors asked about the process for partially approving the population and water demand projections and approving the modifications in the future. Temple McKinnon stated that modifications would require the same process for approval if excluded. Ted Long commented on the steam electric power numbers for Fort Bend County and Galveston County; he will review historical records and get back with Mike Reedy with his findings.

Robert Istre inquired as to the source of the information presented, and Temple McKinnon responded that the regional and county totals are based on the State Data Center's information. John Bartos encouraged the consultants to comment on Mr. Mannchen's questions and concerns, and Mike Reedy confirmed that this would be done. Steve Tyler inquired as to how the projected population and demand numbers compared to the availability of water. Carol Reed with the City of Huntsville briefly discussed the potential growth of the Huntsville area. She stated that Huntsville has already exceeded the 2010 projected water demand numbers and the per capita use is increasing.

Mike Reedy made the recommendation that approval be given for the submittal of revised population and water demand projections to the TWDB as presented, excluding those for the City of Huntsville, City of Richmond, and the steam electric demands. Motion was made by Roosevelt Alexander to approve the population and water demand projections as presented, excluding those for the City of Huntsville, City of Richmond, and steam electric demands for Fort Bend and Galveston counties; seconded by Robert Bruner. The motion was approved with one nay vote. Steve Tyler voted nay.

Table 10-3: Attendance at Public Hearing, May 6, 2009

6 May, 10:00 a.m., SJRA Offices, Conroe

Interested Public Speaking

Brandt Mannchen, Houston Sierra Club

Carol Reed, City of Huntsville

Region H Water Planning Group Members

Roosevelt Alexander, Waller County

John Bartos, Galveston Bay Fdn.

John Blount, Harris County

Robert Bruner, Walker County

Consulting Team

Jason Afinowicz, AECOM

Glenda Callaway, Ekistics

Karim El Kheiashy, KBR

Chris Krueger, KBR

Mike Reedy, AECOM

Jun Chang, City of Houston

Reed Eichelberger, SJRA

John Hofmann, BRA

John Howard, Austin County

Mike O' Connell for Bob Hebert, Fort Bend
County

Robert Istre, GCWA

Ted Long, NRG

Tom Michel for Marvin Marcel, FBSD

James Morrison, Walker County Rural Water
Supply Corp.

Ron Neighbors, HGSD

Paul Nelson for Jimmie Schindewolf, NHCRWA

William Teer, Leon County

Steve Tyler, Trinity County

Danny Vance, TRA

Harold Wallace, West Harris County WSC

Pudge Wilcox, CLCND

10.5 Summary of Public Meeting, July 1, 2009

A public meeting to approve population and water demand projections was held on July 1, 2009 at 10 a.m. as part of the regular meeting of the Region H Water Planning Group. The meeting was held at the San Jacinto River Authority offices in Conroe. One member of the public provided comment on the proposed projections.

Brandt Mannchen commented on the population and water demand projections. Mr. Mannchen distributed a summary of his personal comments related to water planning and management. He urged Region H to reduce water demand through conservation, and he emphasized the need to determine the sustainable population in each watershed and to provide water for that population.

A presentation by Jason Afinowicz covered the revised population and demand projections for the City of Huntsville, the City of Richmond, North Fort Bend Water Authority, and steam-electric demands for Fort Bend County. Mr. Afinowicz discussed the outstanding issues with each and efforts made to address each of them. Discussion ensued regarding the Texas Water Development Board's consistent under-projection of population in Fort Bend County. Discussion was led by Ron

Neighbors, Marvin Marcell, John Hofmann, and David Parkhill on the planning process and the need to be able to address concerns as part of the planning process. A suggestion was made by the group and confirmed by Mark Evans that language needed to be included in the Chapter 2 narrative to clearly state the group's reasons for preferring a higher number for Fort Bend's population and also to state the group's disagreement with the TWDB's required population number. An additional suggestion was made to include alternative management strategies to address the under-projections. Temple McKinnon commented that TWDB is bound to statewide numbers provided by the State Data Center, which does not allow for county increases. She explained TWDB's approach and said that the 2010 Census will provide the next opportunity for significant changes to be made. Mr. Afinowicz continued with his presentation by responding to Brandt Mannchen's previous request for more information related to population and water demand projections.

Brandt Mannchen stated that he was in agreement with Marvin Marcell's comments during the discussion related to population projections. He commented on the need to look back at previous projections and ways to improve in the future.

Motion was made by Ron Neighbors to approve the recommended population and water demand projections with direction to the consultant team to include the language stated as a caveat on the Fort Bend numbers; seconded by Harold Wallace. The motion was approved with two nay votes. Marvin Marcell and Bob Hebert voted nay.

Table 10-4: Attendance at Public Hearing, July 1, 2009

1 July, 10:00 a.m., SJRA Offices, Conroe

Interested Public Speaking

Brandt Mannchen, Houston Sierra Club

Consulting Team

Jason Afinowicz, AECOM

Glenda Callaway, Ekistics

Karim El Kheishy, KBR

Chris Krueger, KBR

David Parkhill, AECOM

Region H Water Planning Group Members

John Bartos, Galveston Bay Fdn.

John Blount, Harris County

Robert Bruner, Walker County

Lisa Lattu for Jun Chang, City of Houston

Reed Eichelberger, SJRA

John Hofmann, BRA

Lloyd Behm for John Howard, Austin County

Bob Hebert, Fort Bend County

Robert Istre, GCWA

Glynn Leiper, Exxon-Mobil

Ted Long, NRG

Marvin Marcel, FBSD

James Morrison, Walker County Rural Water Supply Corp.

Ron Neighbors, HGSD

Jimmie Schindewolf, NHCRWA

William Teer, Leon County

Steve Tyler, Trinity County

Gena Leathers for Mike Uhl, DOW

Danny Vance, TRA

Harold Wallace, West Harris County WSC

Pudge Wilcox, CLCND

10.6 Public Review and Comment on Initially Prepared Plan

10.6.1 Identification of Libraries

During the first phase of planning the RHWPG contacted each of the County Judges in the region and requested their assistance in identifying the public library in each county that would be most appropriate for placing a copy of the initially prepared Draft Regional Water Plan for public review. The libraries selected, together with the County Clerk's office in each county, are listed in *Table 10-5*.

10.6.2 Public Notice and Press Releases

As required by Section 357.12 of the Texas Administrative Code, notice of the upcoming public hearings on the initially prepared Draft Regional Water Plan was provided by several means.

- Notice of the public hearings, written comment period, and location of copies of the Draft Plan for public review were posted in each county in the region.
- Paid ads providing notice of the public hearings, written comment period, and location of copies of the Draft Plan for public review were placed in 16 newspapers serving the region. One of the newspapers, the Bryan-College Station Eagle, is located outside of the Region but is the main newspaper serving the northern portion of Region H. It also serves the area that includes two potential reservoirs as management strategies in the IPP.
- In accordance with 31 TAC section 357.12(5)(A-E), direct notice by first-class mail was made to the following:
 - (a) 140 Mayors
 - (b) 15 County Judges
 - (c) 5 Special districts and river authorities in the region as identified by the Texas Commission on Environmental Quality (TCEQ)
 - (d) 1,347 Community water systems as identified by TCEQ
 - (e) 353 Water rights holders as identified by TCEQ

Notice of the hearings also was posted on the Regional Planning section of the TWDB website and the Region H Water website.

10.6.3 Distribution of Documents for Review and Comment

A public library and the County Clerk's office in each county in Region H were identified to receive review copies of the draft Plan. The Initially Prepared 2011 Region H Water Plan was placed in the designated public repositories, listed in *Table 10-5*, on February 26, 2010. The document was also made available on the Region H Water and TWDB websites.

Table 10-5: Public Repositories of the Region H Regional Water Plan**AUSTIN COUNTY**

County Clerk
County Courthouse
1 East Main
Bellville, TX 77418

BRAZORIA COUNTY

County Clerk
County Courthouse
111 East Locust
Angleton, TX 77515

CHAMBERS COUNTY

County Clerk
County Courthouse
Anahuac, TX 77514

FORT BEND COUNTY

County Clerk
301 Jackson
Richmond, TX 77469

GALVESTON COUNTY

County Clerk
County Courthouse
722 Moody
Galveston, TX 77550

HARRIS COUNTY

County Clerk
Harris County Administration Building
1001 Preston Avenue
Houston, TX 77002

LEON COUNTY

County Clerk
Leon County Courthouse
Centerville, TX 75833

LIBERTY COUNTY

County Clerk
County Courthouse
1923 Sam Houston
Liberty, TX 77575

AUSTIN COUNTY

Gordon Library
917 Circle Drive
Sealy, TX 77474

BRAZORIA COUNTY

Angleton Public Library
401 East Cedar
Angleton, TX 77515

CHAMBERS COUNTY

Chambers County Library
– Main Branch
202 Cummings
Anahuac, TX 77514

FORT BEND COUNTY

George Memorial Library
1001 Golfview
Richmond, TX 77469

GALVESTON COUNTY

Rosenberg Library
2310 Sealy
Galveston, TX 77550

HARRIS COUNTY

Houston Public Library
1st Floor, Bibliographic Information
Center
500 McKinney
Houston, TX 77002

LEON COUNTY

Leon County Library
129 East Main
Centerville, TX 75833

LIBERTY COUNTY

Sam Houston Regional Library
And Research Center
FM1011
Liberty, TX 77575

MADISON COUNTY

County Clerk
101 West Main, Room 102
Madisonville, TX 77864

MADISON COUNTY

Madison County Library
605 South May
Madisonville, TX 77864

MONTGOMERY COUNTY

County Clerk
County Courthouse
301 N. Thompson
Conroe, TX 77301

MONTGOMERY COUNTY

Montgomery County Central Library
104 Interstate 45 North
Conroe, TX 77301

POLK COUNTY

County Clerk
County Courthouse, 1st Floor
101 West Church
Livingston, TX 77351

POLK COUNTY

Murphy Memorial Library
601 West Church
Livingston, TX 77351

SAN JACINTO COUNTY

County Clerk
County Courthouse
#1 Highway 150
Coldspring, TX 77331

SAN JACINTO COUNTY

Coldspring Library
220 South Bonham
Coldspring, TX 77331

TRINITY COUNTY

County Clerk
County Courthouse
1st and Main
Groveton, TX 75845

TRINITY COUNTY

Blanche K. Werner Library
Highway 19
Trinity, TX 75862

WALKER COUNTY

County Clerk
County Courthouse
1100 University Avenue
Huntsville, TX 77340

WALKER COUNTY

Huntsville Public Library
1216 – 14th Street
Huntsville, TX 77340

WALLER COUNTY

County Clerk
County Courthouse
836 Austin Street
Hempstead, TX 77445

WALLER COUNTY

Waller County Library -
Brookshire/Pattison
3815 Sixth Street
Brookshire, TX 77423

10.7 Summary of Public Hearings and Written Comments on the Initially Prepared Plan

The Region H WPG chose to hold public hearings on its Initially Prepared Region H Water Plan at three locations in the region. The first was held at 6:30 p.m. at the Houston- Galveston Area Council (H-GAC) which is centrally located in the region and accessible to the largest part of the region's population. The second was at 6:30 p.m. in Madisonville in the northern portion of the region. Finally, the third hearing was held at 10 a.m. in conjunction with a scheduled RHWPG meeting in Conroe.

Proceedings at each of the public hearings followed a similar format.

- Welcome and Introductions: John Bartos, RHWPG Member, welcomed attendees and made introductions at the March 30 hearing; Mark Evans, RHWPG Chair, welcomed attendees and made introductions at the April 1 and 7 hearings..
- A brief presentation of the draft Plan was made by the consulting team. (Copies of presentation slides are included as Appendix C.)
- Formal comments or questions were given by attendees who registered to speak.
- Information on the written comment period and process for adopting the Plan was provided.
- Informal dialogue, including discussion of responses that were known at the time, followed.

Handouts for each meeting consisted of a copy of the Executive Summary to the Initially Prepared Region H Water Plan, and a copy of the presentation slides.

A certified court reporter prepared a formal record of proceedings at each hearing site. Summaries of formal comments are based on these proceedings. Attendance at the Public Hearings is shown in Table 10-5.

It was announced in the public notice and at each public hearing site that written comments on the initially prepared Draft Regional Water Plan would be accepted through June 8, 2010 for inclusion in the published plan.

Written comments and responses to them are included in *Appendix H*.

10.7.1 Summary of Public Hearing, March 30, 2010

The March 30 public hearing was held at H-GAC and received a small attendance. A presentation on the IPP, similar to the other public hearings on the plan, was given to the audience. Public comments were received from Brandt Mannchen of the Houston Sierra Club, followed by unofficial comments and questions.

Table 10-6: Attendance at Public Hearing, March 30, 2010

30 March, 6:30 p.m., H-GAC Offices, Houston

Interested Public Speaking

Brandt Mannchen, Houston Sierra Club

Consulting Team

Jason Afinowicz, AECOM

Glenda Callaway, Ekistics

Karim El Kheiasy, KBR

Chris Krueger, KBR

John Seifert, LBG-Guyton

Cory Stull, AECOM

Philip Taucer, AECOM

Region H Water Planning Group Members

John Bartos, Galveston Bay Fdn

Mark Evans, Trinity County

Lisa Lattu for Jun Chang, City of Houston

Gena Leathers, DOW

Paul Nelson for Jimmie Schindewolf, NHCRWA

Pudge Wilcox, CLCND

10.7.2 Summary of Public Hearing, April 1, 2010

The April 1 public hearing was held at the Truman Kimbro Convention Center in Madisonville and was heavily attended attendance. A presentation on the IPP, similar to the other public hearings on the plan, was given to the audience. Public comments were received from numerous members of the public, followed by unofficial comments and questions.

Table 10-7: Attendance at Public Hearing, April 1, 2010**1 April, 6:30 p.m., Truman Kimbro Convention Center, Madisonville**

Interested Public Speaking	Region H Water Planning Group Members
Robert Averyt	Mark Evans, Trinity County
Daiquin Beebe	Art Henson, Madison County
Brenda Bender	William Teer, Leon County
Cathy Cox	Steve Tyler, Trinity County
Leonard Cox	
Fred Davis	Consulting Team
Mark Dudley	Jason Afinowicz, AECOM
Gerald Jozwiak	Glenda Callaway, Ekistics
Bill Knotts	Karim El Kheiashy, KBR
John Knotts	Eric Hall, KBR
John Melvin	Chris Krueger, KBR
	John Seifert, LBG-Guyton
	Nichola Smiles, KBR
	Cory Stull, AECOM
	Philip Taucer, AECOM

10.7.3 Summary of Public Hearing, April 7, 2010

The April 7 public hearing was held at the Lone Star Convention and Expo Center in Conroe and received a fairly large crowd. A presentation on the IPP, similar to the other public hearings on the plan, was given to the audience. Public comments were received from numerous members of the public, followed by unofficial comments and questions.

Table 10-8: Attendance at Public Hearing, April 7, 2010

7 April, 6:30 p.m., Lone Star Convention and Expo Center, Conroe

Interested Public Speaking

Robert Averyt

Brad Ayers

Paul Bannon

Mike Brinkmann

Sammy Catalena

Kathy Cox

Leonard Cox

Mark Dudley

Luke Grahm

Tom Ivy

Gerald Jozwiak

Laura Klemm

Bill Knotts

John Knotts

Ken Kramer

T. Barrett Lyne

Richard Tauber

Jerry Wall

Jim Wall

Kay Wilson

Region H Water Planning Group Members

John Bartos, Galveston Bay Fdn

Jun Chang, City of Houston

Mark Evans, Trinity County

Art Henson, Madison County

Gena Leathers, DOW

Ted Long, NRG

Danny Vance, TRA

Pudge Wilcox, CLCND

Consulting Team

Jason Afinowicz, AECOM

Glenda Callaway, Ekistics

Karim El Kheiashy, KBR

Chris Krueger, KBR

David Parkhill, AECOM

Cory Stull, AECOM

Philip Taucer, AECOM

Appendix 10A

Public Hearing Materials
August 2, 2006

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Contents – August 2, 2006 Public Hearing

1. Meeting Minutes

**MINUTES
REGION H WATER PLANNING GROUP MEETING
10:00 A.M.
AUGUST 2, 2006
SAN JACINTO RIVER AUTHORITY OFFICE
LAKE CONROE DAM
1577 DAM SITE ROAD
CONROE, TEXAS**

MEMBERS PRESENT: Roosevelt Alexander, John Baker, John R. Bartos, John Blount, Robert Bruner, Mark Evans, Jason Fluharty, Jack Harris, Robert Istre, James Morrison, James Murray, Ron Neighbors, Jimmie Schindewolf, Jeff Taylor, William Teer, Steve Tyler, Danny Vance, and C. Harold Wallace .

DESIGNATED ALTERNATES: Reed Eichelberger alternate for James Adams, Jace Houston alternate for Marvin Marcell, and Tom Michel alternate for Mary Alice Gonzalez.

MEMBERS ABSENT: James Adams, Mary Alice Gonzalez, David Jenkins, and Marvin Marcell.

NON-VOTING MEMBERS PRESENT: Wayne Ahrens, Bill Roberts, and Woody Woodrow

PRESIDING: Mark Evans, Vice Chairman

INTRODUCTIONS

Mr. Evans stated that Reed Eichelberger is the alternate for James Adams, Jace Houston is the alternate for Marvin Marcell, and Tom Michel is the alternate for Mary Alice Gonzalez.

COMMENTS ON JIM ADAMS PASSING

A number of comments and recognitions were made concerning the passing of Jim Adams, and a moment of silence was observed.

MINUTES OF MAY 3, 2006 MEETING

A motion was made by Mr. Vance to approve the minutes of the May 3, 2006, meeting as presented; second by Mr. Blount. The motion carried unanimously.

PUBLIC COMMENTS ON AGENDA ITEMS 4 - 9

None.

ELECTION OF MIKE UHL TO REPLACE CAROLYN JOHNSON ON REGION H

A motion was made by Mr. Harris to select Mr. Mike Uhl as a voting member of the Region H RWPG representing industries; second by Mr. Blount. Motion carried unanimously.

DISCUSS STATUS OF OPEN CHAIRMANSHIP OF THE REGION H RWPG

Mr. Evans reported that the Executive Committee had a conference call to discuss how to move forward in the wake of Mr. Adams death. A letter was sent to the SJRA concerning the continued use of their meeting facilities and their willingness to continue acting as the contracting administrative agency on behalf of Region H at least through the transition period. The committee discussed possible replacements for Mr. Adams as chairman of the Region H RWPG. A discussion ensued.

ELECTION OF CHAIRMAN OF THE REGION H RWPG

A motion was made by Mr. Neighbors nominating Jeff Taylor to serve as chairman of the Region H RWPG; second by Mr. Alexander. Motion carried unanimously.

NOW PRESIDING: Jeff Taylor, Chairman.

DISCUSS AND TAKE ACTION ON APPROVING TCB/KBR TEAM FOR NEXT ROUND OF PLANNING

Mr. Taylor discussed the need to select a consultant team for the next round of regional planning. A motion was made by Mr. Neighbors to approve the TCB/KBR team to serve as the consultants for the next round of planning; seconded by Mr. Blount. Motion carried unanimously.

UPDATE ON TWDB GRANT PROCESS AND SCHEDULE

David Parkhill presented information concerning the process and schedule for grants from the TWDB for the next round of planning. The deadline for submitting grant applications is September 14, 2006.

Eligible activities for the TWDB planning grants include:

- Evaluation of new water management strategies in response to changed conditions.
- Studies that will further implementation of recommend water management strategies.
- Refinement of water supply information or water management strategies.
- Activities that will help overcome problems from the last round of planning.
- Further evaluation of water management strategies, especially regional solutions, to meet needs in small and rural areas.
- Reevaluation of population and demand projections only under the presence of changed conditions.
- Interregional coordination.
- Administrative and public participation activities.

UPDATE ON SCOPING COMMITTEE ACTIVITIES AND RECOMMENDED SCOPE OF WORK FOR THE NEXT ROUND OF PLANNING

Mr. Parkhill stated that a Scoping Committee had been established to review the TWDB's request for proposals and prepare a draft response. A meeting was held on July 11th, and a subsequent meeting on July 24th. The committee established a preliminary list of scope items and recommended them in the following priority order:

- **Environmental Flows**
 - Further evaluate environmental flow requirements in Region H.
 - Develop improved planning tools to assess impact of water management strategies on environmental flows.
 - Support and participate in state initiatives related to environmental flows policies.
- **Drought Management**
 - Evaluate existing drought management plans currently on file in Region H.
 - Assess the potential impacts to water demands as a result of drought management.
 - Evaluate drought management measures used in other areas and assess the feasibility and applicability of these measures for Region H.
 - Estimate the relative costs resulting from initiating drought management plans in the region.
 - Evaluate the impacts of drought management on the size and timing of water management strategies in Region H.
- **Brazos Saltwater Barrier**
 - Evaluate environmental impacts on the Brazos River estuary.
 - Evaluate mitigation of localized flood impacts from the barrier.
 - Perform additional bathymetric surveys to determine optimal location.
 - Develop conceptual design.
 - Identify project funding and sponsorship opportunities with area project beneficiaries.
- **Interruptible Water Supplies**
 - Establish the magnitude and use of interruptible supplies in the region.
 - Assess the regulatory and institutional issues and constraints associated with this strategy.
 - Establish the magnitude of firm yield supply made available for municipal and industrial purposes as a result of this strategy.
 - Evaluate and quantify the economic impacts of this strategy.

PUBLIC HEARING ON PROPOSED SCOPE FOR NEXT ROUND OF PLANNING

Mr. Taylor called to order the public hearing to receive comments on the proposed of scope of work and planning grant application for the next planning cycle.

Brandt Mannchen of the Houston Sierra Club expressed that the Sierra Club has sixteen potential issues for the next round of planning. The top two consisted of the environmental flow needs and drought management strategies. Mr. Mannchen stated he would like to see a target for industrial water conservation, which is not currently part of the plan. He questioned if the

agricultural water conservation goals could be attained, and he said he would like to see stronger municipal conservation plans.

Ken Kramer of the Lone Star Sierra Club echoed the comments of Mr. Mannchen on the issues on environmental flow needs and drought management strategies. As for the other two issues, he stated he had no objections to them. The municipal conservation plan was updated last year, and he would like to see a survey regarding municipal conservation.

Jerry Lovelady of the Porter Special Utility District commented on water conservation and stated that there are more opportunities available for more aggressive measures.

There being no further comments, Mr. Taylor closed the public hearing at 11:29 AM.

DISCUSS AND TAKE ACTION ON RECOMMENDED SCOPE OF WORK

A discussion ensued regarding the proposed scope of work and planning grant application.

A motion was made by Mr. Vance to approve the recommended scope of work for the next round of planning; second by Mr. Bartos. Motion carried unanimously.

GRANT APPLICATION SUBMISSION

A motion was made by Mr. Wallace to allow the Scoping Committee to review and approve the final draft of the grant application for submission by September 14th; second by Mr. Vance. Motion carried unanimously.

PUBLIC COMMENTS

None.

AGENCY COMMUNICATIONS

Bill Roberts reported that he will continue to work with Region H until a replacement has been hired due to his change of duties at the TWDB.

Woody Woodrow of the Texas Parks & Wildlife Department expressed that he supports the recommendations of the Scoping Committee and that the TPWD will assist in the application as needed.

NEXT MEETING

November 1, 2006
San Jacinto River Authority
Lake Conroe Dam
1577 Dam Site Road

Conroe, Texas

ADJOURNED

Appendix 10B

Public Hearing Materials
May 28, 2008

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Contents – May 28, 2008 Public Hearing

1. **Public Notice**
2. **Presentation**



REGION H WATER PLANNING GROUP

Senate Bill 1 - Texas Water Development Board

c/o San Jacinto River Authority

P. O. Box 329, Conroe, Texas 77305

Telephone 936-588-1111 Facsimile 936-588-3043

Notice of Public Hearing on Proposed Scope of Work and Notice of Application to the Texas Water Development Board for Financial Assistance to Update the Region H Regional Water Plan April 1, 2008

The 15-county Region H Water Planning Group (RHWPG) is preparing an updated Regional Water Plan which will be submitted to the Texas Water Development Board (TWDB) in 2011. The TWDB will consolidate the reports from the 16 Regional Water Planning Areas and report to the Texas Legislature not later than January 2012.

To meet currently changed conditions, the RHWPG is preparing a Scope of Work to address items to include in the updated Regional Water Plan. The RHWPG is soliciting input from the public about the topics that should be addressed in the work.

A meeting to receive comments from the public on items that may be included in the proposed Scope of Work will be held at 10:00 a.m., May 7, 2004, preceding the regular RHWPG meeting at the SJRA offices, 105 Damsite Road, Conroe, Texas. Action on the Scope of Work may be taken at that meeting. Comments may also be submitted by mail to the SJRA at the address below, or by fax to 936-588-3043 within 30 days of the date of this notice.

Notice is also being given that the RHWPG is submitting an application for a grant from the Texas Water Development Board (TWDB) for planning activities to address these changed conditions. The TWDB will consider the proposed grant application at an upcoming meeting. Region H has designated the San Jacinto River Authority (SJRA) to submit the application to the TWDB. Copies of the application may be requested from SJRA at the address below. **Any comments on the application must be filed with the Executive Administrator of the TWDB (see the address below) and the SJRA within 30 days of this notice.**


Notice of Hearing and Application, Page 2

The current Region H Water Plan is available for review on the TWDB website at www.twdb.state.tx.us. A draft of known proposed items for the Scope of Work will be available on the RHWPG website at www.regionhwater.org about a week before the public meeting.

When completed, copies of the proposed Scope of Work and the Grant Application will be available for review at the offices of SJRA during regular business hours.

Reed Eichelberger, PE
General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

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




Region H
Water Planning Group

2011 Planning Round Second Biennium Scope of Work

Region H Water Plan

May 28, 2008




Region H
Water Planning Group

Introduction

- Base Funding - \$565,270
 - Determined by TWDB
- Supplemental Funding - \$665,530
 - Proposed by Planning Group
- Total Budget - \$1,230,800

2




Region H
Water Planning Group

Base Funding

Base Funding Specified by Task

Task	TWDB Budget
1 Planning Area Description	\$10,000
2 Population and Water Demands	
3 Water Supply Analysis	
4 Identification, evaluation and selection of water management strategies based on needs	\$197,470
5 Impacts of selected water management strategies on key parameters of water quality and impacts of moving water from rural and agricultural areas	
6 Water conservation and drought management recommendations	\$10,000
7 Description of how the regional water plan is consistent with long-term protection of the state's water resources and natural resources	\$10,000
8 Unique stream segments/reservoir sites/legislative recommendations	\$15,000
9 Report to Legislature on Water Infrastructure Funding Recommendations	\$58,000
10 Adoption of plan	\$264,800
TOTAL	\$565,270

3




Region H
Water Planning Group

Supplemental Funding Critical Issues

Major Issues Addressed with Supplemental Funds

- Mid-census population projections
- Alternative yield of surface water supplies
- Updates to existing water management strategies and alternative water management strategies
- Expanded information to incorporate details of new raw and treated water facilities

4



Region H
Water Planning Group


Supplemental Funding Critical Issues

Mid-Census Population Projections

Region H

Fort Bend County

5




Region H
Water Planning Group

Supplemental Funding Critical Issues

Alternative Supply Analysis for Surface Water Supplies

- Surface water supplies in the plan are determined based on annual firm yield or firm diversions
- Certain major water rights in Region H are significantly less reliable when examined on a monthly basis
- Decreases ability to utilize a water supply for its intended purpose as specified in the 2006 RWP
- Some surface water supplies will need to be evaluated based on a monthly time step to assess alternative supply estimates

6




**Supplemental Funding
Critical Issues**

Updates to Existing WMS and Alternatives WMS

- Many of the current WMS presented in the 2006 RWP have on-going permitting, environmental, and stakeholder issues
- Issues could either jeopardize the implementation of the strategy and/or reduce the amount of water developed
- Lots of moving parts in Region H (Montgomery County and Fort Bend County groundwater conversion, etc.)
- Alternative strategies are recommended as a mechanism to provide a back-up to this uncertainty
- Many existing WMA also are/will be undergoing changes that will need to be reflected in the plan

7




**Supplemental Funding
Critical Issues**

Expanded Information for New Raw and Treated Water Facilities

- Region H is often asked to provide opinion and information related to potential infrastructure projects
- Better facilitate the ability to obtain funding from TWDB for major facilities expected to be implemented in next 10 years
- Incorporate additional detail in the plan for major transmission and treatment facilities for:
 - NHCRA
 - WHCRA
 - CHCRA
 - NFBWA
 - City of Houston
 - GCWA

8




**Supplemental Funding
Important Issues**

Other Important Issues Addressed with Supplemental Funding

- Detailed environmental flow analysis
 - Current Environmental Flows Study only assesses 2060 conditions and does not evaluate the changes and impacts over time
 - Build upon the environmental flows work conducted during first phase of planning
 - Examine each planning decade to investigate Galveston Bay inflows at all stages of planning
- Advanced water conservation analysis
 - Water conservation legislation has been passed since development of the 2006 RWP
 - Incorporate observed conservation data
 - Detailed investigation of conservation impacts

9




**Task 0
Base Funding**

Task 0 – Scope of Work Development

- Coordination and planning meetings with Region H Scoping Committee
- Develop draft scope of work and cost estimate for second phase of planning
- Coordinate with TWDB on scope items and allowable tasks
- Base Funding = \$10,000 (allocated from Task 10)

10




**Task 1
Base Funding**

Task 1 – Description of Region

- General information about the Region
- Descriptions of new WUG's
- List of threatened and endangered species
- Drought preparations
- Recommendations from 2006 RWP
- Base Funding = \$10,000

11




**Task 2
Base Funding**

Task 2 – Population Projections and Water Demands

- Correspondence to all WUGs regarding demand projections
- Addition of new WUGs
 - TWDB: 3 new cities and 37 new districts = 40 new WUGs
 - NFBWA
 - CHCRA
- Steam-electric power demands
- Base Funding = \$40,000

12




Task 2
Supplemental Funding

Task 2 – Population Projections and Water Demands

- Mid-Census Population Projections
 - Review 2007 city and county population estimates and compare to 2006 RWP
 - Develop projections for 2010
 - Extend projections out to 2060
 - Develop revised population for each WUG (currently over 400)
 - Use 2006 RWP per capita demand to estimate total demand for each WUG
- Supplemental Funding = \$98,200

13




Task 3
Base Funding

Task 3 – Water Supply Analysis

- Update groundwater availability
 - Revisions to Gulf Coast GAM
 - GMA 14 Desired Future Conditions
 - New requirements or new GCD's
- Water right/contract revisions
- Update firm yield surface water supply information
- Base Funding = \$52,000

14




Task 3
Supplemental Funding

Task 3 – Water Supply Analysis

- Alternative Supply Analysis
 - Evaluate water rights on monthly basis
 - Incorporate expected return flows for Trinity supplies
 - Consult with WWP's on results of study
 - Assign revised water supplies to WUGs and update shortages
- Supplemental Funding = \$140,600

15




Task 4
Base Funding

Task 4 – Water Management Strategies

- Update WMS Costs to 2nd Quarter 2007
- Select new strategies for identified shortages
- Incorporate results from Environmental Flows Study performed during first phase of planning
- Incorporate results from Interruptible Supply study performed during first phase of planning
- Base Funding = \$73,470

16




Task 4
Supplemental Funding

Task 4 – Water Management Strategies

- Changed Conditions for Strategies
- Environmental Flows Investigation
- Environmental Flows Coordination
- Alternative Strategy Formulation
- Total Task 4 Supplemental Funding = \$363,600

17




Task 4
Supplemental Funding

Task 4 – Water Management Strategies

- Changed Conditions for Strategies
 - Update BRA System Operation strategy and determine impacts to future water supplies in Region H
 - Update Montgomery County surface water conversion strategy and incorporate into Plan
 - Re-definition of Luce Bayou strategy based on revised needs and updated project details
 - Identify major transmission and treatment facilities to be included in order to facilitate TWDB funding
- Supplemental Funding = \$121,200

18




*Region H
Water Planning Group*

Task 4 Supplemental Funding

Task 4 – Water Management Strategies

- Environmental Flows Investigation
 - Create models for 2010, 2020, 2030, 2040, 2050, and 2060 conditions
 - Review RWP for Regions C and G to determine future conditions based on WMS implementation
 - Evaluate impacts to Galveston Bay estuary in each decade
 - Compile information on impacts associated with each Region H strategy
- Supplemental Funding = \$111,700

19




*Region H
Water Planning Group*

Task 4 Supplemental Funding

Task 4 – Water Management Strategies

- Environmental Flows Coordination
 - Galveston Bay Freshwater Inflow Group
 - Sponsor meetings
 - Present technical information from Region H study
 - Environmental Flows Allocation Process
 - Bay and Basin Stakeholder Groups
 - Present technical information from Region H study
 - Updates to Region H WPG on activities of environmental flow stakeholder groups
- Supplemental Funding = \$45,000

20




*Region H
Water Planning Group*

Task 4 Supplemental Funding

Task 4 – Water Management Strategies

- Alternative Strategy Formulation
 - Update strategies not selected in 2006 RWP
 - Potential new strategies
 - New storage to firm up run-of-river supplies
 - Aquifer Storage and Recovery (ASR)
 - Brackish water desalination
 - Develop costs and impact matrix in order to make recommendations for alternative strategy selection
- Supplemental Funding = \$75,700

21




*Region H
Water Planning Group*

Task 5 Base Funding

Task 5 – Water Management Strategy Impacts

- Update management strategy impacts with information gained since the 2006 RWP
 - Water quality impacts
 - Impacts of moving water from rural and agricultural areas
- Base Funding = \$32,000

22




*Region H
Water Planning Group*

Task 6 Base Funding

Task 6 – Water Conservation and Drought Management

- Survey each WUG regarding conservation strategies and available information on impacts of water conservation
- Compare results to proposed conservation in 2006 RWP
- Incorporate results of Drought Management Study performed during first phase of planning
- Base Funding = \$10,000

23




*Region H
Water Planning Group*

Task 6 Supplemental Funding

Task 6 – Water Conservation and Drought Management

- Water Conservation Evaluation
 - Review submitted water conservation plans submitted to TCEQ and TWDB
 - Review expected efficacy of submitted water conservation plans
 - Request information pertaining to observed conservation efficacy
 - Adjust conservation strategies accordingly
- Supplemental Funding = \$63,500

24




*Region H
Water Planning Group*

Task 7 Base Funding

Task 7 – Plan Consistency with Long-term Protection of State’s Natural Resources

- Update descriptions of water management strategies and alternative strategies identified this round
- Base Funding = \$10,000

25




*Region H
Water Planning Group*

Task 8 Base Funding

Task 8 – Unique Stream Segments / Reservoir Sites / Legislative Recommendations

- Review designations and recommendations from 2006 RWP
- Provide descriptions of any new reservoir projects
- Identify changes in stream segment classifications
- Review legislative recommendations from 2006 RWP to determine need to add and/or remove
- Base Funding = \$15,000

26




*Region H
Water Planning Group*

Task 9 Base Funding

Task 9 – Water Infrastructure Funding

- Contact individual WUGs regarding possible funding requests
- Tabulate needs as reported by individual WUGs including project costs
- Incorporate information into Plan
- Provide summary in Plan pointing to the location of potential funding needs in the 2011 RWP
- Base Funding = \$58,000

27




*Region H
Water Planning Group*

Task 10 Base Funding

Task 10 – Adoption of Plan

- Planning Group meetings
- Public notices
- Public meetings
- Administrative support
- Base Funding = \$254,800

28

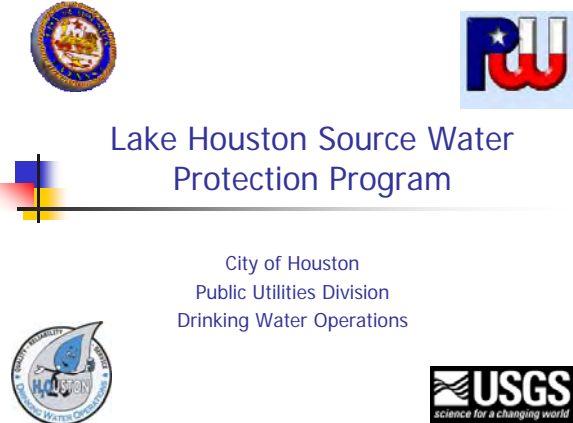


*Region H
Water Planning Group*

Path Forward

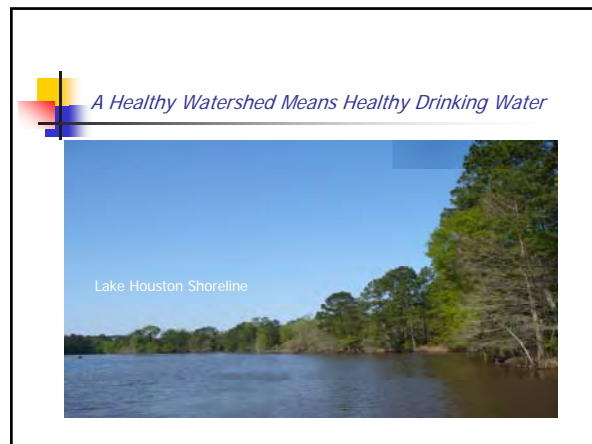
- Revise Scope of Work, if needed, as a result of Public Meeting
- Finalize Scope of Work and Grant Application
- Post Final Grant Application package on Region H website
- Submit Grant Application to TWDB on or before June 13, 2008

29



Lake Houston Source Water Protection Program

City of Houston
Public Utilities Division
Drinking Water Operations



- ### Drinking Water and Public Health
- What is the role of the Public Utility in Public Health?
 - How does safe drinking water benefit the public?
 - What disease-causing agents could be present in drinking water?

- ### Drinking Water and Public Health
- What is the role of the Public Utility in Public Health?
 - Drinking water can serve as a vehicle for transmission of hazardous agents causing human health impacts such as:
 - Microbial pathogens;
 - Aquatic organisms;
 - Toxins (Cyanotoxins from blue green algae);
 - Chemicals (man-made);
 - Pesticides and Herbicides (DEET and Atrazine);
 - Metals and other inorganics (arsenic, lead, copper, nitrates, etc.); and
 - Disinfection By Products

- ### Drinking Water and Public Health
- How does safe drinking water benefit the public?
 - Since the Mid-1980's, the number of waterborne disease outbreaks has declined from over 50 incidents per year nationally, to less than 10 in 2001. Most outbreaks today are associated with individual home owner or small community systems.
 - This is believed to be a result of more stringent regulations: i.e. the Surface Water Treatment and Total Coliform Rules
 - The Partnership for Safe Water program is a voluntary EPA program created to help Public Utilities focus on reducing risk even further by improving treatment process efficiencies

Drinking Water and Public Health

- What disease-causing agents could be present in drinking water?
 - Outbreaks are predominantly due to microbial or chemical agents
 - Microbial agents include:
 - Parasites (Giardia, Cryptosporidium);
 - Protozoa (Naegleria);
 - Bacteria (Coliform, Legionella, Aeromonas); and
 - Viruses (Noro, Coxsackie, Adeno- viruses)
 - Health impacts can be chronic or acute
 - Diarrheal Illnesses
 - Acute gastroenteritis
 - Respiratory infections (Legionnaire's disease)
 - Death

AWWA Source Water Protection Standard

- Program must have:
 - Vision Statement and Goals
 - Geographic delineation of areas of concern
 - Water quality data
 - Potential contaminants associated with land uses
 - Security and emergency preparedness planning
 - Development of Action and Implementation Plans
 - Continual evaluation and revision

Houston's Source Water Program

- Two Needs Identified
 - Source Water Protection *Policy*
 - Source Water Quality Management *Strategy*
 - Total Water Management – Source to Tap

Proposed Source Water Policy

- Implement effective management controls to provide an additional contaminant reduction barrier in source waters

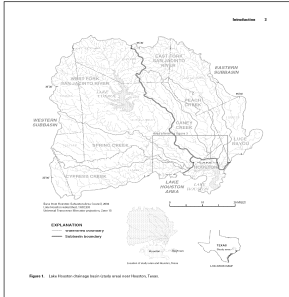
Public Health Risk Management Approach

Proposed Source Water Management Strategy

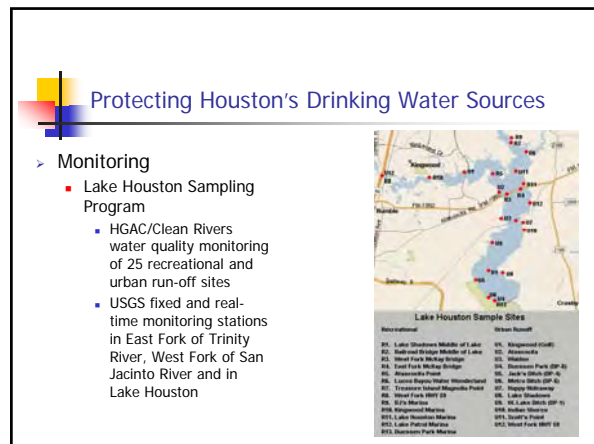
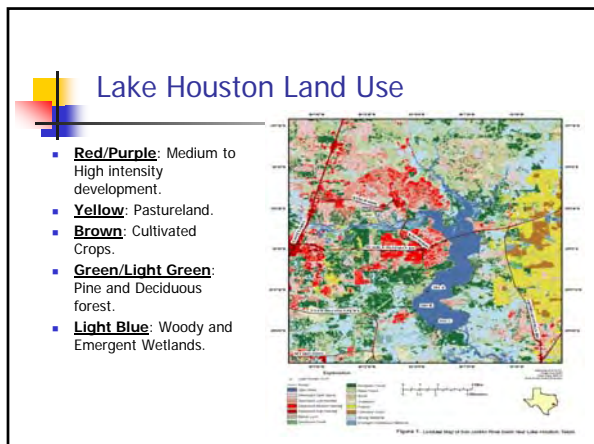
- Initial focus on Lake Houston Watershed
- Implementation Plan development based on public stakeholder discussions
- Management of source water quality, which includes monitoring, assessment and development of appropriate science based structural and administrative control measures
- Ordinance reinforcement with regards to development permits, storm water and wastewater discharges, and nutrient source uses

Lake Houston

- Lake Houston watershed, including delineated subbasins and individual tributaries spans 2,835 sq. mi. across 7 Counties.
- All 3 subwatersheds in the Western drainage subbasin are currently impaired for bacteria (303d).

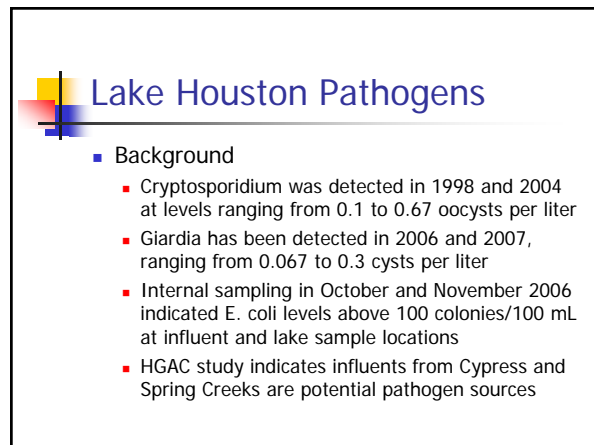


The map shows the Lake Houston watershed with various subbasins and tributaries. A legend indicates 'CITY LIMITS' and 'WATERSHED BOUNDARY'. A scale bar is provided at the bottom of the map. The map is titled 'Figure 1. Lake Houston Drainage Basin (1981-1984) and Lake Houston, Texas'.



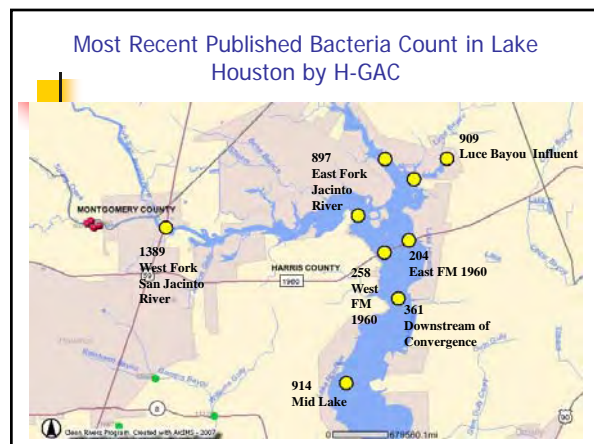
Texas Water Quality Impairments 303 (d) List

Year	Water Segment	Category
2000	Spring and Cypress Creeks	Bacteria
2002	Spring and Cypress Creeks, West Fork San Jacinto River	Bacteria
2004	Spring and Cypress Creeks, West Fork San Jacinto River	Bacteria
2006	Spring and Cypress Creeks, Lake Houston, West and East Fork San Jacinto River, Caney and Peach Creeks	Bacteria
2008 (draft)	Spring and Cypress Creeks, Lake Houston, West and East Fork San Jacinto River, Caney and Peach Creeks	Bacteria



HGAC Historical Lake Houston Bacteria Data Criteria Index (126 cfu/100 mL)

Location	<i>E. coli</i> (cfu/100mL) (2000-2003)	<i>E. coli</i> (cfu/100mL) (2002-2005)
West Fork San Jacinto River	1101	1389
East Fork San Jacinto River	153	897
Luce Bayou	275	908
West FM 1960	208	258
East FM 1960	160	204
Missouri-Pacific Rail Rd	139	361
Mid Lake	493	914



Lake Houston COH Internal Coliform Sampling 2006

Lake Houston Watershed Special Sampling - November 2006

SAMPLE NUMBER	COLLECTED DATE	COMMENTS	Coliform (Total) Count MPN/100ml	E. Coli Count MPN/100ml	Turbidity - Lab NTU
S104391	11/14/2006	WF @ US 59	11235	<50	38.4
S104392	11/14/2006	WF @ Lake Houston Pkwy	4420	155	35.8
S104405	11/14/2006	WF @ Atascocita Point	7500	465	45.8
S104410	11/14/2006	WF @ FM 1960	2865	50	43.7
S104411	11/14/2006	WF @ RR Bridge	1285	<50	48.1
S104412	11/14/2006	Strang's Camp	1470	150	12.7
S104413	11/14/2006	Lake Bayou @ EF Convergence	2130	<50	34.0
S104414	11/14/2006	EF @ FM 1960	1705	<50	39.5
S104415	11/14/2006	EF @ RR Bridge	1525	50	47.6
S104416	11/14/2006	Midpoint of RR Bridge @ NEWP Intake	1325	<50	50.1

Protecting Houston's Drinking Water Sources

➤ What is the Connection Between Microbial Contamination and Turbidity?

- Drinking water treatment plants primarily achieve removal requirements through the filtration process
- Microorganisms are assumed to attach to particles, and if the particles (as turbidity) can be removed to a high degree, credit is given for treatment efficiency
- Therefore, the higher the source water turbidity, and the higher the microbial count in the water, the more pressure on the treatment plant to achieve the required removals, and the higher the health risk to the public*

Protecting Houston's Drinking Water Sources

➤ Why are Pathogens a Concern?

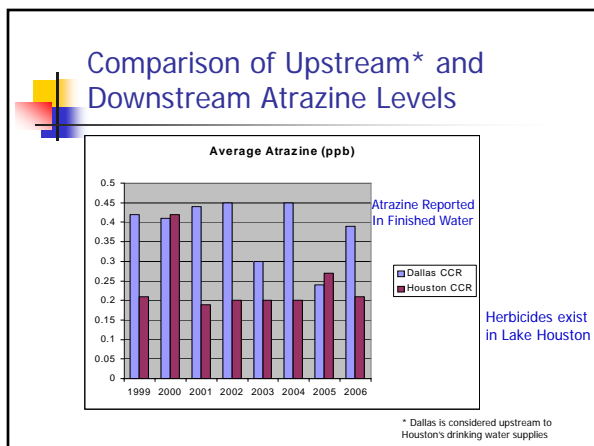
- Surface water must be filtered and treated to remove microbial contaminants
- TCEQ regulations require the following minimum treatment efficiencies for microbial contaminants:
 - Cryptosporidium - 99% (2-log removal)
 - Giardia - 99.9% - (3-log removal)
 - Viruses - 99.99% - (4-log removal)
 - E. coli - 100% - A violation occurs if the presence of E. coli is confirmed

Source Water Quality and Water Treatment Plant Requirements

Raw Water Parameters	Lake Houston (08/05 - 02/08)	Trinity River (01/03 - 02/08)
Turbidity (NTU)	40-150	10-50
TOC (mg/L)	5.0 - 17.0	5.0 - 8.0
Color (pcu)	20 - 100	5 - 40
Threshold Odor Number (T.O.N)	6.0 - 8.0	3.0 - 6.0

Enhanced Coagulation Removal Requirements
 15% -- Raw Water TOC < 4.0 mg/L
 35% -- Raw Water TOC < 8.0 mg/L
 50% -- Raw Water TOC > 8.0 mg/L

Treatment Goals
 Settled Water Turbidity < 2.0 NTU Filtered Water Turbidity < 0.10 NTU
 Color < 5.0 pcu T.O.N < 2.0



Protecting Houston's Drinking Water Sources

➤ Increased Treatment Costs for Lake Houston

- Turbidity Removal
 - "Enhanced Coagulation" chemical costs - \$20/MG
- Organics Removal
 - "Enhanced Coagulation" and carbon chemical costs - \$20/MG
- Taste and Odor Reduction
 - Increased carbon costs - \$50/MG

➤ Total Increase per MG - \$90/MG

✓ For Average COH Daily Surface Water Production Rate of 40 MGD an additional \$1,300,000 per year in chemical costs occurs to remove contaminants in source water

Protecting Houston's Drinking Water Sources

- Increased Treatment Costs for Lake Houston
 - Atrazine Removal
 - Increased carbon costs - \$50 to \$100/MG
 - Additional Disinfection for Pathogen
 - Use of Ultraviolet (UV) Irradiation – increased electrical costs - \$30/MG
 - Residuals Treatment
 - Increased solids disposal costs - \$20/MG

➤ *These represent additional increases in operating costs as a result of Lake Houston source water quality*

Protecting Houston's Drinking Water Sources

- Source Water Program Targeted Parameters
 - Constituents
 1. **Pathogens** – Primary concern, no treatment process will be 100% effective (fecal coliforms, Giardia, potential for Cryptosporidium)
 2. **Nutrients and Sediments** – Pathogens travel with solids and can re-proliferate with nutrients
 3. **Spills and other Chemical Releases** – Need for operational contingency planning
 4. **Emerging Contaminants** – Atrazine, not removed by conventional treatment

Protecting Houston's Drinking Water Sources

- Initial Goals
 - Lake Houston
 - Reduction in frequency and quantity of pathogens detected – focus on coliforms
 - Reduction in frequency and quantity of atrazine detected
 - Reduction in severity of seasonal algal blooms by controlling nutrients and in-lake treatment
 - Control of sediments through permitting, partnerships and in-lake treatment
 - Increase visibility in community with sign posting and education efforts

Have not established parameter concentration or loading targets

Lake Houston Targeted Parameter Source Identification

Potential Pollutant Sources

- Stormwater Runoff
- Agricultural Runoff
- Sand and Gravel Operations
- Septic Systems in Rural Northern and Eastern Watersheds
- WWTPs on Spring and Cypress Creeks




Source Water Program

- Tactical Actions
 - *Implement continual improvement process – as we accomplish objectives, the overall program will be re-evaluated and new targets set, based on improvements realized*
 - First Round – Keep it simple
 - Plan for incremental improvements over next 2 to 3 years
 - Leverage public outreach and education opportunities to engage discussion
 - Establish science to support future control measures
 - Begin evaluation of potential land use changes such as acquiring greenbelts or conservation easements


Source Water Program

- Tactical Actions (continued)
 - Management of source water quality
 - Implement expanded monitoring
 - Implement stake holder group to raise issue visibility and educate public
 - Enforce current ordinances
 - Develop TMDL program focusing on stormwater runoff
 - Establish Additional Resources –
 - Increase USGS funding level, double current spending
 - Increase Lake inspection and technical staff to include limnologist and aquatic biologists
 - Increase water quality monitoring staff



Source Water Program

- > Stake Holder Group (can consider parameter targets, etc.)
 - Potential Participants:
 - TRA, SJRA, and CWA
 - Texas A&M Agricultural Extension/Soil Conservation
 - Harris County
 - Business, Civic, Environmental, Academic
 - > Lake Houston Ordinances
 - Enforce septic discharge and marine structure ordinances
 - Increase inspections focusing on water quality
 - Ordinance reinforcement in regards to organics, sediments and nutrients (development permits, storm water and wastewater discharges, and nutrient source uses)




Region H
Water Planning Group

Region H Water Planning Group


Consultants Report

May 28, 2008



Region H
Water Planning Group

Environmental Flows Investigation: Impacts of Recommended Water Management Strategies on Galveston Bay Estuary




Region H
Water Planning Group

Introduction

- Water Availability Models Developed
 - Base conditions
 - Individual strategies
 - All strategies

3




Region H
Water Planning Group

Introduction

Modeled Water Management Strategies

- Expanded Use of Groundwater ~ 91,000 ac-ft/yr
- BRA System Operations ~ 119,000 ac-ft/yr
- Allens Creek Reservoir ~ 97,000 ac-ft/yr
- Little River Off-Channel Reservoir ~ 32,000 ac-ft/yr
- Industrial Wastewater Reuse ~ 67,000 ac-ft/yr
- TRA to Houston Contract ~ 153,000 ac-ft/yr
- TRA to SJRA Contract ~ 50,000 ac-ft/yr
- Houston to GCWA Contract ~ 56,000 ac-ft/yr
- Houston Indirect Reuse ~ 61,000 ac-ft/yr
- NHCRWA Indirect Reuse ~ 31,400 ac-ft/yr
- Lake Houston Additional Yield ~ 1,000 ac-ft/yr
- Freeport Seawater Desalination ~ 28,000 ac-ft/yr

4




Region H
Water Planning Group

Introduction

- Several strategies not modeled
 - Municipal and Irrigation Conservation
 - Expand / Increase Current Contracts
 - New Contracts from Municipal Supply
 - Non-Municipal Contractual Transfers
- Reasons
 - WRAP considers rights / diversions, not contracts
 - “Contract” water already diverted
 - Conserved water utilized at another location

5



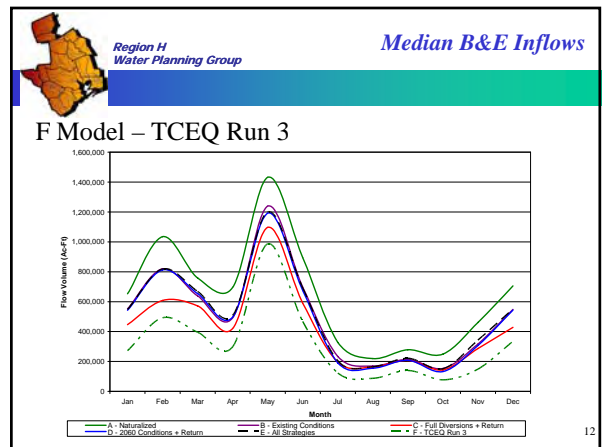
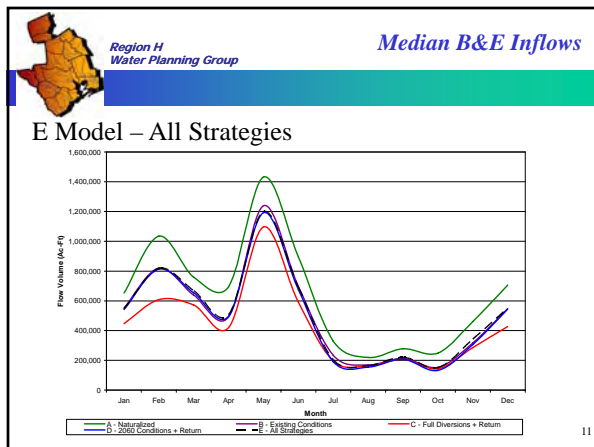
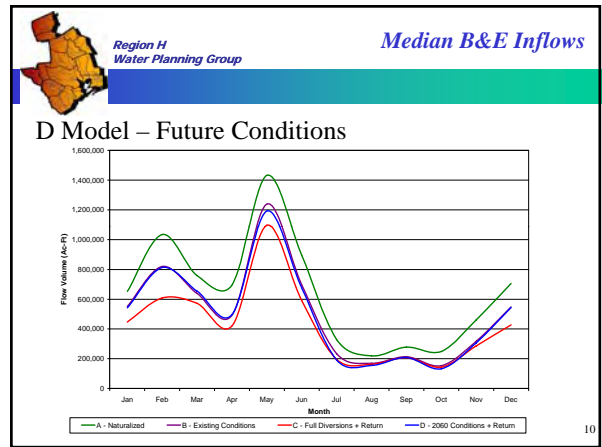
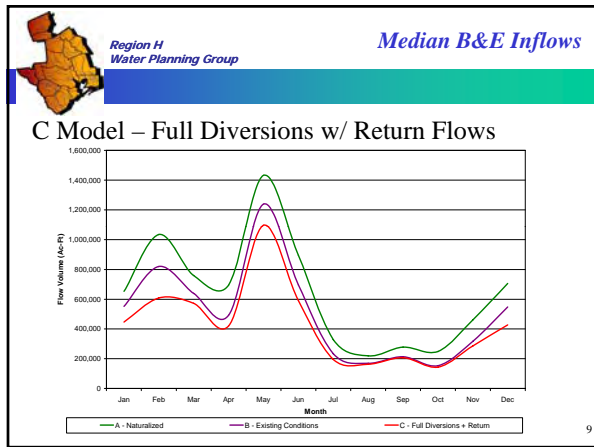
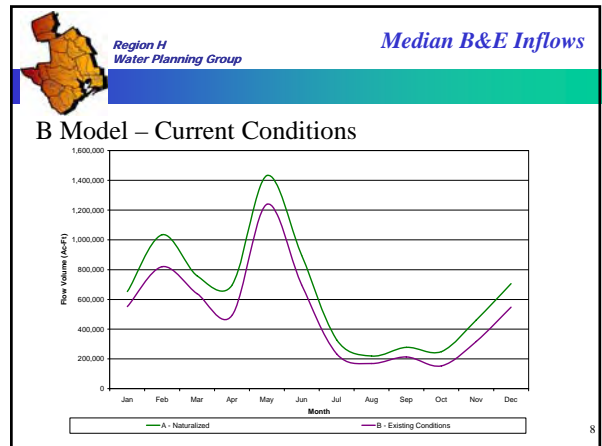
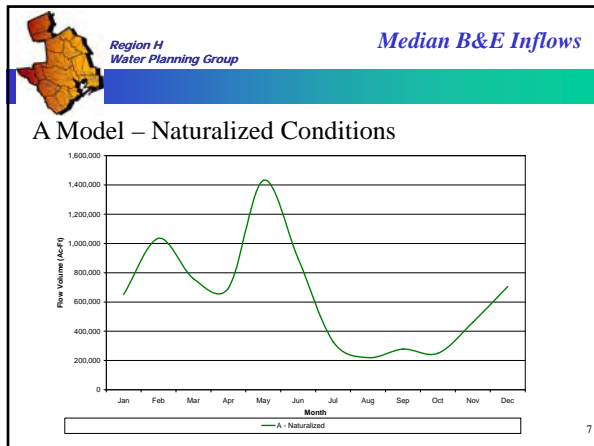
Region H
Water Planning Group

B&E Flow Analysis

Model Scenarios

Scenario	Diversions	Return Flows	Upstream Strategies?	Reservoir Storage	
A	Naturalized Flows	N/A	N/A	No	N/A
B	Existing Conditions	10-Yr Max Use	Current Assumed	No	Year 2000
C	Current Conditions + Full Diversions	Full Permit	Current Assumed	No	Year 2000
D	Future 2060 Conditions	Full Permit	Current Assumed	YES	Year 2060
D + Strategies	Future 2060 Conditions + Individual Strategies	Full Permit + Strategies	Current Assumed + Strategies	YES	Year 2060
E	Future 2060 + ALL Strategies	Full Permit + All Strategies	Current Assumed + All Strategies	YES	Year 2060
F	TCEQ Permit Run	Full Permit	None	No	Original ACE

6



Region H Water Planning Group *B&E Inflow Targets*

TWDB Inflow Targets

- Max H – Inflows required for maximum bay and estuary fisheries harvest as recommended by TWDB/TPWD.
- Min Q – Minimum inflow required to maintain the bay and estuary fisheries harvest as recommended by TWDB/TPWD.
- Min Q-Sal – Minimum acceptable inflow required to maintain the salinity needed for bay and estuary fisheries production as recommended by TWDB/TPWD.

13

Region H Water Planning Group *B&E Inflow Targets*

TWDB Inflow Targets

Month	Max H	Min Q	Min Q-Sal
January	150,500	150,500	150,490
February	155,200	216,700	216,700
March	652,800	363,900	363,900
April	632,500	352,800	267,270
May	1,273,700	679,700	309,970
June	839,700	448,100	413,560
July	211,500	232,700	211,500
August	140,000	154,000	140,000
September	103,000	330,200	102,960
October	78,600	251,900	78,600
November	351,500	351,500	164,390
December	626,800	626,800	93,870
TOTAL	5,215,800	4,156,800	2,513,210

14

Region H Water Planning Group *B&E Inflow Targets*

Inflow Frequencies

- Based on the percentage of flow records meeting or exceeding the monthly inflow target.
- Statistics for longer period (seasonal, annual) are composed of averages of the monthly percentiles

15

Region H Water Planning Group *B&E Inflow Targets*

Annual Inflow Frequencies

Scenario	Max H	Min Q	Min Q-Sal
GBFIG Recommendation	50%	60%	75%
A - Naturalized	68%	67%	83%
B - Current Conditions	63%	58%	79%
C - Full Diversion	59%	53%	75%
D - 2060 Conditions	60%	56%	74%
E - All Strategies	62%	59%	77%
F - TCEQ Run 3	43%	43%	56%

*C, D, and E scenarios include return flows.

16

Region H Water Planning Group *B&E Inflow Targets*

Alternative Examination of Inflow Frequency

- Seasonally – 3 Seasons
 - Spring: March - June
 - Summer: July - October
 - Winter: November - February
- Monthly

17

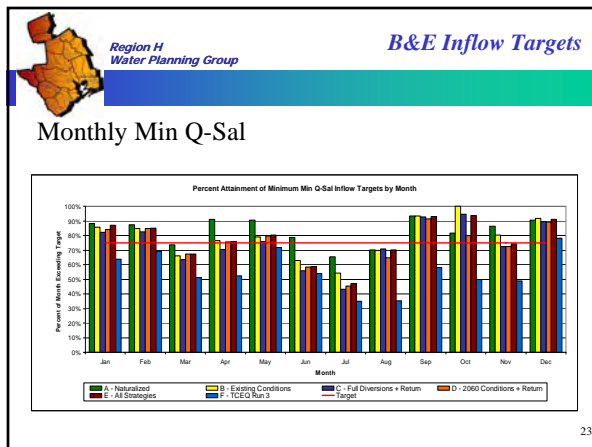
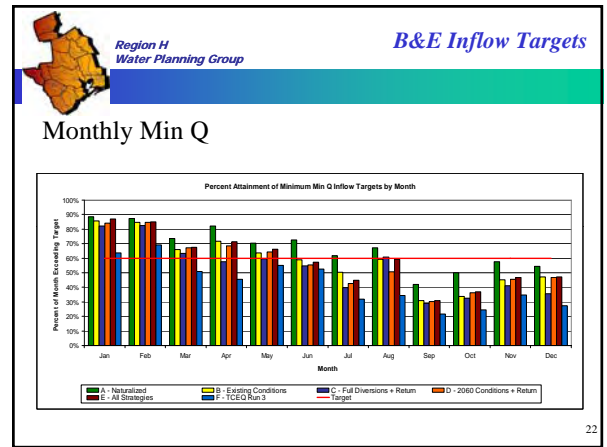
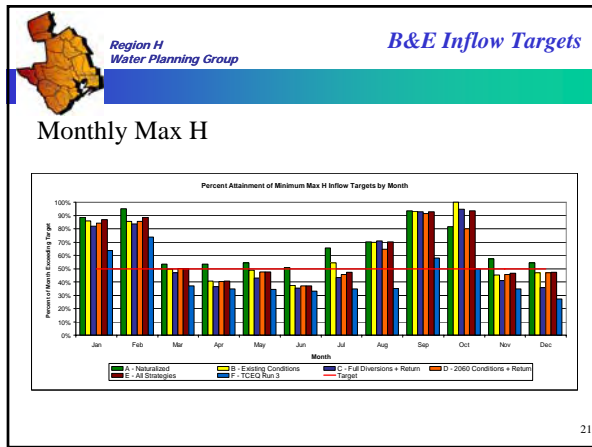
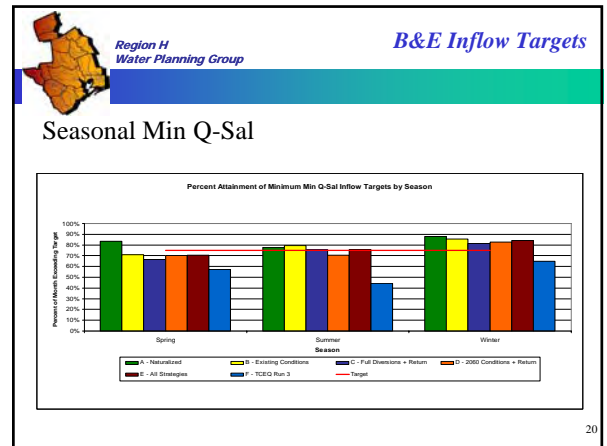
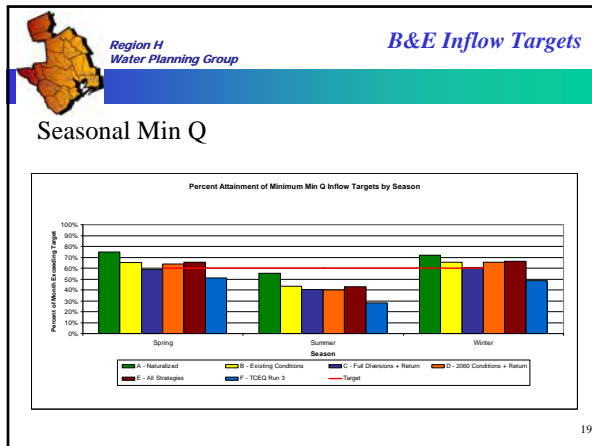
Region H Water Planning Group *B&E Inflow Targets*

Seasonal Max H

Percent Attainment of Minimum Max H Inflow Targets by Season

Season	A - Naturalized	B - Existing Conditions	C - Full Diversion + Return	D - 2060 Conditions + Return	E - All Strategies	F - TCEQ Run 3
Spring	~55%	~45%	~45%	~45%	~45%	~35%
Summer	~85%	~85%	~85%	~85%	~85%	~45%
Winter	~75%	~65%	~65%	~65%	~65%	~45%

18



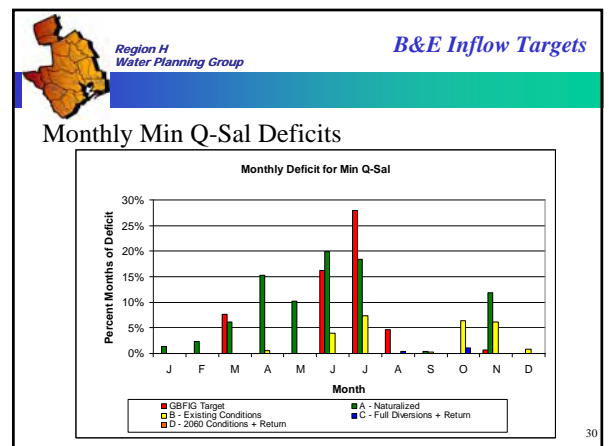
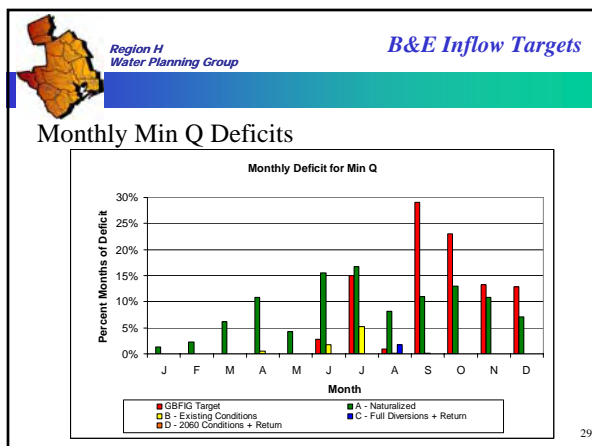
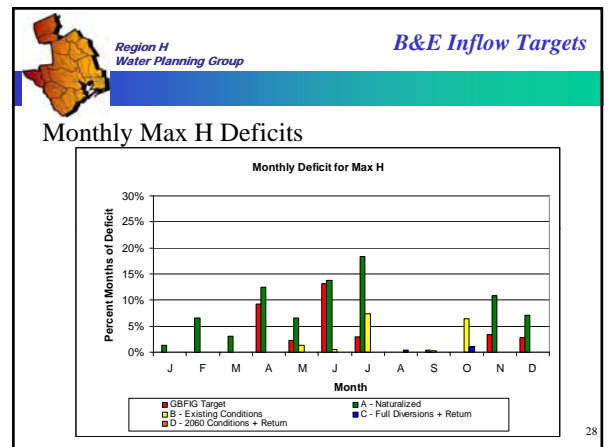
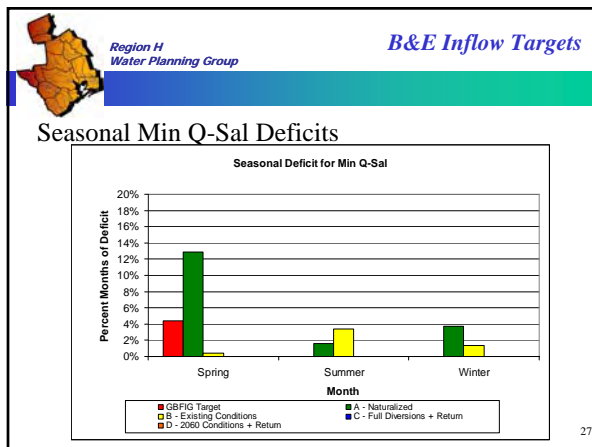
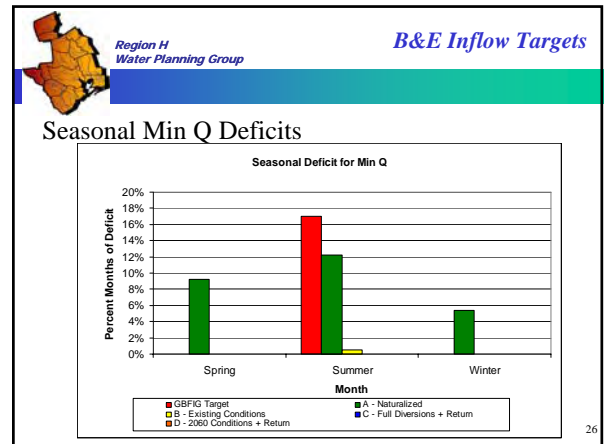
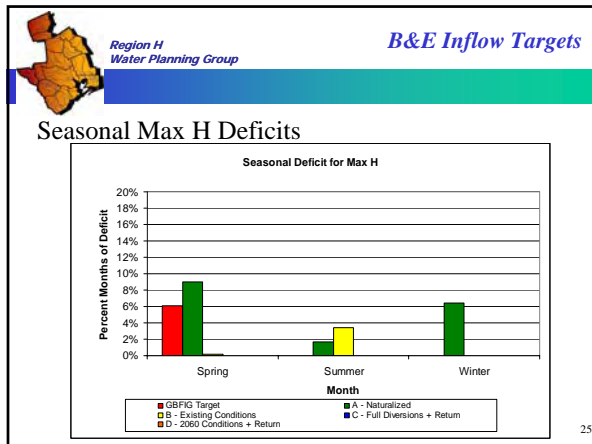
Region H Water Planning Group *B&E Inflow Targets*

Annual Inflow Deficits

Deficit between All Strategies Model (E) and Base Models

Scenario	Max H	Min Q	Min Q-Sal
GBFIG Recommendation	0%	1%	0%
A - Naturalized	6%	8%	6%
B - Current Conditions	1%	0%	2%
C - Full Diversion	0%	0%	0%
D - 2060 Conditions	0%	0%	0%

24



Region H Water Planning Group *Individual Strategies*

Examination of Selected Strategies

- All modeled strategies were modeled separately to determine individual impacts
- The impacts of each strategy contributed only a minor variation to the base model (Scenario D)
- The largest individual strategy modeled was TRA to Houston Contract (Scenario D₁₂) at 153,000 Ac-Ft/Yr

31

Region H Water Planning Group *Individual Strategies*

Annual Inflow Frequencies – Selected Strategies

Scenario	Max H	Min Q	Min Q-Sal
GBFIG Recommendation	50%	60%	75%
A - Naturalized	68%	67%	83%
B - Current Conditions	63%	58%	79%
C - Full Diversion	59%	53%	75%
D - 2060 Conditions	60%	56%	74%
D ₁₂ - TRA to Houston	61%	58%	76%

*C and D scenarios include return flows.

32

Region H Water Planning Group *Individual Strategies*

Seasonal Max H – Selected Strategies

Percent Attainment of Minimum Max H Inflow Targets by Season

Season	A - Naturalized	B - Existing Conditions	C - Full Diversion + Return	D - 2060 Conditions + Return	D ₁₂ - TRA to Houston	Target
Spring	~65%	~55%	~55%	~55%	~55%	~60%
Summer	~85%	~85%	~85%	~85%	~85%	~75%
Winter	~85%	~75%	~75%	~75%	~75%	~75%

33

Region H Water Planning Group *Individual Strategies*

Seasonal Min Q – Selected Strategies

Percent Attainment of Minimum Min Q Inflow Targets by Season

Season	A - Naturalized	B - Existing Conditions	C - Full Diversion + Return	D - 2060 Conditions + Return	D ₁₂ - TRA to Houston	Target
Spring	~85%	~75%	~75%	~75%	~75%	~75%
Summer	~65%	~55%	~55%	~55%	~55%	~60%
Winter	~85%	~75%	~75%	~75%	~75%	~75%

34

Region H Water Planning Group *Individual Strategies*

Seasonal Min Q-Sal – Selected Strategies

Percent Attainment of Minimum Min Q-Sal Inflow Targets by Season

Season	A - Naturalized	B - Existing Conditions	C - Full Diversion + Return	D - 2060 Conditions + Return	D ₁₂ - TRA to Houston	Target
Spring	~85%	~75%	~75%	~75%	~75%	~75%
Summer	~85%	~85%	~85%	~85%	~85%	~75%
Winter	~85%	~85%	~85%	~85%	~85%	~75%

35

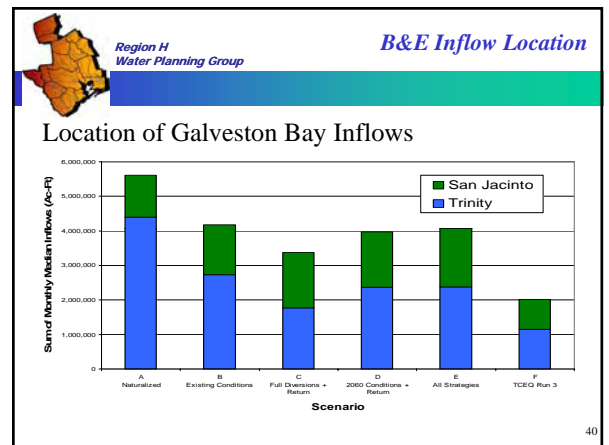
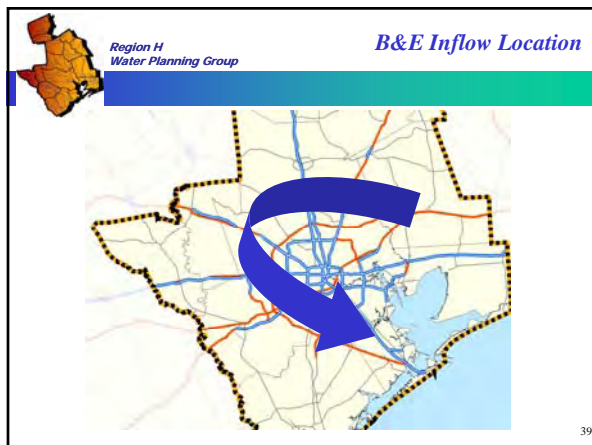
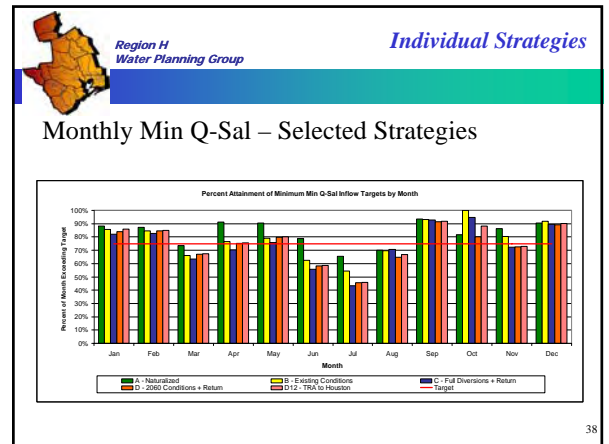
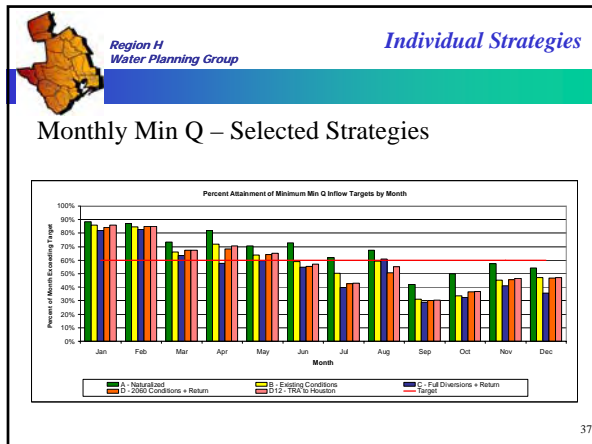
Region H Water Planning Group *Individual Strategies*

Monthly Max H – Selected Strategies

Percent Attainment of Minimum Max H Inflow Targets by Month

Month	A - Naturalized	B - Existing Conditions	C - Full Diversion + Return	D - 2060 Conditions + Return	D ₁₂ - TRA to Houston	Target
Jan	~85%	~85%	~85%	~85%	~85%	~75%
Feb	~85%	~85%	~85%	~85%	~85%	~75%
Mar	~85%	~85%	~85%	~85%	~85%	~75%
Apr	~85%	~85%	~85%	~85%	~85%	~75%
May	~85%	~85%	~85%	~85%	~85%	~75%
Jun	~85%	~85%	~85%	~85%	~85%	~75%
Jul	~85%	~85%	~85%	~85%	~85%	~75%
Aug	~85%	~85%	~85%	~85%	~85%	~75%
Sep	~85%	~85%	~85%	~85%	~85%	~75%
Oct	~85%	~85%	~85%	~85%	~85%	~75%
Nov	~85%	~85%	~85%	~85%	~85%	~75%
Dec	~85%	~85%	~85%	~85%	~85%	~75%

36



- Region H Water Planning Group
- ### Summary
- Upstream strategies and Region H strategies have unique impacts on inflows at different times of the year.
 - How should frequency targets be evaluated? Annually? Seasonally? Monthly? On a multi-year basis?
 - The impacts for any single individual Region H management strategy appear to be negligible in comparison to other conditions.
- 41

Region H Water Planning Group

Interruptible Supplies

Region H Water Planning Group

Task 3 - Interruptible Supplies

Key Question - Can a strategy of substituting permitted or un-permitted interruptible (a.k.a. non-firm) surface water supplies for use in irrigated agricultural (or other appropriate uses) for permitted firm surface water supplies that are currently allocated to irrigated agricultural be employed to increase the availability of firm surface water supplies for municipal or industrial use?

Interruptible Water Supply – 75% of the water must be available 75% of the time measured as:

- 75% of the water must be available in 75% of the years over the period of record; or
- 100% of the water must be available 75% of the months over the period of record

43

Region H Water Planning Group

Task 3 - Interruptible Supplies

Hydrologic Viability Analysis

- Available interruptible water supply in proximity to irrigation demands:
 - Un-permitted supplies
 - Existing permitted interruptible water to “trade”
- Firm irrigation supplies in proximity to or otherwise reasonably accessible by M&I users

44

Region H Water Planning Group

Task 3 - Interruptible Supplies

Viability Interruptible Supply Strategy Requires:

- Available interruptible water supply in proximity to irrigation demands:
 - Quantify *existing permitted* supplies
 - Quantify *new un-permitted interruptible supplies* – with and without environmental flows
 - Evaluate *potential uses* for interruptible water supplies
 - Compare *amounts and locations* of interruptible supplies and demands to evaluate viability of interruptible supply use
- Firm irrigation supplies in proximity to or otherwise reasonably accessible by M&I users
 - Quantify *additional firm yield supplies* made available for M&I use

45

Region H Water Planning Group

Task 3 Interruptible Supplies Municipal and Industrial Demands

Summary of Surface Water M&I Demands (AFY)

Basin	2010 WUG Demands Currently Supplied	2060 Unmet Demands with WMS's Applied	2060 Unmet Demands with NO WMS's Applied
Brazos	178,033	0	220,805
Brazos - Colorado	12,497	0	3,965
Neches - Trinity	8,153	0	0
San Jacinto	725,429	0	535,555
San Jacinto - Brazos	340,395	0	69,888
Trinity	24,644	0	3,490
Trinity - San Jacinto	56,176	0	58,725

46

Region H Water Planning Group

Task 3 Interruptible Supplies: Existing Permits

“Quantify availability of existing permitted water”

Shows locations of existing irrigation permits

Region H 2011 Water Plan
Location of Irrigation Demands

47

Region H Water Planning Group

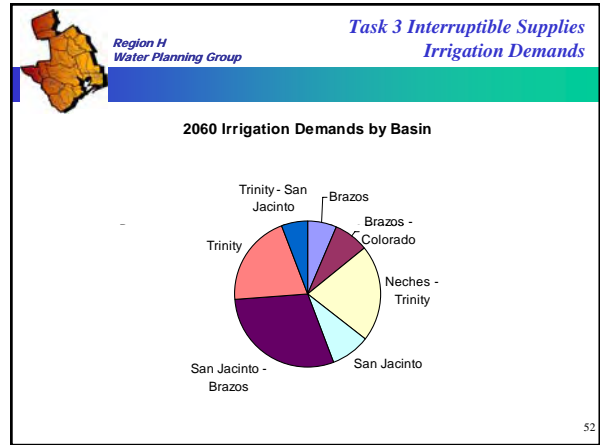
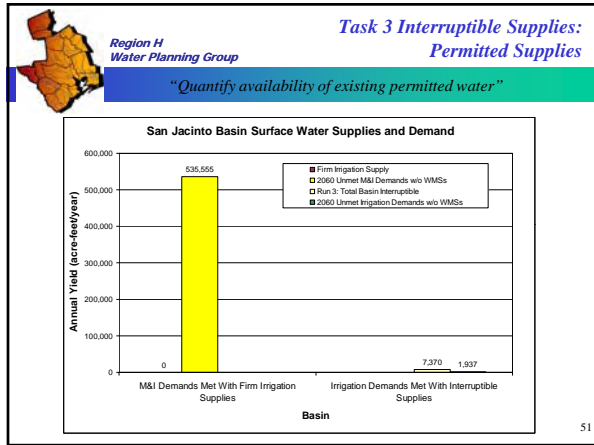
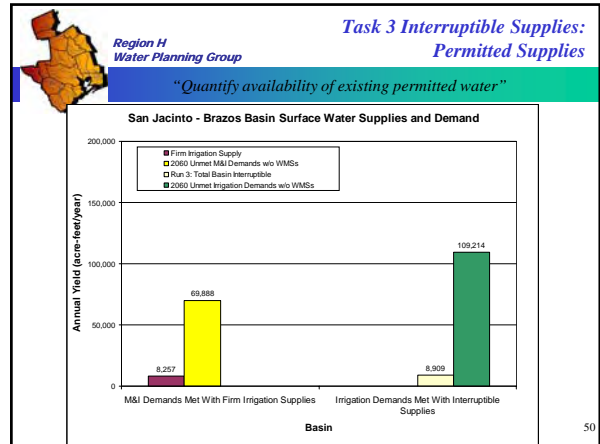
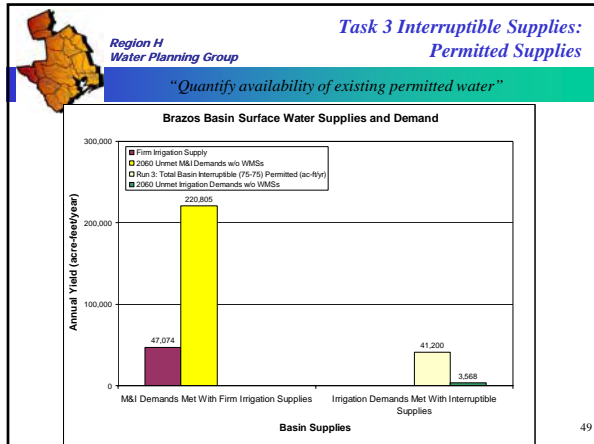
Task 3 Interruptible Supplies Permitted Supplies

“Quantify availability of existing permitted water”

Basin-wide Total Existing Permitted Supplies

Basin	Demands (AFY)	Permitted Supplies (AFY)
Brazos	220,805	0
Colorado-Brazos	3,965	0
Neches-Trinity	0	0
San Jacinto	535,555	0
San-Jacinto-Brazos	69,888	0
Trinity	3,490	0
Trinity-San Jacinto	58,725	0

48



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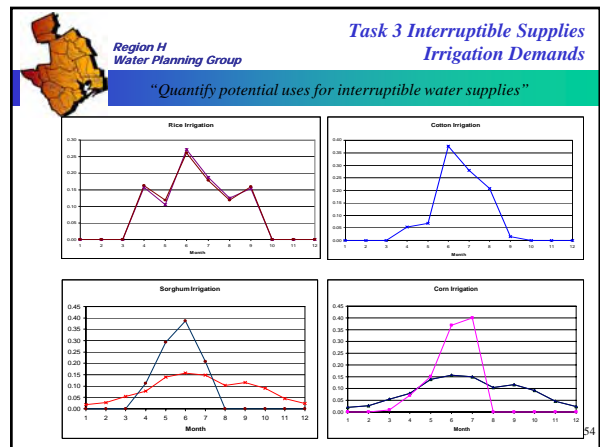
Task 3 Interruptible Supplies Irrigation Demands

"Quantify potential uses for interruptible water supplies"

Regional Crop Types:

- In 2002, rice production accounted for approximately 72% of irrigated acreage in Region H counties
- Relatively small amount of irrigated acreage in corn, sorghum, cotton, hay
- In 2002 approximately 21% of irrigation was supplied from groundwater (Region H weighted average)
- Total irrigation demand has decreased by more than 50% from 1987 to 2002

53



Region H Water Planning Group

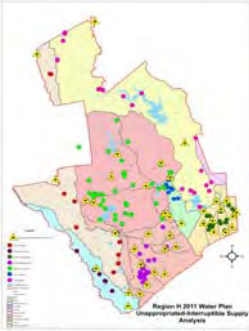
Task 3 Interruptible Supplies Un-Permitted Calculations

"Quantify new un-permitted interruptible supplies"

Locations selected (yellow triangles) where amount of un-permitted interruptible flow would be quantified.

Both an upstream and downstream location were selected to bracket results (max and min).

These flows could meet irrigation demands.



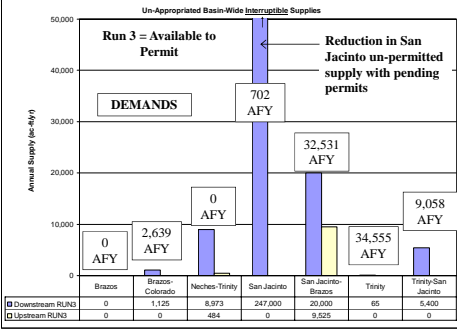
Region H 2011 Water Plan
Unappropriated Interruptible Supplies Analysis

55

Region H Water Planning Group

Task 3 Interruptible Supplies: Un-Permitted Calculations

"Quantify new un-permitted interruptible supplies"



Un-Appropriated Basin-Wide Interruptible Supplies

Run 3 = Available to Permit

Reduction in San Jacinto un-permitted supply with pending permits

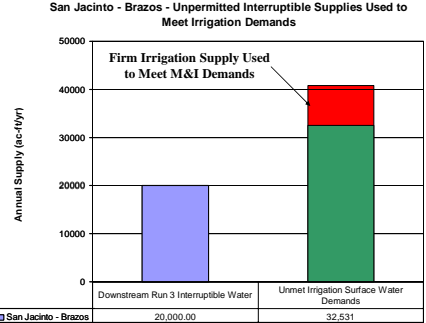
Basin	Downstream RUN3	Upstream RUN3
Brazos	0	0
Brazos-Colorado	1,128	0
Neches-Trinity	873	484
San Jacinto	247,000	0
San Jacinto-Brazos	20,000	9,525
Trinity	65	0
Trinity-San Jacinto	5,400	0

56

Region H Water Planning Group

Task 3 Interruptible Supplies Un-Permitted Calculations

"Quantify new un-permitted interruptible supplies"



San Jacinto - Brazos - Unpermitted Interruptible Supplies Used to Meet Irrigation Demands

Firm Irrigation Supply Used to Meet M&I Demands

Category	Annual Supply (ac-ft/yr)
Downstream Run 3 Interruptible Water	20,000.00
Unmet Irrigation Surface Water Demands	32,531

San Jacinto - Brazos

57

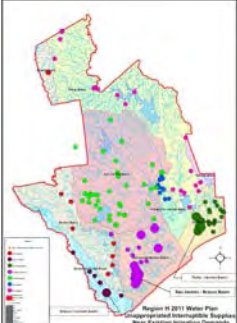
Region H Water Planning Group

Task 3 Interruptible Supplies Un-Permitted Calculations

"Compare amounts and locations of interruptible supplies and demands"

Existing irrigation demand points where amounts and locations of interruptible supplies and demands were compared.

Available un-permitted interruptible supplies are restricted to downstream segments of Coastal Basins



Region H 2011 Water Plan
Unappropriated Interruptible Supplies Near Existing Irrigation Demands

58

Region H Water Planning Group

Task 3 Interruptible Supplies Un-Permitted Calculations

"Compare amounts and locations of interruptible supplies and demands"

Basin	Un-Permitted Interruptible Supply Near Existing Irrigation Demands (ac-ft/yr)
Brazos	-
Colorado - Brazos	<700, one location only
Neches - Trinity	75 to 530 in four locations
San Jacinto	-
San Jacinto - Brazos	2,200 to 15,000 in 11 locations
Trinity	-
Trinity - San Jacinto	-

59

Region H Water Planning Group


Task 3 Interruptible Supplies Un-Permitted Calculations

"Compare amounts and locations of interruptible supplies and demands"

Impacts of Instream Flow Requirements:

- Instream flow requirements added with priority senior to new permits, junior to existing permits
- Instream flows based on Lyons Method

60




**Task 3 Interruptible Supplies
Un-Permitted Calculations**

"Compare amounts and locations of interruptible supplies and demands"

Availability of Un-Permitted Interruptible Supply With and Without Environmental Flow Requirements

Basin	Without Environmental Flow Requirement	With Environmental Flow Requirement
Brazos	–	–
Colorado - Brazos	<700 ac-ft/yr in one location	TBD
Neches - Trinity	75 to 530 ac-ft/yr in four locations	TBD
San Jacinto	–	–
San Jacinto - Brazos	2,200 to 15,000 ac-ft/yr in 11 locations (max 20,000 total)	TBD
Trinity	–	–
Trinity - San Jacinto	–	–

61




**Task 3 - Interruptible Supplies
SUMMARY**

Hydrologic Viability Analysis Summary

- Available interruptible water supply in proximity to irrigation demands:
 - Un-permitted supplies
 - Existing permitted interruptible water to “trade”
- Firm irrigation supplies in proximity to or otherwise reasonably accessible by M&I users

62




**Task 3 Interruptible Supplies:
Summary**

Available interruptible water near irrigation demands

- San Jacinto - Brazos has some (between 2,200 and 15,000 ac-ft/yr) water available on interruptible basis at 11 existing demand locations.
 - Maximum potential total water WITHOUT environmental flow constraints is 20,000 acre-ft/yr
 - Maximum potential total water WITH environmental flow constraints is (TBD) acre-ft/yr
- San Jacinto Basin has 0 acre-ft interruptible supply at existing irrigation demands – all of the 247,000 supply is at the downstream extreme of the basin and subject to pending permit applications
- In the Brazos Basin, existing permitted supplies have large interruptible component and there are no un-permitted supplies
- In other basins, existing demand locations do not match location of un-permitted flows.

63




**Task 3 Interruptible Supplies:
Summary**

Firm irrigation supplies in proximity to or otherwise reasonably accessible by M&I users

- Majority of permitted firm irrigation supply is in Trinity Basin – but very little M&I demand and no un-permitted replacement supplies
- Brazos basin has 47,000 ac-ft/yr firm irrigation supply but no un-permitted replacement supplies
- San Jacinto has large un-permitted replacement supply (pending permits) but zero firm irrigation supplies
- San Jacinto – Brazos basin has 8,200 ac-ft/yr firm irrigation supply and a total 20,000 ac-ft/yr un-permitted replacement supplies

64




Task 3 Interruptible Supplies: Conclusions

Conclusions

- Hydrologic viability only in San Jacinto – Brazos
- Interbasin transfers not practical for interruptible supplies
- Imposing environmental flow constraints would further reduce viability of strategy

65



Task 3 Interruptible Supplies: Next Phase

Next Phase of Analysis: Policy Implications

- Survey of major irrigation interests?
- Identify and assess regulatory and institutional issues and constraints?
- Evaluate the impacts and timing of the use of interruptible supplies on the size and timing of other water management strategies?
- Determine if impacts are reasonable?
- Evaluate and quantify the economic impacts of this strategy?

66

Appendix 10C

Public Hearing Materials
May 6, 2009

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Contents – May 6, 2009 Public Meeting

1. **Public Notice**
2. **Presentation**



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
c/o San Jacinto River Authority
P. O. Box 329, Conroe, Texas 77305
Telephone 936-588-1111 Facsimile 936-588-3043

**Notice of Public Meeting and Opportunity to Comment
on Proposed Population and Water Demand Projections to
Update the Region H Regional Water Plan
April 17, 2009**

The 15-county Region H Water Planning Group (RHWPG) is preparing an updated Regional Water Plan which will be submitted to the Texas Water Development Board (TWDB) in 2011. The TWDB will consolidate the reports from the 16 Regional Water Planning Areas and report to the Texas Legislature not later than January 2012.

The 2011 Regional Water Plan will be based on population and water demands prepared by the Texas Water Development Board for use in the 2006 Water Plan. In a limited number of cases, the 2006 projections will be revised to reflect documented changed conditions. Water User Groups (WUGs) have previously been contacted to review the projections for their areas. A summary of the proposed projected population and water demands for area WUGs can be found at the RHWPG website (www.regionhwater.org).

In accordance with rules of the Texas Water Development Board, the RHWPG will receive comments from the public on the proposed population and water demand projections during its regular meeting to be held at 10:00 a.m., May 6, 2009, at the SJRA offices, 1577 Damsite Road, Conroe, Texas. Action on the proposed projections may be taken at that meeting. Comments may also be submitted by mail to the SJRA at the address below. Comments and documentation of requested changes must be received by May 21, 2009.

Reed Eichelberger, PE, General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

The current (2006) Region H Water Plan and draft materials for the 2011 Plan are available on the RHWPG website at www.regionhwater.org. The 2006 Plan is also available on the TWDB website at www.twdb.state.tx.us.

For further information, please contact Glenda Callaway, 713-520-9031.



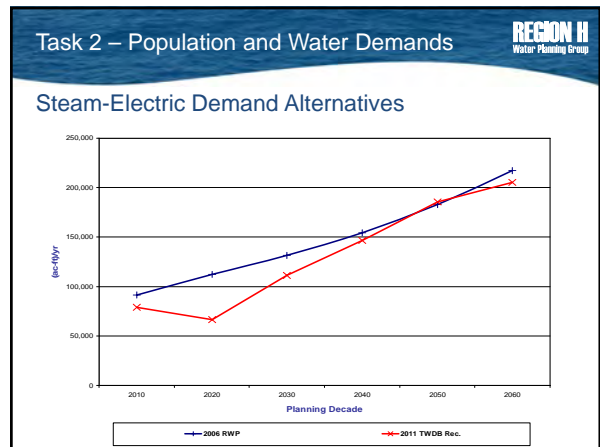
2011 Regional Water Plan Schedule

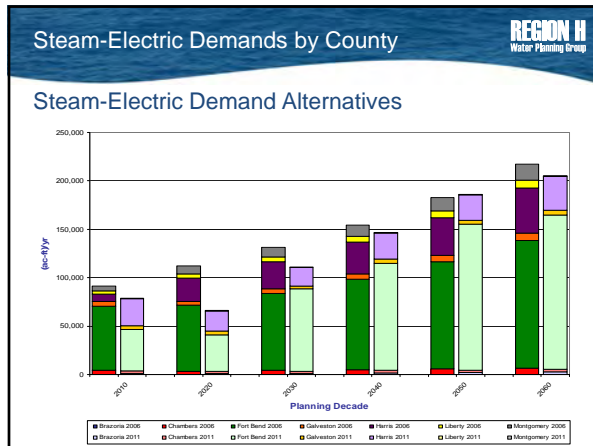
Date	Event	Items Due
02/04/09	RWPG Meeting	No Deliverables
05/06/09	RWPG Meeting	Population and Water Demand Projections for Consideration by RWPG
07/01/09	RWPG Meeting	Draft Chapters 2 and 3; Proposed Recommendations and Strategies for Consideration by RWPG
09/02/09	RWPG Meeting	Draft Chapters 4, 5, and 8
10/07/09	RWPG Meeting	Draft Chapters 1, 6, 7, and 9
12/02/09	RWPG Meeting	Draft Initially Prepared Plan
03/01/10	Due Date	Draft Final Initially Prepared Plan
09/01/10	Due Date	Regional Water Plan

- ### Focus for Today's Meeting
- Task 2 – Population and Water Demands
 - Review revised population and water demand projections for the 2011 RWP.
 - Receive public comment on revised projections.
 - Take action to approve revised projections.
 - Task 3 – Water Supply Analysis
 - Review procedures and activities for completion of the 2011 RWP.
 - Task 4 – Water Management Strategy Selection
 - Present WMA selection methodology.
 - Take action to approve selection methodology.



- ### Task 2 – Population and Water Demands
- #### Items for Consideration
- Steam-Electric Demands
 - Population Projections
 - Municipal Water Demands
 - Approval of all Water Demand Projections





Task 2 – Population and Water Demands

Steam-Electric Demand Recommendation

- In general, the total regional steam-electric demands in the 2006 RWP are greater than those proposed for this round
- The methodology used for developing the revised projections result in a decrease in demand in the 2020 decade
- Recommend the retention of the 2006 RWP values for this round of planning

Task 2 – Population and Water Demands

Projection Methodology

- County Population Projections
- WUG-Level Population Projections
 - TWDB-produced alternative projections
 - Input from WUGs
 - Data from Groundwater Reduction Plans
- Municipal Demand Projections
 - Developed by TWDB from Region H population projections
 - Per capita water usage based on baseline Year 2000 TWDB Water Use Survey

Task 2 – Population and Water Demands

County Projection Methodology

- County Control Populations
 - Applied changes to counties with growth greater than 5% of the 2006 RWP projection
 - Harris County did not meet the 5% threshold although it was included due to magnitude of increase
 - Applying change in population as a one-time occurrence
 - Harris County
 - Applying percent change in population as a long-term trend
 - Brazoria, Chambers, Fort Bend, and Montgomery Counties

Task 2 – Population and Water Demands

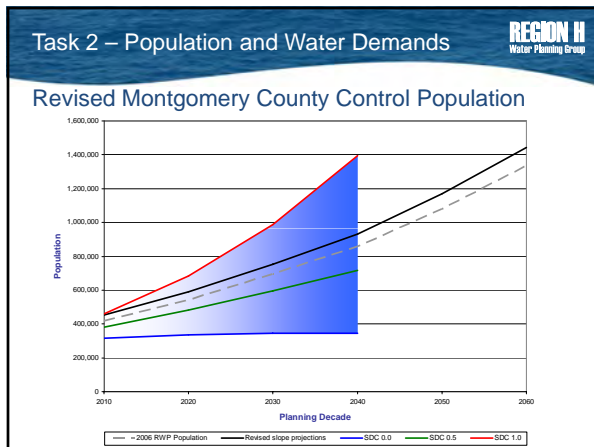
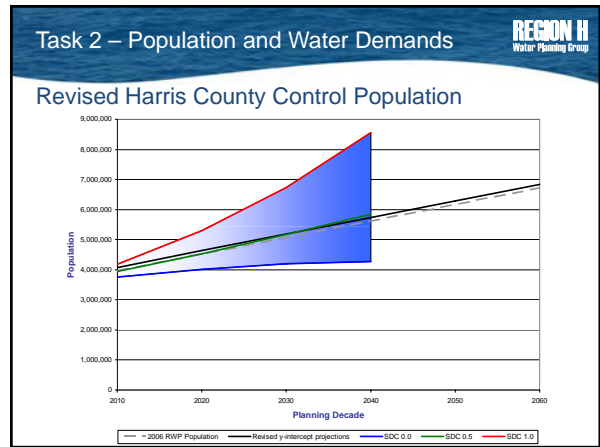
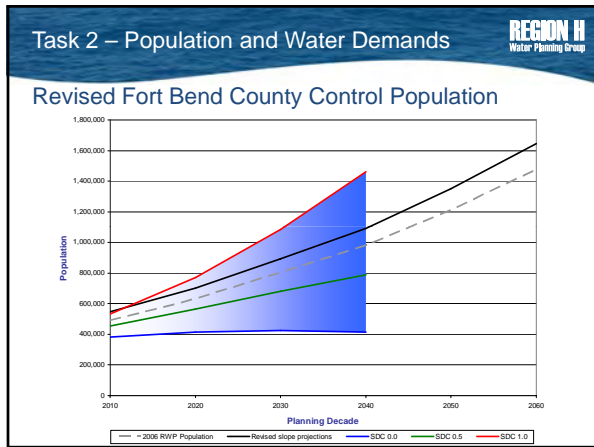
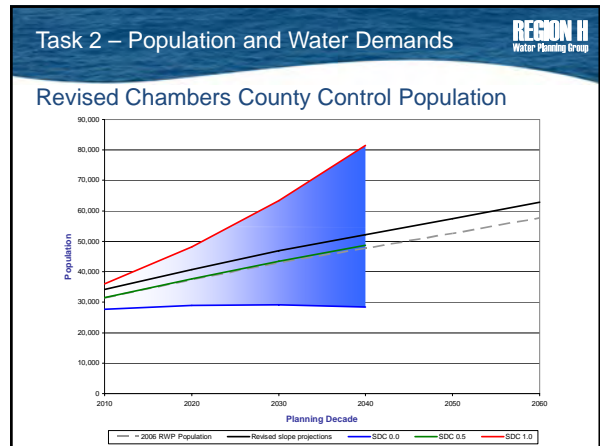
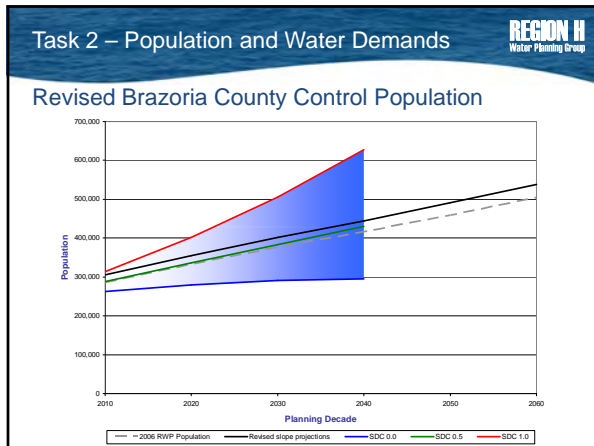
2008 Projections from Texas State Data Center

- Basis for comparing Region H projections
- Cohort-component projection technique for counties
 - Calculates projections for groups of persons with common characteristics (cohorts)
- For each cohort, projection based on:
 - Base population
 - Birth rate
 - Death rate
 - Migration rate


Task 2 – Population and Water Demands

2008 Projections from Texas State Data Center

- Developed projections through 2040 based on 3 migration rate scenarios:
 - 0.0 – Assumes in-migration and out-migration are equal
 - 0.5 – Assumes net migration of ½ the 1990 to 2000 rate
 - 1.0 – Assumes net migration rate for 1990 to 2000 continues




- Task 2 – Population and Water Demands **REGION II**
Water Planning Group
- ### WUG-Level Populations
- Surplus county population (in excess of 2006 RWP values) first distributed to new WUGs and WUGs with known demand revisions
 - Applied remaining surplus based on county:
 - Brazoria – No surplus
 - Chambers – Distributed to Trinity Bay Conservation District because 2006 RWP County-Other showed no growth through 2060
 - Fort Bend – No surplus
 - Harris – Surplus represented in County-Other
 - Montgomery – Allocated to all County-Other and utility WUGs based on rate of growth in 2006 RWP

Task 2 – Population and Water Demands 

Municipal Demand Projections


- Developed from population projections provided to TWDB
- In general, use per capita demand from 2006 RWP
- Include limited conservation savings from conservation programs, resulting in a decreasing per capita demand over time


Task 2 – Population and Water Demands 

Survey Results

WUGs given the opportunity to review projections.

- Developed online database to receive WUG responses
- Received 29 responses from 232 mail-outs – 12.5%
- WUGs informed of criteria to revise projections
 - Credible population estimates such as SDC, expanded service areas
 - More representative DOR condition for per capita demands
- Redeveloped population and demand projections based on input from WUGs



Task 2 – Population and Water Demands 


Survey Results

29 WUGs that responded to Survey by Deadline

10 WUGs requested Changes

- 9 WUGs requested population changes
 - City of Montgomery – Fort Bend County MUD #69
 - City of Panorama Village – Montgomery County MUD #8
 - City of Sugar Land – Montgomery County MUD #9
 - Crosby MUD – Riverside WSC
 - Fort Bend County MUD #67
- 6 WUGs requested per capita changes
 - City of Montgomery – Fort Bend County MUD #67
 - City of Panorama Village – Fort Bend County MUD #69
 - City of Sugar Land – North Fort Bend Water Authority


19 WUGs approved the projections provided in the mail-out

Task 2 – Population and Water Demands 

WUG Population Requests – Fort Bend County

WUG	Projection	2010	2020	2030	2040	2050	2060
FBC MUD #67	Draft	3,306	3,306	3,306	3,306	3,306	3,306
	WUG	3,759	3,759	3,759	3,759	3,759	3,759
FBC MUD #69	Draft	1,701	1,701	1,701	1,701	1,701	1,701
	WUG	2,086	2,086	2,086	2,086	2,086	2,086
Sugar Land	Draft	89,426	89,426	89,426	89,426	89,426	89,426
	WUG	83,819	101,422	105,000	105,000	105,000	105,000


- Adjustments were made to the County-Other WUG to account for the net differences except for Fort Bend County Planning Decade 2020.

Task 2 – Population and Water Demands 

WUG Population Requests – Harris County

WUG	Projection	2010	2020	2030	2040	2050	2060
Crosby MUD	Draft	3,162	3,162	3,162	3,162	3,162	3,162
	WUG	4,734	5,184	5,634	6,084	6,534	6,984


- Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands 

WUG Population Requests – Montgomery County

WUG	Projection	2010	2020	2030	2040	2050	2060
MC MUD #8	Draft	4,702	5,435	7,084	9,021	11,577	14,548
	WUG	4,060	5,336	6,532	6,967	6,886	6,829
MC MUD #9	Draft	3,290	3,936	5,388	7,093	9,345	11,962
	WUG	2,840	3,864	4,968	5,478	5,559	5,616
Panorama Village	Draft	2,538	2,888	3,572	3,913	3,913	3,913
	WUG	2,160	2,281	2,402	2,523	2,644	2,765
Montgomery	Draft	927	1,290	1,729	2,213	2,851	3,592
	WUG	1,200	5,000	7,500	10,000	12,500	15,000


- Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands 

WUG Population Requests – San Jacinto County

WUG	Projection	2010	2020	2030	2040	2050	2060
Riverside WSC	Draft	1,887	2,542	3,066	3,393	3,582	3,668
	WUG	2,017	2,542	3,066	3,950	4,485	5,011


- Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands 

WUG Population Requests – Walker County


WUG	Projection	2010	2020	2030	2040	2050	2060
Riverside WSC	Draft	4,184	4,612	4,819	4,768	4,780	4,780
	WUG	4,472	4,612	4,819	5,550	5,985	6,530

- Adjustments were made to the County-Other WUG to account for the net differences.

Task 2 – Population and Water Demands 


Published Projections

- Posted on Region H Water website on April 22 for public review and comment
- Include all requests for changes made up to deadline
- Detailed WUG-level projections provided in handouts
- These projections have been informally reviewed by TWDB for future consideration

Task 2 – Population and Water Demands 


Water Demand – Austin County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	27,173	30,574	32,946	34,355	35,031	35,958
	2011	27,173	30,574	32,946	34,355	35,031	35,958
Municipal	2006	3,918	4,258	4,494	4,590	4,639	4,756
	2011	4,123	4,658	5,027	5,191	5,278	5,446
Irrigation	2006	10,617	10,617	10,617	10,617	10,617	10,617
	2011	10,617	10,617	10,617	10,617	10,617	10,617
Livestock	2006	1,615	1,615	1,615	1,615	1,615	1,615
	2011	1,615	1,615	1,615	1,615	1,615	1,615
Manufacturing	2006	210	233	253	272	288	313
	2011	210	233	253	272	288	313
Mining	2006	51	56	59	62	65	67
	2011	51	56	59	62	65	67
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	16,411	16,779	17,038	17,156	17,224	17,368
	2011	16,616	17,179	17,571	17,757	17,863	18,058

Task 2 – Population and Water Demands 

Water Demand – Brazoria County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	285,850	331,731	375,664	416,157	459,078	503,894
	2011	305,649	354,708	401,684	444,981	490,875	538,795
Municipal	2006	44,685	50,822	56,754	62,022	68,202	74,967
	2011	47,184	53,523	59,656	65,134	71,567	78,598
Irrigation	2006	135,033	123,115	118,544	115,788	115,788	115,788
	2011	135,033	123,115	118,544	115,788	115,788	115,788
Livestock	2006	1,614	1,614	1,614	1,614	1,614	1,614
	2011	1,614	1,614	1,614	1,614	1,614	1,614
Manufacturing	2006	260,239	286,554	309,841	333,348	354,093	379,241
	2011	260,239	286,554	309,841	333,348	354,093	379,241
Mining	2006	4,104	4,502	4,737	4,969	5,201	5,419
	2011	4,104	4,502	4,737	4,969	5,201	5,419
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	445,675	466,607	491,490	517,741	544,898	577,029
	2011	448,174	469,308	494,392	520,853	548,263	580,660

Task 2 – Population and Water Demands 

Water Demand – Chambers County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	31,375	37,328	42,867	47,667	52,535	57,521
	2011	34,282	40,786	46,838	52,083	57,402	62,850
Municipal	2006	4,625	5,438	6,180	6,824	7,506	8,249
	2011	4,985	5,854	6,648	7,338	8,067	8,863
Irrigation	2006	117,777	117,777	117,777	117,777	117,777	117,777
	2011	117,777	117,777	117,777	117,777	117,777	117,777
Livestock	2006	462	462	462	462	462	462
	2011	462	462	462	462	462	462
Manufacturing	2006	11,802	12,959	13,987	15,011	15,932	17,122
	2011	11,802	12,959	13,987	15,011	15,932	17,122
Mining	2006	37,422	40,532	42,427	44,286	46,130	47,742
	2011	37,422	40,532	42,427	44,286	46,130	47,742
Steam Electric Power	2006	4,435	3,536	4,134	4,863	5,751	6,834
	2011	4,435	3,536	4,134	4,863	5,751	6,834
TOTAL	2006	176,523	180,704	184,967	189,223	193,558	198,186
	2011	176,883	181,120	185,435	189,737	194,119	198,800

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Fort Bend County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	490,072	630,624	802,486	979,196	1,210,945	1,475,761
	2011	545,883	715,275	893,875	1,090,710	1,348,851	1,643,825
Municipal	2006	89,579	111,680	138,770	165,904	202,470	245,404
	2011	98,180	123,852	149,894	178,496	217,213	263,055
Irrigation	2006	53,455	53,455	53,455	53,455	53,455	53,455
	2011	53,455	53,455	53,455	53,455	53,455	53,455
Livestock	2006	1,171	1,171	1,171	1,171	1,171	1,171
	2011	1,171	1,171	1,171	1,171	1,171	1,171
Manufacturing	2006	6,863	7,199	7,468	7,685	7,829	7,410
	2011	6,863	7,199	7,468	7,685	7,829	7,410
Mining	2006	3,010	3,070	3,105	3,138	3,169	3,196
	2011	3,010	3,070	3,105	3,138	3,169	3,196
Steam Electric Power	2006	66,026	68,046	79,553	93,582	110,682	131,527
	2011	66,026	68,046	79,553	93,582	110,682	131,527
TOTAL	2006	220,104	244,621	283,522	324,935	378,776	442,163
	2011	228,705	256,793	294,646	337,527	393,519	459,814

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Galveston County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	268,714	284,731	294,218	298,057	300,915	302,774
	2011	268,714	284,731	294,218	298,057	300,915	302,774
Municipal	2006	46,090	47,390	47,818	47,487	47,393	47,641
	2011	46,090	47,390	47,818	47,487	47,393	47,641
Irrigation	2006	10,342	10,342	10,342	10,342	10,342	10,342
	2011	10,342	10,342	10,342	10,342	10,342	10,342
Livestock	2006	325	325	325	325	325	325
	2011	325	325	325	325	325	325
Manufacturing	2006	41,005	44,330	47,046	49,692	51,967	55,491
	2011	41,005	44,330	47,046	49,692	51,967	55,491
Mining	2006	265	279	286	293	300	307
	2011	265	279	286	293	300	307
Steam Electric Power	2006	5,034	4,013	4,692	5,519	6,528	7,757
	2011	5,034	4,013	4,692	5,519	6,528	7,757
TOTAL	2006	103,061	106,679	110,509	113,658	116,855	121,863
	2011	103,061	106,679	110,509	113,658	116,855	121,863

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Harris County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	3,951,682	4,502,786	5,053,890	5,604,994	6,156,098	6,707,202
	2011	4,078,231	4,629,335	5,180,439	5,731,543	6,282,647	6,833,751
Municipal	2006	677,684	756,765	834,747	915,339	999,189	1,089,188
	2011	706,813	785,055	863,902	942,276	1,024,102	1,112,393
Irrigation	2006	15,300	15,300	15,300	15,300	15,300	15,300
	2011	15,300	15,300	15,300	15,300	15,300	15,300
Livestock	2006	1,133	1,133	1,133	1,133	1,133	1,133
	2011	1,133	1,133	1,133	1,133	1,133	1,133
Manufacturing	2006	395,997	424,761	449,218	470,881	487,094	478,957
	2011	395,997	424,761	449,218	470,881	487,094	478,957
Mining	2006	1,282	1,434	1,529	1,624	1,720	1,805
	2011	1,282	1,434	1,529	1,624	1,720	1,805
Steam Electric Power	2006	7,728	23,962	28,015	32,955	38,977	46,317
	2011	7,728	23,962	28,015	32,955	38,977	46,317
TOTAL	2006	1,099,124	1,223,355	1,329,942	1,437,232	1,543,413	1,632,700
	2011	1,128,253	1,251,645	1,359,097	1,464,169	1,568,326	1,655,905

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Leon County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	18,231	21,137	22,863	22,971	22,809	23,028
	2011	18,231	21,137	22,863	22,971	22,809	23,028
Municipal	2006	2,122	2,364	2,475	2,441	2,400	2,422
	2011	2,128	2,376	2,489	2,456	2,414	2,437
Irrigation	2006	542	542	542	542	542	542
	2011	542	542	542	542	542	542
Livestock	2006	1,691	1,691	1,691	1,691	1,691	1,691
	2011	1,691	1,691	1,691	1,691	1,691	1,691
Manufacturing	2006	714	842	967	1,093	1,207	1,313
	2011	714	842	967	1,093	1,207	1,313
Mining	2006	1,517	1,464	1,435	1,409	1,384	1,364
	2011	1,517	1,464	1,435	1,409	1,384	1,364
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	6,586	6,903	7,110	7,176	7,224	7,332
	2011	6,592	6,915	7,124	7,191	7,238	7,347

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Liberty County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	81,930	94,898	107,335	119,519	132,875	147,845
	2011	81,930	94,898	107,335	119,519	132,875	147,845
Municipal	2006	10,283	11,370	12,401	13,455	14,670	16,176
	2011	10,470	11,759	12,980	14,211	15,629	17,362
Irrigation	2006	82,901	82,901	82,901	82,901	82,901	82,901
	2011	82,901	82,901	82,901	82,901	82,901	82,901
Livestock	2006	757	757	757	757	757	757
	2011	757	757	757	757	757	757
Manufacturing	2006	393	465	537	611	678	736
	2011	393	465	537	611	678	736
Mining	2006	8,730	8,753	8,766	8,778	8,790	8,800
	2011	8,730	8,753	8,766	8,778	8,790	8,800
Steam Electric Power	2006	2,962	4,240	4,957	5,831	6,896	8,195
	2011	2,962	4,240	4,957	5,831	6,896	8,195
TOTAL	2006	106,026	108,486	110,319	112,333	114,992	117,565
	2011	106,213	108,875	110,898	113,089	115,851	118,751

Task 2 – Population and Water Demands

REGION H
Water Planning Group

Water Demand – Madison County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	13,905	14,873	15,644	16,364	17,002	17,560
	2011	13,905	14,873	15,644	16,364	17,002	17,560
Municipal	2006	1,792	1,864	1,918	1,952	2,007	2,072
	2011	1,793	1,867	1,921	1,954	2,010	2,075
Irrigation	2006	19	19	19	19	19	19
	2011	19	19	19	19	19	19
Livestock	2006	750	750	750	750	750	750
	2011	750	750	750	750	750	750
Manufacturing	2006	260	289	316	343	367	398
	2011	260	289	316	343	367	398
Mining	2006	24	24	24	24	24	24
	2011	24	24	24	24	24	24
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	2,845	2,946	3,027	3,088	3,167	3,263
	2011	2,846	2,949	3,030	3,090	3,170	3,266

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – Montgomery County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	417,692	542,051	692,548	858,410	1,077,190	1,331,286
	2011	453,369	588,351	751,702	931,732	1,169,199	1,444,999
Municipal	2006	68,638	90,346	111,441	133,994	164,466	200,243
	2011	74,350	98,430	121,683	146,476	179,791	218,933
Irrigation	2006	66	66	66	66	66	66
	2011	66	66	66	66	66	66
Livestock	2006	510	510	510	510	510	510
	2011	510	510	510	510	510	510
Manufacturing	2006	2,045	2,332	2,608	2,883	3,126	3,392
	2011	2,045	2,332	2,608	2,883	3,126	3,392
Mining	2006	480	509	526	543	559	573
	2011	480	509	526	543	559	573
Steam Electric Power	2006	5,046	8,537	9,981	11,741	13,886	16,502
	2011	5,046	8,537	9,981	11,741	13,886	16,502
TOTAL	2006	76,785	102,300	125,132	149,737	182,613	221,286
	2011	82,497	110,384	135,374	162,219	197,938	239,976

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – Polk County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	37,650	42,196	45,779	48,561	51,535	54,380
	2011	37,650	42,196	45,779	48,561	51,535	54,380
Municipal	2006	4,859	5,230	5,486	5,662	5,913	6,205
	2011	5,062	5,632	6,046	6,335	6,693	7,088
Irrigation	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
Livestock	2006	134	134	134	134	134	134
	2011	134	134	134	134	134	134
Manufacturing	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
Mining	2006	29	31	32	33	34	35
	2011	29	31	32	33	34	35
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	5,022	5,395	5,652	5,829	6,081	6,374
	2011	5,225	5,797	6,212	6,502	6,861	7,257

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – San Jacinto County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	27,443	32,541	36,617	39,159	40,630	41,299
	2011	27,443	32,541	36,617	39,159	40,630	41,299
Municipal	2006	3,161	3,622	3,972	4,158	4,262	4,329
	2011	3,995	4,591	5,016	5,087	5,118	5,076
Irrigation	2006	667	667	667	667	667	667
	2011	667	667	667	667	667	667
Livestock	2006	284	284	284	284	284	284
	2011	284	284	284	284	284	284
Manufacturing	2006	48	52	56	60	63	68
	2011	48	52	56	60	63	68
Mining	2006	30	29	28	27	26	26
	2011	30	29	28	27	26	26
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	4,190	4,654	5,007	5,196	5,302	5,374
	2011	5,024	5,623	6,051	6,125	6,158	6,121

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – Trinity County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	11,571	12,485	12,786	12,631	12,131	11,673
	2011	11,571	12,485	12,786	12,631	12,131	11,673
Municipal	2006	1,203	1,260	1,255	1,206	1,145	1,102
	2011	1,203	1,260	1,255	1,206	1,145	1,102
Irrigation	2006	467	467	467	467	467	467
	2011	467	467	467	467	467	467
Livestock	2006	211	211	211	211	211	211
	2011	211	211	211	211	211	211
Manufacturing	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
Mining	2006	6	6	6	6	6	6
	2011	6	6	6	6	6	6
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	1,887	1,944	1,939	1,890	1,829	1,786
	2011	1,887	1,944	1,939	1,890	1,829	1,786

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – Walker County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	70,672	77,915	81,402	80,547	80,737	80,737
	2011	70,672	77,915	81,402	80,547	80,737	80,737
Municipal	2006	16,512	17,941	18,516	18,146	18,097	18,097
	2011	21,879	24,244	25,074	23,575	22,971	22,251
Irrigation	2006	11	11	11	11	11	11
	2011	11	11	11	11	11	11
Livestock	2006	632	632	632	632	632	632
	2011	632	632	632	632	632	632
Manufacturing	2006	3,208	3,718	4,188	4,666	5,083	5,517
	2011	3,208	3,718	4,188	4,666	5,083	5,517
Mining	2006	13	13	13	13	13	13
	2011	13	13	13	13	13	13
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	20,376	22,315	23,360	23,468	23,836	24,270
	2011	25,743	28,618	29,918	28,897	28,710	28,424

Task 2 – Population and Water Demands REGION II Water Planning Group

Water Demand – Waller County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	41,137	51,175	62,352	74,789	89,598	106,608
	2011	41,137	51,175	62,352	74,789	89,598	106,608
Municipal	2006	5,393	6,310	7,380	8,530	10,016	11,757
	2011	5,713	7,003	8,469	10,084	12,093	14,454
Irrigation	2006	22,978	22,978	22,978	22,978	22,978	22,978
	2011	22,978	22,978	22,978	22,978	22,978	22,978
Livestock	2006	939	939	939	939	939	939
	2011	939	939	939	939	939	939
Manufacturing	2006	89	101	112	123	133	144
	2011	89	101	112	123	133	144
Mining	2006	80	80	80	80	80	80
	2011	80	80	80	80	80	80
Steam Electric Power	2006	0	0	0	0	0	0
	2011	0	0	0	0	0	0
TOTAL	2006	29,479	30,408	31,489	32,650	34,146	35,898
	2011	29,799	31,101	32,578	34,204	36,223	38,595

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Water Demand – Region H Total

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	5,775,097	6,707,045	7,679,397	8,653,377	9,739,109	10,897,526
	2011	6,015,840	6,990,980	7,986,480	8,998,002	10,132,237	11,346,082
Municipal	2006	980,544	1,116,660	1,253,607	1,391,710	1,552,375	1,732,608
	2011	1,033,968	1,177,494	1,317,878	1,457,306	1,621,483	1,806,775
Irrigation	2006	450,175	438,257	433,686	430,930	430,930	430,930
	2011	450,175	438,257	433,686	430,930	430,930	430,930
Livestock	2006	12,228	12,228	12,228	12,228	12,228	12,228
	2011	12,228	12,228	12,228	12,228	12,228	12,228
Manufacturing	2006	722,873	783,835	836,597	886,668	927,860	950,102
	2011	722,873	783,835	836,597	886,668	927,860	950,102
Mining	2006	57,043	60,782	63,053	65,285	67,501	69,457
	2011	57,043	60,782	63,053	65,285	67,501	69,457
Steam Electric Power	2006	91,231	112,334	131,332	154,491	182,720	217,132
	2011	91,231	112,334	131,332	154,491	182,720	217,132
TOTAL	2006	2,314,094	2,524,096	2,730,503	2,941,312	3,173,614	3,412,457
	2011	2,367,518	2,584,930	2,794,774	3,006,908	3,242,722	3,486,624

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Population and Water Demand Approval

- Approval of population and water demands by the RWPG is required before submittal for TWDB approval
- Projections were posted 14 days in advance of this meeting, per 31 TAC 357.5 (d) (2)
- Once approved, projections will be submitted to TWDB for consideration and approval, unless valid requests for revisions are made within next 14 days

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Population and Water Demand Approval

- A valid request for a demand revision will require a revised set of projections to be re-approved at a subsequent meeting following another posting of no less than 14 days
- Comments already received and are available for consideration
- Consultant team to evaluate additional revision requests, if any, and bring recommendations back to the RWPG at next meeting

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Requirements for Requesting a Revision

- Population Projections
 - Including, but not limited to the following justifications:
 - population estimates of the Texas State Data Center, or other credible sources, are greater than projected populations used in the 2007 state water plan for the year 2010;
 - population growth rates for a sub-county area as tabulated by the Texas SDC over the most recent five years is substantially greater than growth rates reported by the U.S. Census Bureau between 1990 and 2000;
 - cities have annexed additional land since the 2000 Census; or
 - water utilities have expanded their service areas since last updated by the Texas Commission on Environmental Quality.
- Per Capita Demand
 - if acceptable data sources indicate that a measured gallons per capita per day from years prior to 2000 *is more representative of drought of record conditions*

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Comments Received Since April 22nd

- Revised Population and Demand Projections
 - Fort Bend County MUD 23
 - City of Huntsville (Walker)
 - Northwest Park MUD (Harris)
 - City of Richmond (Fort Bend)
 - City of Shenandoah (Montgomery)
 - West Harris County Regional Water Authority (Harris/Fort Bend)
- General Comments
 - Lone Star Groundwater Conservation District

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Additional Requests for Revised Projections

- Fort Bend County MUD 23
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	5,968	9,084	12,895	16,813	21,952	27,824
WUG	12,600	18,000	18,000	18,000	18,000	18,000

REGION II
Water Planning Group

Task 2 – Population and Water Demands

Additional Requests for Revised Projections

- City of Huntsville
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	40,141	44,255	46,236	45,750	45,858	45,858
WUG	42,888	52,424	64,088	78,348	95,780	117,090

Project significant growth

- Insufficient population in County-Other to reallocate
- TWDB projections for Walker County already overestimating population, per SDC

- Submitted revised per capita demands
 - 175 gpcd proposed
 - 130 gpcd originally used by TWDB

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS

REGION II
Water Planning Group

Task 2 – Population and Water Demands

Additional Requests for Revised Projections

- Northwest Park MUD
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	10,099	12,271	13,522	14,760	15,990	17,216
WUG	24,031	29,106	29,992	29,992	29,992	29,992

- Submitted revised per capita demands
 - 247 gpcd proposed
 - 112 gpcd originally used by TWDB

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS

REGION II
Water Planning Group

Task 2 – Population and Water Demands

Additional Requests for Revised Projections

- City of Richmond
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	15,891	19,713	24,386	29,191	35,492	42,692
WUG	12,084	13,243	14,388	15,426	16,465	17,505

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS

REGION II
Water Planning Group

Task 2 – Population and Water Demands

Additional Requests for Revised Projections

- City of Shenandoah
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	2,561	3,437	4,497	5,666	7,208	8,998
WUG	5,123	5,998	7,059	8,228	9,770	11,560

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS

REGION II
Water Planning Group

Task 2 – Population and Water Demands

Additional Requests for Revised Projections

- West Harris County Regional Water Authority
 - Submitted revised population projections

Projection	2010	2020	2030	2040	2050	2060
Draft	327,396	380,555	420,867	449,709	460,478	471,138
WUG	334,247	388,438	430,917	462,730	477,424	484,587

- Submitted revised per capita demands
 - 169 gpcd proposed
 - 151 gpcd originally used by TWDB

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS


REGION II
Water Planning Group

Task 2 – Population and Water Demands

Letter from Lone Star GCD


- Recognizes that increased population in Montgomery will further accentuate the difficulty of maintaining annual target for groundwater pumpage
- Concern for WUGs that are approaching build-out
 - LSGCD has urged WUGs to participate in survey process
- Urges the use of the best available methodology for developing projections

LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS - LATE AVAILABILITY - NOT INCLUDED IN MEETING MATERIALS

Task 2 – Population and Water Demands 

Public Comment

- **Item 5:** Receive public comment on Item 4 (Population and water demand projections)

Task 2 – Population and Water Demands 


Approval of Population and Water Demands

- **Item 6:** Consider and take action on approving the submittal of revised population and water demand projections to the Texas Water Development Board.
 - Approval of Draft posted numbers
 - Approval of comments received since posting
 - Comments may be approved individually by group
 - City of Huntsville may not be approved by TWDB. If not approved, the projections for Huntsville will reflect 2006 RWP projections.



Task 3
Water Supply Analysis




Task 3 – Water Supply Analysis 

New Supply Sources

- Lake Houston Additional Yield
 - 28,200 acre-ft/year
 - 50% COH, 50% SJRA
 - Date Issued: 12/3/2008
 - 2006 Plan:
 - WMS ID: H15-HOUYLD10
 - Allocated to Katy, NHCRWA, Tomball
 - WMS Supply (acre-ft/year):


Year	2010	2020	2030	2040	2050	2060
Supply (acre-ft/year)	27,000	22,000	17,000	12,000	7,000	2,000

Task 3 – Water Supply Analysis 

Firm Yield Determination

31 TAC 357.7 (a) (3) (C)

“The planning group shall use available Texas Commission on Environmental Quality water availability models for evaluating the adequacy of surface water supplies. The planning group shall assume full utilization of existing water rights and no return flows when using the water availability models and the group may use better site specific information upon written approval from the executive administrator. Until information is provided by the Texas Commission on Environmental Quality, regional water planning groups may use estimates of the projected amount of surface water that would be available from existing water rights during a drought of record. Once this information is available from the Texas Commission on Environmental Quality, the regional water planning group shall incorporate it in its next planning cycle unless better site-specific information is available.”

Task 3 – Water Supply Analysis 

Modified Firm Yield Determination

- March 31, 2009 TWDB approved request to use modified supply analyses.
- Trinity and Brazos yield analyses in both 2006 and 2011 Plans contain limited return flows as in Region C and G models
- Determination of firm yield for run-of-river rights
 - 2006 RWP – Minimum Annual Diversion
 - 2011 RWP – Monthly Basis
- Coordinate with major water rights holders to determine appropriate basis for determining yield

Task 3 – Water Supply Analysis **REGION H**
Water Planning Group

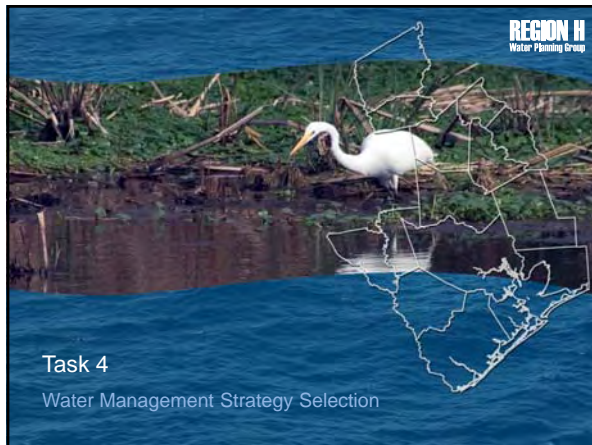
Region C Coordination – Upper Trinity Basin Return Flows

- Conference call held with Region C Consultants
 - Tom Gooch (Freese & Nichols, Inc)
- Draft Region C Water Conservation and Reuse Study (December 2008)
 - Potential reductions in return flows in region H for the 2011 plan.

Task 3 – Water Supply Analysis **REGION H**
Water Planning Group

Region G Coordination – Brazos G WAM Updates

- Met with BRA & HDR
 - Received Memo outlining 2011 Brazos G WAM assumptions from HDR
 - Received updated list of Region H contracts from BRA
- Return Flows
 - Slight reduction due to increased direct reuse
 - Specific requests from Bryan and College Station
- Region G Consultant (HDR) will transmit the updated Brazos G WAMs for Region H supply analysis



Task 4
Water Management Strategy Selection

REGION H
Water Planning Group

Task 4 – WMS Selection **REGION H**
Water Planning Group

Planning Group is required to document how WMS selection will be performed, per 31 TAC 357.5 (e) (4)

provide specific recommendations of water management strategies based upon identification, analysis, and comparison of all water management strategies the regional water planning group determines to be potentially feasible so that the cost effective water management strategies which are environmentally sensitive are considered and adopted unless the regional water planning group demonstrates that adoption of such strategies is not appropriate. To determine cost-effectiveness, the regional water planning groups will use the process described in §357.7(a)(8)(A)(i) of this title (relating to Regional Water Plan Development) and, to determine environmental sensitivity, the regional water planning groups shall use the process described in §357.7(a)(8)(A)(ii) of this title. Before a regional water planning group begins the process of identifying potentially feasible water management strategies, it shall document the process by which it will list all possible water management strategies and identify the water management strategies that are potentially feasible for meeting a need in the region. Once this process is identified, the regional water planning group shall present it to the public for comment at the public meeting required by §357.12(a)(1) of this title (relating to Notice and Public Participation).

Task 4 – WMS Selection **REGION H**
Water Planning Group

General Process for WMS Selection

- Shortage analysis
 - Performed under Task 3
- Application of General WMS
 - Increased groundwater use
 - Increase existing contracts
 - Conservation

Task 4 – WMS Selection **REGION H**
Water Planning Group

General Process for WMS Selection

- Identification/Selection of WMS to Add New Water Supplies
 - Development of matrix to evaluate:
 - Suitability of strategy
 - Environmental impacts
 - Cost

Task 4 – WMS Selection **REGION H**
Water Planning Group

General WMS

- Represent strategies that can be applied without the development of new water supplies.
- Can be applied at the WUG level and do not require WWP sponsorship.
- Many WUG shortages can be met by increasing surface water contracts if WWP surplus exists.
 - Applied to 43 WUG units in 2006 RWP

Task 4 – WMS Selection **REGION H**
Water Planning Group

General WMS

- It is required that conservation be considered
 - Applied to 133 WUG units in 2006 RWP
- New wells where groundwater is available
 - Applied to 280 WUG units in the 2006 RWP

Task 4 – WMS Selection **REGION H**
Water Planning Group

Existing 2006 WMS

- Evaluate validity of existing strategies
 - WUG sponsorship and agreement of WMS
 - Technical feasibility
 - New information from WUG and/or water providers
 - Outreach to better achieve consistency with plan
- Already evaluated in decision matrix last round

Task 4 – WMS Selection **REGION H**
Water Planning Group

WMS Selection Methodology – New Projects

CATEGORY	RATING CRITERIA		
	-1	0	1
Cost	>\$200/ac-ft	<\$200/ac-ft	<\$100/ac-ft
Yield	Size is too small or too large for need	Size is flexible or meets needs	Size can be adjusted to optimum
Location	IBT required, long distance or outside Region H.	No IBT required. Conveyance required.	No IBT required. Relatively near demand.
Water Quality	Quality of supply is reduced.	No known water quality issues.	Existing water quality problems are reduced.
Environmental Land & Habitat	Significant environmental issues and opposition.	Environmental impacts can be mitigated. Limited concerns.	Limited or no known impacts.
Local Preference	No local support. Significant opposition.	Some local support. Limited opposition.	Widespread local support. Multi-use benefits likely.
Institutional Constraints / Risk of Implementability	Permits opposed. Significant property required.	Permits expected with minimal problems. Property available.	Permits issued. Facilities or land owned. Water available.
Impacts on Environmental Flows	Reduces instream or B&E flows.	No impact.	Increases instream or B&E flows.
Impacts on Other Management Strategies	Negative impact.	No impact.	Positive impact.

Task 4 – WMS Selection **REGION H**
Water Planning Group

Alternative Strategies

- Will be identified when:
 - Choice in long-term supply solutions is uncertain
 - WMS are comparable in qualitative value
 - Called for in SOW
- SOW includes a subtask to identify alternative strategies

Task 4 – WMS Selection **REGION H**
Water Planning Group

Alternative Strategies

- Strategies for selection include, but are not limited to:
 - Storage to enhance yields from ROR supplies
 - Aquifer storage and recovery (ASR)
 - Brackish water desalination
- Alternative WMS to be selected using same strategy matrix used for new strategies

Task 4 – WMS Selection REGION H
Water Planning Group

Approval of WMS Selection Strategy

- **Item 9:** Consider and take action approving the WMS selection approach described under Item 8

REGION H
Water Planning Group



Task 6
Water Conservation and
Drought Management

Task 6 – Water Conservation and Drought Management REGION H
Water Planning Group

Water Conservation Survey

- Mailed surveys to 232 WUGs
- Identify:
 - Conservation measures implemented
 - Identify measures considered for future implementation
 - Startup and Operating Costs associated with each measure
 - Estimated Water Savings
- Information gained from surveys will be used to update conservation strategies.
- Request responses to survey by May 15th

Appendix 10D

Public Hearing Materials
July 1, 2009

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Contents – July 1, 2009 Public Meeting

1. **Public Notice**
2. **Presentation**



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
c/o San Jacinto River Authority
P. O. Box 329, Conroe, Texas 77305
Telephone 936-588-1111 Facsimile 936-588-3043

**Notice of Public Meeting and Opportunity to Comment
on Proposed Population and Water Demand Projections to
Update the Region H Regional Water Plan
June 10, 2009**

On May 6, 2009, the 15-county Region H Water Planning Group (RHWP) adopted projected population and water demands for most Water User Groups (WUGs) in the region. For a few WUGs, comments and documentation were submitted that required revisions of the projections for those WUGs. These revisions have been made and will be incorporated into the regional projections for discussion and approval at the regular meeting of the RHWP to be held on July 1, 2009. Both the proposed revisions and the projections adopted on May 6, are available for review at the RHWP website www.regionhwater.org.

Projected population and water demands for WUGs in the Region will be submitted to the Texas Water Development Board (TWDB) for approval, and will be used in preparing an updated Regional Water Plan which will be submitted to the Texas Water Development Board (TWDB) in 2011. The TWDB will consolidate the reports from the 16 Regional Water Planning Areas and report to the Texas Legislature not later than January 2012.

In accordance with rules of the Texas Water Development Board, the RHWP will receive comments from the public during its regular meeting to be held at 10:00 a.m., July 1, 2009, at the SJRA offices, 1577 Damsite Road, Conroe, Texas on the proposed population and water demand projections for those WUGs not previously approved. Action on the proposed projections is anticipated at that meeting. Comments may also be submitted by mail to the SJRA at the address below. Comments and documentation of requested changes must be received by July 16, 2009.

Reed Eichelberger, PE, General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

The current (2006) Region H Water Plan and draft materials for the 2011 Plan are available on the RHWP website at www.regionhwater.org. The 2006 Plan is also available on the TWDB website at www.twdb.state.tx.us.

For further information, please contact Glenda Callaway, 713-520-9031.



2011 Regional Water Plan Schedule

Date	Event	Items Due
02/04/09	RWPG Meeting	No Deliverables
05/06/09	RWPG Meeting	Population and Water Demand Projections for Consideration by RWPG
07/01/09	RWPG Meeting	Draft Chapters 2 and 3; Proposed Recommendations and Strategies for Consideration by RWPG
09/02/09	RWPG Meeting	Draft Chapters 4, 5, and 8
10/07/09	RWPG Meeting	Draft Chapters 1, 6, 7, and 9
12/02/09	RWPG Meeting	Draft Initially Prepared Plan
03/01/10	Due Date	Draft Final Initially Prepared Plan
09/01/10	Due Date	Regional Water Plan

- Focus for Today's Meeting**
- 1st Biennium Studies
 - Review TWDB comments to Draft reports
 - Task 2 – Population and Water Demands
 - New proposed demands for Huntsville, Richmond, and Fort Bend County Steam-Electric
 - Draft Chapter 2
 - Task 3 – Water Supply Analysis
 - Review firm yield analysis for water supplies
 - Review resource allocation and shortage analysis
 - Draft Chapter 3
 - Task 4 – Water Management Strategy Selection
 - Discuss WMS considered in 2006 RWP.

- 1st Biennium Special Studies**
- Environmental Flows Study
 - Drought Management Study
 - Interruptible Supply Study

- 1st Biennium Special Studies**
- Environmental Flows Study**
- Additional text to describe Frequency of Target Attainment (FTA) in Executive Summary
 - Clarification of Instream Flows Conclusion 3
 - Added data regarding the period of flow below Lyons
 - Criteria used were not clear indicators of degradation at locations examined
 - Detailed instream flow analysis not included in scope
 - Clarification of assessing Max H attainment
 - In reality flows can be too high as well
 - Optimal conditions when all 12 months in a year are at or near monthly targets
 - Minor editorial changes

- 1st Biennium Special Studies**
- Drought Management Study**
- Clarification on non-seasonal (indoor) water use assumption.
 - Assumption does not consider variations in city size and socioeconomic conditions
 - Assumption does not include influence of commercial and institutional water use.
 - Included text to clarify that figure was for illustration purposes only
 - Explanation of “months of remaining supply”
 - Based on formula below, not directly from WAM output
 - Projected Demand / Minimum Reservoir Storage
 - Clarification of Conclusion 6
 - Supply is made available on an interruptible basis
 - Not necessarily available every year or every month during the drought of record
 - Minor editorial changes

1st Biennium Special Studies **REGION H**
Water Planning Group

Interruptible Supply Study

- Added text to clarify that TWDB guidelines allow the use of "safe yield" if approved by the Executive Administrator.
- Clarification of monthly diversion test
 - "does not consider the magnitude of monthly diversions"
 - Monthly test only tests if a monthly diversion target is met
 - Does not consider the annual shortage
- Added text to clarify that over appropriation when considering drought of record conditions is indicated by the presence of:
 - large interruptible supplies
 - firm yields significantly lower than permitted diversions
- Included permitted amounts for water rights in the Colorado-Brazos Basin
 - Clarified that the "firm yield" is equal to the amount contracted to entities in Region H
- Minor editorial changes

1st Biennium Special Studies **REGION H**
Water Planning Group

- **Item 5:** Consider and take action on approving the *Environmental Flows Study Final Report* for submittal to the Texas Water Development Board (TWDB) on or before July 31, 2009.
- **Item 7:** Consider and take action on approving the *Drought Management Study Final Report* for submittal to the Texas Water Development Board (TWDB) on or before July 31, 2009.
- **Item 9:** Consider and take action on approving the *Interruptible Supply Study Final Report* for submittal to the Texas Water Development Board (TWDB) on or before July 31, 2009.



Task 2
Population and Water Demands

REGION H
Water Planning Group

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Items for Consideration

- General Comments
 - Brandt Mannchen
 - City of Sugar Land
- Revised Population and Demand Projections
 - City of Huntsville (Walker)
 - City of Richmond (Fort Bend)
 - North Fort Bend Water Authority
 - Steam-Electric Demands (Fort Bend)
- Approval of Population and Water Demands
- Approval of Draft Chapter 2

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

General Comments – Brandt Mannchen

- Methods used for showing the population and water demands for 2011 RWP
 - Addressed on Region H website with supporting material
- Power generation demands growing in direct proportion to population growth
 - RWPG agreed to adopt 2006 projections
- Sustainable growth of Region H
- Impacts of socio-economic factors on population growth

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

General Comments – City of Sugar Land

- Concerns over methods used in showing City annexation
 - Requested that areas proposed to be annexed into the City, such as MUDs, be shown as having a zero population and water demand projections in the decades following annexation while the City's projections would increase accordingly.
- Will be working with Sugar Land and other WUGs to account for future plans, including annexation.

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

City of Huntsville

- **Outstanding Issues**
 - Insufficient population in County-Other to reallocate
 - SDC estimates for Walker County below 2006 RWP projection
- **Prepared revised projections**
 - Retain City projections for near-term growth
 - Adopt growth from 2006 RWP for 2030 and beyond
 - Revised per capita based on service area (160 gpcd)

Huntsville Population						
Projection	2010	2020	2030	2040	2050	2060
Draft	40,141	44,255	46,236	45,750	45,858	45,858
WUG	42,888	52,424	54,405	54,405	54,405	54,405

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

City of Richmond

- **Outstanding Issues**
 - WUG projections below SDC 2007 estimate
- **Prepared revised projections**
 - Census growth rate from 2000-2007 is 2%, vs. 4.2% from SDC
 - Used Census growth rate for initial projection and adjusted based on changes in TWDB recommended population growth trend

Richmond Population						
Projection	2010	2020	2030	2040	2050	2060
Draft	15,891	19,713	24,386	29,191	35,492	42,692
WUG	13,493	14,212	17,257	20,334	25,149	30,295

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

North Fort Bend Water Authority

- **Outstanding Issues**
 - Revised per capita demand for 210 gpcd had not yet been applied to demands
- **Worked with TWDB to have the 210 gpcd considered and applied as a base per capita demand**

NFBWA Water Demand (Ac-Ft/Yr)						
Projection	2010	2020	2030	2040	2050	2060
Draft	1,636	1,597	1,537	1,458	1,361	1,254
WUG	1,636	1,566	1,557	1,626	1,660	1,640

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Fort Bend County Steam-Electric

- **Outstanding Issues**
 - Projections seem high for current operation of W.A. Parish Plant
- **Reviewed and confirmed current demands**
 - Demands represent worst-case scenario for diversions

Fort Bend County Steam-Electric Demands (Ac-Ft/Yr)						
Projection	2010	2020	2030	2040	2050	2060
Draft	66,026	68,046	79,553	93,582	110,682	131,527

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Water Demand – Fort Bend County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	490,072	630,624	802,486	979,196	1,210,945	1,475,761
	2011	545,883	715,275	893,875	1,090,710	1,348,851	1,643,825
Municipal	2006	89,579	111,680	138,770	165,904	202,470	245,404
	2011	109,869	143,023	174,552	208,691	251,533	300,689
Irrigation	2006	53,455	53,455	53,455	53,455	53,455	53,455
	2011	53,455	53,455	53,455	53,455	53,455	53,455
Livestock	2006	1,171	1,171	1,171	1,171	1,171	1,171
	2011	1,171	1,171	1,171	1,171	1,171	1,171
Manufacturing	2006	6,863	7,199	7,468	7,685	7,829	7,410
	2011	6,863	7,199	7,468	7,685	7,829	7,410
Mining	2006	3,010	3,070	3,105	3,138	3,169	3,196
	2011	3,010	3,070	3,105	3,138	3,169	3,196
Steam Electric Power	2006	66,026	68,046	79,553	93,582	110,682	131,527
	2011	66,026	68,046	79,553	93,582	110,682	131,527
TOTAL	2006	220,104	244,621	283,522	324,935	378,776	442,163
	2011	240,394	275,964	319,304	367,722	427,839	497,448

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Water Demand – Harris County

Type	RWP	2010	2020	2030	2040	2050	2060
Municipal Population	2006	3,951,682	4,502,786	5,053,890	5,604,994	6,156,098	6,707,202
	2011	4,078,231	4,629,335	5,180,439	5,731,543	6,282,647	6,833,751
Municipal	2006	677,684	756,765	834,747	915,339	999,189	1,089,188
	2011	709,300	789,397	868,320	948,412	1,030,899	1,119,593
Irrigation	2006	15,300	15,300	15,300	15,300	15,300	15,300
	2011	15,300	15,300	15,300	15,300	15,300	15,300
Livestock	2006	1,133	1,133	1,133	1,133	1,133	1,133
	2011	1,133	1,133	1,133	1,133	1,133	1,133
Manufacturing	2006	395,997	424,761	449,218	470,881	487,094	478,957
	2011	395,997	424,761	449,218	470,881	487,094	478,957
Mining	2006	1,282	1,434	1,529	1,624	1,720	1,805
	2011	1,282	1,434	1,529	1,624	1,720	1,805
Steam Electric Power	2006	7,728	23,962	28,015	32,955	38,977	46,317
	2011	7,728	23,962	28,015	32,955	38,977	46,317
TOTAL	2006	1,099,124	1,223,355	1,329,942	1,437,232	1,543,413	1,632,700
	2011	1,130,740	1,255,987	1,363,515	1,470,305	1,575,123	1,663,105

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Water Demand – Walker County

Type	RWP	2010	2020	2030	2040	2050	2060	
Municipal Population	2006	70,672	77,915	81,402	80,547	80,737	80,737	
	2011	70,672	77,915	81,402	80,547	80,737	80,737	
Water Demand (A-C-FYr)	Municipal	2006	16,512	17,941	18,516	18,146	18,097	18,097
		2011	16,920	16,607	17,244	16,240	16,042	15,786
	Irrigation	2006	11	11	11	11	11	11
		2011	11	11	11	11	11	11
	Livestock	2006	632	632	632	632	632	632
		2011	632	632	632	632	632	632
	Manufacturing	2006	3,208	3,718	4,188	4,666	5,083	5,517
		2011	3,208	3,718	4,188	4,666	5,083	5,517
	Mining	2006	13	13	13	13	13	13
		2011	13	13	13	13	13	13
	Steam Electric Power	2006	0	0	0	0	0	0
		2011	0	0	0	0	0	0
	TOTAL	2006	20,376	22,315	23,360	23,468	23,836	24,270
		2011	20,784	20,961	22,088	21,562	21,781	21,959

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Population and Water Demand Approval

- Approval of population and water demands by the RWPG is required before submittal for TWDB approval
- Projections were posted 14 days in advance of this meeting, per 31 TAC 357.5 (d) (2)
- Once approved, projections will be submitted to TWDB for consideration and approval, unless valid requests for revisions are made within next 14 days
- A valid request for a demand revision will require a revised set of projections to be re-approved at a subsequent meeting following another posting of no less than 14 days

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Public Comment

- **Item 11:** Receive public comment on Item 10 (Population and water demand projections)

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Approval of Population and Water Demands

- **Item 12:** Consider and take action on approving the submittal of revised population and water demand projections to the Texas Water Development Board.
 - Approval of Draft posted numbers, City of Huntsville and City of Richmond. If not approved, the projections for Huntsville and Richmond will reflect 2006 RWP projections.
 - Approval of comments received since posting
 - Comments may be approved individually by group

Task 2 – Population and Water Demands **REGION H**
Water Planning Group

Draft Chapter 2

- Prepared to summarize the development of population and water demand projections
- Informal approval to move forward from these tasks
 - Will be reviewed again in IPP
- Posted to Region H Website on June 17th
- **Item 13:** Consider and take action on approving the Draft Chapter 2 made available on the Region H website prior to the meeting



Task 3 – Water Supply Analysis

REGION H
Water Planning Group

Task 3 Items

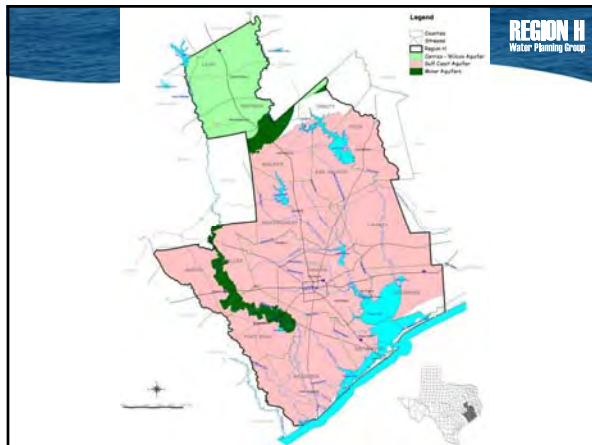
- Groundwater Supply
- Surface Water Supply
- Resource Allocation and Shortage Analysis
- Development of Chapter 3

Task 3 – Groundwater Supply

REGION H
Water Planning Group

Groundwater Supply

- Major Aquifers
 - Gulf Coast
 - Carrizo-Wilcox
- Minor Aquifers
 - Queen City
 - Sparta
 - Yegua-Jackson
 - Brazos River Alluvium



Task 3 – Groundwater Supply

REGION H
Water Planning Group

- Contacted Groundwater Conservation Districts and Subsidence Districts in Region H
- Reviewed Groundwater Management Areas Information (GMA-12 and GMA-14)
- Reviewed Groundwater Availability Models (GAMs) Utilization
- Obtained Current Estimates of Groundwater Availability Consistent with GMA and Groundwater or Subsidence District Efforts
- Updated the Previous Estimates of Groundwater Availability

Task 3 – Groundwater Supply

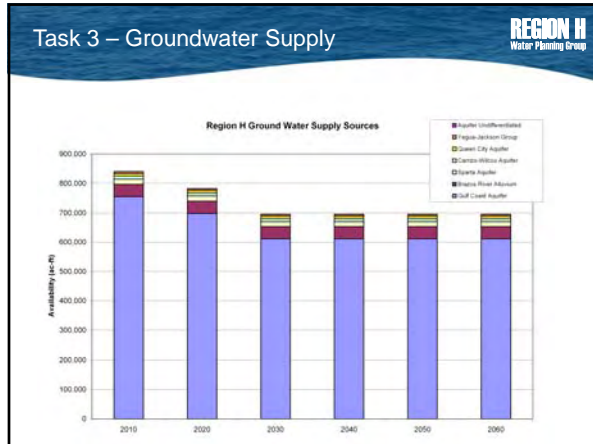
REGION H
Water Planning Group

County	Source	2000	2010	2020	2030	2040	2050	2060
Austin	Brazos River Alluvium	8,607	8,607	8,607	8,607	8,607	8,607	8,607
	Gulf Coast Aquifer	20,914	20,914	20,914	20,914	20,914	20,914	20,914
	County Total	29,521	29,521	29,521	29,521	29,521	29,521	29,521
Brazoria	Aquifer Undifferentiated	167	167	167	167	167	167	167
	Gulf Coast Aquifer	50,400	50,400	50,400	50,400	50,400	50,400	50,400
	County Total	50,567	50,567	50,567	50,567	50,567	50,567	50,567
Chambers	Gulf Coast Aquifer	23,001	23,001	23,001	23,001	23,001	23,001	23,001
	County Total	23,001	23,001	23,001	23,001	23,001	23,001	23,001
Fort Bend	Brazos River Alluvium	23,452	23,452	23,452	23,452	23,452	23,452	23,452
	Gulf Coast Aquifer	120,310	116,227	110,903	89,616	89,616	89,616	89,616
	County Total	143,762	140,119	134,355	113,070	113,070	113,070	113,070
Galveston	Gulf Coast Aquifer	5,208	5,106	5,024	4,274	4,274	4,274	4,274
	County Total	5,208	5,106	5,024	4,274	4,274	4,274	4,274
Harris	Gulf Coast Aquifer	394,075	340,932	288,996	222,700	222,700	222,700	222,700
	County Total	394,075	340,932	288,996	222,700	222,700	222,700	222,700
Leon	Carrizo-Wilcox Aquifer	6,995	6,264	5,726	5,005	5,549	5,558	5,558
	Queen City Aquifer	5,061	5,061	5,061	5,061	5,061	5,061	5,061
	Sparta Aquifer	7,392	7,392	7,392	7,392	7,392	7,392	7,392
	County Total	19,448	18,717	18,181	17,458	18,002	18,011	18,011
Liberty	Gulf Coast Aquifer	43,221	43,221	43,221	43,221	43,221	43,221	43,221
County Total	43,221	43,221	43,221	43,221	43,221	43,221	43,221	

Task 3 – Groundwater Supply

REGION H
Water Planning Group

County	Source	2000	2010	2020	2030	2040	2050	2060
Madison	Aquifer Undifferentiated	334	334	334	334	334	334	334
	Carrizo-Wilcox Aquifer	1,733	1,687	1,641	1,600	1,561	1,518	1,518
	Queen City Aquifer	2,770	2,770	2,770	2,770	2,770	2,770	2,770
	Sparta Aquifer	8,017	8,017	8,017	8,017	8,017	8,017	8,017
County Total	12,854	12,808	12,769	12,730	12,672	12,639	12,639	
Montgomery	Gulf Coast Aquifer	64,000	64,000	64,000	64,000	64,000	64,000	64,000
	County Total	64,000	64,000	64,000	64,000	64,000	64,000	64,000
Palo Verde	Gulf Coast Aquifer	18,417	18,417	18,417	18,417	18,417	18,417	18,417
	County Total	18,417	18,417	18,417	18,417	18,417	18,417	18,417
San Jacinto	Gulf Coast Aquifer	21,869	21,869	21,869	21,869	21,869	21,869	21,869
	County Total	21,869	21,869	21,869	21,869	21,869	21,869	21,869
Tarrant	Aquifer Undifferentiated	416	416	416	416	416	416	416
	Carrizo-Wilcox Aquifer	249	249	249	249	249	249	249
	Gulf Coast Aquifer	3,714	3,714	3,714	3,714	3,714	3,714	3,714
	Sparta Aquifer	246	246	246	246	246	246	246
County Total	4,635	4,634	4,634	4,634	4,634	4,634	4,634	
Walker	Aquifer Undifferentiated	200	200	200	200	200	200	200
	Carrizo-Wilcox Aquifer	2293	2293	2293	2293	2293	2293	2293
	Gulf Coast Aquifer	16,279	16,279	16,279	16,279	16,279	16,279	16,279
	Queen City Aquifer	75	75	75	75	75	75	75
	Sparta Aquifer	1760	1760	1760	1760	1760	1760	1760
County Total	26,507	26,507	26,507	26,507	26,507	26,507	26,507	
Waller	Brazos River Alluvium	9480	9480	9480	9480	9480	9480	9480
	Gulf Coast Aquifer	28,502	28,502	28,502	28,502	28,502	28,502	28,502
County Total	37,982	37,982	37,982	37,982	37,982	37,982	37,982	



- ### Task 3 – Groundwater Supply
- #### Groundwater Supply Summary
- Gulf Coast Aquifer Provides Vast Majority of Water
 - Approximately 70 Percent of Groundwater Availability Is In The Six Most Coastward Counties
 - Carrizo – Wilcox and Sparta Aquifers Are Important Water Resources in Leon and Madison Counties
 - Groundwater Continues to Provide a Sustainable and Locally Available Water Supply

- ### Task 3 – Surface Water Supply
- #### Update of Surface Water Supplies
- Pre Modeling
 - Coordination with Region C (Freese & Nichols)
 - Coordination with HDR (Region G)
 - Post Modeling
 - Presented Modeling Results to WWPs:
 - COH, SJRA, TRA, GCWA & CLCND
 - Major Basins:
 - Trinity, San Jacinto, Brazos & Neches River Basins
 - Trinity-San Jacinto, Neches-Trinity, Brazos-Colorado & San Jacinto-Brazos Coastal Basin

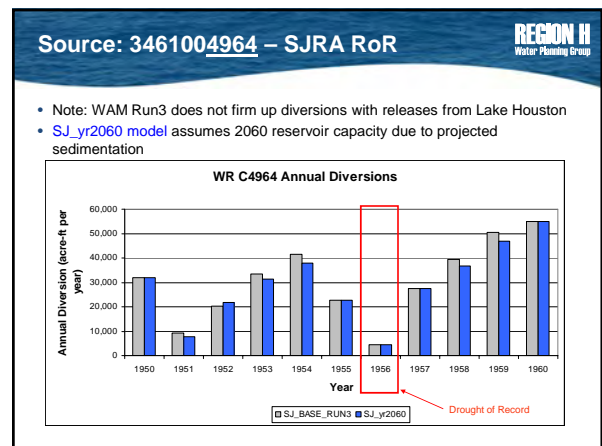
- ### Task 3 – Surface Water Supply
- #### Update of Surface Water Supplies
- Firm Yield Determination (Task 3.13)
 - Evaluation of surface water rights on a monthly basis for each planning decade (2010 to 2060)
 - Methodology
 - Perform Monthly Firm Yield Analysis for all basins
 - Perform Minimum Annual Diversion Analysis
 - Similar Methodology as 2006 Plan
 - Compare Results with 2006 Availability
 - WAM Models
 - TCEQ WAM Run 3 (Full Permitted Diversion, No Return Flows)
 - Brazos and Trinity Basin Models assume limited return flows


Task 3 – Surface Water Supply

SAN JACINTO BASIN

Source	Owner	2006 Plan (afy)	2011 Analysis (afy)	Change (afy)
10030	COH & SJRA - Lake Conroe	74,300	74,300 ¹	0
3461004964	SJRA – RoR	55,000	55,000 ²	0
10060	COH - Lake Houston	168,000	168,000 ²	0
10060	COH & SJRA - Lake Houston Additional Yield	2,000	10,000 ¹	8,000
3510170	SJRA- Indirect Reuse	14,944	14,944	0
TOTAL		314,244	322,244	8,000


1) Table shows 2060 Availability
 2) Based on agreed coordination between City of Houston and SJRA



Source: 3461004964 – SJRA RoR 

Supply Agreement for Lower San Jacinto Rights


- Held Meetings with City of Houston & SJRA
 - June, 2009
 - Discussed WR reliability and options for firming up both SJRA ROR and COH water rights in Lake Houston
- Recommended WR Availability
 - Recommend 55,000 acre-ft per year for SJRA ROR and 168,000 acre-feet per year for COH-Lake Houston
 - Based on agreement between COH and SJRA and available options for firming up rights
 - No change from 2006 Plan

Source: 10060 – Lake Houston Add. Yield 

- Permitted in Dec, 2008 by COH and SJRA
- Permitted Diversion: 28,200 acre-ft per year
- 2006 Plan: recommended 2,000 acre-ft per year (2060)
- 2011 Plan: **10,000** acre-ft per year (2060)

2011 Analysis


Decade	2010	2020	2030	2040	2050	2060
Minimum Annual Diversion	-	-	-	-	-	-
Firm Yield	17,500	16,000	14,500	13,000	11,500	10,000
Recommended Availability	17,500	16,000	14,500	13,000	11,500	10,000

Task 3 – Surface Water Supply 

TRINITY – SAN JACINTO BASIN

- TCEQ WAM Run 3 (full permitted use, no return flows)
- No significant change in total basin supply


Source	Owner	2006 Plan (afy)	2011 Analysis (afy)	Change (afy)
60903909	PVT IRR	685	769	84
60903918	PVT IRR	1,084	976	-108
60903922	PVT IRR	628	661	33
60903923	PVT IRR	626	694	68
60903924	PVT IRR	1,209	1,213	4
60903926	MFR	30,000	30,000	0
TOTAL		34,232	34,313	81

Task 3 – Surface Water Supply 

TRINITY BASIN


Source	Owner	2006 Plan	2011 Analysis	Change
3410805271A	DEVERS	2,500	2,500	0
3410805271B	SJRA	56,000	56,000	0
084H¹	TRA - LIVINGSTON-WALLISVILLE	403,200	403,200	0
084H¹	COH - LIVINGSTON-WALLISVILLE	940,800	940,800	0
3460804261	COH - OLD RIVER	26,510	26,510	0
3460804277	COH	33,000	33,000	0
3460804279B	CLCND	79,020	76,520	2,500
3460804279	SJRA	30,000	30,000	0
TOTAL		1,568,530	1,566,030	2,500

1) 2060 Firm Yield shown, Trinity Firm Yield Analysis was performed for each decade.

Task 3 – Surface Water Supply 

Lake Livingston Firm Yield

- Desktop Analysis
 - Review 2006 Region C Plan
 - Identify WMSs That May Reduce Return Flows
 - Estimate Annual Return Flow Available to Region H
- Firm Yield Analysis
 - Update WAM with Projected Return Flows
 - Determine Firm Yield of Lake Livingston
 - Determine Necessary Level of Return Flows
 - Evaluate Excess or Shortfall of Return Flows

Task 3 – Surface Water Supply 

Desktop Analysis of Projected Return Flows

- Region C Reports:
 - 2006 Region C Water Plan
 - 2008 Region C Water Conservation and Reuse Study
 - Updated with information collected from WW dischargers
 - More consumptive use of existing supplies
 - Resulted in a lower return flow factor (RF)
- Comparison of Estimated Return Flows
 - Minimum Return Flow of 253,055 acre-ft per year in 2030

Estimated Net Upper Basin Return Flows (acre-ft/year)

	RF	2010	2020	2030	2040	2050	2060
2006 Net Return Flows	69%	650,280	579,730	583,825	693,744	815,218	992,905
2008 Net Return Flows	51%	415,185	282,886	253,055	333,844	430,092	572,491
Reduction		235,095	296,844	330,770	359,900	385,126	420,414

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Upper Basin WAM Models

- Coordination with Region C
 - March, 2009
 - Freese & Nichols
 - Received Trinity WAMs to estimate projected Net Upper Basin Return Flows March & April, 2009.
- Upper Basin Models
 - Future condition model runs
 - Based on TCEQ WAM RUN 8 models
 - Upper basin updated with projected diversions, return flows and reuse diversions
 - Recorded model output at Oakwood USGS gage

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Lake Livingston Firm Yield

- Updated WAM Run3
 - Similar methodology as Region C WAMs
 - TCEQ WAM Run 3 (full permitted diversions, no return flows)
 - Added projected return flows and reuse diversions
 - Updated WAMs with Livingston Storage Capacity for 2000, 2030 & 2060
- Results
 - Lake Livingston Storage Tables
 - Regulated Flow at Oakwood Gage
 - Compared to Region C WAMs

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Return Flow at Oakwood Gage (CP 8TROA)

Projected vs Modeled Upper Basin Return Flows

Decade	Net Upper Basin	Region C Model	Modified WAM Run 3
2010	~400,000	~350,000	~300,000
2020	~250,000	~200,000	~150,000
2030	~250,000	~200,000	~150,000
2040	~300,000	~250,000	~200,000
2050	~400,000	~350,000	~300,000
2060	~550,000	~450,000	~400,000

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Lake Livingston Firm Yield – Modified WAM RUN3

Lake Livingston Firm Yield (acre-ft/year)

Return Flows	2010	2020	2030	2040	2050	2060
Firm Yield	1,344,000	1,289,000	1,265,000	1,294,000	1,344,000	1,344,000
Reduction in Firm Yield	0	-55,000	-79,000	-50,000	0	0

Lake Livingston Firm Yield

Decade	Firm Yield
2010	1,344,000
2020	1,289,000
2030	1,265,000
2040	1,294,000
2050	1,344,000
2060	1,344,000

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Comparison to 2006 RWP Projected Demands

- Surplus supplies available in Lake Livingston in 2020, 2030 and 2040

Lake Livingston Firm Yield

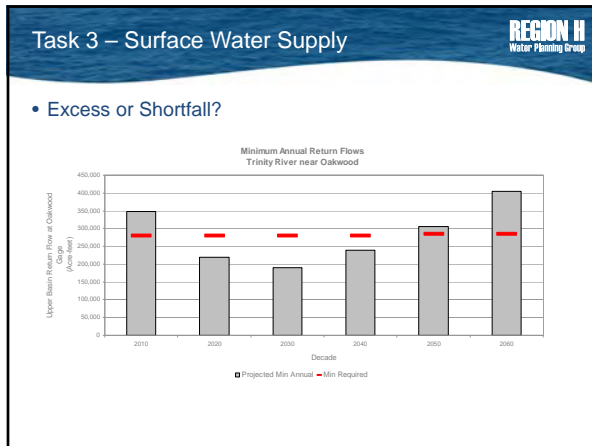
Decade	Firm Yield	2006 Projected Demand
2010	~1,300,000	~750,000
2020	~1,250,000	~950,000
2030	~1,200,000	~1,050,000
2040	~1,250,000	~1,100,000
2050	~1,300,000	~1,150,000
2060	~1,300,000	~1,150,000

Task 3 – Surface Water Supply

REGION H
Water Planning Group

Necessary Level of Return Flows – Iterative Approach

Lake Livingston Storage During Drought of Record



Task 3 – Surface Water Supply

REGION H Water Planning Group

NECHES - TRINITY BASIN

Source	Owner	2006 Plan (afy)	2011 Analysis (afy)	Change (afy)
3410704290	PVT IRR	1,069	1,037	-32
3410704291	PVT IRR	1,078	1,078	-1
3410705016	PVT IRR	901	1,012	111
3460704287	PVT IRR	2,528	2,528	0
3460704293	PVT IRR	1,626	1,626	0
3460704294	PVT IRR	573	573	0
3410704295	PVT IRR	1,205	1,199	-6
3410704299	PVT IRR	1,173	1,173	-1
3460704300	PVT IRR	805	805	0
3460704304	MFR	2,663	2,663	0
3460704304B	PVT IRR	1,997	1,997	0
3410704306	PVT IRR	1,818	1,818	-1
3460704308	PVT IRR	771	771	0
3460704309	PVT IRR	711	711	0
3410704311	PVT IRR	2,093	2,072	-21
3460704312	PVT IRR	691	691	0
TOTAL		21,702	21,753	50

Task 3 – Surface Water Supply

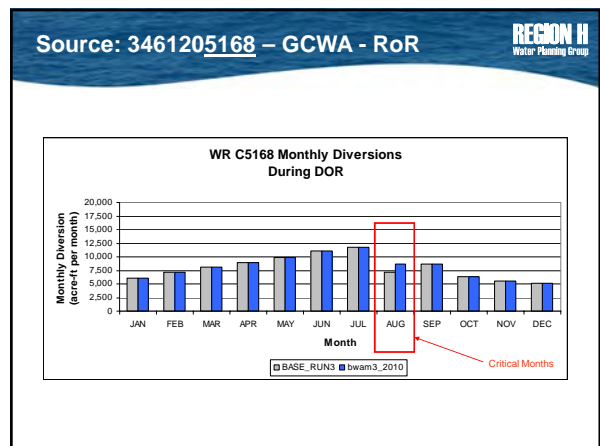
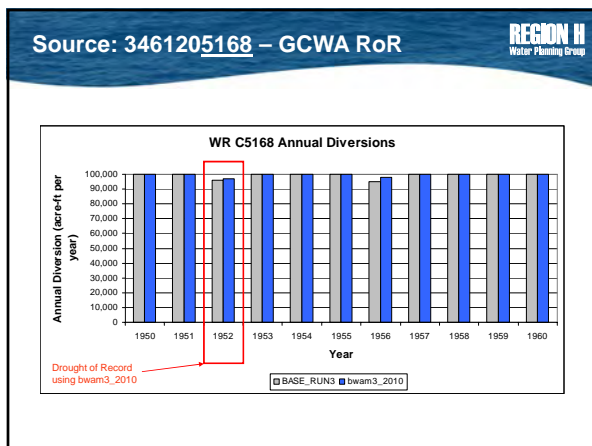
REGION H Water Planning Group

BRAZOS BASIN

Source	Owner	2006 Plan (afy)	2011 Analysis (afy)	Change (afy)
120E01	BRA	138,913	155,030	16,117
3461205168	GCWA	98,805	97,225	-1,580
3461205171	GCWA	72,388	64,159	-8,229
3461205320	Rich Irr. / HL&P	29,920	29,920	0
3461205322B	GCWA	63,812	68,402	4,590
3461205325	HL&P	34,300	34,300	0
3461205328B	DOW	148,052	137,475	-10,577
3461205366	BWA	23,017	16,492	-6,525
3461205492	Eagle Nest Lake	1,800	1,800	0
TOTAL		611,007	604,803	-6,204

1) Existing Contracts from BRA System

- ### Task 3 – Surface Water Supply
- REGION H Water Planning Group
- Coordination with Region G
 - Received Region G WAMs in May from HDR
 - bwam3_2010
 - bwam3_2060
 - Following Results
 - Base Line: TCEQ WAM RUN3 (BASE_RUN3)
 - Projected: Brazos WAM (bwam3_2010)

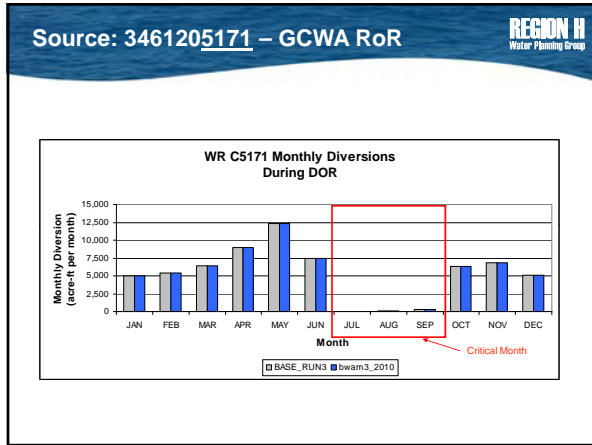
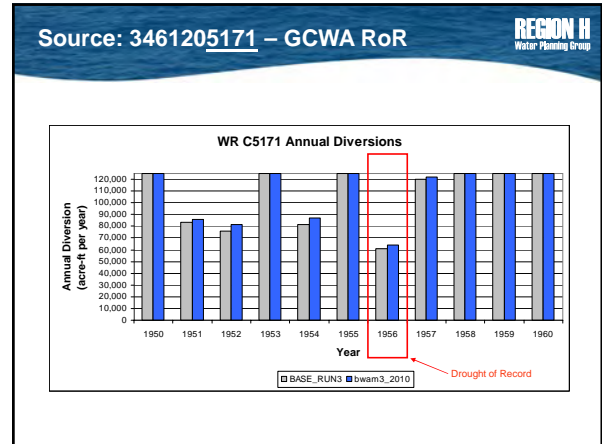


Source: 3461205168 - Summary **REGION H**
Water Planning Group

- Permitted Diversion: 99,932 acre-ft per year
- 2006 Plan Recommended: 98,805 acre-ft per year
- 2011 Plan: 97,255 acre-ft per year recommend

2011 Analysis
(acre-ft per year)

Decade	BASE RUN3	2010	2020	2030	2040	2050	2060
Minimum Annual Diversion	94,943	97,255	-	-	-	-	99,932
Firm Yield	46,160	78,344	-	-	-	-	99,932
Recommended Availability	-	97,255	97,255	97,255	97,255	97,255	97,255

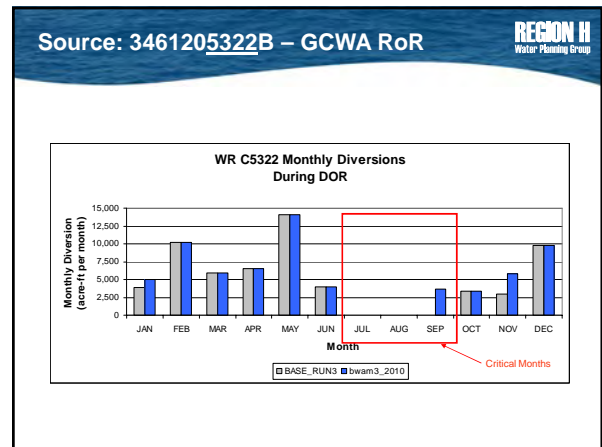
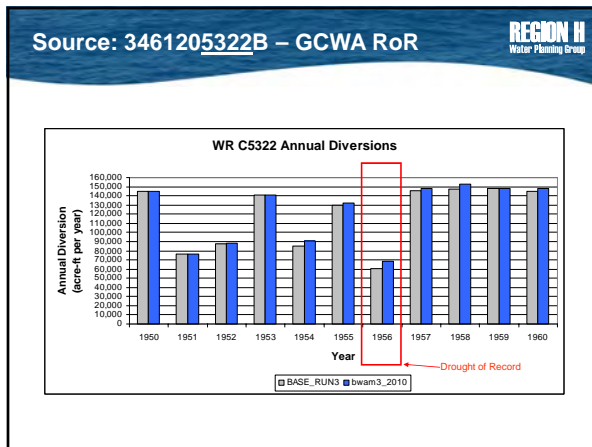


Source: 3461205171 - Summary **REGION H**
Water Planning Group

- Permitted Diversion: 125,000 acre-ft per year
- 2006 Plan Recommended: 72,388 acre-ft per year
- 2011 Plan: 64,159 acre-ft per year recommended

2011 Analysis
(acre-ft per year)

Decade	BASE RUN3	2010	2020	2030	2040	2050	2060
Minimum Annual Diversion	60,892	64,159	-	-	-	-	69,204
Firm Yield	0	0	-	-	-	-	0
Recommended Availability	-	64,159	64,159	64,159	64,159	64,159	64,159



Source: 3461205322B - Summary **REGION H**
Water Planning Group

- Permitted Diversion: 155,000 acre-ft per year
- 2006 Plan Recommended: 63,812 acre-ft per year
- 2011 Plan: 68,402 acre-ft per year recommended

2011 Analysis
(acre-ft per year)

Decade	BASE RUN3	2010	2020	2030	2040	2050	2060
Minimum Annual Diversion	60,691	68,402	-	-	-	-	68,530
Firm Yield	0	0	-	-	-	-	0
Recommended Availability	-	68,402	68,402	68,402	68,402	68,402	68,402

Task 3 – Surface Water Supply **REGION H**
Water Planning Group

SAN JACINTO - BRAZOS BASIN

Source	Owner	2006 Plan (afy)	2011 Analysis (afy)	Change (afy)
3411104449	PVT IRR	558	1,200	642
3411104509	PVT IRR	1,025	2,028	1,003
3461105350	HL&P - Webster Plant	2,120	2,120	0
3461105357A	GCWA	17,600	15,930	-1,670
3461105357B	GCWA	0	0	0
3461105357C	GCWA	0	0	0
3461105169	GCWA	3,842	0	-3,842
3461105170	FBC WCID #1	6,890	5,634	-1,256
3461105343	PVT IRR	711	720	9
3461105344	PVT IRR	962	1,320	358
3461105346	PVT IRR	1,360	2,214	854
3461105352	PVT IRR	3,347	3,271	-76
3461105364	PVT IRR	766	734	-32
TOTAL		39,181	35,171	-4,010

Source: 3461205357 – GCWA RoR **REGION H**
Water Planning Group

WR C5357 Annual Diversions

Source: 3461205357 – GCWA RoR **REGION H**
Water Planning Group

WR C5357 Monthly Diversions During DOR

Source: 3461205357 - Summary **REGION H**
Water Planning Group

- Permitted Diversion: 57,500 acre-ft per year
- 2006 Plan Recommended: 17,600 acre-ft per year
- 2011 Plan: 13,800 acre-ft per year recommended due to modeling of reservoir storage

2011 Analysis
(acre-ft per year)

Decade	BASE RUN3	2010	2020	2030	2040	2050	2060
Minimum Annual Diversion	15,930	15,930	15,930	15,930	15,930	15,930	15,930
Firm Yield	13,800	13,800	13,800	13,800	13,800	13,800	13,800
Recommended Availability	-	15,930	15,930	15,930	15,930	15,930	15,930


Task 3 – Surface Water Supply **REGION H**
Water Planning Group

Colorado – Brazos Basin

- Available supplies are equal to contracts from Philips Petroleum (12,019 acre-ft per year)


Neches Basin

- Available supplies are equal to contracts from LNVA (60,727 acre-ft per year)

Task 3 – Resource Allocation 

General Methodology

- Allocate groundwater supplies according to local restrictions
- Allocate surface water supplies according to WWP contracts and water rights
 - If WUG is found in multiple counties, the supply was split according to surface water demand
- Assumed Livestock entries were provided by local supply sources
- 2006 Plan: Mining WUGs with shortages in 2000 were assumed to be supplied from local surface supplies equal to their shortage.
 - 2011 Plan will adopt the local supply numbers identified in 2006 Plan

Task 3 – Resource Allocation 


Groundwater Supplies by County

Adequate Supplies

- Austin County
- Leon County
- Madison County
- Polk County
- San Jacinto County
- Trinity County
- Walker County


Inadequate Supplies

- Brazoria County
- Chambers County
- Galveston County
- Harris County
- Fort Bend County
- Liberty County
- Montgomery County
- Waller County

Task 3 – Shortage Analysis 

Shortage Analysis
All values are in acre-ft per year


County	2010	2020	2030	2040	2050	2060
AUSTIN	0	-739	-1,240	-1,496	-1,635	-1,865
BRAZORIA	-142,511	-167,318	-196,542	-226,084	-255,793	-290,333
CHAMBERS	-42,895	-47,773	-51,179	-54,488	-57,696	-60,950
FORT BEND	-34,266	-33,232	-73,678	-102,519	-142,195	-187,241
GALVESTON	-18,292	-18,162	-19,485	-22,677	-26,104	-31,036
HARRIS	-94,318	-222,282	-287,798	-341,446	-393,772	-441,923
LEON	-64	-436	-671	-765	-838	-966
LIBERTY	-11,846	-14,761	-18,124	-21,805	-26,134	-31,378
MADISON	-1	-130	-228	-239	-323	-450
MONTGOMERY	-17,244	-47,319	-69,460	-95,749	-134,675	-179,198
POLK	0	-187	-313	-404	-552	-728
SAN JACINTO	-492	-850	-1,131	-1,317	-1,426	-1,511
TRINITY	0	-2	-1	0	0	0
WALKER	0	-816	-1,651	-1,963	-2,374	-2,843
WALLER	0	-1,776	-2,964	-4,479	-6,786	-9,959
TOTAL SHORTAGE	-361,929	-555,783	-724,465	-875,431	-1,050,303	-1,240,380

Task 3 – Water Supply Analysis 


Draft Chapter 3


~~Item 15: Consider and take action on approving the Draft Chapter 3 made available on the Region H website prior to the meeting.~~

- Informal approval to be requested at next meeting.
- Posted to Region H website by July 8th.



Task 4
Water Management Strategy Selection



Task 4 – WMS Selection 

Strategies Considered in 2006 RWP

- Conservation Strategies
- Expand/Continue Contracts
- Reservoir Strategies
- Water Rights Strategies
- Reuse Strategies
- Allocation/Transfer Strategies
- Other Strategies

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Conservation Strategies

- ✔ • Municipal Conservation
- ✔ • Irrigation Conservation
- ✔ • Industrial Conservation

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Reservoir Strategies

- ✔ • Allens Creek
- Bédias
- Little River
- ✔ • Little-River Off-Channel

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Water Rights Strategies

- ✔ • Houston/SJRA Lake Houston Permit
- ✔ • Houston/SJRA ROR Permit
- ✔ • Re-designation of Existing Permits

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Reuse Strategies

- ✔ • Wastewater Reclamation for Industry
- ✔ • Houston Indirect Wastewater Reuse
- ✔ • NHCRWA Indirect Wastewater Reuse

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Allocation/Transfer Strategies

- ✔ • Contractual Transfers
 - BRA Voluntary Redistribution
- ✔ • Houston to GCWA Transfer
- ✔ • Increase Current Contracts
 - Bédias to SJRA Transfer
- ✔ • TRA to Houston Contract
- ✔ • Luce Bayou Transfer
 - Sabine to Region H Transfer
- ✔ • TRA to SJRA Contract

Task 4 – WMS Selection REGION H
Water Planning Group

2006 Other Strategies

- ✔ • BRA System Operations Permit
- ✔ • Expanded Use of Groundwater
- ✔ • Freeport Desalination
- ✔ • Brazos Salt Water Barrier

Task 4 – WMS Selection



Water Provider Survey

- Survey sent to:
 - Systems responsible for providing water to other in 2006 RWP
 - Other parties that may play a key role in future water supply for the region
- Received three responses:
 - BRA
 - NFBWA
 - WHCRWA
- Encourage input in order to incorporate strategies into Plan
 - Jason Afinowicz: jason.afinowicz@aecom.com

Appendix 10E

Public Hearing Materials
March 30, 2010

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Contents – March 30, 2010 Public Hearing

1. **Public Notice**
2. **Presentation**
3. **Speaker Forms**
4. **Meeting Transcript**



REGION H WATER PLANNING GROUP

Senate Bill 1 - Texas Water Development Board

c/o San Jacinto River Authority

P. O. Box 329, Conroe, Texas 77305

Telephone 936-588-7111

TO:

- Each mayor of a municipality with a population of 1,000 or more or which is a county seat that is located in whole or in part in the Region H water planning area;
- Each county judge of a county located in whole or in part in the Region H water planning area;
- Each special or general law district or river authority with responsibility to manage or supply water in the Region H water planning area based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality;
- Each retail public utility, defined as a community water system, that serves any part of the Region H water planning area or receives water from the Region H water planning area based upon lists of such entities obtained from Texas Commission on Environmental Quality; and
- Each holder of record of a water right for the use of surface water the diversion of which occurs in the Region H water planning area based upon lists of such water rights holders obtained from Texas Commission on Environmental Quality.

RE: **Public Notice of an *Initially Prepared 2011 Region H Water Plan (IPP)***

DATE: February 26, 2010

PUBLIC NOTICE

To All Interested Parties:

The Region H Water Planning Group area includes all or part of the following counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Leon, Liberty, Madison, Montgomery, Polk, San Jacinto, Trinity, Walker, and Waller.

Notice is hereby given that the Region H Water Planning Group (RHWPG) is requesting public review and comment on an Initially Prepared 2011 Region H Water Plan (the IPP).

A summary of the content of the Draft Initially Prepared Plan: The *Initially Prepared Plan (IPP)* updates the 2006 Region H Water Plan that was included in the 2007 State Water Plan prepared by the Texas Water Development Board (TWDB). The IPP addresses the following topics:

- Water needs based on projected population and water demand
- Water supplies available to meet projected water demand
- Water management strategies for meeting any identified water shortages
- Socioeconomic impact of not addressing shortages
- Impacts of Management Strategies on Water Quality and Agricultural Areas
- Water Conservation and Drought Management

- Protection of Water Resources and Natural Resources
- Proposed Unique Stream Segments
- Proposed Unique Reservoir Sites
- Regulatory, Administrative and Legislative Recommendations

Public Comment: Public hearings to receive public comment on the IPP will be held at the following dates and locations:

March 30, 6:30 p.m.

Houston-Galveston Area Council
3555 Timmons, 2nd Floor, Room A
Houston, Texas 77027

April 1, 6:30 p.m.

Truman Kimbro Convention Center
111 West Trinity
Madisonville, Texas 77864

April 7, 10 a.m.

Lone Star Convention Center
9055 FM 1484
Conroe, Texas 77303

The RHWPG will accept written comments until 5:00 p.m. June 8, 2010. Written comments should be provided to:

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

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

Questions or requests for additional information may be submitted to: Reed Eichelberger, General Manager, San Jacinto River Authority, P.O. Box 329, Conroe, TX 77305-0329, telephone 936-588-7111. The San Jacinto River Authority is the Administrator for the RHWPG.

A copy of the Initially Prepared Plan for 2011 is available at the County Clerk's Office and at a depository library in each county in Region H. A list of depositories is attached. A copy also is available on the RHWPG website at www.regionwater.org and on the regional planning section of the TWDB website at www.twdb.state.tx.us/wrpi/rwp/rwp.htm.

DEPOSITORY LIBRARIES IN REGION H

AUSTIN COUNTY

Gordon Library
917 Circle Drive
Sealy, TX 77474

BRAZORIA COUNTY

Angleton Public Library
401 East Cedar
Angleton, TX 77515

CHAMBERS COUNTY

Chambers County Library
– Main Branch
202 Cummings
Anahuac, TX 77514

FORT BEND COUNTY

George Memorial Library
1001 Golfview
Richmond, TX 77469

GALVESTON COUNTY

Rosenberg Library
2310 Sealy
Galveston, TX 77550

HARRIS COUNTY

Houston Public Library - Central
1st Floor, Bibliographic Information Center
500 McKinney
Houston, TX 77002

LEON COUNTY

Ward Memorial Library
207 East St. Mary's
Centerville, TX 75833

LIBERTY COUNTY

Sam Houston Regional Library
and Research Center
650 FM1011
Liberty, TX 77575

MADISON COUNTY

Madison County Library
605 South May
Madisonville, TX 77864

MONTGOMERY COUNTY

Montgomery County Central Library
104 Interstate 45 North
Conroe, TX 77301

POLK COUNTY

Murphy Memorial Library
601 West Church
Livingston, TX 77351

SAN JACINTO COUNTY

Coldspring Area Public Library
14221 State Highway 150 West
Coldspring, TX 77331

TRINITY COUNTY

Blanche K. Werner Library
203 Prospect Drive
Trinity, TX 75862

WALKER COUNTY

Huntsville Public Library
1216 – 14th Street
Huntsville, TX 77340

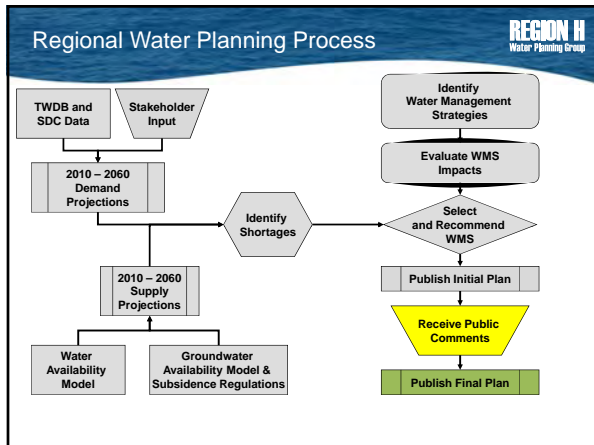
WALLER COUNTY

Waller County Library -
Brookshire/Pattison
3815 Sixth Street
Brookshire, TX 77423



Regional Water Plan Overview

- Region H Overview
- Population and Water Demand Projections
- Water Supply Estimates
- Water Management Strategies
- Protection of Water Resources
- Unique Stream Segments & Reservoirs
- Administrative, Regulatory and Legislative Recommendations
- Infrastructure Financing Survey and Recommendations
- Special Studies

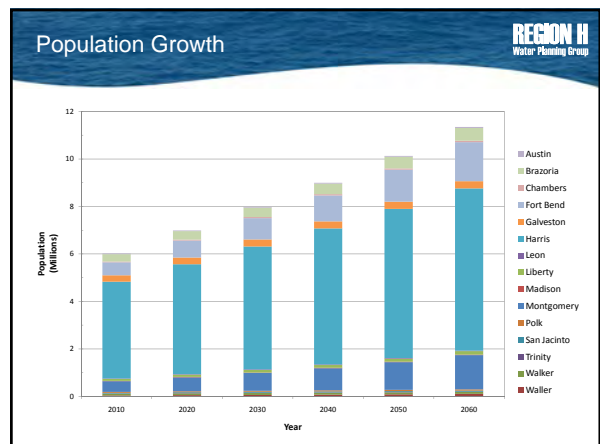


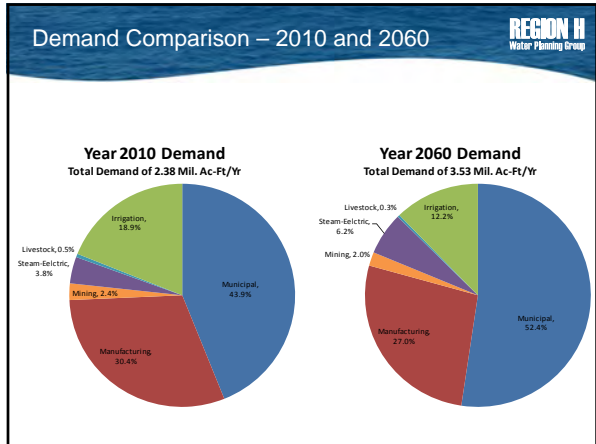
Regional Water Planning

- 16 Planning Regions
- Region H
 - 15 Counties
 - 3 River Basins
 - 4 Coastal Basins
 - 2 Major Aquifers
 - 4 Minor Aquifers
- 50-year water plan (2010-2060), updated every 5 years
 - Previous Plans: 2001 and 2006
- State Water Plan published one year after final regional plans

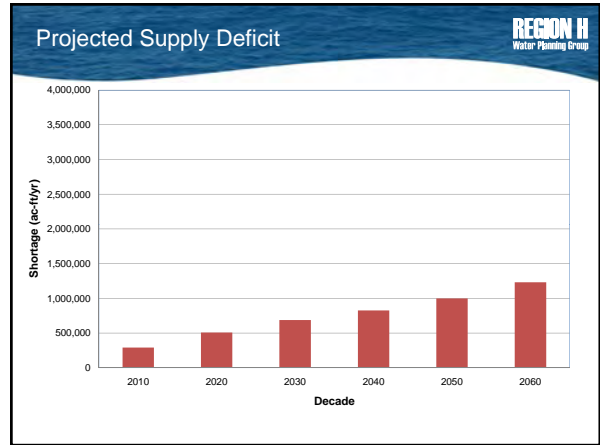
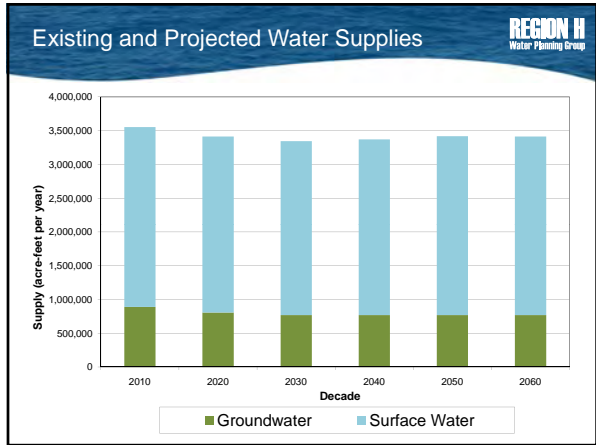
Population and Water Demand Development

- Revision to values in the 2006 Regional Water Plan
- Updated population and associated demand with data from various sources:
 - State Data Center
 - Texas Water Development Board
 - Individual communities and water authorities
- Approved by Region H in public meetings
 - May and July, 2009
- Approved by Texas Water Development Board in October, 2009





- ### Available Water Supplies
- Supplies determined by
 - Surface Water Availability Model (drought of record)
 - Groundwater Availability Model or local regulations
 - Total Existing Supplies
 - 3,561,017 acre-feet per year
 - 75% surface water
 - 25% groundwater
 - 2060 Available Supplies
 - 3,415,860 acre-feet per year
 - Groundwater use reduced by regulation
 - Reservoir storage reduced by sedimentation



- ### Selected Management Strategies
- Conservation Strategies
 - Industrial
 - Irrigation
 - Municipal
 - Contractual Strategies
 - Contracts to water users (WUGs)
 - Contracts among water providers (WWPs)
 - Groundwater Strategies
 - Expanded Use of Groundwater
 - Interim Groundwater Use
 - New Groundwater Wells for Livestock

- ### Selected Management Strategies
- Groundwater Reduction Plans
 - City of Houston
 - North Harris County Regional Water Authority
 - Others
 - Reservoir Strategies
 - Allen's Creek Reservoir
 - Gulf Coast Water Authority Off-Channel Reservoir
 - Millican Reservoir
 - Permit Strategies
 - Brazos River Authority System Operations
 - Houston Bayous Permit

Selected Management Strategies

- Reuse Strategies
 - Houston Indirect Wastewater Reuse
 - Wastewater Reclamation for Industry
 - Wastewater Reclamation for Municipal Irrigation
 - Others
- Infrastructure Strategies
 - Luce Bayou Transfer
 - COH, NHCRWA, WHCRWA, CHCRWA, and NFBWA Transmission and Distribution Systems
 - CLCND West Chambers County System
 - Others

Selected Management Strategies

- Other Strategies
 - Brazoria County Interruptible Supplies
 - Brazos Saltwater Barrier

Major Water Management Strategies

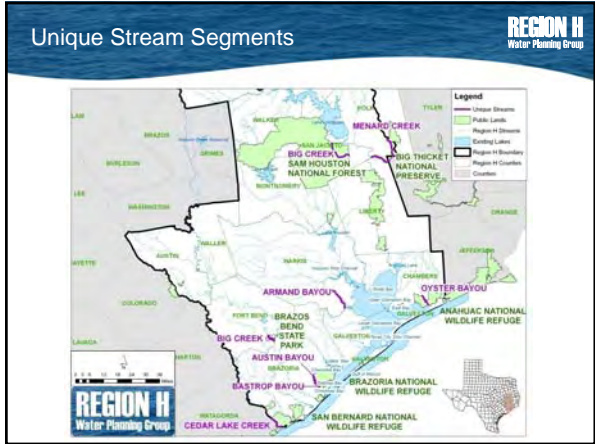
Major WMS	Sponsor	Selected Strategy	Projected Start Decade	2010	2020	2030	2040	2050	2060
				Total Allocated (ac-ft/yr)					
Reservoirs									
Atens Creek Reservoir	BRA / Houston	Y	2020		76,441	93,686	97,954	99,580	99,650
GCWA Off-Channel Reservoir	GCWA	Y	2030			39,500	39,500	39,500	39,500
Millican Reservoir (Panther Creek Dam)	BRA	Y	2040				11,627	58,351	120,994
Contractual Strategies									
TRA to Houston Contract	TRA / Houston	Y	2030		116,738	123,524	123,524	123,524	
TRA to SJRA contract	TRA / SJRA	Y	2040				7,935	39,096	76,476
Reclamation/Reuse									
Houston Indirect Wastewater Reuse	Houston	Y	2040				66,400	114,679	128,801
NHCRWA Indirect Wastewater Reuse	NHCRWA Houston	Y	2040				7,300	16,300	16,300
Wastewater Reclamation for Industry	Manufacturing	Y	2060						67,200
Permit Strategies / Other									
Brazoria Interruptible Supplies for Irrigation	GCWA	Y	2010	104,977	86,759	64,000	64,000	64,000	64,000
BRA System Operations Permit	BRA	Y	2020		6,621	18,870	25,350	25,350	25,350
Interim Strategies	NA	Y	2010	45,512					
Total				150,489	169,821	332,796	443,610	580,380	761,795

Protection of Water Resources

- Water Conservation
 - Recommended as the first strategy
 - Applied to meet projected shortages
- Strategy Selection Process
 - Yield and environmental impacts were considered with the unit cost of water
- Existing Supplies
 - Utilized prior to recommending new water supply projects
- Reuse
 - Included in Fort Bend, Harris County and Montgomery
 - Recommended in lieu of additional imports/reservoirs

Unique Stream Segments

- Eight stream segments were selected in 2006 and adopted by Texas Legislature:
 - Armand Bayou
 - Big Creek (San Jacinto)
 - Austin Bayou
 - Cedar Lake Creek
 - Bastrop Bayou
 - Menard Creek
 - Big Creek (Fort Bend)
 - Oyster Bayou
- 2011 Regional Water Plan retains the designations for these sites



Unique Reservoir Sites

REGION H Water Planning Group

- 2011 Regional Water Plan includes five Unique Reservoir Sites
 - Four already designated
 - Allens Creek Reservoir – 2011 Selected Strategy
 - Little River Reservoir
 - Little River Off-Channel Reservoir
 - Bedias Reservoir
 - One recommended for designation
 - Millican Reservoir – 2011 Selected Strategy

Unique Reservoir Sites

REGION H Water Planning Group

Designated Sites

- Allens Creek Reservoir
 - Strategy in 2001, 2006, and 2011 RWP
 - Austin County
- Little River Reservoir
 - Strategy in 2001 RWP
 - Milam County
- Little River Off-Channel
 - Strategy in 2006 RWP
 - Milam County
- Bedias Reservoir
 - Strategy in 2001 RWP
 - Grimes, Madison, and Walker Counties

Unique Reservoir Sites

REGION H Water Planning Group

Millican Reservoir

- Not yet designated by Texas Legislature
- Recommended in 2011 Region H Plan
- Location:
 - Primarily Brazos, Grimes, and Madison Counties
 - Located on Navasota River
- Yield: 194,500 afy
- Capital Cost:
 - \$1,159,907,000

Policy Recommendations

REGION H Water Planning Group

- Retained 15 Recommendations from 2006 Plan
 - 3 Administrative and Regulatory Recommendations
 - 12 Legislative Recommendations
- One New Legislative Recommendation
 - *Direct the State Demographer's Office to explore the potential changes in population distribution made possible by rapid advancements in information technology.*

Water Infrastructure Financing

REGION H Water Planning Group

Infrastructure Funding Requirements

- Capital Costs for the 2011 Region H Water Plan
 - Estimated at \$12.9 Billion (2008 Dollars)
- Water Infrastructure Financing (WIF) Survey
 - 2011 Survey will utilize TWDB Web based tool
 - Objectives:
 - Determine number of entities with finance needs
 - Identify infrastructure costs that cannot be financed locally
 - Summarize each WIF project and location in Plan

Special Studies in the 2011 Plan

REGION H Water Planning Group

Impacts of 2006 Strategies to Galveston Bay

- Modeled Impacts Over Time (2010 – 2060)
- Considered Upstream Impacts
- Near-term reductions in flow offset by higher return flows in long-term
- Mitigate increased water usage in later decades

Decade	Oakwood (cfs-byr)	Galveston Bay (cfs-byr)
2010	~3,000,000	~2,800,000
2020	~4,200,000	~2,800,000
2030	~4,000,000	~2,800,000
2040	~4,000,000	~2,800,000
2050	~4,000,000	~2,800,000
2060	~4,000,000	~2,800,000

Special Studies in the 2011 Plan



Water Conservation

- Conservation Survey
 - Included municipal, industrial and commercial conservation
 - Additional conservation plans obtained from TWDB

- Conservation Management Strategies
 - No change to Irrigation conservation strategies from 2006 RWP
 - WUG specific strategies where applicable
 - 3-tiered municipal strategy based on WUG size for other municipal WUGs
 - Conservation used to address over 200 WUG shortages

Public Comment on the IPP



- IPP Available:
 - <http://www.regionhwater.org>
 - County Clerk's Office in each county
 - Depository library in each county

- Public Hearings
 - Tuesday, March 30th @ 6:30 PM – Houston
 - **Houston-Galveston Area Council**

 - Thursday April 1st @ 6:30 PM– Madisonville
 - **Truman Kimbro Convention Center**

 - Wednesday, April 7th @ 10:00 AM – Conroe
 - **Lone Star Convention and Expo Center**

Public Comment on the IPP



- Taking comments through:
 - **5:00 PM June 8, 2010**

- Please submit comments to:
 - Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

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

**Questions
and Comments**



PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - March 30, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Region H Water Plan

NAME: Brandt Mannchen

AFFILIATION: Houston Sierra Club

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State

77096
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REGION H WATER PLANNING GROUP
PUBLIC HEARING
TUESDAY, MARCH 30, 2010
HOUSTON-GALVESTON AREA COUNCIL
3555 TIMMONS
HOUSTON, TEXAS
6:00 P.M.

Transcript provided by:

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MR. BARTOS: Probably everyone can hear me without the mic. Can everyone hear me? Well, welcome to the public hearing of the initially prepared plan I guess for the 2011 Region H plan. Appreciate everybody coming tonight.

My name is John Bartos. I've been on the Region H Planning Group since it started I guess in 1997, something like that. And it's an interesting process. I guess most people think that -- they only think about water when they turn on the faucet and nothing comes on, but at any rate, welcome. I appreciate you coming and I appreciate your interest.

We have other members of the Regional Planning Group who are here tonight -- Pudge Willcox and Gena Leathers -- and I think that's all we have.

And the format tonight is going to be we're going to have a presentation by the consulting team of the regional plan for 2011. And afterwards, we're going to have an opportunity for public comment. On the back table there is three different documents: One is -- has a little yellow stripe on it if you want to be added to the Region H mailing list and if you have interest in all this. Another one has a green stripe on it, and if you want to speak tonight and have public comments or questions, please fill that out and hand it to Glenda Callaway sitting over here. And the third document is a little form in case you want to make written comments tonight. But be advised that you also have until June 8th to make comments if you want to go home and think about it for a little bit.

I want to thank tonight Carl Masterson at HGAC for allowing us to have this hearing here. Thank you, Carl.

MR. MASTERSON: You're welcome.

MR. BARTOS: And I would like to then turn this over to -- I guess you're our lead project manager on this. Is that the title? Jason Afinowicz, and I'll let you introduce your team and start with the presentation.

MR. AFINOWICZ: All right, thank you, John. My name is Jason Afinowicz, and I'm joined here today with two other consultants, Cory Stull and Philip Taucer, and also from KBR we have Karim El Kheiashy, Chris Krueger on that side of the room and also John Seifert from LBG-Guyton has been helping us out with this

portion of the plan. The general idea of what we're going to go through right now is a short summary of the plan. Obviously it's a large document, but we're going to just go through this and give you a little bit to talk about.

MR. BARTOS: Can I interrupt you. I neglected to mention Temple McKinnon from the Water Development Board. She needs to be introduced. Sorry.

MR. AFINOWICZ: And introduce Glenda as well.

MS. CALLAWAY: I figured I needed no introduction.

MR. AFINOWICZ: Glenda who needs no introduction to the group.

Well, just to get started, what we're going to talk about is a quick overview of what Region H is and discuss the population water demand estimates, determination of supply and the identification of needs of these unmet demands and then to talk about the strategies that were identified for meeting these shortages.

Also be some discussion about unique stream and reservoir sites, administrative and regulatory recommendations which are also part of the plan and then also how all of this gets paid for, the infrastructure funding portion of the plan development. And at the end, a couple of special studies that were included in this plan.

To give you an overall idea of how this process works, the regional planning process starts at the very beginning with bringing in information from demands, supplies and identifying what shortages need to be met out into a 50 year horizon. Once that's done, other strategies are identified for meeting any unmet shortages. At that point, the plan is put together. What we put together now is the initially prepared plan that was approved by funding group and that is currently out for public comment just like what we're doing right here tonight.

Once those comments have been received and processed and incorporated into the plan where appropriate, finally a draft plan will be submitted by September 1st of this year. Region H itself consists of 15 counties, three river basins -- the Trinity, Brazos and San Jacinto -- four coastal basins, two major aquifers, the Gulf Coast and Carrizo-Wilcox and also four minor aquifers so there are significant number of water resources to be considered as part of this plan.

As we mentioned before, this is a 50 year plan which will look at needs from the year 2010 out to 2060. And this plan is updated every five years as part of the regular regional planning process.

After this plan is completed and plans for the other regions throughout the state are put together, those will ultimately be put together into the state water plan which will be published this 2012.

Starting with population water demands -- the basis for the demand use in this plan are actually the ones that were originally used in the 2006 regional plan. These were based on the 2000 census. And lacking a census to update these numbers for this plan round, various different sources were used to update that information, that included data from State Data Center, Texas Water Development Board, and actually the individual municipalities, utility districts and other organizations.

Information was mailed out to all these entities and requesting input on what their ideas were for long term population and demand projections. This information was considered by the Region H Planning Group and approved in a public meeting last year. And these numbers were also considered by the Texas Water Development Board before they were finalized to be put into the initially prepared plan.

This gives you an idea of projected population growth over the years. 2010 you see a population of approximately 6 million in the Region H area. That grows to as much as 11 million out in the year 2060. You'll see a large portion of that demand is in Harris County right there in the middle; but also significant to that is the growth in the suburban counties such as Fort Bend, Brazoria, Montgomery County. Those have also shown a very large amount of growth proportionately over the years.

Once these population projections are considered along with what the per capita usages are for individual people, how much water does each person use, how much water do industries use, we're able to look at what demands are in both 2010 and 2060 you see here. The demand in 2010 of just over 2.3 million acre-feet per year grows to 3.53. That's a growth of about 50 percent over that planning term. Also you'll see the growth in municipal demand becomes a larger portion of the total demand between those two years.

Supplies were determined as the other half of this equation of what can be used to meet these needs. And these supplies were determined from surface availability models, the WAMS as they are known. The groundwater availability models or the GAMS for groundwater sources. Altogether this represents just over 3.5 million acre-feet per year of supply currently. And this is broken out to about 75 percent surface water, a quarter of that being groundwater. By the year 2060 those supplies shrink somewhat because of regulation groundwater declining supply and also reservoir sedimentation. This gives you an idea of how those supplies change over time. And again the split between surface water on the top and groundwater down below.

When those are compared to the demands over time, we see that there is a constant growth of shortages that cannot be met by current supplies. It doesn't mean we looked at the overall region, the overall supplies and decided what was missing in between. There are certain supplies that just can't be used to meet certain demands. These shortages take that fact into account as the deficits grow over time.

Once the shortages were identified, the next step was to identify strategies to meet these projected shortages out in the future. And starting off the first strategies applied were conservation strategies for all sorts of uses, irrigation, industrial and municipal. And we'll talk a little bit more about the municipal conservation strategies later on.

Contractual strategies were used wherever possible as in some wholesale water providers or entities that sell water may have additional supplies that need to be contracted to water users. And so contracts to water users and contracts between these wholesale water providers were considered to sources that already existed before developing new strategies. Groundwater strategies were also incorporated to expand on the current use of groundwater wherever possible, but within regulation. And interim groundwater usage or strategies that couldn't be met by other means and also some of the groundwater wells for livestock in a few cases.

Groundwater reduction plans have been implemented by various entities in the Houston area, and this includes the City of Houston, North Harris County Regional

Water Authority, West Harris County Regional Water Authority, so on and so forth. And these to the extent possible have been incorporated into the Region H plan to build upon the planning that's already been done by these different organizations.

Reservoir strategies have also been recommended as in the 2001 and 2006 regional plans. Allens Creek Reservoir is recommended as near term strategy. Also reservoir -- small reservoirs have been recommended in Brazoria County for the Gulf Coast Water Authority to convert some of their interruptible supplies. In addition, Millican Reservoir shared between Regions G and H has also been recommended to meet shortages in the lower Brazos Basin. Permit strategies have also been considered.

One that's been ongoing for many years is the Brazos River Authority systems operations permit which is an opportunity to get more yield out of their existing system without building new reservoirs. The Houston bayous permit is included in this point to develop an interruptible supply source that would not replace firm yield supplies, but just be used in lieu of them to reduce operational costs.

The plan includes a large amount of reuse, which includes small purple pipe systems for direct reuse. A strategy for direct reuse for industry and also indirect strategy for City of Houston, North Harris County Regional Water Authority and others.

There are also infrastructure strategies such as Luce Bayou which has been a hot topic lately. That project is moving forward and continued in this plan as a recommended strategy but also the systems for the City of Houston, the water authorities and so forth have also been incorporated in here to get an idea of the infrastructure needs. The Chambers and Liberty Counties Navigation Districts, West Chambers County System has also been included in this plan for the first time.

And finally, a strategy for interruptible supplies for irrigation in Brazoria County is incorporated and this kind of mirrors the way water is sold and used in Brazoria County right now that frees up additional water for other needs and the Brazos

saltwater barrier is recommended as a strategy not for increasing firm yield but for increasing the availability of water during dry periods.

This table gives a short summary of when strategies are projected to come online and their magnitudes. You see some of those strategies like the Brazoria interruptible supplies that are required immediately in 2010, while others like Millican Reservoir or wastewater reclamation for industry, one of the City of Houston reuse projects come on later about 2040 for Millican, 2060 for reclamation.

A key part of the plan is protection of existing water resources, and to do that water conservation was identified as an important aspect of the plan. And this was recommended as a first strategy before applying other water management strategies. And it was applied to meet several of these shortages or at least reduce those that couldn't be eliminated through conservation.

The selection process considered many different aspects, more than just cost on how the strategies will impact the region. These are environmental aspects and other impacts to water resources. Existing supplies were used wherever possible. And also reuse as we mentioned before was implemented in several different occasions through the plan.

Unique stream segments are a designation that the Planning Group can recommend for certain streams of particular characteristics, and in the last plan, the 2006 plan, the Planning Group elected to nominate eight segments as unique stream segments. These same recommendations, although they have been adopted by the legislature, have been carried forward into the 2011 plan without any change. This map gives you an idea of where those are located. You see they are kind of spread throughout the region northern and southern portions.

The opposite of the unique stream segments you could say is the unique reservoir sites. These sites identify locations of key significance for future water resources development, and there are altogether five that are included in the 2011 plan. Four of these have already been designated by the legislature. Although only one of these is actually recommended as a strategy in the 2011 plan. This will be Allens Creek Reservoir in Austin County. The new reservoir that is recommended as

designation at this time is Millican Reservoir which has been selected as a strategy in this plan to meet needs of the lower Brazos basin.

This gives you an idea of the locations of the already designated sites. Allens Creek, again, in Austin County, Little River in the Little River Off Channel Reservoirs in Milam County and Bédias Reservoir primarily in Madison County. Millican Reservoir is a strategy that has been in the past plans, but never included as a recommended strategy. It's not yet designated as a unique reservoir site. It is recommended as a strategy this go round, and it is located primarily in Brazos, Grimes and Madison Counties. And this as a project of substantial yield, almost 200,000 acre-feet, although there is a large cost that comes along with that.

The regional planning process also gives an opportunity for the Planning Groups to make certain policy recommendations. There were 15 recommendations in the 2006 plan that were carried over into this 2011 plan. Three of these are being administrative and regulatory recommendations and 12 being legislative recommendations. In this plan, there is one new legislative recommendation that's included. And that is as you see there, to direct the state demographer's office to explore the potential changes in population distribution made possible by rapid advancements in information technology. Just to translate that into short simple message, that is recognizing that changes in technology have allowed for future growth in areas that traditionally have not seen growth, perhaps rural areas where people can telecommute and work from home. There is not really any guidance at this point on how that will affect long term populations, but this does direct the state to consider that in their future population projections.

All these projects come with cost. And one chapter of the plan looks at these costs and how these projects are going to be financed. The capital costs just for these projects recommended in the 2011 plan are estimated at nearly \$13 billion, present day dollars. To identify how these projects are going to be funded and identify future needs from the state, there will be a survey that is sent out to all the water user groups that have a strategy that will be coming up over the next 50 years that will simply ask them what are your needs? How do you plan to fund it? And what can the state consider as future needs for funding and assisting with these projects?

And this is going to be put together as we go through the public comment period now that the initially prepared plan has been put together.

One of the special studies that was considered in the 2011 plan is the impact water management strategies to Galveston Bay. Already a previous study that was published by the Planning Group looked at what were the impacts in the year 2060 of different strategies. This project goes just a little bit farther to look at what are the changes over time and what are the impacts from those strategies in every decade between now and 2060.

This considered upstream impacts primarily from Region C and looked at what would reductions and return flows from Region C do in reuse and conservation projects that they were to do to water availability in the lower part of the Trinity Basin and how does that interact with diversion for Region H needs.

This is a quick graphic here to show you a little bit of that information. There are two points here, one of them showing flow -- these are median flows showing median flows at Oakwood which is a gauged site located approximately upstream Region C and Region H downstream. And also flows in the Galveston Bay. You see a decline in the near term of some of those flows from the year 2010 to 2020 which is in conjunction with higher level also of reuse in the upper basin, but over time, even though Region H strategies come online using more water, you see an overall increase out to 2060 of total flows to Galveston Bay. And that is mitigated partially by new water supplies coming into the upper basin in Region C and metroplex.

Water conservation was also another topic to be considered in this plan, conservation has always been part of the Region H plans and there was a conservation survey done to examine what sort of conservation practices were being implemented and what sort of impacts could be identified. A survey was sent out to municipal, industrial and commercial users to try to identify this as much as possible.

In general, some of the changes were not that drastic compared to the 2006 plan. And irrigation conservation was not changed. There was not considerable information for that. However, municipal users did provide some information that

gave us the ability to recommend very specific strategies based on what's in their conservation plans. And also helped guide the development of new generic conservation plans that could be applied to water users that didn't have specifics in their current plans. And this conservation was used to meet the needs, at least partially, of over 200 water users within the region.

MR. BARTOS: Water user groups?

MR. AFINOWICZ: That's right. And at that point we get to the portion where we can talk about public comments. Just to remind you of a few things before we get there, the initially prepared plan that's been approved by the group is available on the website and county clerk's office and in the library in every county, and there are three public hearings scheduled. One of those which is going on right now and two, one this next Thursday and one the following Wednesday that will be held to take public comment on this initially prepared plan so they can be considered by the Planning Group in developing the final plan. These comments will be taken through June 8th as John mentioned earlier. And they can be submitted to the chair of the Region H Planning Group and also to the Water Development Board.

MR. BARTOS: Okay, thank you, Jason. Let me ask you, Jason, is this presentation that you have -- will that be available on the website?

MR. AFINOWICZ: We can make that available. That won't be a problem.

MR. BARTOS: The actual plan is what -- about six or ten inches thick, something like that?

MR. AFINOWICZ: That's right. It's a substantial document and the best way to get a good handle on it is just to take a look at the executive summary.

MR. BARTOS: There you go.

MR. AFINOWICZ: That will give you the shortcut.

MR. BARTOS: Look at the executive summary or look at this presentation as well.

What I'd like to do now is to open this up to public comment. We have a fairly small group here so I think we can be liberal about that and if it's okay with the consultants here, after the public comment if people from the public have questions and answers, is that appropriate that we can do that?

MR. AFINOWICZ: I believe so.

MR. BARTOS: Okay. I have -- if anyone else has -- wants to make an official public comment, please fill out one of these green cards which is over on the side.

I just have one so far, and that's from Brandt Mannchen from the Houston Sierra Club, and I will tell you that Brandt attends all the meetings and he's one of the few people including people probably on this group that has read those six to eight inches of documents. But anyway, Brandt, public comment, please.

MR. MANNCHEN: Can you hear me? Can you hear me now? My name is Brandt Mannchen. I'm with the Houston Sierra Club.

MS. CALLAWAY: There should be a button to push.

MR. MANNCHEN: Is that okay? My name is Brandt Mannchen here with the Houston Sierra Club, and we'd like to thank the Region H water Planning Group for this opportunity to comment. And also for the consultants, a lot of these comments are -- come from a December letter that we submitted to the Region H water Planning Group that kind of got lost in the controversy over a couple of dams and so if the page numbers aren't quite right and synced up with some of the changes that were made, keep that in mind.

First of all, the Sierra Club wants to thank the water Planning Group for excluding those two proposed dams from this 2011 plan. And the only other comment we want to make on that is we hope in the future since the proponents of those dams suggested they may be back that you do not accept those dams in the plan because from our perspective they are not needed.

MR. BARTOS: Brandt, those just to clarify, those were the dams proposed in Montgomery County.

MR. MANNCHEN: Right. They have different names, Sam Houston Dam and I call it the Little Lake Creek Dam and another one is called the Lone Star Dam and I call it the Upper Lake Creek Dam, so whatever name you want to choose.

The Sierra Club supports the retention of the eight existing recommended ecologically unique stream segments and I'm not going to name those. They were up in the presentation. We also want to suggest, as we did before this plan was approved, that there are four other stream segments that should be added and we request they be added. They are all in Sam Houston National Forest and only talking about the federal land and not private land that these streams flow through and they are Caney Creek, Little Lake Creek, Winters Bayou and the west fork of the San Jacinto River and from our perspective -- San Jacinto River. And from our perspective we were disappointed in the consultant's assessment because we took the criteria that the Water Development Board developed and we matched it with these streams and they work out quite well from our perspective. So we would like the consultants to go back and look at this document and what we have said about each one of these proposed streams.

In addition, we have submitted a letter to Texas Parks & Wildlife Department suggesting that perhaps we need to update the analysis of stream segments in Region H so that we can perhaps -- if these don't get approved in 2011, then the next iteration will have new analysis from Parks & Wildlife that will look at the unique stream segment criteria and certain stream segments.

Also the Sierra Club supports freshwater flows for the optimal year-round habitat for protection of rivers and streams in Galveston Bay and other bays and estuaries. Although this is a little off subject, we support the science-based environmental flow regime for the Trinity River, San Jacinto River and Galveston Bay and the freshwater inflow recommendations for Galveston Bay as supported by a majority eight members of the BBEST.

But the Sierra Club does have some concerns and I think Jason brought up -- showed a graph and seemed to show that we're going to get enough water in Galveston Bay or not much different than what we have presently as we go to 2060 but there will be a massive shift where the water comes into Galveston Bay.

Currently the Trinity River brings in most of the water, and as we go to reuse and other technologies, most of that water is going to come into the San Jacinto River. And, in fact, a report on freshwater inflows by the Region H Water Planning Group stated that the shift could be 25 to 49 percent, which is very significant. And this may affect critical wetlands in the Trinity River delta, and Trinity Bay which is very important for oyster production. So from our standpoint, that change of where the water comes in is very much of concern, and we would hope Region H would put more analysis in looking at that.

Although it's a unique reservoir site and is not proposed in this plan to be developed, we're still very concerned about the Bédias Reservoir because of the impacts it would have on the west fork of the San Jacinto River in Sam Houston National Forest and those really important bottomland hardwoods and we wanted to make that statement.

Nothing about climate change is in this report, and we'd like to encourage Region H to recommend to the Texas Water Development Board that either -- that they should -- with the assistance of federal and state agencies like Parks and Wildlife or Fish and Wildlife conduct an analysis with regard to climate change. And in our comments we show some elements that could be in that kind of analysis.

In Chapter 4 we talk about population. And we again want to express our concern that in many respects the population projections are taken as gospel as what will happen. And then we plan for those and, no surprise, we often meet those projections. But what we don't have as a region and what Texas Water Development Board hasn't done and the regions haven't done is we as a region must begin developing and articulating our regional population and development goals or de facto growth policy will continue to reflect past trends or the wishes of those who are best able to express their views.

In our mind, each watershed in Region H has a carrying capacity. And we are very concerned that, for instance, the San Jacinto River basin in the Houston area, that we've exceeded the carrying capacity with regard to what our natural resources can do. So we want to encourage Region H to feedback to Texas Water Development Board and say we need a dialogue with our citizens about what it is they want in

the future with regard to their quality of life and their population and their development. Because right now they are getting what we assume is going to happen and that may not be what they want.

In addition, I wanted to suggest that when we talk about inner basin transfers, one of these strategies deals with bringing water from the Trinity River all the way over to Lake Conroe. And again we are very concerned about the impacts that will have on Sam Houston National Forest, west fork of the San Jacinto River and those important bottomland hardwoods. So again we are -- that particular strategy could be very environmentally harmful.

On industrial water conservation, it was a really neat meeting in Brazoria County about a month or two months ago where a bunch of different perspectives spoke before the county commissioners. And Dow Chemical talked about some of the things that they were looking at to do differently because of some -- a drought situation that occurred. We think it will be helpful, whether it's on a voluntary basis or a mandatory basis, if large industrial concerns like municipalities right now and other utility groups who go to the Water Development Board for assistance could submit a water conservation plan and say this is kind of the way we're looking in the future of how we're going to use water and how we're going to save water. And we think that will be very helpful for those large industrial concerns to think more about that and provide that information to the Region H and to the utilities that deal with those large concerns.

One of the particular water management strategies -- some might call it the mother load is the east Texas water transfer, basically taking water from the Sabine and Neches River and bringing it all the way over to our area. And again we want to encourage Region H to look at that very carefully because of the large potential environmental impacts and particularly to the Big Thicket National Preserve, and we're concerned about those impacts.

Also regarding Luce Bayou interbasin transfer which is slowly moving on up, one of the concerns we have is what effect that may have as well as reuse on the Trinity River National Wildlife Refuge. And also again on those wetlands that are in the

lower Trinity River and the delta and also oyster beds. So that is of a concern and we would -- we think that needs to be taken into account.

Also concerning Millican Dam as a water management strategy, from our standpoint, no one has talked about the effects Millican, Allens Creek, and the Little River Dam or Off Channel Dam will have altogether on the Brazos River and the ecosystems that depend on the Brazos River. So that's kind of a cumulative effect situation, and we're concerned about the San Bernard National Wildlife Refuge and the Columbia bottomlands and so we're real concerned about Millican and whether that's really a good strategy.

Finally -- almost finally -- finally, with regard to some of the recommendations to the -- that the Region H wants to make to the Texas Water Development Board and the legislature, we're concerned about the infrastructure financing recommendations that are discussed on 8-31 and 8-32 dealing with regionalization. It talks about contracting with privately owned facilities and a variety of things. And we want to remind the Region H Water Planning Group that this type of privatization of public resources and responsibilities can result in a public resource water becoming a commodity that private entities control and earn money off of. We're concerned that this could result in the use of financial instruments that are shaky and ill-advised as the ones that have brought on our current recession. Why should the public give up its control of its natural resource water while at the same time subsidizing a private for profit entity to make profits from this public resource? Quite frequently the profit mode overrides the public interest, and so we're real concerned about that kind of recommendation and would suggest Region H look more closely at that and whether maybe the recommendation is worse than the condition. Thank you very much.

MR. BARTOS: Thank you, Brandt. Is there anyone else that would like to make any public comment? If not, I will open it up -- keep in mind that any comments that you make you still can make them in writing. And any comments or questions and that type of thing is going to be reported back to the full Region H board and certainly something that we will at least take into consideration. So if anyone has any further public comment or questions and answers at this time, I urge you to -- this is the time. Paul, you have anything?

MS. CALLAWAY: He's wanting one of these primo seats up here.

MR. WYNNE: If you will start over since I missed it.

MR. BARTOS: We will. Any questions, comments from anybody? Anybody -- I'm sorry. Jim. Come on to the microphone maybe for the reporter's sake. By the way, there is some technical language in Brandt's and we'll help you with that. One of the things was BBEST, B-B-E-S-T.

MR. WYNNE: I'm Jim Wynne and I'm with the Houston Audubon Society, and I just took note in the beginning of your presentation you talked about conservation strategies and you listed three areas of industrial, irrigation and municipal; and I was just hoping you could talk in a little more detail about that. Perhaps that's all in the master plan.

MR. AFINOWICZ: That is included in the plan and definitely in much more detail than I can speak to just this evening. There are specific strategy memos within the Chapter 4 that include some details on each of those strategies.

To give you little more background, Region H has a pretty good track record with including municipal conservation strategies and irrigation conservation strategies. One of the new ones though that we up to this point haven't had much of an opportunity to get a handle on is industrial conservation just because that information is usually hard to get out of private industry.

I'm happy to say in this plan this was some information that could be used to actually develop that a little bit more as a strategy even though it's in a limited sense at this point. But we'd be happy to get you the specific sections in the plan that would go through all the details on that.

MR. WYNNE: I'd appreciate it.

MR. BARTOS: Jason if I could ask a follow-up on that. How does our municipal water conservation in our region compare with conservation in other parts of the state?

MR. AFINOWICZ: I would say our conservation is fairly conservative compared to some -- some of the conservation that's been used in the other areas and part of

that is by design. One reason for that that the Planning Group has expressed in the past is that betting on high levels of conservation can possibly create a situation in the future where proper planning hasn't been done for strategies and if that conservation doesn't come to fruition, there may not be an opportunity to catch up and create a strategy to meet those demands by alternative means and with that the plan recommends a level conservation for municipal use somewhere between about 5.5 percent and 7 percent. Just to give an idea of what sort of conservation could be realized.

MR. BARTOS: What does that mean? A reduction of 5 to 7 percent?

MR. AFINOWICZ: That's correct. That's a reduction in total municipal demand.

MR. BARTOS: So how does that then compare -- you said it was conservative, but how does it compare to the other parts of the state? How does our conservation fit in? Do you have any way to gauge that?

MR. AFINOWICZ: We do, and there is definitely numbers from other regions. I can't think off the top of my head.

MR. BARTOS: I'm sorry.

MS. CALLAWAY: Can you remember Region C?

MR. BARTOS: All right. Any other questions or comments from anyone? Yes, sir.

MR. ALBERS: I would just say when you talk about conservation --

MR. BARTOS: Please state your name.

MR. ALBERS: Barnell Albers. When you're talking about conservation plans, I had the opportunity to work in California. I'm not saying we want to mimic them, but I know they have a lot of material about their conservation plans. It might be something to look forward to and find out what they did and what they thought was successful and not successful. And I know that's true in both the southern area for LAEWP and in this northern area just this past year, so I think it's worthwhile to look at other areas. We haven't had the problem that that area has had, not that we

mimic those. I'm not suggesting that at all, but I think looking at outside the state is worthwhile.

MR. NELSON: Since I drove all the way.

MS. CALLAWAY: Introduce yourself.

MR. NELSON: My name is Paul Nelson. I work for the North Harris County Regional Water Authority and represent water authorities as an alternate to Jimmy Schindewolf.

I guess everybody knows there is a stakeholders group that's doing conservation across the state as a result of the Senate bill prior, and I think one of their biggest issues as I've watched them is that there are too many ways out there that people can calculate the per capita consumption, and that's one of their goals I think is to try to -- when you start looking at San Antonio versus Dallas versus Houston, that we all get on the same page and start using the same method so when we do speak about a per capita usage, that we're talking the same language. So that is one step in trying to consolidate.

And to follow up your question, when you say 5.5 percent, the concern is that's over this planning period? It's over a 20 year period? What period of time do we -
-

MR. AFINOWICZ: That is realized almost immediately. So that level of conservation represents 5.5 percent reduction in the 2010 demand, the 2020 demand compared to what it would normally be and that's on top of some conservation that's built in by the Water Development Board in their projections.

MR. NELSON: When you say conservative, is that number down from prior?

MR. AFINOWICZ: That number is slightly down from what was shown in the 2006 plan. I think it's low compared to some other regions, but it's only slightly lower than the 2006 plan. That was related mostly to some more information that came in along the way from the conservation plans.

MR. NELSON: Thank you.

MR. BARTOS: Okay, any other comments, questions, anything?

Okay, anything? Anybody else? Temple, do you have anything to add?

MS. MCKINNON: No.

MR. BARTOS: Okay. Well, I thank everybody again for coming. I hope that you will follow up and leave public comments so that the regional group can look at them and pay attention to what's going on in water planning these days. It's an exciting time and a lot is happening. So thank you very much. We'll adjourn the meeting.

(Hearing adjourned at 7:20 p.m.)

Appendix 10F

Public Hearing Materials
April 1, 2010

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Contents – April 1, 2010 Public Meeting

1. **Public Notice**
2. **Presentation**
3. **Speaker Forms**
4. **Meeting Transcript**



REGION H WATER PLANNING GROUP

Senate Bill 1 - Texas Water Development Board

c/o San Jacinto River Authority

P. O. Box 329, Conroe, Texas 77305

Telephone 936-588-7111

TO:

- Each mayor of a municipality with a population of 1,000 or more or which is a county seat that is located in whole or in part in the Region H water planning area;
- Each county judge of a county located in whole or in part in the Region H water planning area;
- Each special or general law district or river authority with responsibility to manage or supply water in the Region H water planning area based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality;
- Each retail public utility, defined as a community water system, that serves any part of the Region H water planning area or receives water from the Region H water planning area based upon lists of such entities obtained from Texas Commission on Environmental Quality; and
- Each holder of record of a water right for the use of surface water the diversion of which occurs in the Region H water planning area based upon lists of such water rights holders obtained from Texas Commission on Environmental Quality.

RE: **Public Notice of an *Initially Prepared 2011 Region H Water Plan (IPP)***

DATE: February 26, 2010

PUBLIC NOTICE

To All Interested Parties:

The Region H Water Planning Group area includes all or part of the following counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Leon, Liberty, Madison, Montgomery, Polk, San Jacinto, Trinity, Walker, and Waller.

Notice is hereby given that the Region H Water Planning Group (RHWPG) is requesting public review and comment on an Initially Prepared 2011 Region H Water Plan (the IPP).

A summary of the content of the Draft Initially Prepared Plan: The *Initially Prepared Plan (IPP)* updates the 2006 Region H Water Plan that was included in the 2007 State Water Plan prepared by the Texas Water Development Board (TWDB). The IPP addresses the following topics:

- Water needs based on projected population and water demand
- Water supplies available to meet projected water demand
- Water management strategies for meeting any identified water shortages
- Socioeconomic impact of not addressing shortages
- Impacts of Management Strategies on Water Quality and Agricultural Areas
- Water Conservation and Drought Management

- Protection of Water Resources and Natural Resources
- Proposed Unique Stream Segments
- Proposed Unique Reservoir Sites
- Regulatory, Administrative and Legislative Recommendations

Public Comment: Public hearings to receive public comment on the IPP will be held at the following dates and locations:

March 30, 6:30 p.m.

Houston-Galveston Area Council
3555 Timmons, 2nd Floor, Room A
Houston, Texas 77027

April 1, 6:30 p.m.

Truman Kimbro Convention Center
111 West Trinity
Madisonville, Texas 77864

April 7, 10 a.m.

Lone Star Convention Center
9055 FM 1484
Conroe, Texas 77303

The RHWPG will accept written comments until 5:00 p.m. June 8, 2010. Written comments should be provided to:

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

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

Questions or requests for additional information may be submitted to: Reed Eichelberger, General Manager, San Jacinto River Authority, P.O. Box 329, Conroe, TX 77305-0329, telephone 936-588-7111. The San Jacinto River Authority is the Administrator for the RHWPG.

A copy of the Initially Prepared Plan for 2011 is available at the County Clerk's Office and at a depository library in each county in Region H. A list of depositories is attached. A copy also is available on the RHWPG website at www.regionwater.org and on the regional planning section of the TWDB website at www.twdb.state.tx.us/wrpi/rwp/rwp.htm.

DEPOSITORY LIBRARIES IN REGION H

AUSTIN COUNTY

Gordon Library
917 Circle Drive
Sealy, TX 77474

BRAZORIA COUNTY

Angleton Public Library
401 East Cedar
Angleton, TX 77515

CHAMBERS COUNTY

Chambers County Library
– Main Branch
202 Cummings
Anahuac, TX 77514

FORT BEND COUNTY

George Memorial Library
1001 Golfview
Richmond, TX 77469

GALVESTON COUNTY

Rosenberg Library
2310 Sealy
Galveston, TX 77550

HARRIS COUNTY

Houston Public Library - Central
1st Floor, Bibliographic Information Center
500 McKinney
Houston, TX 77002

LEON COUNTY

Ward Memorial Library
207 East St. Mary's
Centerville, TX 75833

LIBERTY COUNTY

Sam Houston Regional Library
and Research Center
650 FM1011
Liberty, TX 77575

MADISON COUNTY

Madison County Library
605 South May
Madisonville, TX 77864

MONTGOMERY COUNTY

Montgomery County Central Library
104 Interstate 45 North
Conroe, TX 77301

POLK COUNTY

Murphy Memorial Library
601 West Church
Livingston, TX 77351

SAN JACINTO COUNTY

Coldspring Area Public Library
14221 State Highway 150 West
Coldspring, TX 77331

TRINITY COUNTY

Blanche K. Werner Library
203 Prospect Drive
Trinity, TX 75862

WALKER COUNTY

Huntsville Public Library
1216 – 14th Street
Huntsville, TX 77340

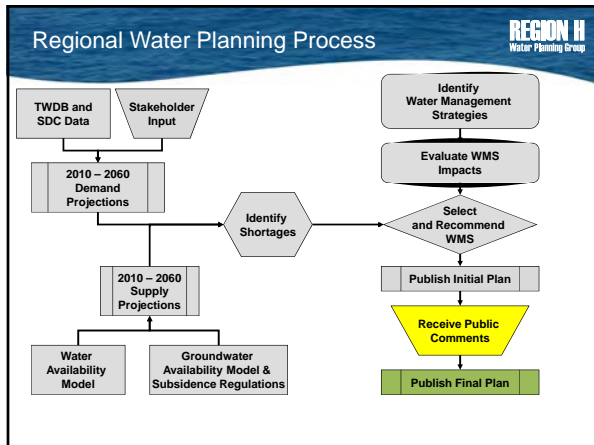
WALLER COUNTY

Waller County Library -
Brookshire/Pattison
3815 Sixth Street
Brookshire, TX 77423



Regional Water Plan Overview

- Region H Overview
- Population and Water Demand Projections
- Water Supply Estimates
- Water Management Strategies
- Protection of Water Resources
- Unique Stream Segments & Reservoirs
- Administrative, Regulatory and Legislative Recommendations
- Infrastructure Financing Survey and Recommendations
- Special Studies

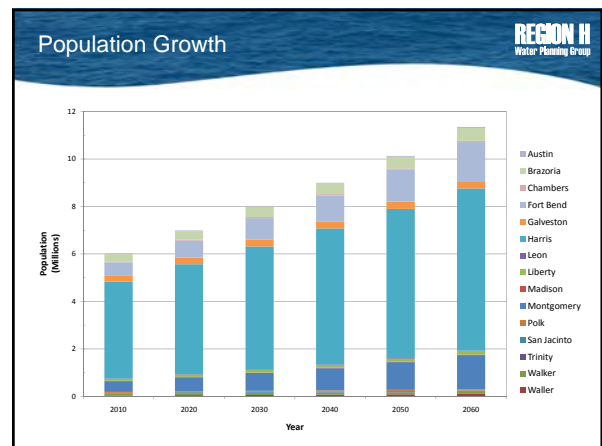


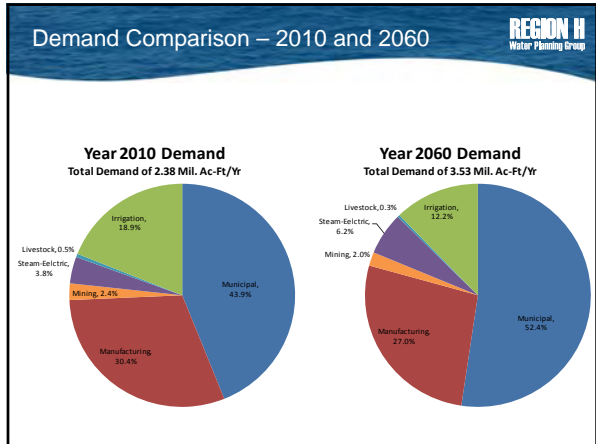
Regional Water Planning

- 16 Planning Regions
- Region H
 - 15 Counties
 - 3 River Basins
 - 4 Coastal Basins
 - 2 Major Aquifers
 - 4 Minor Aquifers
- 50-year water plan (2010-2060), updated every 5 years
 - Previous Plans: 2001 and 2006
- State Water Plan published one year after final regional plans

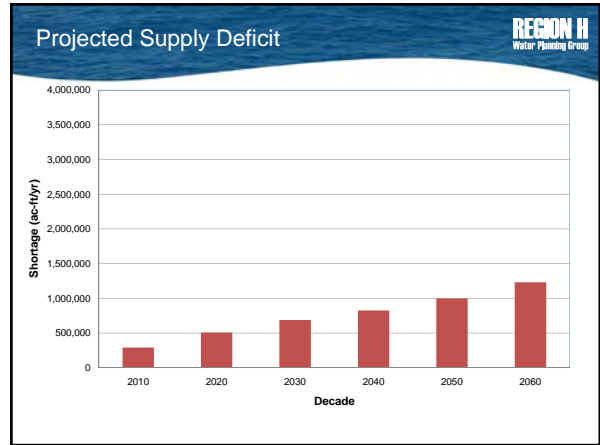
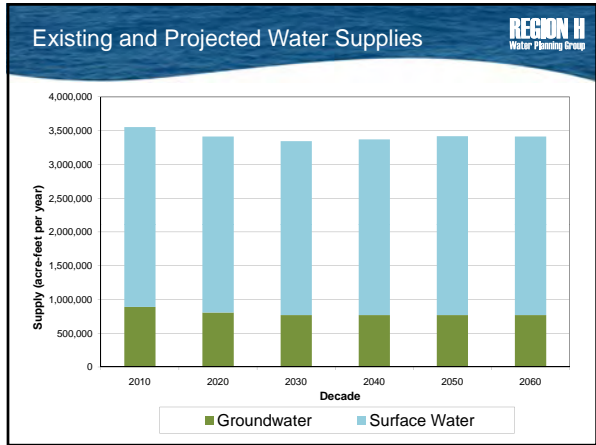
Population and Water Demand Development

- Revision to values in the 2006 Regional Water Plan
- Updated population and associated demand with data from various sources:
 - State Data Center
 - Texas Water Development Board
 - Individual communities and water authorities
- Approved by Region H in public meetings
 - May and July, 2009
- Approved by Texas Water Development Board in October, 2009





- ### Available Water Supplies
- REGION H Water Planning Group
- Supplies determined by
 - Surface Water Availability Model (drought of record)
 - Groundwater Availability Model or local regulations
 - Total Existing Supplies
 - 3,561,017 acre-feet per year
 - 75% surface water
 - 25% groundwater
 - 2060 Available Supplies
 - 3,415,860 acre-feet per year
 - Groundwater use reduced by regulation
 - Reservoir storage reduced by sedimentation



- ### Selected Management Strategies
- REGION H Water Planning Group
- Conservation Strategies
 - Industrial
 - Irrigation
 - Municipal
 - Contractual Strategies
 - Contracts to water users (WUGs)
 - Contracts among water providers (WWPs)
 - Groundwater Strategies
 - Expanded Use of Groundwater
 - Interim Groundwater Use
 - New Groundwater Wells for Livestock

- ### Selected Management Strategies
- REGION H Water Planning Group
- Groundwater Reduction Plans
 - City of Houston
 - North Harris County Regional Water Authority
 - Others
 - Reservoir Strategies
 - Allen's Creek Reservoir
 - Gulf Coast Water Authority Off-Channel Reservoir
 - Millican Reservoir
 - Permit Strategies
 - Brazos River Authority System Operations
 - Houston Bayous Permit

Selected Management Strategies

- Reuse Strategies
 - Houston Indirect Wastewater Reuse
 - Wastewater Reclamation for Industry
 - Wastewater Reclamation for Municipal Irrigation
 - Others
- Infrastructure Strategies
 - Luce Bayou Transfer
 - COH, NHCRWA, WHCRWA, CHCRWA, and NFBWA Transmission and Distribution Systems
 - CLCND West Chambers County System
 - Others

Selected Management Strategies

- Other Strategies
 - Brazoria County Interruptible Supplies
 - Brazos Saltwater Barrier

Major Water Management Strategies

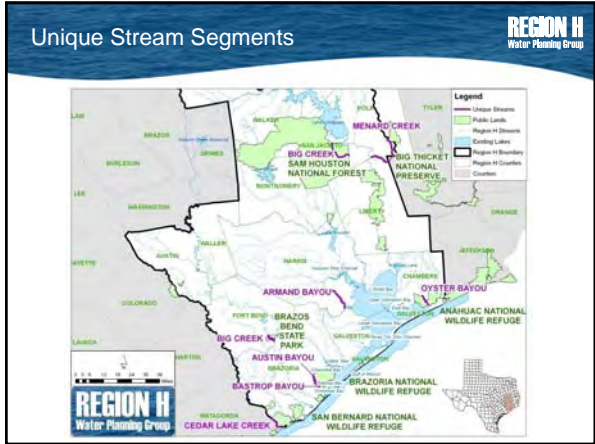
Major WMS	Sponsor	Selected Strategy	Projected Start Decade	2010	2020	2030	2040	2050	2060
				Total Allocated (ac-ft/yr)					
Reservoirs									
Atens Creek Reservoir	BRA / Houston	Y	2020		76,441	93,686	97,954	99,580	99,650
GCWA Off-Channel Reservoir	GCWA	Y	2030			39,500	39,500	39,500	39,500
Millican Reservoir (Panther Creek Dam)	BRA	Y	2040				11,627	58,351	120,994
Contractual Strategies									
TRA to Houston Contract	TRA / Houston	Y	2030		116,738	123,524	123,524	123,524	
TRA to SJRA contract	TRA / SJRA	Y	2040			7,935	39,096	76,476	
Reclamation/Reuse									
Houston Indirect Wastewater Reuse	Houston	Y	2040				66,400	114,679	128,801
NHCRWA Indirect Wastewater Reuse	NHCRWA Houston	Y	2040				7,300	16,300	16,300
Wastewater Reclamation for Industry	Manufacturing	Y	2060						67,200
Permit Strategies / Other									
Brazoria Interruptible Supplies for Irrigation	GCWA	Y	2010	104,977	86,759	64,000	64,000	64,000	64,000
BRA System Operations Permit	BRA	Y	2020		6,621	18,870	25,350	25,350	25,350
Interim Strategies	NA	Y	2010	45,512					
Total				150,489	169,821	332,796	443,610	580,380	761,795

Protection of Water Resources

- Water Conservation
 - Recommended as the first strategy
 - Applied to meet projected shortages
- Strategy Selection Process
 - Yield and environmental impacts were considered with the unit cost of water
- Existing Supplies
 - Utilized prior to recommending new water supply projects
- Reuse
 - Included in Fort Bend, Harris County and Montgomery
 - Recommended in lieu of additional imports/reservoirs

Unique Stream Segments

- Eight stream segments were selected in 2006 and adopted by Texas Legislature:
 - Armand Bayou
 - Big Creek (San Jacinto)
 - Austin Bayou
 - Cedar Lake Creek
 - Bastrop Bayou
 - Menard Creek
 - Big Creek (Fort Bend)
 - Oyster Bayou
- 2011 Regional Water Plan retains the designations for these sites



Unique Reservoir Sites

REGION H Water Planning Group

- 2011 Regional Water Plan includes five Unique Reservoir Sites
 - Four already designated
 - Allens Creek Reservoir – 2011 Selected Strategy
 - Little River Reservoir
 - Little River Off-Channel Reservoir
 - Bedias Reservoir
 - One recommended for designation
 - Millican Reservoir – 2011 Selected Strategy

Unique Reservoir Sites

REGION H Water Planning Group

Designated Sites

- Allens Creek Reservoir
 - Strategy in 2001, 2006, and 2011 RWPs
 - Austin County
- Little River Reservoir
 - Strategy in 2001 RWP
 - Milam County
- Little River Off-Channel
 - Strategy in 2006 RWP
 - Milam County
- Bedias Reservoir
 - Strategy in 2001 RWP
 - Grimes, Madison, and Walker Counties

Unique Reservoir Sites

REGION H Water Planning Group

Millican Reservoir

- Not yet designated by Texas Legislature
- Recommended in 2011 Region H Plan
- Location:
 - Primarily Brazos, Grimes, and Madison Counties
 - Located on Navasota River
- Yield: 194,500 afy
- Capital Cost:
 - \$1,159,907,000

Policy Recommendations

REGION H Water Planning Group

- Retained 15 Recommendations from 2006 Plan
 - 3 Administrative and Regulatory Recommendations
 - 12 Legislative Recommendations
- One New Legislative Recommendation
 - *Direct the State Demographer's Office to explore the potential changes in population distribution made possible by rapid advancements in information technology.*

Water Infrastructure Financing

REGION H Water Planning Group

Infrastructure Funding Requirements

- Capital Costs for the 2011 Region H Water Plan
 - Estimated at \$12.9 Billion (2008 Dollars)
- Water Infrastructure Financing (WIF) Survey
 - 2011 Survey will utilize TWDB Web based tool
 - Objectives:
 - Determine number of entities with finance needs
 - Identify infrastructure costs that cannot be financed locally
 - Summarize each WIF project and location in Plan

Special Studies in the 2011 Plan

REGION H Water Planning Group

Impacts of 2006 Strategies to Galveston Bay

- Modeled Impacts Over Time (2010 – 2060)
- Considered Upstream Impacts
- Near-term reductions in flow offset by higher return flows in long-term
- Mitigate increased water usage in later decades

Decade	Oakwood (cfs-byr)	Galveston Bay (cfs-byr)
2010	~3,000,000	~2,800,000
2020	~4,200,000	~2,800,000
2030	~4,000,000	~2,800,000
2040	~4,000,000	~2,800,000
2050	~4,000,000	~2,800,000
2060	~4,000,000	~2,800,000

Special Studies in the 2011 Plan



Water Conservation

- Conservation Survey
 - Included municipal, industrial and commercial conservation
 - Additional conservation plans obtained from TWDB

- Conservation Management Strategies
 - No change to Irrigation conservation strategies from 2006 RWP
 - WUG specific strategies where applicable
 - 3-tiered municipal strategy based on WUG size for other municipal WUGs
 - Conservation used to address over 200 WUG shortages

Public Comment on the IPP



- IPP Available:
 - <http://www.regionhwater.org>
 - County Clerk's Office in each county
 - Depository library in each county

- Public Hearings
 - Tuesday, March 30th @ 6:30 PM – Houston
 - Houston-Galveston Area Council

 - Thursday April 1st @ 6:30 PM– Madisonville
 - Truman Kimbro Convention Center

 - Wednesday, April 7th @ 10:00 AM – Conroe
 - Lone Star Convention and Expo Center

Public Comment on the IPP



- Taking comments through:
 - 5:00 PM June 8, 2010

- Please submit comments to:
 - Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

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

**Questions
and Comments**



PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

BOBET QUESTION
COST / ACFT.
REVISION COSTS

NAME: ROBERTS AVERYS

AFFILIATION: LANDOWNER

ADDRESS: 14695 STATE HWY 30, C.S. TR 77895
City State Zip

979-324-1740 | RAVERYS@YAHOO.COM
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Reservoirs

NAME: Daigui Beebe

AFFILIATION:

ADDRESS: 25521 CR 131, Bedias 77831
City State Zip

Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Our Land, ^{is} Home

NAME:

Brenda Bender

AFFILIATION:

B Ranch

ADDRESS:

1269 Town & Country Ln Madisonville, TN 37054

City

State

Zip

936-348-9062

Telephone

Fax

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Panther Creek

Bundic

NAME:

Cathy Cox

AFFILIATION:

Guardians of the Navasota

ADDRESS:

12464 Long Trussel Bryan Tx

77808

City

State

Zip

281-703-8205

Telephone

Fax

E-Mail

Cathy@Coxfamilyfarm.com

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Panther Creek
Bundic

NAME: Leonard Cox
AFFILIATION: Guardians of the Nevasota River
ADDRESS: Bryan Tx 77808
979-589-1075
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

FRED DAVIS

Downstream impact
Environmental impact

NAME:
AFFILIATION:
ADDRESS:
City State Zip
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Panther Creek

Bundie

NAME: Mark Dudley

AFFILIATION: Guardians of the Neversote

ADDRESS:

City State Zip
~~979-588-1075~~ | |
Telephone Fax E-Mail
979-399-6185

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Eliminating Bedias as a Viable Alternative Strategy

NAME: Gerald Jozwiak

AFFILIATION: Citizen

ADDRESS: 1940 Penby Madisonville 77864

City State Zip
938-348-1747 | |
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics: Just QTA (Spoke)

NAME: Bill Knotts

AFFILIATION: _____

ADDRESS: 2227 Robinson Way Huntsville Tx 77340
City State Zip

936 295 3439
Telephone

Fax

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Flooding Navasota

NAME: John Knotts

AFFILIATION: Land owner / son of land owner

ADDRESS: Huntsville Tx. 77340
City State Zip

Telephone

Fax

E-Mail

JKnottist45@a
yahoo.com

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - April 1, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

QUESTION ABOUT FULL POOL ELEVATION AND
EMERGENCY SPILLWAY ELEVATION.

NAME: JOHN MELVIN

AFFILIATION: BULTRA P.O. BOX 4713

ADDRESS: BULTRA IL 77805

099-575-4335 | 999-778-0044 | SMELVIN@BULTRA-Cmn

Telephone

Fax

E-Mail

REGION H WATER PLANNING GROUP
PUBLIC HEARING
THURSDAY, APRIL 1, 2010
TRUMAN KIMBRO CONVENTION CENTER
111 WEST TRINITY
MADISONVILLE, TEXAS
6:30 P.M.

Transcript prepared by:

The Captioning Company

P. O. Box 441179

Houston, Texas 77244-1179

(281)684-8973 (cell)

(281)347-2881 (fax)

captioningcompany@comcast.net

MR. EVANS: Good evening to everyone. As a way of introduction, my name is Mark Evans, I'm the county judge over in Trinity County, but I also serve as chairman of the Region H Water Planning Group. I would like to recognize other members of our Water Planning Group that are here. Steve Tyler is here, and Bill Teer is here, John Howard and then the Madison County judge Art Henson is here as well and certainly thank y'all for all being here.

Also we have Temple McKinnon with the Water Development Board is here with us as well and hopefully I haven't missed any Water Planning Group members.

The way we're going to proceed this evening is we're going to have a presentation on our draft Region H Water Plan. After that we will take public comments from everyone that wishes to enter their comments about the plan into our record. And then certainly as long as time allows, we'll go as late as we have to because I never know where that would run to, but we will at least stay as long as they are serving crawfish at the restaurant next door. Then we'll have questions and answers and we'll have as many of your questions answered as we possibly can.

At this time I'm going to call on Jason Afinowicz who is our consultant on this, and he'll go through the plan. Jason...

MR. AFINOWICZ: And thank you everyone for coming out tonight. Just to give you a little bit of a comparison here, two nights ago in Houston we had a group of maybe a dozen people. This is a much better showing. So y'all are doing a much better job than Houston did.

The public involvement part of the Region H -- regional planning process in general across the whole state is a key part of what makes a planning process work. It's a grassroots approach, bringing public interest and comment in developing a plan which will eventually lead to a state water plan. I appreciate all y'all being here tonight.

Just to give you an idea of what we're going to talk about, first is an overview of what Region H is, a little bit of talk about population water demand projections, the water supplies and then the strategies that are considered to meet those shortages that were identified. A little bit of talk about protection of water

resources that are included in the plan, discussion of unique stream segments and reservoir sites, regulatory and legislative recommendations which are also included as part of the plan and also how all of this gets funded as part of the funding process. And a little discussion about special studies that were included in the plan to give you an idea of what's in the full document itself.

This illustration kind of gives you an idea of how the planning process works at a very high level view. Up at the top you see some consideration for the development of future water demands out through the year 2060. And down below a look at what available water supplies will be in the future. Once those two steps are done, the shortages in between those that delta is identified, from there management strategies are selected and an initial plan is prepared and that's what you've seen on the website if you've been able to visit there at Region H water.

And then at that point, this is a great opportunity to receive public comments on that plan and take that into consideration before the conclusion of the planning process and the development of the final plan.

This is a map of Region H here. We're way up at the top here tonight. Region H consists of 15 counties and this includes three river basins and two major aquifers. The plan itself is created to figure out what the needs are for water resources from the year 2010 to 2060, a very wide planning horizon, but that's the horizon you've got to look at to consider what needs are in the future and to start planning now. And then once this plan is turned into the state, eventually the state water plan will follow one year later.

Starting with population water demands, this is really the basis for everything, knowing what the needs are for water in the long term. Initially, this started with the use of numbers from the 2006 water plan that was just five years ago. There was no census data available obviously since we're just turning that stuff in today. There was no information that could really be used to directly update that, but the best information available from the State Data Center, Texas Water Development Board and actually the communities and water systems themselves were all compiled to update the needs into the future.

These were considered in public meetings by the Region H Planning Group and then approved in May and July of last year. And then this was later approved by the Water Development Board later in the year.

MR. EVANS: Sorry about this, but some of the folks are having a hard time hearing you.

MR. AFINOWICZ: Sorry about that. They don't always make these things for tall people. I've just got to try. How is that? A little lower. We'll try that.

And that population data, once we start taking a look at it, kind of shows an upward trend as you see here starting at around maybe 6 million people in the year 2010 growing to as much as 11 million out in the year 2060. A lot of that growth that you see is in Harris County but an awful lot of that is also in the surrounding counties as growth in the region starts to spread out and covers a much larger area than it traditionally did.

To translate into a water demand -- the current demand is approximately 2.38 million acre-feet per year. And you kind of see the portions there of how that's split up. In the year 2060 this will increase by about 50 percent to over 3.5 million acre-feet per year and these are the additional needs that have to be considered and some sort of strategy devised for dealing with future demand.

Water supplies were determined from the best available science. This included water availability modeling, known as the WAMS, devised by TCEQ for determining surface water availability and also input on groundwater from local GCD's and also subsidence districts in Harris and Galveston and Fort Bend and so forth.

This translated to a total existing supply of just over 3.5 million acre-feet per year, which remember is pretty close to that 2060 demand number. The 2060 supplies, however, do decrease over time because of sedimentation of reservoirs, reduced yield from surface water supplies and also regulation of groundwater. This kind of gives you an idea of those supplies there. You see there is a much larger portion of surface water within Region H than groundwater.

Now, all of this sounds great as in it's about that 3.5 million acre-foot amount except the water is not always where it needs to be and it's not always in a form that's usable. This shows an illustration of how shortages are projected to grow over time out to 2060 where shortages are anticipated to be about 1.2 million acre-feet per year.

This is where strategies come in. Once that deficit has been identified, strategies can then be applied to figure out how all those shortages are going to be met. These strategies -- conservation, contracts, groundwater -- are some of the first ones that the Region H Planning Group looked at. Conservation has always been a primary focus of the group, and in this plan there has been industrial, irrigation, and municipal conservation included into the plan to meet some of those future demands as much as possible. Also contractual strategies have been implemented which basically represent the use of existing water that can be contracted to people that's already there without the development of a new supply. Groundwater strategies have also been used wherever possible.

Beyond this, the groundwater reduction plans which are being implemented by water providers in the Houston area have been included here to represent the surface water conversion that they are performing at this point.

There are reservoir strategies recommended, including Allens Creek Reservoir in Austin County. There is a small reservoir for the Gulf Coast Water Authority that's recommended in Brazoria County to convert some of their interruptible supply to a firm yield, something that can be relied on all the time. And also Millican Reservoir is recommended as a major strategy for the Lower Brazos Basin and those needs.

There are also permit strategies considered. One of those is the Brazos River Authority system operations permit which is a way to more effectively use water out of the existing system without new infrastructure. Reuse has been implemented to a large degree and this is from small systems, direct reuse systems, something going directly from the wastewater treatment plant to irrigation. Or also larger indirect reuse strategies, wastewater reclamation for industry and municipal irrigation as well.

There are infrastructure strategies in this plan, and one of those being the Luce Bayou transfer which has been included in the Region H plan since the beginning in 2001. And this is actually moving forward at this point. Also there is distribution infrastructure for the City of Houston, the regional water authorities and others as well as Chambers-Liberty County's Navigation District in Chambers County.

Other strategies also include interruptible supplies for irrigation in Brazoria County. This is a strategy that mirrors the way water is currently used in that county and also the Brazos Saltwater Barrier which is intended to increase water quality in the lower basin.

This kind of gives you a quick illustration of some of the more major strategies. You'll see some of these are much more significant than others, there is also a matter of timing, too. Strategies like the interruptible supplies for irrigation in Brazoria County begins as early as 2010, right now. However, some others, like Millican Reservoir, begin in 2040 or some of the reuse strategies out in 2060 will take some time to implement and will be used later on in time.

The whole plan was assembled with an emphasis on the protection of water resources for the entire state, including the use of water conservation wherever possible, the strategy selection process itself, did not just consider the cost of water, but what the environmental impacts would be and what the impacts were on other water resources. Existing supplies were utilized as much as possible to prevent developing new strategies where there didn't need to be one and also reuse was included as much as possible.

The planning group has an opportunity to nominate stream segments as unique stream segments. These are sites that have very unique characteristics for one reason or another. There were eight that were selected in the 2006 Water Plan. These have been adopted by the state legislature and these same nominations and recommendations have been included in this 2011 plan.

This map gives you an idea of the locations of those. Also kind of the opposite of unique stream segments is unique reservoir sites. And there were four that were already designated in previous plans, one of these being Allens Creek, which is

selected as a strategy in this plan, but also Little River Reservoir which was a strategy in the 2001 plan and was not a strategy in the 2006 plan or the 2011 plan. Little River Off Channel which was selected as a strategy in 2006 also isn't selected as a strategy in 2011, and Bedias Creek which was selected as a strategy in 2001 but hasn't been implemented as a strategy ever since.

One new recommendation for this planning round is Millican Reservoir which has been, like I said, recommended for meeting demands in the Lower Brazos Basin. Again, this gives you an idea of those reservoir sites. A little bit more on Millican -- it has not yet been designated by the state as a unique reservoir site. It is recommended as a strategy in this 2011 plan though.

The planning group also has the opportunity to make several recommendations, and 15 recommendations were retained from the 2006 plan. These are recommendations to the legislature and regulatory offices of the state. One new recommendation was also considered to direct the state demographer to consider not just past trends in population growth, that population growth will always occur where it has in the past but also consider the impacts of technology and the ability for smaller rural areas to grow at larger rates than are currently anticipated because of telecommuting and other impacts.

Water infrastructure financing is a section in the plan that considers how is all this going to be paid for. It's a significant amount of money. And the 2011 plan -- just the capital costs for implementing the strategies identified is nearly \$13 billion. To address this, the Water Development Board is intending to send a survey to water user groups, wholesale water providers that are going to be implementing strategies over the next 50 years to determine what their ability is to pay for that, if they need assistance and what sort of programs may be out there to help them.

One special study considered in the 2011 plan was a study of environmental impacts to Galveston Bay. This kind of grows on an earlier study that went on to examine what are the impacts of individual water management strategies in the year 2060.

This study actually looked at what are the impacts over time. There are significant impacts from the upper Trinity Basin and the metroplex and things going on up

there that impact us in the lower basin. This study looked at what return flows were from upstream, Region C and implemented the Region H strategies over time to determine what overall impacts would be to Galveston Bay. And this figure here kind of gives you an idea of what the median flows are at two points, one of them is the Oakwood gauge on the Trinity River and the other one is the Trinity River into the Galveston Bay. And over time you see that this study shows that there is a small decrease in the near term due to strategies from Region C, but as flows increase over time, that that mitigates some of the additional use of water from Region H.

As we talked about before, water conservation has been a major part of the Region H planning process from the beginning including this plan. A conservation survey was conducted of water user groups in the region to determine what sort of conservation practices they use, what sort of savings they could expect and how that could be best molded into conservation strategies for this plan.

There were some opportunities to implement specific strategies for some of the water user groups within Region H, those demand centers, and also this provided some input for directing the way general conservation is done in the plan. And going back to the emphasis of public involvement here, as you probably know, the initially prepared plan is available on the Region H website. You see the address there. There are three public hearings that are being held. Region H is only required to do one public hearing just to cover the plan right before it's finalized and put into final form, but the planning group felt it was important for there to be three meetings held and this is one of them. This is the second of those three meetings. The third will be next week in Conroe as you see there.

The planning group will be taking comments on this plan through June 8th, 2010. And they can be submitted to the chair of the Region H Planning Group or directly to the Texas Water Development Board.

AUDIENCE MEMBER: Would you go back to that previous slide? No, the addresses.

MR. AFINOWICZ: And that concludes our part of this just to give you an overview of what's going on.

MR. EVANS: All right, thank you, Jason. At this time we're going to take public comments, and as Jason said, we are having two additional public hearings to get those public comments. So we really want to hear what you have to say.

MS. CALLAWAY: These are the people that signed up to speak.

MR. EVANS: What we're going to ask you to do if you've signed up to speak, and I call on you, if you would at all possible come forward where the reporter can hear you and get your comments on the record because we certainly want to do that. There is not an aisle over here, but if you're over here maybe you can come around here where the court reporter can see you. I think the room is such if you speak up we'll be able to hear you.

You don't think so. We're going to accommodate our reporter the best we can. So we're going to try and just have you come forward. If that doesn't work, we'll get you here at the microphone. She's nodding her head like I think we want to start at the microphone. As a judge, I know the reporter has the record, so what she says goes.

So we will start first with Robert Averyt. I hope I got that right. Averyt.

MR. AVERYT: Thank y'all. I know we're limited to three minutes. I can talk for days. I've got several concerns. I've spent quite a bit of time since last Sunday when I found out about this going over y'all's website and a bunch of the report that we looked at today. I have just all kinds of questions about your cost estimate summary. Some of the numbers I just -- I don't see how it could be done.

Land acquisition and survey, you guys have \$399,218,000 for land acquisition and survey. I'm addressing the Millican. I'm sorry, the Millican Reservoir. If you divide that by 71,200 acres, that's \$5,600 an acre. A lot of my neighbors that I've talked to say their land is priceless. It is to those folks. They've held it for generations and generations. I respect that. It's priceless.

My land I've owned for 15 years, and I've spent a lot of money upgrading it. Mine is not priceless, but it's not available for \$5,600 an acre. I need a whole lot more than that.

Jason, one of the things I question in one of your slides, the 2010 supplies I think you guys have got a problem with one of your slides. I think your usage is a whole lot more than what you are showing your supplies to be right now. I've seen all kinds of discrepancies in the information that I've been able to get, and I'm not pointing a finger. We need more -- we need good information to where we can give you guys good public opinion.

Millican Reservoir -- I'd love to know what the designed elevation level is. Is it 263 or 274? Can anybody answer that?

MR. EVANS: What we want to do is make your comments first and then we'll come back.

MR. AVERYT: That's one of our questions. Nobody knows the elevations we're talking about.

Let's see, the projections from your water costs in the stuff that I've seen, you guys are projecting \$424 per acre-foot of water that you'll be able to sell water for. Currently, Tampa Bay, Florida is desalinating water at a cost of \$650 per acre-foot. This has been a rushed research project for me. My research shows, and what I have read and learned, there are estimates they'll be able to desalinate water -- the cost to desalinate water will be reduced by 20 percent in the next five years, and by 50 percent by year 2020. So that would put the cost of desalinated water way below what you guys are going to be able to sell water for, before your project even comes online. So I'm concerned about the numbers. I'm a numbers guy, an old machinist from way back. I love numbers. To me, your numbers don't work.

I'd like to know where the dam for the Millican is supposed to be located. The maps I've seen -- I've seen two different maps in some of the publications. I live in the Navasota bottom. If the levels are 263, I've got two houses that are going to have about 40 feet of water above them. I've got scuba gear, but I'm not that good with it.

Thank y'all, and I'm proud to see the turnout tonight.

[APPLAUSE]

MR. EVANS: Thank you for your comments, Mr. Averyt, the questions as well. When we get to the question time, we'll certainly have the opportunity for some of the guys up here on the front row to take a shot at your questions.

MR. AVERYT: Thank you.

MR. EVANS: Our next speaker will be Gerald Jozwiak.

MR. JOZWIAK: Good job.

MR. EVANS: Full disclosure, I did have a little help. I used some local knowledge.

MR. JOZWIAK: Thank you, Judge. Appreciate it. Yes, my name is Gerald Jozwiak, and I live in Madison County. And I have a prepared statement. I'm going to try to read a part of it and submit my letter in.

My first point I would like to make is regarding the future steam and electric demand for Madison County. The IPP shows no demand for the Madisonville power plant project. Please include this demand of 3 million gallons a day in your regional plan. If this project fails to materialize, the demand can easily be taken out in the 2016 plan. All surface water rights in our county are owned by other entities. Our groundwater must be protected to the fullest.

In the regulatory and legislative recommendations, it states that all future power plants in Madison County use surface water, preferably from Lake Livingston, just like Tennasco right down the street here. They use water from Lake Livingston.

The management strategy for Millican Reservoir needs to be eliminated from the IPP. The loss of wildlife habitat and bottomland forest will greatly impact our area.

Remove Bédias Creek out of the IPP as a viable alternative strategy. With Bédias removed from the plan, Bédias will immediately lose its unique reservoir site designation, and most of my other comments have to deal with Chapter 8. The first thing is Bédias Creek Reservoir is the only Region H reservoir site listed in both the 2008 reservoir protection study and the 2007 Water Plan as a recommended reservoir site. That concerns us here in Madison County. This

concern is that Bédias is ranked No. 3 on the list out of 220 studied sites by the reservoir protection study. And we're ranked up there high. Allens Creek and I believe Columbia is ahead of us, and both of them are permitted and funded already. Us being ranked third is not good news for our county. If Bédias is eliminated out of the plan, it will take the unique reservoir status out of the program, and we'll be down on the list maybe in the middle of the list. People won't be trying to grab our water then.

Also again about the -- they call it the reservoir protection study or the reservoir acquisition study. This is a concern because in that study it recommends that land be acquired or bought up in advance of the Bédias Reservoir construction and put into a public trust. This kind of discussion has no merit and this study puts a fear amongst the tax paying public by trying to make the site a temporary park or in a trust fund. I don't know what they plan on doing there.

Our tax dollars should be spent on studying alternative strategies if, in fact, Bédias is an alternative strategy. In the regulatory and legislative recommendations, all discussions and ways to implement or encouraged alternative reservoir strategies like Bédias needs to be eliminated. Interbasin water transfers should remain like they are. Right now you're not allowed to transfer water from one river basin to another. For example, from the Bédias Reservoir and the Trinity River basin, the water shouldn't be transferred out of the Trinity River basin to the San Jacinto reservoir basin to Lake Conroe. This is the law right now, and they are asking to amend this. All river basin water should stay in the same basin.

In the financing policy, it says that Bédias should try to obtain state participation funds to help pay for the water transmission line from the reservoir to the back of Lake Conroe. This type of discussion to assist the water users only encourages to build Bédias. This project should stand on its own without any type of state bonds being sold.

In the policy item, it states the U.S. Corps of Engineers could help fund part of Bédias project, partly because it's a flood control project. Again, Bédias should stand on its own without any state, federal or Texas Water Development funds. Bédias Creek deserves ecologically unique stream site designation. It's one of the

last major streams that runs from start to finish without having a dam on it. Bedia is unique in the sense it's the last major stream in our county that's untouched by the government. Please consider protection as a sensitive stream site for the 2016 IPP. Region H needs to reach out to the residents of Madison County for more public participation. We have two reservoirs on the plan, more than any other county, but we lack timely information. By the time we heard about Millican, you already voted on it.

Region H should have done a press release on the Millican before you voted on it in Chapter 4 back in October or November. A press release, too, before the final vote would have been good also so people can come to your meetings. I've been to your meetings, and one or two people comment because you don't send out what you're talking about. I believe that's why the Millican people are here. They just heard about it five days ago. Anyway, I appreciate the time for letting me comment. I have it in writing and I'll submit it also.

MR. EVANS: Thank you.

[APPLAUSE]

MR. EVANS: As was said, written comments -- you can submit those to our address and we'll put those back up again. I think hopefully enough cell phones have went off that you've checked your cell phones and put them on vibrate or turned them off. We would appreciate that.

Our next speaker is Cathy Cox.

MS. COX: I'm Cathy and this is Alice. And Alice has been very upset over the Millican Dam project. And I feel like she deserves her two seconds. So if y'all would give her a minute, I'll lift her up so she can talk in the mic. What did you want to tell them? Do you want to say it? She wants me to say it for her. She says please don't flood my farm because I love my animals. Is that what you wanted to say? All right, go sit. I'm not trying to turn this into a circus. I just feel like she deserves her voice heard, too.

I am Cathy Cox. We have a farm on the Brazos River bottom. My husband's grandfather bought it in 1937, and we are currently living there and working the

farm. If they build the Panther Creek site, it will totally flood us out and we will lose everything.

I just think that -- you know, 50 years ago they brought this dam up and they said, you know, this is what we want to do. The land owners stood together and they fought it and said, no, it's not what we want to do. And it went away. And it's rearing its ugly head again. I think that we're smarter now. I think that we have more technology. There is no reason to build this dam and flood everybody out.

You can -- it's cheaper to build the aquifers, and there is nine aquifers in the state of Texas, than it is to build this dam. It is cheaper to build an aqueduct and pull water directly out of the rivers, which Trinity River could do no problem, than it is to build this dam. A smaller dam, two or three feet above the normal flow of the river, y'all can extract all the water you need. And pulling water out of the Gulf of Mexico like Mr. Robert said, those are all alternatives. I haven't seen anywhere where y'all even looked into those alternatives. And I'm saying, you know, we need to look into them. We need to be smarter.

This is horrible for our ecosystem. It's horrible for our environment. It causes more CO2 gases than all your cars. This, you know, we're more intelligent now. Let's do something different. Let's don't do the same old thing because that's what we've done in the past.

I've got -- I could go on for days and days, too. So I really don't know where to start our stop, but I want to hit a couple more points. One is you're wrecking the oil production that's all up and down the Navasota River bottom. They'll have to cap off all those wells and no longer oil production. Aren't we in need of oil? Didn't Obama just say we can drill offshore and everybody is kind of glad he's taking a step in the right direction, and they are saying it's not enough. So if that's not enough, what are y'all doing by shutting it down?

There is lignite coal under some of that land that if y'all build a reservoir on nobody can get to. The people who live in Grimes County, they go to Brazos -- to Bryan/College Station for a hospital and whatever. If they get sick or are having a heart attack, they are going to have to take an hour detour all the way around this reservoir that y'all built. You're affecting human lives. You're affecting the

economy. You're affecting so much more, and it doesn't look good on paper, and it doesn't look good in real life.

Robert pointed out that your numbers are wrong, and I wanted to point out that this just one discrepancy that I found, but in one table, Table 4b12.8-4 you say the raw water will cost 1.30. And then in another table, 4b12-1 you say the water is going to cost 1.90. You don't know how much it's going to cost because you haven't done the research to be able to know what it's about.

I guess that's all I got to say.

AUDIENCE MEMBER: Here here.

[APPLAUSE]

MR. EVANS: Thank you, Ms. Cox. And Miss Cox as well. As we previously said, all of your written comments will be submitted and entered into the record whether you have the time to speak or not. We also said we'll try to keep our comments to three minutes just to allow as many people the opportunity to speak as possible.

Leonard Cox.

MR. COX: Thank you, sir.

MR. EVANS: Thank you for being here.

MR. COX: Yes, that was my wife and she is a hard act to follow, but she wouldn't let me get off without saying something.

I'm kind of with Robert on catching the numbers and pulling together where it is. I've had people ask me what is the meaning of this conservation elevation? What is 263 feet? How does that impact people? Is there a condemnation elevation and how does that affect people? The 71,000 feet, is that actually taken at the top -- the 71,000-acre of water -- I'm addressing the Panther Creek Reservoir. The 71,000-acre, is that the water level at the top? Will there be land condemned beyond that as a protection land to protect that water as drinking water? And if so, how far back will that be pulled? So that 71,000 is really a low number that we're talking

about here that could double or something? What are we dealing with here? How much shoreline is there around this? And how far does it go up Woodson Creek?

Is the Bundic Dam site a separate site from the Panther Creek site? Are we dealing with a plan that looks at two dams on the Navasota, or are we looking at an either/or situation where the strategy is one or the other? I can't make that determination by reading the documents that are out there on the Internet.

And since I'm in Region G, and looking at Region G, it seems that the Panther Creek was added at the very last minute. I kind of wonder, was it a serious consideration from the get-go to put in Panther Creek, or was it an attempt to slide it in under the radar at the last minute and hope the public wouldn't see it?

I want our neighbors to the south to have adequate water. I don't want to lose the valuable hardwood savanna that goes down through the Navasota bottom. Technology is growing. I think Mr. Robert Averyt quoted some numbers on the cost of the desalination process that would make it very compatible to provide water to Houston and Harris County, Region H. If we can put a man on the moon and build a permanent space station, I think we can get desalination to work. Thank you.

[APPLAUSE]

MR. EVANS: Thank you, Mr. Cox. Mark Dudley.

AUDIENCE MEMBER: He had to leave early.

MR. EVANS: John Melvin.

MR. MELVIN: I'm fine. I just had a question what the pool and flood stages are.

MR. EVANS: We'll address questions after the comments. Brenda Bender.

MS. BENDER: I may need just a little help from my husband. Thank you, Mr. Evans. Thank you for being here in Madison County and those from Grimes and Walker.

My name is Brenda Bender, and I'm here to address the Bedias Creek Reservoir. There are those of us in our community that have retired. My husband retired in 1992 from Pennzoil, and he bought land here in 1999 and built on it.

With recent illnesses, I'm disabled, and I can't hear. If I lose my home, I can't start over again. And I just ask that we take these in consideration. We have neighbors that can't start over again. We're not a wealthy community; but I think that there is other ways to go about getting water to those that need it. And I just thank you for your time as a concerned homeowner and small ranch. Thank you.

[APPLAUSE]

MR. EVANS: Thank you, Ms. Bender. Bill Knolls. I'm reading it the best I can.

MR. KNOTTS: Bill Knotts. I'm not much of a public speaker, and the speakers ahead of me have covered some of the territory I wanted to speak about, but a hearing like this when none of us know the details, we don't know what we're talking about. So why are you asking us questions? Why are you asking opinions when we don't know what our opinions are because we don't know what the reservoir is.

AUDIENCE MEMBER: Amen!

[APPLAUSE]

MR. KNOTTS: We went through this same thing in the '50's I think it was. My dad, Colter Hopkins, Woody Humphreys, the Cobbs, Jake Howard's parents, and we thought it was kind of over then, but you ought to know that when you're messing with the government, nothing is ever over. It comes back and back and back.

But to cut to the chase, I don't think we can give intelligent comments, intelligent answers until we see a topo map and know what the elevations are and know what we're looking at. And does any of the board own land on this Millican Reservoir? I think -- you know, who appoints the board, the governor or who?

I don't think anybody really in the hearing should be heard and given much credence unless you're a landowner, you're the county judges of the counties

involved, the city council of Bryan/College Station and the landowners. I know normally in hearings like this, the people that are advocating recreation, fishing, skiing, duck hunting and things are always the most vocal.

The landowners, we just -- we've had so much thrown on us. I'm a landowner in the northwest corner of Grimes County. And I see that on this Region H, Grimes County is not even included in it, yet we're going to be burdened with a reservoir. And I didn't know what the elevation was. I've got a topo map of the original Millican Reservoir, and I think the pool level -- or the land acquisition level was about 237 feet.

Well, now, as I understand, Averyt said this will be 263. Well, we're going to divide property -- mine has some hills and it has some river bottom. It has some creeks -- Morgan Creek. It's going to isolate a lot of land that I have no access to. And I just don't see the reason in it. I think we've got a lot of bureaucrats that want to sit up there and do something with other people's money and don't have consideration of how you're harming the property owners of this area.

And like Limestone, to me, was a disaster. I just wonder if the Brazos River Authority is practicing on us this month because we have been flooded, unflooded, flooded again with no local rains. It's just a mess to try to -- I've got some land that's beyond the flood that cattle graze on, but then the river comes up and they got to swim water to get back. And I don't understand it.

The lake is silting up horribly. And I don't know why they can't discharge water from Lake Limestone no more than the capacity of the Navasota River channel. But it seems -- I know when they constructed the Limestone, you didn't have these vertical easements, and you didn't have -- you let a lot of developers go in there and build houses that are probably not two feet -- a foot and a half or so above the pool level. The Brazos River Authority doesn't want to be sued, so they dump it down to us downstream.

But I just don't understand the thinking, you know, behind reservoir construction like this and having no concern of the property owners. And just trying to bully us and put it in because it looks good, and I'm wholeheartedly against the whole project.

[APPLAUSE]

MR. EVANS: Thank you, Mr. Knotts, I would just say as far as how the Water Planning Group -- how many of us got appointed, we were appointed by the Water Development Board. Steve maybe can tell me ten years ago -- there have been a couple on since the inception, but the new members are appointed by the planning group themselves, and one of the things that we saw was that Madison County could use a representative on it and just in the last -- within the last year we appointed your -- the elected county judge of Madison County to be on the Water Planning Group.

Our next speaker is Daiquiri Beebe.

MS. BEEBE: Hi, I'm a landowner on Bedias, and I just want to talk in general about all the dams that are proposed. In recent years we had Lake Livingston and Lake Conroe and those were built from what I understand to supply water to Houston. But now it's not enough. And so when will it be enough? Continuing to build reservoirs is not the solution. We need another solution.

Texas has nine existing aquifers under the ground which have the ability to hold massive amounts of water. It's a different process obtaining the water, but it can be done. To get the water into the aquifers you need recharge zones, and to get the water out of the aquifers you need wells and a treatment station. All of these things cost substantially less and will use only a small fraction of land as opposed to the devastation to the wildlife, farmland, countryside and the lives of people that these reservoirs will cause.

I have an example of a situation in Idaho. The state legislature created a natural resources panel to look at the price tags of aquifers and dams. They compared increasing the size of an existing dam by five feet to recharging the Snake River Aquifer. The panel determined that the dam would cost \$186 million and would hold an additional 67,000 acre-feet of water. The aquifer would cost \$100 million and would hold 600,000 acre-feet of water. The aquifer will provide nine times the amount of water for about half the cost of the dam.

The Idaho state legislature chose the aquifer as their solution. I hope that this water board will do more research and find some aquifer experts to give you a proposal on how to supply the water needed in Houston. Aquifers are currently being used in San Antonio and in Bryan, Texas.

[APPLAUSE]

MR. EVANS: Thank you. Before I get the next speaker, if you do wish to speak, if you would see Glenda back here, wherever she's at, and fill out one of our comment forms and you'll get recognized. Our next speaker is Fred Davis.

MR. DAVIS: I'm here representing the (inaudible) Association. We have an interest in about 1,000 acres that hopefully is below the site of the proposed dam. I've been in the Navasota River bottom since I was approximately 13 years old and been hearing about this dam project for the last 30 years at least.

Hopefully we won't lose our ground to this dam, but we have been suffering through the Limestone Dam for as long as it has been there. One of the other general -- gentlemen pointed this out. Unfortunately the Navasota River bottom is one of the last hardwood bottom overflow areas in the state of Texas, most others having been destroyed. It's a unique habitat. And if Ducks Unlimited or some other conservation entity could entertain the thought, it would be considered a unique environmental habitat in this country.

Nevertheless, it is apparently the intention of some state governmental agency to inundate this unique habitat. Let me tell you about Limestone. We have been going through these floods which we can deal with and the habitat can deal with forever as far as I know. But ever since Limestone, there is not one flood, there is two floods or three floods and goodness knows what this new reservoir is going to impose on us.

I've got cattle, but they are not in the Navasota bottom, but it has killed virtually all of the mass producing trees in our bottom and no matter what we can do or try to do, we can't get rid of the water.

Now, I can sympathize with you homeowners wholeheartedly, all you ranchers wholeheartedly and those of us who own recreational property below you have our

own unique problem, but this is not something that apparently is on the minds of planners. Apparently the plan is to have as many people live in Houston and wherever they want to live at whatever cost to the upstream folks that it takes. And it's not surprising to me that you had 12 people in Houston at a meeting and you've got several hundred here. There is a big difference between the takers and the givers in a problem like this.

[APPLAUSE]

MR. EVANS: Thank you, Mr. Davis.

Judy Greer. Did you have some public comments?

MS. GREER: Yes, but I wrote them all down. She's got them. This is it. I'm happy. I live in Brazos County. My family lives in Brazos County. I wasn't really going to say anything, but could we look at that first flow sheet that y'all put up on the PowerPoint?

MR. EVANS: We're going to get back to questions. If you have some comments to enter into the record, let's do those.

MS. GREER: My comment about the flow sheet was that the public opinions, the public comments was very far down on the flow sheet. And I believe that in America, when something is going to affect people to the degree that this will affect the people in this area, we're going to lose our land, we're going to lose our homes potentially, we're going to lose what we've built and what we've paid for and worked hard for so that our children and our grandchildren have something in the future. And if we don't have the right to have the initial comments before decisions and all this work and money is spent to develop these plans, I personally have an issue with that.

AUDIENCE MEMBER: Thank you.

MS. GREER: You're welcome. I also have done just a little bit of research because I haven't had much time, but I think putting in a dam creates so many -- makes so many things happen. All of the vegetation that you drown -- what happens to it? It dies. Is there any subsequent, I mean, consequence to that? Are

gases given off? I'm not an environmentalist; but there are prices to pay for everything that we do. And I think we need to think about that. And our government needs to think about that and our representatives need to think about that.

What happens to a dam when all the soil, the silt that usually flows downstream doesn't get to the land downstream and that doesn't become as fertile as it used to be? Does that silt get locked into the dam? Does that affect the dam's function and the purpose of it? Does it limit its life? I mean, those are things I have questions about.

And who is going to pay for the annual cost of operating that dam for the next 100 years? Is it us? Is it the ones who have lost their lands and their homes? I mean I have really strong feelings about this, and I just wanted to say that. Thank you very much.

[APPLAUSE]

MR. EVANS: Thank you for your comments, Ms. Greer. That is all of the sign-up sheets for comments unless Jason has one more? Is that a public comment?

MR. AFINOWICZ: John Knotts.

MR. EVANS: I think he's already spoke.

MR. KNOTTS: That's my father.

MR. EVANS: John Knotts then. Did you wish to speak?

MR. KNOTTS: Yes. I'm not used to public speaking either. A lot of people have spoken before and have all the numbers and the questions and everything, and so I'm just going to keep it simple.

This river bottom on our property has been in our family for three generations with me and there is four or five more coming. And my wife and I have been looking forward to coming over there in the next few years and living there and looking forward to that for a long time as well as my father. And this is going to seriously

impact our future for our entire family as well as all the other families that have plans. So think about it again real hard. Thank you.

[APPLAUSE]

MR. EVANS: Thank you, Mr. Knotts. That is all of the sign-up sheets we have that request to provide public comments. We've said many times we will take written comments that can be submitted as well.

But at this time if you have some specific questions, we're going to ask the consultants to come up here and they'll answer your questions -- attempt to answer your questions. I just want to say, too, that any questions that you have or anything that you point out about our draft plan, when this Water Planning Group meets on April 7th down in Conroe, I can assure you that the members will take all of the questions you have and your comments into consideration and we'll be discussing them, particularly if there are things in the charts that don't reconcile with each other. So we'll be looking at that as well.

So, Jason, if you want to come up and start fielding some questions -- and what we would just ask you to do for the record as well, we're going to have to get you to identify yourself so the reporter can get that and we'll try and see how we can do that.

MR. AFINOWICZ: I will try to do that to the best of my ability. As you've seen, it's a very large plan. I've had a good team helping me out. So I may have to call some of them in, but I'll do what I can.

Just before we get started with the Q&A, just a few comments. Going through the questions earlier as we received public comment, just had some thoughts. All of these strategies and the plan itself consists of over 50 strategies that were considered by the planning group, including some of the things that were mentioned like aquifer storage recovery and strategies like this have all been considered by the group and talked about, and throughout this whole process the public involvement has been emphasized and we want you to know that the public meetings for Region H are open to people all the time and we're always looking for this input. So this is one of the many opportunities we have for that.

As far as the specifics on Millican Reservoir, to be honest, the Millican Reservoir that you see in this plan is very similar to the one that you've seen over the years. There have been some updates. There have been updates to the firm yield of that reservoir. Obviously the costs of the reservoir have changed in this plan. But a lot of the initial specifics -- the specifics of that project are very similar from the very beginning and what you've seen in the past.

The reason why that is is because of the high level of this planning process. At this point, what we're doing is we're looking at strategies that may be alternatives in the future and which can be further studied and may be implemented into future projects.

At this point, there is still a lot of work to be done on any of these projects, and I just want to mention that first because there are going to be a lot of questions about Millican we may not be able to answer to your satisfaction at this point, just simply because of the high level nature of this planning. So certainly.

MR. AVERYT: I'd like to start off. My name is Robert Averyt, College Station, Texas. First of all, I'd like to ask if you guys can provide us with a detailed map of the Millican. I'd love to know where the dam is going to be.

AUDIENCE MEMBER: Or approximately.

MR. AVERYT: I want to know exactly. If you guys are going to do this, you need to be able to tell us where you're going to do it.

I would like to know the elevations. I would like to know the pool elevation and what somebody else asked about, the condemnation rights. I would like to know a timeline. I don't think -- you're talking about 50 different projects.

This affects our lives. My wife is sick. We have spent the last 15 years -- are we going to lose everything we've got? This and that -- do we move? What do we do? We're planning on building a 600-foot concrete driveway at our place. We live off of Highway 30. Do we go ahead and spend that money? Can you answer that? Do I need to postpone my plans? Can you answer -- can you give us a timeline?

It's easy for you guys to talk about 50 different projects, but this is our lives. Do we put our lives on hold, and at what point -- can you tell us at what point you will make a decision? A yes or no so we can get on with our lives at some point? I mean that would be -- to me that would be the No. 1 issue I have. Yes or no, am I moving out of my house? Am I staying in my house? Can I continue to plan for the future? If y'all can answer that, that would be huge.

MR. AFINOWICZ: Thank you. The charge to the planning group is really to look at some of the things we just talked about. What are the long-term needs and what supplies there are to meet them, and then make recommendations of strategies of what can be implemented. As you saw, like Bedias Creek, even though it's not included as a strategy in this plan or even the last plan, it was in the 2001 plan. There is somewhat of an evolution over time.

AUDIENCE MEMBER: Y'all have been holding that over those people's heads since 2001. That's not fair to us to have to live like that, guys. (Inaudible).

MR. AFINOWICZ: Right now --

[APPLAUSE]

MR. AFINOWICZ: It's a charge to the planning group to identify these potential strategies. However, there is no requirement of the planning group to implement that strategy. There is no funding for the planning group to do these sorts of things, and it takes an interested party to come forward once those needs have been identified to develop that project.

It's really out of the planning group's control when that project is truly going to be implemented. This is truly a planning exercise right now.

MR. EVANS: Let me just say just for format purposes, everybody is going to get a chance to ask your question. But since we have a court reporter, let's let one person ask their question. We'll try and answer that, and we'll take them one at a time and it will go a lot smoother and we'll get an accurate record of what is being said and asked tonight.

So this lady here had her hand up first.

MS. COX: I'm Cathy Cox. I'm in the same boat as Robert. I put my whole life on hold for y'all to make a decision. You keep saying it's a plan. Well, if all it is is a plan, then why is it on paper and, you know, if I build anything, you ain't going to reimburse me for it, are you? Are you going to give me 100 percent exactly what I can go and buy another 300 acres and build barns and build houses and build all the things that I need? No. You hesitated. You're not because you can't. But yet you can hold that over my head and say, hmmm... don't be fixing up that house yet Cathy because we ain't done with you yet. And he's right, that's not fair.

And you know why are the numbers so far off if y'all didn't do your research and you didn't -- you didn't find out your numbers and get them all in line, I mean, from one page to the next page, they are wrong. It's either 1.30 or it's 1.90 but it can't be both so your paper is wrong.

So why did it get printed if it was that far off if you haven't done your research?

MR. AFINOWICZ: Again, to address your first question there, it's not the role of the planning group to implement any of these projects. It's simply the matter of looking down the road and trying to see what's on the horizon. That's the charge given to the planning group by the state, and that is entirely what they are able to do. It does not involve -- give them any opportunity to make promises of what projects are going to be implemented.

MS. COX: So then what other alternatives did y'all look into besides the reservoir?

MR. AFINOWICZ: The primary alternative, Millican Reservoir, is a transfer of water from East Texas. It's actually in the plan in Chapter 4 to give an alternative to that, and this was weighed heavily by the planning group before the decision was made. And one of the reasons for choosing Millican over the East Texas alternative is because it represents the development of water resources within the Brazos basin to meet needs in the Brazos basin rather than pulling them from another basin in East Texas.

Other options that would partially offset Millican would be the Little River Off Channel project, although it wouldn't fully offset the need for water the Millican could provide.

MR. EVANS: This gentleman right here.

MR. MELVIN: John Melvin. Just two questions: Do we have an idea what the full pool number is going to be? And what the flood stage numbers is going to be in terms of elevation?

MR. AFINOWICZ: Right now there is a number that's in the plan that is a conservation pool that does include what that number is. That's really as much as there is. Flood stage would have to be determined later on down the road. Once the project was actually picked up by a sponsor and studied to further detail, because it does involve the hydrology and the hydraulics of the basin and a much more detailed study than what can be done at the planning level exercise.

MR. MELVIN: So what is that number for the conservation stage above sea level?

MR. AFINOWICZ: 263. Thank you for my brain over here.

MR. MELVIN: I have one more question. So if the legislature identifies the Millican Reservoir site, you know, the Millican area or this reservoir as a future reservoir site, what does that actually mean to the landowners? How does that impact landowners and what they can do with that property in the future? What kind of things do they need to be thinking about if something like this gets passed by the legislature?

MR. AFINOWICZ: There is no impact as far as what the landowners can do with their own property. There is no control over private citizens. What that does do is it prevents the state from coming in and building another project, doing something that would reduce the opportunity for that project to -- that area to be developed into a water supply project.

MR. MELVIN: So does it or does it not limit --

MR. AFINOWICZ: It does not impact --

MR. MELVIN: -- if somebody wants to come in and put a mall or a fun park or something like that, it doesn't affect the future value of the property?

MR. AFINOWICZ: It does not impact the individual's ability to develop that land as they choose.

MR. MELVIN: And so when --

MR. AFINOWICZ: Only the state.

MR. MELVIN: So when the state comes in to grab the land or get the land to build the reservoir, does the -- do the improvements on the property -- are those taken into consideration during the condemnation process?

MR. AFINOWICZ: That would have to be determined by those sponsoring the project and implementing it. It's a long way down the road from there.

MR. MELVIN: But the legislative decision to identify it as a reservoir does not affect how that's -- how the value of the construction on the property or the homes or businesses that are built on that property, does the legislative decision affect those values?

MR. AFINOWICZ: It doesn't directly impact any -- any individual's ability to develop that land. Only the public's ability to --

MR. MELVIN: I'm talking about the individual's ability to get fair market value for the investment they've put into their property.

MR. AFINOWICZ: That would entirely depend on the specifics of how that's worked out further down the road once that project moves forward.

MR. EVANS: The gentleman back here in the back. You may have to speak up a little bit.

AUDIENCE MEMBER: I'm from Madison County. My family has been here since the early 1800's. If the president of the United States doesn't do his job, we, the people, replace him. I'd like to know who you work for and how we -- who pays your salary and how -- if you don't perform like the people want you to, how do we replace you? You say you've been there ten years. That's a long time. How do you get replaced if --

MR. EVANS: You talking about me?

AUDIENCE MEMBER: Can we vote you out of office?

MR. EVANS: No, actually I'm not running for reelection. I'll be leaving the planning group at the end of the year.

AUDIENCE MEMBER: How do we vote against you or --

MR. EVANS: You could have moved to Trinity County.

AUDIENCE MEMBER: Who do you work for?

MR. EVANS: We're not compensated in any way. The planning groups were formed with specific interest groups -- for instance, I was appointed to represent counties in this planning group. So that's how we were appointed.

AUDIENCE MEMBER: Who appoints the planning group?

MR. EVANS: Well, I think I just answered that question just a few minutes ago. We were appointed by the Water Development Board at the start of the planning group, all the original members. As the members leave the group, they are replaced by vote of the members of the planning group based on nominations from the public, from other members of the group, citizens of the region, of the counties and as the determination of the --

AUDIENCE MEMBER: So we actually vote --

MR. EVANS: The planning group votes. There is not a popular vote, no, sir.

AUDIENCE MEMBER: Who creates the Development Board?

MR. EVANS: I think we're probably going to try to stick to specific questions about the plan tonight and not get into state government. Whoever your state representative is, that would be a good question for him.

AUDIENCE MEMBER: Where is Steve Ogden?

MR. EVANS: Listen, I know y'all see a lot of meetings on TV and all, but this is not going to be one of them. So questions -- this gentleman right here.

MR. MILLBURGER: My name is Lionel Millburger. I have one simple question. It's a two-pronged question centered around who pays and who benefits from this thing.

In other words, I want to know how much public tax money is going to go to fund and build this thing? And then what, if any, private, corporate interests are going to benefit from it? Other than taxpayers. Now furthermore --

MR. EVANS: Before you go any further, let me just -- as you're asking a question, if you would refer to a specific project, if you have a question about a reservoir, if you just speak to this thing, we don't know whether you're talking about the plan itself or a reservoir. For the purpose of the record, identify what you're speaking to.

MR. MILLBURGER: The reservoir, the subject of this meeting which there is no map for. So I presume it's this Millican Reservoir. To prompt you in answering my question, I want you to know that most of these reservoirs like this are used among other things for cooling purposes for industrial sites.

Now, so the two-pronged question -- and I may have a follow-up depending on your answer.

MR. AFINOWICZ: To answer that on Millican, Millican appears to be the main focus of everyone's interest. It's one of the many projects, but to give more detail on that, right now again there is no actual sponsor identified that's moving this project forward. Right now all this is is a paper that's been done many years as Texas goes through this cycle of planning for the future. Simply a matter of looking at what the needs are and what projects are out there to supply future demands.

And as there is nobody who is in the place of sponsoring this project, there are no contracts in place. There is no money that's changed hands. There is really nothing that's moved forward that would seal in who is actually paying and benefiting from this project once it's finally developed.

MR. MILLBURGER: The follow-up question -- I'm a taxpayer, and so let the record show that I'm against it. Now, to further prompt you in what is it going to

be used for, have you considered the fact that this reservoir or reservoirs can be used to supply water sources for a nuclear power plant some time in the future?

MR. AFINOWICZ: That is one of the uses that it could potentially be used for. Right now in the plan it is --

MR. MILLBURGER: Oh-oh.

MR. AFINOWICZ: Right now in the plan it's slated for municipal and industrial needs in the lower basin. However, that could change over time, and there is also additional water left over in the Millican project. After the immediate needs of Region H, it could be used for multiple purposes, including -- some of which is being used in Region G, Brazos County, or projected to be.

MR. EVANS: The gentleman in the blue striped shirt.

AUDIENCE MEMBER: Have y'all taken into account a strategy in which y'all label this or get the legislature to label it a unique site because it will drive property values down so at the time you go to purchase it, or whoever is buying up the land, it's already devalued because once you label it a unique site, you destroy our appreciable value of the property. So I guess is that part of y'all's strategy or is it just an unintended consequence?

MR. AFINOWICZ: That's something that the planning group would have to consider and that can be part of the comment in making their decision.

[MULTIPLE SPEAKERS]

MR. AVERYT: Robert Averyt again, guys. With respect to -- this is a question and answer thing. We've asked a bunch of questions. We have not received one answer. I mean, how do we receive answers? I mean is this a dog and pony show? What can we expect? How do we get answers?

MR. EVANS: We're not going to take any more questions until we get to where we can hear.

MR. AVERYT: How do we get answers?

AUDIENCE MEMBER: Y'all hush. We can't hear. We need quiet.

MR. AFINOWICZ: And what we try to do is provide all the answers we can, both in our forum tonight and also in the plan. Now, what you see before you in the plan is a culmination of all the information in the planning process up to this point. There really isn't anything behind the scenes. The information we provided on the website is what we have at this planning level.

MR. EVANS: The lady in the very back. She's had her hand up for awhile.

MS. EVANS: My name is Laura Evans, and I live here in Madison County, and there is a whole lot of us here tonight that are going to be really impacted by the Bedia Creek Reservoir. It's Bedia. It really offends me when the people who are trying to do it can't pronounce it. It's been Bedia since there were Bedia Indians.

[APPLAUSE]

MR. EVANS: We did have a former chairman of the planning group that pronounced it Bedies but the current chairman does say Bedia.

MS. EVANS: There is a whole lot of Madison County people here that we don't need any water. We needed it last year and year before last. Madison County has been dry as hell, and nobody cared that we were about to burn up from all the damn drought. So we really don't give a damn about giving our land to anybody to put water on.

They are going to take it. That's the way it's done. And our livelihoods -- we can't come to Houston on April 7th. These people in this room are working every day trying to hang on to that land that's going to get taken away. Everybody here -- these people work. The land is going to get taken away from hard working people, lots of them got great granddaddies buried on it like I do, and we don't want it flooded.

And we want to know when they are going to come here and meet with us because this is our land. They can come up here and meet with us. So tell them they can come up here and meet with us.

MR. KNOTTS: Bill Knotts again. The fellow that commented about moving water from one river basin to the other -- that can be circumvented. I live in

Huntsville. My property is in Grimes County, but the city of Huntsville in conjunction with the Trinity River Authority went over here and gave water to the Tennesco Power Plant in Shiro which is in the San Jacinto River Authority. Their first intent was to build a reservoir on Big Lake Creek. Well, the good property owners on there shot that down. So we made a deal that the TRA sold the water to Huntsville. Then the city of Huntsville pumped the water over to Tennesco into another river district. So it can be done. I mean, laws are laws, but laws are made to be broken.

But two or three specific questions, I guess what the question we want answered, you people don't have the information. I guess the Brazos River Authority will have what we want, the elevations, the maps and everything. Is that right?

MR. AFINOWICZ: The Brazos River Authority pretty much has what we have which is planning level information for this reservoir. It's all very general at this point.

MR. KNOTTS: But you see if your board recommends to the state legislature to go ahead with this project, then our complaints to the Brazos River Authority are literally after the fact. So they'll have no impact.

AUDIENCE MEMBER: That's right.

MR. KNOTTS: Because the decisions have already been made.

MR. AFINOWICZ: There is a long process beyond this plan before a project like that would be implemented.

MR. KNOTTS: If your board recommends a reservoir being built, there's about a 90-95 percent chance of it being built.

MR. AFINOWICZ: Not so. As we said, there have been many strategies over the years that have been included in the plans and then better plans have come along and those have been removed. Yes, ma'am.

AUDIENCE MEMBER: Three to four years ago, many of us were in this same room with representatives -- State Representative Dunham said we had nothing to

worry about with the Bedia Creek Reservoir. We were lied to. We need to consider that and this source.

[APPLAUSE]

MR. EVANS: There is a gentleman in the back in the cap.

MR. BOYD: I'm Paul Boyd. I got a question for you. Harris County is how many acres? You got any idea?

MR. AFINOWICZ: Was that acres? That's a good question. I couldn't answer that one.

MR. BOYD: Let me just finish this up now. Harris County probably gets close to four foot of rain a year. And I guarantee you there is millions of acres down in that area. So why don't they collect their own water and then we don't have to worry about it.

[APPLAUSE]

MR. AFINOWICZ: Thank you for your comment.

MR. EVANS: This gentleman right here.

MR. BANNING: I'm Jerry Banning. [INAUDIBLE]. They've already been designated in Bedia? In other words, if I want to sell some land down in the Bedia Creek bottom, there will be a cloud on the title of my land I'm going to have to reveal to anybody. Is that correct?

MR. AFINOWICZ: I can't speak to what the impacts would be as a landowner.

MR. EVANS: I used to be an appraiser and I would just say that it's not going to have a cloud on your title in any way. But that's not to say that when the appraiser is looking at market value, that might be some type of circumstances that a particular appraiser may or may not do.

AUDIENCE MEMBER: He'll have to disclose it for the buyer. He'll have to disclose it.

MR. BANNING: Yes, I'll have to disclose the fact that that reservoir is fixing to take my property. That's the state law.

MR. MARTIN: My name is Tyke Martin. I have property in Madison County and in the Bedias Creek project.

One question and one comment. The question I have is that have y'all even considered when paying for this land that -- say I want to keep my land. You build your dam. Fill it with water, and I'll sell you the water. You just pay me my check every month like an oil royalty? You know, maybe that would be a good thing. Is that something that y'all have considered is letting us keep our water rights but paying us for them? Because generally speaking, in the past, we're not going to get what our land is worth to us. I've owned my land 50 years, and I know people in here that have owned it -- I don't know how many generations that go back to Sam Houston. Have y'all considered letting us own the water and selling it to y'all after y'all build your dam?

MR. AFINOWICZ: Well, just to remind you, I want to point out that what the planning group is doing every night is presenting a plan, and as we said, there is a long way from here to there.

MR. MARTIN: But that is -- I'm asking you that is a plan of how we actually get something for what we've worked hard and sweated for. Is that an option that y'all have considered? I mean, isn't that an option that's been considered? And if it hasn't, then what can I do to make it get considered?

MR. AFINOWICZ: The decision of how that will be made would have to be done down the road once somebody is moving forward with this project, and right now the planning group has only identified this as a possible alternative for meeting the needs in the future. There is nobody who is currently building a reservoir or planning one in detail. And once that goes to that phase, that will be an appropriate thing to bring up and the concerns of how the landowners will be compensated for their land and how that will work out, but that's beyond the scope of this planning exercise.

MR. MARTIN: And then my next question is -- and I think other people have alluded to it -- is we want to know who we go and talk to, and who we shake the tree? I mentioned Steve Ogden a minute ago who he was on the committee that voted to approve this next five years I think that the land is under that -- under your umbrella or in the plan, if you will.

Well, you know, if we have a problem with being in that plan, don't vote for Steve Ogden and vote for somebody else. So my question is -- what the plan is, is that for these five years the state of Texas has a purchase option on our property indirectly, if you will. We're -- in other words, they have kind of set it out. My question is who do we talk to to tell them we don't want to be in that? We want to know which legislators we talk to. Do we talk to Senator Ogden? Who do we go talk to? Is it our state representative? Are these the people who we go shake the tree? That's really all we're asking, and it seems like these questions are being avoided. That's one of the reasons why Robert left.

MR. EVANS: Senator Ogden is chairman of the Senate Finance Committee. So any funding of any state projects, be it reservoirs or whatever, is going to pass through that committee. So yes, Senator Ogden would be a person that if you have -- if you have opposition or concerns to any specific projects, be it Millican, Bedias or whatever, yes, that's where the funding will come from from the state for any of the projects.

AUDIENCE MEMBER: Haven't there been some legislative approval already on some of the plans that y'all are looking at, the projects that are in the works?

MR. EVANS: Well, every new legislative session is a new legislative session.

AUDIENCE MEMBER: But I'm talking in the last year, year and a half, has there been some legislative approval on Region H's projects?

MR. AFINOWICZ: There has been legislative adoption of those unique reservoir sites.

AUDIENCE MEMBER: Right.

MR. EVANS: We need to get to some more questions.

AUDIENCE MEMBER: That's what the people are wanting to know, who do we vote in and who do we vote out.

MR. EVANS: There is a man back here with a star on his shirt. Could you speak up, please, sir.

AUDIENCE MEMBER: I'm with (inaudible) with the North Zulch Utility District. I have a president and vice-president (inaudible). We're concerned what this is -- how it's going to affect our utility district as far as providing water to the residents in our area. We have lines going that way. I would like to know if you're going to send us a plan to tell us exactly what's going to happen. Because we have people that live on a budget without water. We want to know what's going to happen with those people, you know, and our water lines. We want input from y'all as to how it's going to affect the North Zulch Utility District.

MR. AFINOWICZ: North Zulch is actually in the Region G group that is just across the border from Region H. There is more information in their plan that will be more pertinent to you than what's in the Region H plan and with just across the border.

AUDIENCE MEMBER: What I'm saying is we have lines that go into H. Now, I want to know what you're going to do about those lines. How are we going to be reimbursed and how these people on Bundic -- if they lose their land, how do we supply them? We just cut our line off and say the heck with it? We'd like to know what's going to be involved with the North Zulch Utility District.

MR. AFINOWICZ: I wish I could provide you some more information there, but it's really outside of this level of planning. Sorry, sir.

MR. EVANS: Who hasn't had a question. I think -- this lady right here. Yes, ma'am, you.

MS. HUGHES: I've got a couple of questions. I'm Marilyn Hughes from Bedias. Based on your projections, what year do you show as pulling water from this Millican Reservoir?

MR. AFINOWICZ: The initial needs for Millican Reservoir begin in 2040 of the Region H plan as well as the Region G plan. So they would both begin at the same time.

MS. HUGHES: It's supposed to be 2030 in Region G?

MR. AFINOWICZ: 2040. I'm sorry.

MS. HUGHES: On your website you said 2030 in Region G. It shows 2030.

MR. AFINOWICZ: My understanding of the Region G plan --

MS. HUGHES: That's 20 years from now. Does that mean that you're going to pull -- get permits, condemn people's land and be up and running in 20 years?

MR. AFINOWICZ: I would not know the specifics of the Region G plan. My understanding was that they would also start using water from the project in 2040 as it's currently planned just as Region H is.

MS. HUGHES: So that's 30 years.

MR. AFINOWICZ: That's correct.

MS. HUGHES: Would you buy land that you know was designated a unique reservoir site?

MR. AFINOWICZ: I certainly can't speak to that. That's certainly outside of my pay grade.

MS. HUGHES: Is there anybody in this -- is there any question that anybody has asked you tonight that you can answer?

MR. AFINOWICZ: We've answered everything that we can within the scope of this project.

MS. HUGHES: As far as I'm getting, all I've got is a runaround as you can contact this person or you can go to the next meeting, or you should have been at the last meeting, but I haven't heard a question answered in this meeting tonight except go ask your congressman.

MR. EVANS: I don't think anybody has said go ask a congressman anything.

MS. HUGHES: We were talking about Ogden.

MR. EVANS: He's not a congressman, he's a state senator. All this is state projects. This gentleman right here.

AUDIENCE MEMBER: Historically with other projects like this that have gone through, you keep talking about this potential sponsor that you don't know about, in previous projects that have gone through, who have been the sponsors or is it private corporation or the state arm or something like that?

MR. AFINOWICZ: Typically in the state of Texas, reservoir projects for the most part have been sponsored primarily by river authorities, possibly the Corps of Engineers, other folks in that capacity. So it would most likely go to someone at that level if there is interest in the project and moving forward with it in the future.

AUDIENCE MEMBER: So it's usually a government organization?

MR. AFINOWICZ: Yes, sir.

MR. EVANS: Okay, this gentleman right here.

AUDIENCE MEMBER: Do any of y'all live in Houston, Texas?

MR. AFINOWICZ: No, sir, I don't. A few of the consultants do and a few of the planning group members do.

AUDIENCE MEMBER: I go down to Houston every once in a while. I'm in the landscaping lawn maintenance business. I'm a rancher. I'm going to tell you what, every time I go down to Houston, I see more water running down the curb that would fill that lake 50,000 times over. Why can't Houston do something about the water they waste instead of taking my land?

MR. AFINOWICZ: You know, I can't agree with you more about the wasted water, but just a few things to consider -- the plan includes an awful lot of conservation, looking at using the water that's already there before needing to go get more water. There is also plans for reuse and in general Region H has one of

the very lowest per capita water demands in all of the planning regions in Texas. I think it's the fifth lowest out of the 16 planning regions in the state.

There is always room to improve. And I agree with that, but the planning group has tried its best to implement the conservation it can or feels is reasonable before moving forward with other larger projects.

MR. EVANS: This lady back here in the back. Yes, ma'am.

AUDIENCE MEMBER: First of all, I thank you for being here tonight and having this meeting. I know it's not pleasant to stand up in front of a group of people like us who are so concerned about our property. I'm speaking as a fourth generation landowner. My great grandmother bought the land -- and I see cousins here that I didn't realize that were going to be here -- in 1892 and it's heartbreaking for us to know that this might happen to us again. I was that little girl who the woman brought up to the podium 50 plus years ago with my mom and dad when the Millican Reservoir -- the Millican Dam was being talked about and I know the agony.

I went by the nursing home today on my way over with my cousin to come to the meeting to see my 87-year-old mother who is suffering from Alzheimer's -- and I'm sorry I'll make this quick. She said, "Do you want me to go with you, dear? I will speak on behalf of the family." And this is the woman who can't remember whether she had breakfast or lunch or not, but she remembers the Millican Dam.

So on behalf of my relatives of Peach Creek and of the people -- our family that settled the land, and as we are still ranchers and farmers in that area, I beg of you to give us more information and let us understand what is happening to the future of this land.

I also had one question, which it's not time for comments, it's time for questions, and I appreciate you recognizing me, Judge, thank you. If you're ready to pull water by 2040 from the Millican Reservoir, how soon do you have to start construction and condemnation of the land in order to have it filled and ready to pull water by 2040 which is only 30 years from now?

MR. AFINOWICZ: Specifically how long it would take to develop a project like that -- you're not going to like this, but I'm not going to have a definite answer, but generally it's a long term process and that's why this long term 50 year planning horizon, this whole process that we're going through in planning was initiated by the state because it was recognized that a lot of these projects take a long time to develop. And a lot of the water resources we have today are all thanks to work that was done many, many years ago in developing those reservoirs so people can have supplies.

It would be really hard to say what that number is going to be and what development time is. I can tell you that Allens Creek Reservoir is recommended as a year 2020 strategy, and we're already here in 2010. Talking about a very short period to get that done. I believe it would definitely be longer than that. I'd hate to say specifically, but I would imagine 20 years or so.

MR. EVANS: This gentleman right here. If you could for the record --

MR. WILLIAMS: James Williams from Brazos County. At one time there was a dam going to be built out of Bellsville on the Brazos River. Is that project still ongoing?

MR. AFINOWICZ: That is -- I believe that's Allens Creek you're speaking of in Austin County?

MR. WILLIAMS: Yeah.

MR. AFINOWICZ: That is recommended as a strategy beginning in 2020 because of those immediate needs.

MR. WILLIAMS: All the water is going to go down from the Navasota River anyway. Why don't you just pull it out of that lake and give it to Houston instead of building the dam?

MR. AFINOWICZ: Part of that is the way that reservoirs work and where water rights can be obtained and used, stored in a sufficient volume. The Allens Creek project benefits from being in a good location that it can provide an awful lot of yield without much storage. The problem is building a larger reservoir for an off

channel project like that to firm up and what's called a run of river supply, that's water pulled directly out of a river rather than a reservoir, to firm up that supply to make it reliable would be a massive reservoir just like the size of Millican like we're speaking of. So the logistics really aren't there to enhance that project.

MR. WILLIAMS: All about money though, \$2 billion for the Millican at today's price -- no telling what it's going to be 30 years from now in price. Anyway, that's my question.

MR. EVANS: The lady in the blue. Yes, ma'am.

MS. KIRBY: My name is Sandra Kirby and all I want to know is when you're going to have a meeting for Grimes County. Because a big part of Grimes County is going to be affected by the Millican Reservoir.

MR. AFINOWICZ: The planning group is directed by the state to conduct public hearings within its boundaries, and Grimes County is outside of Region H boundary and within the Region G boundary.

MS. KIRBY: Okay -- but Region H is going to be part of this Millican Reservoir. So why aren't they having a meeting in Grimes County?

MR. AFINOWICZ: Well, there are projects that are implemented all over the region. There are only three that Region H is holding, and there are projects being implemented in practically every county in Region H. This is an opportunity for Region H to hold a meeting in the northern portion of the region and hopefully bring in as many people as possible from surrounding areas.

AUDIENCE MEMBER: It's April 21st in Waco.

MS. KIRBY: I'm not going to drive to Waco.

AUDIENCE MEMBER: That's the only one they are having for Brazos G.

MR. EVANS: The gentleman back there in the purple shirt.

MR. HODARD: My name is Wayne Hodard. I live in Madison County. I'm wondering what our county judge who happens to be on the board -- how he feels

about this project, the Bédias Creek project, and the flooding of Madison County. I'd like his opinion.

MR. EVANS: Well, Judge Hanson might want you to come to commissioners court and ask that question.

JUDGE HANSON: I'd be happy to meet with him.

AUDIENCE MEMBER: We're here. We're here to meet. Come on and tell us what you think.

MR. EVANS: There are elected officials from your county who might be here. This gentleman back here hadn't had a question.

MR. ROWE: I have a house on Bédias Creek, 70 acres, which I dearly love.

MR. EVANS: Yes, sir, what's your name?

MR. ROWE: Glen Rowe, and I would like to know the exact status of the Bédias Creek Reservoir, what the legislature has done, who might buy the water if it's actually built and some kind of time.

MR. AFINOWICZ: Yes, sir. Currently, the project was recommended as a unique reservoir site. It was included in the site protection study by Texas Water Development Board. At this point that's as far as the project has gone. It's not even recommended as a strategy in the Region H plan. It's merely a strategy that is out there among like hundreds of others. Many different reservoir projects. Currently there is no sponsor behind it nor is it being recommended by any level of planning.

MR. ROWE: Well, Bédias Creek flows into Lake Livingston which supplies the water to the City of Houston, right?

MR. AFINOWICZ: Yes, sir.

MR. ROWE: Why can't it wait until it gets down to Lake Livingston?

MR. AFINOWICZ: Well, the needs --

MR. ROWE: [INAUDIBLE].

MR. AFINOWICZ: The needs Millican Reservoir are intended to address aren't associated with the City of Houston.

MR. ROWE: I'm talking about Bédias. I live on Bédias Creek. I hunt. I fish. I farm. And that's all [INAUDIBLE]. Is there a sponsor for it?

MR. AFINOWICZ: There is currently no sponsor for the project.

MR. ROWE: So that water would be shipped from Walker, Madison County down into Montgomery County. Is that right?

MR. AFINOWICZ: There is no plan for using that water right now.

MR. ROWE: Then don't build it.

MR. EVANS: If it has no sponsor, chance of it getting built with the current information would be pretty small.

AUDIENCE MEMBER: Well, I'm planning on building a house.

MR. EVANS: This gentleman right here in the hat.

MR. BALCH: My name is Eddie Balch from Brazos County. I've got one question that you can't dodge. What happens to the houses that are flooded and the cemeteries?

MR. AFINOWICZ: That again, as much as I'd like to answer that, is a design level question and we're very far away from that phase of the project.

MR. BALCH: You want me to tell you? They knock down the houses and they dig up the cemeteries.

MR. EVANS: I mean if you got to that point, I think you're exactly right. A cemetery is like the cemeteries on highways. This lady in the blue shirt.

MS. LAMBERT: Yes, sir, I'm Shirley Lambert, and I live in Bédias out in the country. We don't have a whole lot of land, but we think it's a little piece of heaven. And I never heard of Bédias until 1984. And we bought our property and

we dreamed until 2000 and my husband retired and we built our dream home. And I'd just like to know if where the lake is going to be, if we're going to have ocean front property or are we going to be on an island or -- and he's got cancer. Going through treatment now and if we're going to need to move, we need to move while we can still walk. You know, we can't -- we can't -- we're not getting any younger. And that's what I wanted to know when we're going to have them do something. I don't want to be moving when I'm 98.

MR. AFINOWICZ: The maps that are included in the plan are the best available information right now on the project because the project isn't moving forward and there is no plan for design at this phase.

MR. EVANS: The lady -- yes, ma'am. You.

MS. STOVER: I'm Christina Stover. I'm the mayor of Iola, and I am chairperson of the Grimes County Subregional Planning Commission. And I have a question, there are -- you said there are three public hearings at this stage that are already scheduled?

MR. AFINOWICZ: That's correct.

MS. STOVER: When the plan develops further, will there be more public hearings?

MR. AFINOWICZ: At this point, after the three public hearings that we spoke about, these are the best opportunities that are intended to get public comment, but public meetings after this -- the public is also invited to make comment to the planning group as they wish, and there are going to be a few of these throughout the year. Currently the plan is due September 1 of this year. So there will be opportunities as the planning group meets to work out the specifics of the final plan that will be submitted to the state where people can comment.

MR. EVANS: The gentleman right -- on the right. Yes, sir. You.

MR. HARRIS: My name is Brad Harris and I own property --

MR. EVANS: You may need to come up a little bit.

MR. HARRIS: My name is Brad Harris. I own some property in Brazos County that's off of Highway 30. You've said in this meeting right here that the strategy is to pull new water into Region H out of East Texas. Is that correct?

MR. AFINOWICZ: That's an alternative strategy to the currently proposed Millican Reservoir.

MR. HARRIS: Then why don't you try and build an aquifer to pull it out of Sam Rayburn and pull it in where you've already got an existing reservoir?

MR. AFINOWICZ: Imports from East Texas, the Neches and also the Sabine have been considered and those are those alternative strategies that are part of the Region H plan. And I believe the reason that the planning group moved away from those is an interest in developing a resource within the basin of demand rather than taking it from another basin and moving it in. It was -- this was a discussion that was had at one of the planning group meetings several months ago when it was debated quite a bit before this action was directed to move forward with Millican as a recommendation.

MR. HARRIS: Basically what y'all have done is this Panther Creek project and Millican is basically the same plan. It's resurfaces about every four to six years here or there as it's happened. And it's really starting to come to fruition after you built Limestone.

Now, my parents have had land up here since Limestone and somebody asked earlier from the time they started building to the time they started drawing water -- well, Limestone started in '75 to '76 and took to '79 before it got filled. They started pulling water and opening it up to the public in 1980, that's whenever the people were allowed on the lake. So it gives you basically from the time they start building to the time they start drawing water is about a five-year plan on this thing. This is from first being up here basically since the lake was developed.

Now, by the Panther Creek project with the land where we're sitting which is out between Hardy and Lee Road off of Highway 30, the backside of our land will be approximately five feet under water, and if you take any additional, we've lost our land that we've been there since 1965. My sister has a house out there, and I run

my business out of that place. And there is no way that y'all are going to be able to compensate us for exactly the full market value after I've already put over \$200,000 into the place personally so my family can make a living.

MR. AFINOWICZ: Thank you for your comment.

MR. EVANS: I think everybody else has had a question.

MS. HADAWAY: I'm Karen Hadaway, and my question is after listening to all of this, we live in Grimes County -- in North Grimes County. I'm on the Board of Directors of the Bedias Creek Soil and Water Conservation District. We discussed this a lot in our meetings. Heatedly.

One of the things that I want to find out and ask you directly -- and I would like an answer -- even though they have these question and answer sessions, these informational gatherings, you're taking questions. You're talking to us. You're telling what people are thinking. Does what we say have any impact on whether this is going to happen or whether we're just over here just blowing wind?

MR. AFINOWICZ: It has everything to do with what's included in the plan. And the planning group is required to look at all these comments and to take all those into consideration when developing the final plan. And it will be up to them to take a look at the comments and questions and use that to gauge a decision of how the final plan is going to shape up.

MS. HADAWAY: So the general public here will eventually have an actual impact on what is happening here? These people that have lived here -- my family has had land here since the 1930's, too -- my husband's family. I mean, we're all concerned. And the thing is that are we just sitting here and you're just going to say, oh, yeah, okay, here is what they said, blah, blah, blah and they are going to do what the heck they want anyway. Is this out of our hands exactly like everything else with government? They made a decision. They want to do this. The money is going to go down -- going to be given little bits of money here. The big money will be made by selling water to Houston and it will go back into the coffers of the state of Texas. Is that correct?

AUDIENCE MEMBER: Yes.

MR. EVANS: To answer your question about does what you're saying tonight at any of these public meetings have merit? Does it have an effect? Can you change things? Can you have an impact? The answer is clearly yes because if one thing that you all learned and we learned is when the public -- when there is a project that is being proposed to be built like the TransTexas Corridor, public input can change minds. And it changes representatives' minds and it changes senators' minds and it changes minds of elected officials at the top. So, yes, it can have an impact.

And if there are specific projects like Bedia or Millican, you know, where you have -- particularly in Bedia's case where there is strong public opposition to it, I think, yes, it can have an impact. I don't think you're wasting your time at all.

I'm sorry, I thought you had already asked a question.

MR. PITTS: Donald Pitts from College Station, and I have some questions on the Millican Reservoir. I don't understand how this is in Region H which is Freestone, Leon and Madison Counties when the reservoir is in Brazos County -- you know, the reservoir will be mostly in Brazos County. Where else can we go -- you said there is a Region G that will be talking about this or handling this also?

MR. AFINOWICZ: Yes, sir. Region G is basically the same thing as Region H. It's a similar planning group that has the same initiative and everything that does include Brazos County, and as I mentioned before is a strategy that is shared between Region G and Region H.

MR. PITTS: How can we find out anything about this Region G? Will they be having meetings on the Millican Reservoir?

MR. AFINOWICZ: Yes, sir. They are required to have a public hearing. I'm not sure about the specifics of the date, but I think I heard someone yell it out over there earlier. Was it later this month?

AUDIENCE MEMBER: April 21st in Waco.

AUDIENCE MEMBER: Waco?

AUDIENCE MEMBER: At ten o'clock in the morning.

MR. EVANS: Folks, we're going to get an answer from the Water Development Board if everybody will just hold on a minute.

MS. MCKINNON: She's correct. It's April 21st, the Brazos River Authority, in Waco and they typically meet at ten a.m. Can you verify that time? I can't confirm for sure.

AUDIENCE MEMBER: I thought y'all were trying to get this out to the local people, you know, Brazos County has to go all the way to Waco to participate in Region G? We only heard about this meeting a week ago in the Brazos -- the Bryan/College Station newspaper just a week ago. We have schedules, you know, just like y'all do. And how are we going to -- you say you think it's April the 21st?

MS. MCKINNON: I know it's April 21st.

AUDIENCE MEMBER: It's in Waco.

MS. MCKINNON: I work for the Water Development Board. I'm a liaison with the Region H group, not Region G specifically. By rule, each region is required to hold one public hearing centrally located in the region, and Region G is having their one public hearing at Waco which is the center of that region.

AUDIENCE MEMBER: Okay.

MS. MCKINNON: And they issue -- they are required to issue public notice 30 days prior to the hearing as posted on Secretary of State website, posted with all the --

AUDIENCE MEMBER: I don't follow that one really.

MS. MCKINNON: All the major newspapers in the region, every courthouse, every mayor, so it's an extensive notice process.

MR. EVANS: They are typically at the county clerk's office at your county, the public libraries in your cities.

AUDIENCE MEMBER: But I can't run down there --

MR. EVANS: I understand, but that's Region G and we're really speaking to Region H this evening.

AUDIENCE MEMBER: My final question on here is someone has to have a map of this Millican Reservoir that we can look at, not the final details, but a map that will identify the immediate location where this is -- you know, where you're planning -- you can't stand up there and tell me that this doesn't exist. There has got to be a map that we can look at and --

MR. EVANS: Is there a map of the Millican -- proposed Millican Reservoir site?

MR. AFINOWICZ: Yes, sir, there is a map, and not just the one we saw that identified the unique reservoir sites, but also one in more detail -- again, planning level, not design -- but in -- what's the appendix that's located in --

AUDIENCE MEMBER: 4b-12-138.

MR. AFINOWICZ: Of the Region H plan.

AUDIENCE MEMBER: 4b-12-138.

AUDIENCE MEMBER: On mineral rights on the land that's flooded, is that retained by the landowner or is that incorporated into the land that's taken for the reservoir? That's one point.

MR. EVANS: Those are the kind of issues for what the Water Planning Group -- what we do, those are way beyond what our scope is.

AUDIENCE MEMBER: I understand. That will have to be answered. My second point is I know you are talking about general, and specific plans are a long way down the road, but some people will get tired of holding their hands and contacting when the level dies down. Somebody puts a check on a piece of paper and says that looks like a good plan based on these charts and information and that check affects everybody's lives forever. So everybody keep it up.

MR. EVANS: This gentleman right here.

MR. JOZWIAK: My name is Gerald Jozwiak. I have several comments here. First one about the unique reservoir site of Millican. Only Region H designates

Millican as a unique site. Region G -- it's not in Region G as a unique site. Cedar Ridge and two other ones, but Region G is not claiming it as a unique site. The reason people are speaking up today is that once it gets past the planning group for a unique site designation -- I went to Austin to testify to try to stop it. First it goes to the regional planning board, and then it goes to the state, and once it's in the state plan, then it goes to Austin. I testified in Austin in front of the House Committee of Texas Natural Resources. And they said we can't do anything. We can't change the state water plan. You should have stopped it at the regional planning. So if you don't want Bédias to be a unique reservoir site, you should have stopped it at the regional. How can you stop it here when our comments really don't mean anything?

And then on top of that, the person who was on the committee for the Texas House Committee was Brandon Creighton out of Montgomery County who needs the water for Bédias Creek. So the guy on the committee that designated it a unique site is the same guy that's on the committee of the Texas Natural Resources Education Committee. It's a no-win situation for us here and people in the Bédias area. That's why they are trying to stop it here with the Millican. Once it gets to the state, you can't stop it there.

MR. EVANS: We've got the room until 8:30 and it's 20 to 9. So we're going to go for 15 more minutes. So if you can, we're going to get to as many questions as we can and stop at 9.

MR. MCMAHON: My name is Jerry McMahan. I live in the west end of Madison County. I'd like to know concerning the Millican Reservoir how close the water is going to get to Highway 39 that runs on the west end of Madison County?

MR. AFINOWICZ: We'll see what we can pull from the map real quick. Not enough to tell at this phase. I'm sorry.

AUDIENCE MEMBER: Judge, this lady has had her hand up.

AUDIENCE MEMBER: [INAUDIBLE]. Alternate methods to meet the needs of people down south, is that something that your planning group studies or is it a

separate planning group? And what alternate methods have been investigated and what is the result of those investigations?

MR. AFINOWICZ: The Region H planning group, while its recommending -- recommended strategies, these are the strategies like the ones we talked about tonight, at the same time some of the strategies they've considered that didn't make the first cut, if you will, became the alternative strategies. And one of those is the East Texas water transfer like we spoke of. This is just another part of the planning process. Region H has done this for some time. This is actually the first planning round we've actually been able to do that officially, but even before that Region H as a planning group had adopted some of those alternative strategies. So it is within the Region H group itself.

MR. EVANS: This gentleman right here.

AUDIENCE MEMBER: What were those alternatives that were investigated?

MR. AFINOWICZ: I believe there are nearly 60 strategies that were considered for the region overall. And the ones that were selected were a transfer of water from East Texas, the Sabine basin. That was the largest. Others were sea water desalination, and trying to think of other ones off the top of my head -- Little River Off Channel.

AUDIENCE MEMBER: Has conservation methods within the area that needs the water been a primary consideration?

MR. AFINOWICZ: Yes, ma'am. Conservation is the first strategy that the planning group applied to meet the demands.

AUDIENCE MEMBER: And you have determined that that is not going to meet the demand?

MR. AFINOWICZ: Not entirely.

AUDIENCE MEMBER: What percentage would it meet?

MR. AFINOWICZ: I believe in this plan it's approximately 7 percent, which is slightly less than what was in the last Region H plan based on kind of a gut check

more than anything else. The level of conservation that Region H has in the previous planning round, 2006, and the state water plan I believe ranks about the fourth highest in all of the planning regions throughout the state. So Region H does have a substantial amount of conservation incorporated into the plan.

MR. EVANS: This gentleman right here. Yes, sir.

MR. LUTHER: My name is Mike Luther. I'm executor for the Gertrude Luther estate, College Station, Brazos County. We have property behind the curtain area that would have minor incursion of water, but my question is far more important I believe to Bryan/College Station, Brazos County, and the people understand that the TransTexas Corridor issue has been so soundly rejected. I believe -- I think the mayor that's here and the rest will agree with me that there is a very important need for high speed rail service to College Station, Bryan, Brazos County and so forth and nowhere in this plan have I seen or heard of anybody that's handling the absolute requirements to merge high speed rail with where the Millican Dam and the water in the proposal might be to minimize the damage to all the people, to minimize the damage to the property, and yet maximize the economic benefits to all of the people that are in this room.

I would like to have the question answered, do you plan -- and is there any way to include the high speed rail service in the decades of the future that absolutely must be here for us to go forward in the future?

MR. EVANS: I can tell you that we have not discussed high speed rail --

MR. LUTHER: I asked that for that reason, sir.

MR. HEATH: Charles Heath concerning the Bédias Reservoir. My family has had land there for five generations now. We live on the land on Bédias Creek on Caney Creek. I heard someone ask about the -- was this water in Bédias Reservoir going to Montgomery County? And I believe you said you didn't know.

Somewhere or another we've been told that that's where it was going to go was Lake Conroe -- even told us what creek it's going to run into to get there. I mean I went through this stuff 30 years ago. I went through it again -- I guess we heard about it finally about four years ago. If it hadn't been for Gerald, nobody would

have known about it then. Our county officials seemed like they didn't know anything or didn't tell us.

And another thing, we were told that it's not just the land that the water is going to cover, but it's going to be tens of thousands of acres all around it that they are going to take. Do you know anything about that? Has that been -- is that out of the picture now?

MR. AFINOWICZ: Regarding the first part of that question and specifically that project, the Bedia Reservoir is not a recommended or even an alternative strategy in this 2011 plan. In the past, and I believe in the 2001 plan it was recommended as a strategy, and I believe that was -- there was a plan to convey that to Montgomery County. None of that is included right now and the needs of Montgomery County are met solely out of what they have in Lake Conroe and in addition to that some water from Lake Livingston. And I'm sorry I missed the second part of your question.

MR. HEATH: The other land they are going to take all around, the wildlife -- it is outrageous. Is that still -- is that part of this plan?

MR. AFINOWICZ: Again, none of that is included and that is -- if that project ever is picked up and carried anywhere, if someone does bring that back, that would have to be considered at that time how much land would be needed and that would be not just an inundated area, but some level of surge pool just for protection and possibly some mitigation.

MR. HEATH: So all of that can come back?

MR. AFINOWICZ: That's all something that would be related to that project if it ever arose again. At this point it isn't part of the plan.

AUDIENCE MEMBER: I have a question for you. Is the best way to find out the land that's going to be affected is take a USGS or a government map and just run the topo line? Is that going to be our most effective way to see what's affected? Just pick up the topo line?

MR. AFINOWICZ: That's essentially the shape that we show in the plan. That's the way that was originally developed a long time ago.

AUDIENCE MEMBER: And what elevation -- is it the 263 or 273? Which one do we need to look at to know which land is affected?

MR. AFINOWICZ: As far as I know, it's the 263.

AUDIENCE MEMBER: All the website showed 273.

MR. AFINOWICZ: The conservation pool would be 263. Above that, I'm not sure what the specifics are on what the surge pool would be.

AUDIENCE MEMBER: To find out what land would be affected is to take a USGS map and look at 263 or a little above. Is that correct?

MR. AFINOWICZ: That's one way of doing it. That should match very closely with what's in illustration.

AUDIENCE MEMBER: How involved has the planning board been with TxDOT?

MR. EVANS: I think I would say not at all. I don't think there's ever been a TxDOT representative at any of our meetings. I don't think there has ever been any correspondence from TxDOT to the planning group. So I think the answer would be none.

MR. BARNEY: I just have a quick simple question. Name is Mark Barney in Grimes County. Are these minutes of this meeting going to be available publicly for us to get off of a website?

MR. EVANS: We'll let Glenda answer that question.

MS. CALLAWAY: Yes. They will be available. We will put them on the website. They will likely be June the 8th when we put them up because that's when the comment period ends. And we will put up not just the transcript of the hearings, but all the written comments that are received as well.

MR. BARNEY: Okay, thank you.

MS. CALLAWAY: regionhwater.com.

AUDIENCE MEMBER: Bedias Creek is still a unique reservoir on the list. Is that correct? It's still on your list?

MR. AFINOWICZ: That's correct.

AUDIENCE MEMBER: How are we going to get it off? It drops off in 2015 if there is no activity going on. I believe the last one in 2007 -- I believe they passed the legislation that if there is no activity going on to acquire land or do something with that, it drops off in 2015 I believe is the way the legislation is. Isn't it up to Region H to recommend to the legislature to drop it? Is that the direction?

MR. AFINOWICZ: You know that's actually a good question because I'm not sure about the order that the planning group would take to remove a site, but they are able to continue to recommend a site for designation. Temple, I don't know if you know some more.

MS. MCKINNON: No, I suppose it could be included as a legislative recommendation, but whether a site is removed from designation, that's strictly a legislative action.

AUDIENCE MEMBER: Doesn't it have to come though from Region H to take it off?

MS. MCKINNON: Or a legislator independently. The process within the planning effort is that the regional plans develop legislative recommendations, and then our agency is charged with developing a state water plan which we compile the regional recommendation, and that's what we deliver to the legislature and the governor. And if a legislator chooses to craft legislation around those recommendations, that's their choice to do. There is no set process.

MR. EVANS: I think when the state water plan is considered by the legislature, and it's up for adoption, they can strike and add whatever they would choose subject to committee approval, subject to final form, that type of thing.

AUDIENCE MEMBER: [Inaudible]. It's up to Region H to get their attention.

MR. EVANS: I don't think so. I don't think there is any legislator over there or representative or senator that needs us to get their attention on an issue they want to attend to.

AUDIENCE MEMBER: It's going to be up to us to go to our legislators to get it dropped?

MR. EVANS: I think that would probably be a good step because that's who is going to ultimately be the decision-maker on all of this, be it reservoir sites, funding, implementation. All of that is going to be a legislative process, not a process of this planning group.

AUDIENCE MEMBER: I just want to make a correction. You said that Bedias wasn't an alternative strategy. In Chapter 8 it says it was dropped as a management strategy, but it's still a viable alternative strategy. When it says "viable," that means it could be stuck in at any time.

MR. AFINOWICZ: That is a good point. That does say that, and just to clarify what's intended there, there are official alternative strategies that have been included as part of the plan. And it's actually in a section in Chapter 4 that when the planning group goes in to enter this information into a great database the state is going to use to compile into a plan, there are recommended strategies and alternative strategies. And the project is not in that list. However, in the general sense, it could potentially be an alternative in the future just like any of the projects.

AUDIENCE MEMBER: Last statement, one way to stop it from being a unique site is to drop it out of the plan. Once you drop it out of the plan, it loses its designation right away. All Region H has to do is say it's not in our plan, just pull it all out, and it's not a unique site anymore. And that's what people are asking is to pull it out of the plan completely. If they are not going to build it, pull it out of the plan.

MR. AFINOWICZ: It's actually going to retain its legislative designation until that expires.

AUDIENCE MEMBER: Unless y'all pull it out of the plan. How can it be a designated site when it's not in the plan?

MR. AFINOWICZ: The legislation that designates that is separate from the Region H plan. Those are recommendations that the legislature uses to make those designations.

AUDIENCE MEMBER: I appreciate it very much.

MR. EVANS: One last question.

AUDIENCE MEMBER: He's ask if you can completely take it out of the plan, the Bedias Reservoir, so we don't have to be concerned with it coming up later. If you're not recommending it, can you just take it out of the plan so the legislature doesn't even have to look at it?

MR. AFINOWICZ: The planning group can choose to do that. However, the current designation that's there is going to continue to be there until it expires.

AUDIENCE MEMBER: That would be awesome if the planning group would do that. Yeah!

MR. AFINOWICZ: That comment will definitely be taken and put in the record.

MR. EVANS: I think first we want to thank Judge Henson for suggesting that we come to Madison County and hold a public hearing. Judge, thanks for having us over here.

JUDGE HANSON: I told you they would be interested.

MR. EVANS: We knew that. I can assure you that when we have our meeting in Conroe, those of us that are on the planning group that were here tonight will be sharing the public input that we received tonight about this project.

AUDIENCE MEMBER: Then how come you didn't share what Houston said?

MR. EVANS: Well, I wasn't there myself so I don't have anything to share.

AUDIENCE MEMBER: I don't blame you. I wouldn't go to Houston either.

AUDIENCE MEMBER: I avoid it like the plague.

MR. AFINOWICZ: And to give you the short summary between you and me, a few questions about conservation is the largest portion of that, and that will be part of the public report that Glenda spoke of along with this meeting that everyone will have a chance to take a look at.

MR. EVANS: Thank y'all for coming and thank y'all for having us here.

(Hearing adjourned at 9:00 p.m.)

Appendix 10G

Public Hearing Materials
April 7, 2010

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Contents – April 4, 2010 Public Meeting

1. **Public Notice**
2. **Presentation**
3. **Speaker Forms**
4. **Meeting Transcript**



REGION H WATER PLANNING GROUP

Senate Bill 1 - Texas Water Development Board

c/o San Jacinto River Authority

P. O. Box 329, Conroe, Texas 77305

Telephone 936-588-7111

TO:

- Each mayor of a municipality with a population of 1,000 or more or which is a county seat that is located in whole or in part in the Region H water planning area;
- Each county judge of a county located in whole or in part in the Region H water planning area;
- Each special or general law district or river authority with responsibility to manage or supply water in the Region H water planning area based upon lists of such water districts and river authorities obtained from Texas Commission on Environmental Quality;
- Each retail public utility, defined as a community water system, that serves any part of the Region H water planning area or receives water from the Region H water planning area based upon lists of such entities obtained from Texas Commission on Environmental Quality; and
- Each holder of record of a water right for the use of surface water the diversion of which occurs in the Region H water planning area based upon lists of such water rights holders obtained from Texas Commission on Environmental Quality.

RE: **Public Notice of an *Initially Prepared 2011 Region H Water Plan (IPP)***

DATE: February 26, 2010

PUBLIC NOTICE

To All Interested Parties:

The Region H Water Planning Group area includes all or part of the following counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Harris, Leon, Liberty, Madison, Montgomery, Polk, San Jacinto, Trinity, Walker, and Waller.

Notice is hereby given that the Region H Water Planning Group (RHWPG) is requesting public review and comment on an Initially Prepared 2011 Region H Water Plan (the IPP).

A summary of the content of the Draft Initially Prepared Plan: The *Initially Prepared Plan (IPP)* updates the 2006 Region H Water Plan that was included in the 2007 State Water Plan prepared by the Texas Water Development Board (TWDB). The IPP addresses the following topics:

- Water needs based on projected population and water demand
- Water supplies available to meet projected water demand
- Water management strategies for meeting any identified water shortages
- Socioeconomic impact of not addressing shortages
- Impacts of Management Strategies on Water Quality and Agricultural Areas
- Water Conservation and Drought Management

- Protection of Water Resources and Natural Resources
- Proposed Unique Stream Segments
- Proposed Unique Reservoir Sites
- Regulatory, Administrative and Legislative Recommendations

Public Comment: Public hearings to receive public comment on the IPP will be held at the following dates and locations:

March 30, 6:30 p.m.

Houston-Galveston Area Council
3555 Timmons, 2nd Floor, Room A
Houston, Texas 77027

April 1, 6:30 p.m.

Truman Kimbro Convention Center
111 West Trinity
Madisonville, Texas 77864

April 7, 10 a.m.

Lone Star Convention Center
9055 FM 1484
Conroe, Texas 77303

The RHWPG will accept written comments until 5:00 p.m. June 8, 2010. Written comments should be provided to:

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

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

Questions or requests for additional information may be submitted to: Reed Eichelberger, General Manager, San Jacinto River Authority, P.O. Box 329, Conroe, TX 77305-0329, telephone 936-588-7111. The San Jacinto River Authority is the Administrator for the RHWPG.

A copy of the Initially Prepared Plan for 2011 is available at the County Clerk's Office and at a depository library in each county in Region H. A list of depositories is attached. A copy also is available on the RHWPG website at www.regionwater.org and on the regional planning section of the TWDB website at www.twdb.state.tx.us/wrpi/rwp/rwp.htm.

DEPOSITORY LIBRARIES IN REGION H

AUSTIN COUNTY

Gordon Library
917 Circle Drive
Sealy, TX 77474

BRAZORIA COUNTY

Angleton Public Library
401 East Cedar
Angleton, TX 77515

CHAMBERS COUNTY

Chambers County Library
– Main Branch
202 Cummings
Anahuac, TX 77514

FORT BEND COUNTY

George Memorial Library
1001 Golfview
Richmond, TX 77469

GALVESTON COUNTY

Rosenberg Library
2310 Sealy
Galveston, TX 77550

HARRIS COUNTY

Houston Public Library - Central
1st Floor, Bibliographic Information Center
500 McKinney
Houston, TX 77002

LEON COUNTY

Ward Memorial Library
207 East St. Mary's
Centerville, TX 75833

LIBERTY COUNTY

Sam Houston Regional Library
and Research Center
650 FM1011
Liberty, TX 77575

MADISON COUNTY

Madison County Library
605 South May
Madisonville, TX 77864

MONTGOMERY COUNTY

Montgomery County Central Library
104 Interstate 45 North
Conroe, TX 77301

POLK COUNTY

Murphy Memorial Library
601 West Church
Livingston, TX 77351

SAN JACINTO COUNTY

Coldspring Area Public Library
14221 State Highway 150 West
Coldspring, TX 77331

TRINITY COUNTY

Blanche K. Werner Library
203 Prospect Drive
Trinity, TX 75862

WALKER COUNTY

Huntsville Public Library
1216 – 14th Street
Huntsville, TX 77340

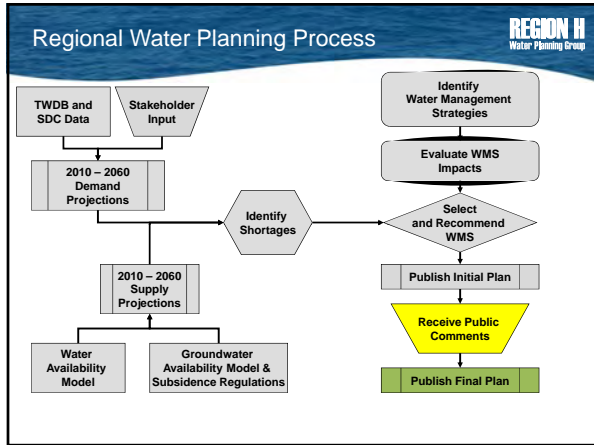
WALLER COUNTY

Waller County Library -
Brookshire/Pattison
3815 Sixth Street
Brookshire, TX 77423



Regional Water Plan Overview

- Region H Overview
- Population and Water Demand Projections
- Water Supply Estimates
- Water Management Strategies
- Protection of Water Resources
- Unique Stream Segments & Reservoirs
- Administrative, Regulatory and Legislative Recommendations
- Infrastructure Financing Survey and Recommendations
- Special Studies

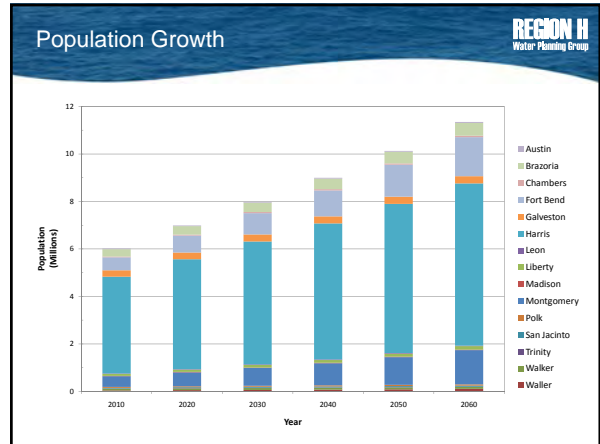


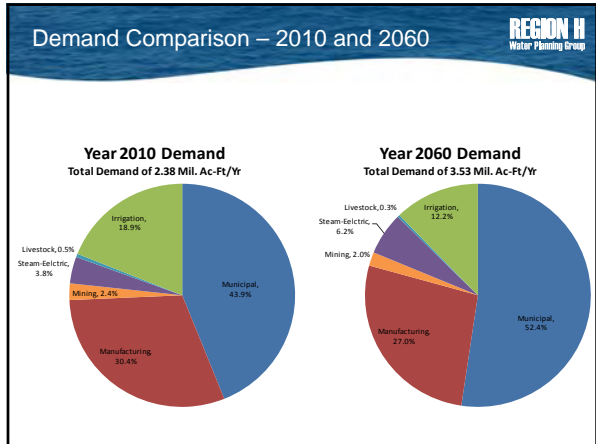
Regional Water Planning

- 16 Planning Regions
- Region H
 - 15 Counties
 - 3 River Basins
 - 4 Coastal Basins
 - 2 Major Aquifers
 - 4 Minor Aquifers
- 50-year water plan (2010-2060), updated every 5 years
 - Previous Plans: 2001 and 2006
- State Water Plan published one year after final regional plans

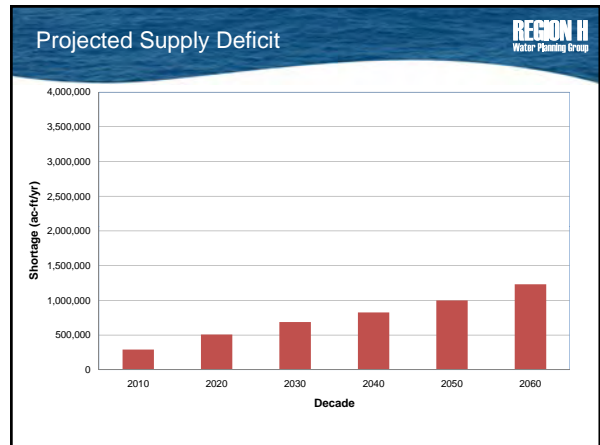
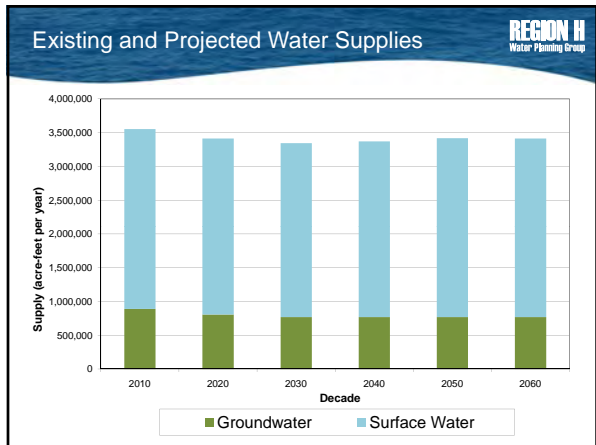
Population and Water Demand Development

- Revision to values in the 2006 Regional Water Plan
- Updated population and associated demand with data from various sources:
 - State Data Center
 - Texas Water Development Board
 - Individual communities and water authorities
- Approved by Region H in public meetings
 - May and July, 2009
- Approved by Texas Water Development Board in October, 2009





- ### Available Water Supplies
- Supplies determined by
 - Surface Water Availability Model (drought of record)
 - Groundwater Availability Model or local regulations
 - Total Existing Supplies
 - 3,561,017 acre-feet per year
 - 75% surface water
 - 25% groundwater
 - 2060 Available Supplies
 - 3,415,860 acre-feet per year
 - Groundwater use reduced by regulation
 - Reservoir storage reduced by sedimentation



- ### Selected Management Strategies
- Conservation Strategies
 - Industrial
 - Irrigation
 - Municipal
 - Contractual Strategies
 - Contracts to water users (WUGs)
 - Contracts among water providers (WWPs)
 - Groundwater Strategies
 - Expanded Use of Groundwater
 - Interim Groundwater Use
 - New Groundwater Wells for Livestock

- ### Selected Management Strategies
- Groundwater Reduction Plans
 - City of Houston
 - North Harris County Regional Water Authority
 - Others
 - Reservoir Strategies
 - Allen's Creek Reservoir
 - Gulf Coast Water Authority Off-Channel Reservoir
 - Millican Reservoir
 - Permit Strategies
 - Brazos River Authority System Operations
 - Houston Bayous Permit

Selected Management Strategies

- Reuse Strategies
 - Houston Indirect Wastewater Reuse
 - Wastewater Reclamation for Industry
 - Wastewater Reclamation for Municipal Irrigation
 - Others
- Infrastructure Strategies
 - Luce Bayou Transfer
 - COH, NHCRWA, WHCRWA, CHCRWA, and NFBWA Transmission and Distribution Systems
 - CLCND West Chambers County System
 - Others

Selected Management Strategies

- Other Strategies
 - Brazoria County Interruptible Supplies
 - Brazos Saltwater Barrier

Major Water Management Strategies

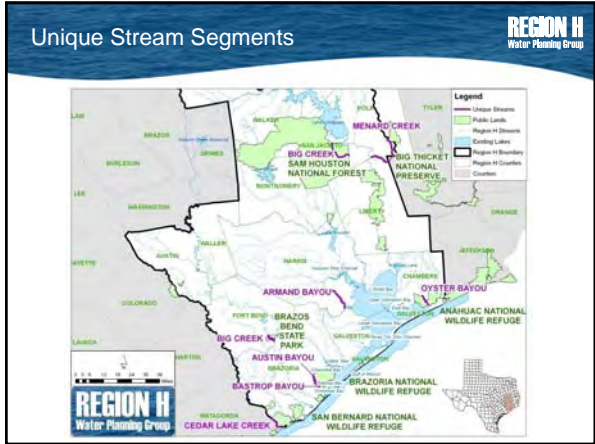
Major WMS	Sponsor	Selected Strategy	Projected Start Decade	2010	2020	2030	2040	2050	2060
				Total Allocated (ac-ft/yr)					
Reservoirs									
Atens Creek Reservoir	BRA / Houston	Y	2020		76,441	93,686	97,954	99,580	99,650
GCWA Off-Channel Reservoir	GCWA	Y	2030			39,500	39,500	39,500	39,500
Millican Reservoir (Panther Creek Dam)	BRA	Y	2040				11,627	58,351	120,994
Contractual Strategies									
TRA to Houston Contract	TRA / Houston	Y	2030		116,738	123,524	123,524	123,524	
TRA to SJRA contract	TRA / SJRA	Y	2040				7,935	39,096	76,476
Reclamation/Reuse									
Houston Indirect Wastewater Reuse	Houston	Y	2040				66,400	114,679	128,801
NHCRWA Indirect Wastewater Reuse	NHCRWA Houston	Y	2040				7,300	16,300	16,300
Wastewater Reclamation for Industry	Manufacturing	Y	2060						67,200
Permit Strategies / Other									
Brazoria Interruptible Supplies for Irrigation	GCWA	Y	2010	104,977	86,759	64,000	64,000	64,000	64,000
BRA System Operations Permit	BRA	Y	2020		6,621	18,870	25,350	25,350	25,350
Interim Strategies	NA	Y	2010	45,512					
Total				150,489	169,821	332,796	443,610	580,380	761,795

Protection of Water Resources

- Water Conservation
 - Recommended as the first strategy
 - Applied to meet projected shortages
- Strategy Selection Process
 - Yield and environmental impacts were considered with the unit cost of water
- Existing Supplies
 - Utilized prior to recommending new water supply projects
- Reuse
 - Included in Fort Bend, Harris County and Montgomery
 - Recommended in lieu of additional imports/reservoirs

Unique Stream Segments

- Eight stream segments were selected in 2006 and adopted by Texas Legislature:
 - Armand Bayou
 - Big Creek (San Jacinto)
 - Austin Bayou
 - Cedar Lake Creek
 - Bastrop Bayou
 - Menard Creek
 - Big Creek (Fort Bend)
 - Oyster Bayou
- 2011 Regional Water Plan retains the designations for these sites



Unique Reservoir Sites

REGION H Water Planning Group

- 2011 Regional Water Plan includes five Unique Reservoir Sites
 - Four already designated
 - Allens Creek Reservoir – 2011 Selected Strategy
 - Little River Reservoir
 - Little River Off-Channel Reservoir
 - Bedias Reservoir
 - One recommended for designation
 - Millican Reservoir – 2011 Selected Strategy

Unique Reservoir Sites

REGION H Water Planning Group

Designated Sites

- Allens Creek Reservoir
 - Strategy in 2001, 2006, and 2011 RWPs
 - Austin County
- Little River Reservoir
 - Strategy in 2001 RWP
 - Milam County
- Little River Off-Channel
 - Strategy in 2006 RWP
 - Milam County
- Bedias Reservoir
 - Strategy in 2001 RWP
 - Grimes, Madison, and Walker Counties

Unique Reservoir Sites

REGION H Water Planning Group

Millican Reservoir

- Not yet designated by Texas Legislature
- Recommended in 2011 Region H Plan
- Location:
 - Primarily Brazos, Grimes, and Madison Counties
 - Located on Navasota River
- Yield: 194,500 afy
- Capital Cost:
 - \$1,159,907,000

Policy Recommendations

REGION H Water Planning Group

- Retained 15 Recommendations from 2006 Plan
 - 3 Administrative and Regulatory Recommendations
 - 12 Legislative Recommendations
- One New Legislative Recommendation
 - *Direct the State Demographer's Office to explore the potential changes in population distribution made possible by rapid advancements in information technology.*

Water Infrastructure Financing

REGION H Water Planning Group

Infrastructure Funding Requirements

- Capital Costs for the 2011 Region H Water Plan
 - Estimated at \$12.9 Billion (2008 Dollars)
- Water Infrastructure Financing (WIF) Survey
 - 2011 Survey will utilize TWDB Web based tool
 - Objectives:
 - Determine number of entities with finance needs
 - Identify infrastructure costs that cannot be financed locally
 - Summarize each WIF project and location in Plan

Special Studies in the 2011 Plan

REGION H Water Planning Group

Impacts of 2006 Strategies to Galveston Bay

- Modeled Impacts Over Time (2010 – 2060)
- Considered Upstream Impacts
- Near-term reductions in flow offset by higher return flows in long-term
- Mitigate increased water usage in later decades

Decade	Oakwood (cfs-byr)	Galveston Bay (cfs-byr)
2010	~3,000,000	~2,800,000
2020	~4,300,000	~2,800,000
2030	~4,000,000	~2,800,000
2040	~4,000,000	~2,800,000
2050	~4,000,000	~3,000,000
2060	~4,000,000	~3,000,000

Special Studies in the 2011 Plan



Water Conservation

- Conservation Survey
 - Included municipal, industrial and commercial conservation
 - Additional conservation plans obtained from TWDB

- Conservation Management Strategies
 - No change to Irrigation conservation strategies from 2006 RWP
 - WUG specific strategies where applicable
 - 3-tiered municipal strategy based on WUG size for other municipal WUGs
 - Conservation used to address over 200 WUG shortages

Public Comment on the IPP



- IPP Available:
 - <http://www.regionhwater.org>
 - County Clerk's Office in each county
 - Depository library in each county

- Public Hearings
 - Tuesday, March 30th @ 6:30 PM – Houston
 - Houston-Galveston Area Council

 - Thursday April 1st @ 6:30 PM– Madisonville
 - Truman Kimbro Convention Center

 - Wednesday, April 7th @ 10:00 AM – Conroe
 - Lone Star Convention and Expo Center

Public Comment on the IPP



- Taking comments through:
 - 5:00 PM June 8, 2010

- Please submit comments to:
 - Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

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



**Questions
and Comments**

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

NAME: BRAD AYERS

AFFILIATION: _____

ADDRESS: _____

City	State	Zip
Telephone	Fax	E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

NAME: JERRY WALL

AFFILIATION: Land Owner

ADDRESS: 19250 FM 974 Bryan Texas 77808

City	State	Zip
979-588-2490	Fax	4JerryWall@gmail.com
Telephone	Fax	E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Mullica Reservoir

NAME: Jim Wall
AFFILIATION: Land Owner
ADDRESS: 14090 DILLY SAW TAP RD BRYAN, TX 77808
City State Zip
979-589-1010 Telephone Fax jimw@TXcyber.com E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Reservoir

NAME: Max Dudley DUDLEY?
AFFILIATION:
ADDRESS:
City State Zip
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

NAME: Kay Wilson speaking for her Paula Moore
AFFILIATION: BV resident
ADDRESS: Bryan TX 77808
City State Zip
979 820 2024 | |
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

NAME: RICHARD TAUBER
AFFILIATION:
ADDRESS: Houston TX 77024
City State Zip
713-825-2281 | | RICHARDE.TAUBER@OIL.CO
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

REGION H I.P.P.

NAME: KEN KRAMER

AFFILIATION: LONE STAR CHAPTER, SIERRA CLUB P.O. BOX 1931

ADDRESS: AUSTIN TX 78767

City

State

Zip

512-476-6962

Telephone

512-477-8526

Fax

KenwKramer@201.com

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

water use/reuse, ecology unique habitat

NAME: Laura Klemm

AFFILIATION:

ADDRESS: ~~59870 Brasswood Road~~ Bryan TX 77808

City

State

Zip

979-589-2320

Telephone

Fax

LauraKlemm@hotmail.com

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Opposition to Milliken Dam

NAME: LEONARD COX
AFFILIATION: Guardians of Neuse River
ADDRESS: Bryon Texas 77808
City State Zip
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Environmental impact

NAME: ~~John~~ Luke Graham
AFFILIATION: _____
ADDRESS: Newport TX 77868
City State Zip
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

Environmental concerns

NAME: *Paul Bannon*

AFFILIATION: *Guardians of the Navasota*

ADDRESS: *Bryan TX*

979-422-2252 | *Paul@PaulBannon.com*

Telephone

Fax

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Panther Creek

NAME:

AFFILIATION: *Cathy Cox speaking for Dr. Jon Fleming*

ADDRESS:

City

State

Zip

Telephone

Fax

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

MILLICAN PROJECT

NAME: MIKE BRINKMANN

AFFILIATION: LAND OWNER

ADDRESS: 3903 LARKFIELD CT HOV TX 77059

832-309-0968 | 2814881613 | MIKE@BRINKMANROOFING.COM

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

The Millican Reservoir and why congress stopped its construction

NAME: Tom Ivy

AFFILIATION: Texas Stream Team

ADDRESS: 8007 Stroud Dr Houston TX 77036

713-774-0529 | TOMIVY@SWBELL.NET

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

MILLICAN RES

NAME: ROBERT AVERY
AFFILIATION: GUARDIANS OF THE OVAHOSIA
ADDRESS: COLLEGE STATION TX 77845
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Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

The Region H Water Planning Group welcomes public comment. If you wish to speak at today's public hearing, please provide the information requested on this card.

I would like to speak on the following topics:

NAME: Bill Knotts
AFFILIATION:
ADDRESS:
City State Zip
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Millieba Dam - Pothole Creek Project

NAME:

Sammy Catalena

AFFILIATION:

ADDRESS:

City

Kuerten

State

TX

Zip

77862

Telephone

979-255-5400

Fax

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PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Unique Sites

NAME:

Gerald Jozwick

AFFILIATION:

Retiree

ADDRESS:

City

Matisville

State

TX

Zip

77864

Telephone

Fax

E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Mineral rights on land for Milligan Res.
Land value on Navasota/Millican site.
Livelihood of land owners. cattle + oil/gas.

NAME: John Knotts
AFFILIATION: Land owner on Navasota River
ADDRESS: Huntsville TX 77340
936-291-0992
Telephone Fax E-Mail

PUBLIC HEARING SPEAKER INFORMATION
REGION H WATER PLANNING GROUP - Public Hearing, April 7, 2010

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I would like to speak on the following topics:

Impact of Milligan Dam (Panther Creek) on Navasota River Valley.

NAME: T. Barret Lyne
AFFILIATION: Brazos County landowner
ADDRESS: Bryan TX 77808
979-255-5237 | birdtrapper1@aol.com
Telephone Fax E-Mail

REGION H WATER PLANNING GROUP

PUBLIC HEARING

WEDNESDAY, APRIL 7, 2010

LONE STAR CONVENTION CENTER

9055 FM 1484

CONROE, TEXAS 77303

10:00 A.M.

Transcript provided by:

The Captioning Company

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281-347-2881 (fax)

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MR. EVANS: If everyone who is a planning group member would start to find their seats and the public attendees would also do the same, we will start working on getting started. If everyone would take their seats, we will get started.

Good morning, everyone, and welcome to this Public Hearing Region H Water Planning Group. We appreciate you taking time out of your day today to come here to Conroe to give some remarks. We certainly appreciate the hospitality of Montgomery County.

I won't go through and -- at the last meeting the other night, I introduced the Planning Group members who are here, but I won't go through that today. As you can see, the entire group is pretty well here.

Just a few housekeeping things. If you wish to speak today, if you would fill out an information sheet for us, we would appreciate that. You can get those at the front table. Also, if you wish to be on an interested parties list and receive information about meetings of the Region H Planning Group, you can get that as well; and it's a contact information sheet. If you wish to submit written comments, there's also a written comments form, and you can fill that out as well.

The way we will proceed today is we will have a brief presentation by Jason Afinowicz on the Region H Water Plan. Then we will take public comments. We would ask you to keep your comments to three minutes or less. That will enable us to hear from as many people as possible, which is our goal.

And at the conclusion of the comments, we will have a question and answer time where you can pose specific questions to us. If they're questions we can answer, we certainly will. If we can't, we'll try to give you a reason why.

Just to go over a few things, I would like to make a few remarks this morning. Beginning with SB1 in 1977, Texas has adopted a bottom-up approach to water planning beginning at the regional level. Region H is one of 16 regions throughout the state that is charged with developing plans for meeting the area's long-term water needs while incorporating input from stakeholders and the general public. This group is made up of interest groups comprised of agriculture, county officials,

environmental representatives, industrial, municipal, small business, and other interests.

Region H conducts public hearings routinely to steer development of the Regional Water Plan and to take public comments, and this here is one of our meetings. The group is directed by the state to prepare plans every five years of potential strategies for meeting the region's water needs over the upcoming 50 years. These regional plans for all 16 regions are compiled into an overall State Water Plan.

The emphasis behind this level of planning process is to consider projected demands within the state and seek to identify potential projects for mitigating future needs. This is directly in response to drought conditions that have historically endangered water supplies through the state from time to time. The Texas Water Development Board administers and assists in the planning process for each region and compiles the final State Water Plan.

Neither the Water Development Board nor the Regional Planning Group is responsible for promoting or developing projects beyond the initial planning phase under this direction. Detailed design and implementation of any project is subject to the identification of and funding by a project sponsor outside of the Planning Group.

Projects recommended in the plan may or may not be developed in the future. The Planning Group considered a substantial number of options for meeting future needs including conservation, reuse, reservoir development, water transfers, and desalination.

At this time, I'll turn it over to Jason, and he's going to go over our plan.

MR. AFINOWICZ: Again, this is just a short overview of the type of plan. The total document you can find online at the Region H Web site. We'll give you that in just a moment. This is just intended to kind of give you a refresher of the high points of the plan so you can touch more information for comment in just a moment.

To go through this, we'll start out with an overview of Region H, where it fits into water planning for the state. We'll talk about population and water demand

projections, an estimation of water supplies and identification of the needs of unmet needs of the future, and also identifying potential management strategies that may be implemented for needs -- identifying needs.

There's also discussion of protecting the water resources and unique stream and reservoir sights, and also regulatory recommendations that have been made by the coming through of this plan.

Finally, here's a bit on how this gets funded, from the cost projection to the overall planning of Region H.

This flowchart here kind of gives you an idea of how the water planning process works, which includes development of demand projections at the top, development of supplies and identification of what the needs are, what's the deficit between what's available and what's actually needed.

Beyond that, the potential water management strategies are identified with some consideration for what's needed by shortages, recognize which strategies could best serve to meet future identified shortages. And all these steps included public involvement throughout -- commissions, three-day process, open house, and opportunities throughout every public meeting to make comments.

But at this time in the planning process, the development of the Initially Prepared Plan is a special time that these public hearings are held to receive public comments, specifically for that purpose and finalizing the plan that will be submitted to the Water Development Board.

Region H is one of the 16 planning regions for the state of Texas. It consists of 15 counties, all or portions of those 15 counties. And, again, the charge is to identify water needs over the next 50 years and identify potential projects that may be implemented at some time to meet some of those needs. Again, all of this information is eventually compiled into a State Water Plan once the regional plans for all the 16 regions in the state are all put together.

The population demand projections in this 2011 Plan originated from those of the 2006 Plan. Since there's no census data available right now in planning until the next round, updates of the 2006 numbers were done with information from the

State Data Center, Water Development Board, and even the individual municipalities and utility groups that would be serving these needs in the future.

Surveys were sent out to find out exactly what sort of needs they saw for the upcoming years so they could be incorporated in this planning. These demands were considered and approved by the Planning Group last year and then later approved by the Water Development Board.

This population growth, as we see here, begins at about 6 million in the year 2010, and as we move into the future to 2060 -- far end of the planning spectrum there -- that almost doubles to 11 million. A large portion of that growth is in Harris County but also in Fort Bend, Brazoria, Galveston, Harris, Montgomery, and so forth.

Now the corollary of this population growth and also other demands is the total water demand for the whole region. The municipal portion we just talked about, a matter of the population, in 2010 it's expected to be about 43 percent of the total demand of 2.38 million acre-feet per year. Now out to 2060, the demand accrues to as much as 3.5 million acre-feet per year. Municipal demands do become a larger portion of that, although manufacturing, irrigation, and steam electric are still a significant part of that water need in the future.

Water supplies have been developed based on the best available science. For surface water, your water availability models by TCEQ, which are used for water permitting process -- groundwater supplies have been developed based on information from individual groundwater conservation districts and others with authority in the groundwater region.

These total supplies in 2010 were found to be just over 3.5 million acre-feet per year with about 75 percent of that being surface water and 25 percent being groundwater. In 2060 these supplies decrease because of sedimentation of reservoirs and also the reduction of hills and groundwater due to regulation limitations on the groundwater use. This gives you an idea of how the supply changes over time, again, the majority of the supply being from surface water sources.

Overall when the supplies are compared to the demands identified before, we see a growing trend of shortages which get as high as 1.2 or .3 million-acre feet by the year 2060. It's these demands that the Planning Group is charged with identifying potential strategies for meeting them.

In the management strategy selection process, the first ones were identified by the group for consideration and edification for some of these. These were the strategies that were considered, things like conservation; reduction of demand, wherever possible; contractual strategies that deal with various entities; people that already have water and providing that to those who don't and selling it on a contractual basis; and, also, groundwater strategies where it's possible to implement these as well.

Groundwater reduction plans have been included wherever possible. There are many of these going on in the region. Information has been used in this plan to make it match reality of what's going on in these plan developments at the time. A few reservoir strategies are recommended.

You have Allens Creek Reservoir which is identified in very short terms for meeting the needs of the lower Brazos basin. Also, an off-channel reservoir, the Gulf Coast Water Authority, is included. And Millican Reservoir has also been identified for meeting needs of the lower Brazos Basin and (inaudible).

There are also several permit strategies, a couple of those being the BRA System Operations permit which is ongoing. That will provide additional water to the Brazos. And, also, the Bayou Permits of Houston will allow more additional use within the San Jacinto basin.

Reuse has been implemented to a high degree in this plan. There are several strategies that have been identified, both direct reuse projects and indirect reuse projects.

Infrastructure strategies. A lot of these go along with the groundwater reduction plans as we mentioned before. They include the infrastructure that's needed to deliver and supply surface water. These have been included for projects throughout Region H, including (inaudible) Luce Bayou transfer.

Other strategies include Brazos Salt Water Barrier which is identified for mitigating water quality issues in the lower Brazos area and, also, interruptible irrigation supplies in Brazoria County which mirrors the way the water supplies occur in irrigation.

This table gives us some of the more major management strategies. You'll see the strategies vary in magnitude and, also, vary when they come into the plan. Some of these strategies begin in 2010, although others like Wastewater Reclamation for Industry, for instance, isn't identified as a strategy until the year 2060. So as demands increase over time, these strategies are identified and grow over time to meet that growing trend.

The protection of water resources is a major goal for the Planning Group. They planned the fundamental guide for this whole process. Water conservation has been incorporated wherever possible and used as a first strategy for meeting a large portion of the shortages. The strategy selection process also includes a number of criteria, not just cost but also environmental impact, social impact, and so forth.

Existing supplies have been used wherever possible. Why develop new strategies when there's already a strategy available? Reuse has been used wherever possible as well, especially in the greater Houston area.

In the 2006 Plan, the Regional Planning Group opted to nominate eight stream segments -- unique stream segments -- for the legislature. These have in turn been designated by the legislature for their unique qualities. This 2011 Planning Group wants to continue this designation and continue that in legislation.

This map gives you an overview of a few of those sites. Also, sites that show a need quality as being developed as a water reservoir for the future have also been designated as unique reservoir sites. Four of these have already been designated, and this was based on recommendations of the 2006 Plan. They include Allens Creek Reservoir, Little River, Little River Off-channel, and Bedia's Reservoir. The Allens Creek Reservoir is recommended as a strategy in 2011 and then recommended strategy again into the year 2020.

One new reservoir is recommended in this plan for designation, the Millican Reservoir, based on needs for water in the lower Brazos Basin.

This map gives you an idea of the locations of the existing designated sites. As you see, Allens Creek being the only strategy that's recommended in 2001, 2006, and 2011 water region plans.

Millican Reservoir is the new recommendation. It hasn't been designated yet, but it has been recommended in the plan to meet a significant amount of shortage in the Brazos Basin at the time. You see some details there. The yield there is 200,000 acre-feet per year. This represents a major resource for needs throughout the Brazos Basin.

The Planning Group has also had the opportunity to make certain legislative and regulatory recommendations. Several of these were retained from the 2006 Plan -- 15 of them. One new one that has been added and was a recommendation to direct the state demographer to examine alternative scenarios for population growth.

Typically population growth is expected to continue in trends where population growth has always occurred in the past. This may or may not be the case as new technology comes on the line, and there are new options where people may choose to live. And this is just to direct the state to consider these options.

The cost for all these projects are significant. Just the capital cost for providing for 11 million people in the future is expected to be nearly \$13 billion. This is in 2008 monies. The Water Infrastructure Financing Survey is the State's intention of finding out which entities have ways of dealing with these costs and implementing these projects and what needs there are out there for finding other mechanisms for financing. This survey is going to be under way as we proceed to develop commentary.

A special study that's included in the 2011 Plan was a review of the impacts of water management strategies on Galveston Bay. In preliminary studies, we've already done the first half of this Planning Group. It focused on the year 2060, what all the regional strategies would do out in 2060 due to environmental flows.

The Planning Group then asked a question: What happens in the interim? What happens in 2010, 2020, 2030? This study is intended to answer that question and look for changes over time; some of these impacts being from upstream impacts from Region C.

Region C basically consists of the Texas metroplex. Things that go from there directly affect flows to the Trinity River, which in turn directly affects the flow to Galveston Bay. Looking at what their expected return flows are at the time in conjunction with the strategies recommended by the Region H Plan, the Planning Group examines what changes will be in Galveston Bay over time. So some of these trends with short-term reduction of flows increases over a period of time.

Conservation has always been a key part of the Region H Plan. There's been a study, and the Planning Group opted to consider a conservation survey to determine what conservation practices were already being implemented and trying to get a better feel of what conservations are. And this was used to help guide the municipal conservation strategies that you see in this 2011 Plan. Wherever possible, specific conservation plans with the various water utilities have been implemented to show their projection of reduction in demand over time.

In addition to that, some of this information was also used to create some of the generic conservation strategy to apply to everyone else to make sure that conservation was accounted for before implementing other strategies.

Again, the whole point of this meeting is to gather public comment -- that's the major focus. It looks like we've finished up real quick and give you all a chance.

Just a reminder, this Initially Prepared Plan from the Region H Group is available on the Web site. It's also available in each county in nice, big paper format if you prefer that.

The public hearings, we're now three for three. This is the last one, the last opportunity to make a public comment at a public hearing. However, I want to remind you that the Planning Group is also taking comments -- written comments through June 8, and you'll have this opportunity through either the Planning Group itself or to the Texas Water Development.

MR. EVANS: Thank you, Jason.

At this time we're going to start taking public comments. I would just remind you that if you do wish to speak this morning, if you would fill out one of the public comment forms. And I would also remind everybody to turn your cell phone on vibrate mode or turn it off. We'd appreciate that as well.

Our first speaker this morning -- and what I would like for you to do is come forward to the microphone over here where everyone will be able to hear your comments, and we can get it on the record -- is T. Barret Lyne. And then after him Mr. Knox. John Knox will be speaking after him.

MR. LYNE: I need a projector.

MS. CALLAWAY: He asked to use a transparency.

MR. EVANS: Okay.

MR. LYNE: I have a few statements about the impact of the Millican Dam at Panther Creek location at Brazos County and how it's going to impact the River Valley.

First of all, it's going to cause some destruction to the National Park Service Trail System. That's the El Camino Real Trail System in the state of Texas. In 1950 the Ivy League was hired by the legislature to do a survey -- Scars of the American Revolution. They laid grant markers throughout the whole trail in the state of Texas. Going against those ladies, you heard the saying women rule the world. If you don't believe that, just go to the FDAR, and you'll find out how powerful they are.

In 1982 the Texas Department of Transportation took on the maintenance of the OSR, a common word for the Old San Antonio Trail according to the legislature's propagations. The legislature labeled it a Texas trail in '82.

In 2000 Kay Bailey Hutchison did a survey of the Old San Antone Road all the way from Louisiana to Mexico. In fact, the story goes when she got down there about around the Dolph Briscoe Ranch on the Mexican border, there were no

roads. She had to get a horse. She had a horse in her trailer that she carried with her and actually finished the trail in the Mexican border on horseback.

In 2004 George Bush declared the OSR, El Camino Real, a national historic trail. And that put it in through the National Park Service -- the National Historic Trail Service.

In Brazos County we have several artifacts on this trail -- the Madison County swales. They're back at the OSR intersection with the Navasota River. We have the Navasota River swales which are in Brazos County at a similar location just across the river. We have the Bundic Crossing and the Bundic swales. This was actually the first crossing over the Navasota River. Highway 21 connected at a later date. So that's a very historical significant area.

Tinnan Crossing is up in Robertson County, and they have some swales there. And then we have the Democrat Crossing in Brazos County. And there are more undiscovered areas all up and down that river.

If I could show you a map. This is the National Park Service Trail System. If you'll notice the large portion of the trail systems are up in the northwest, over to the northeast along the Blue Ridge Parkway if you ever travel Smokey Mountains. And this is all we have in Texas, the Old (Telephone?) Road. And if you build this dam at Panther Creek on the Navasota River, you're going to cut a section of that trail system off the map. It will be flooded.

This is another illustration of the trail system. Notice how it's a diverse network of trails and paths across the state of Texas as the Spaniards came in from Mexico.

Back to the original diagram here. Your flooding of the area will also inhibit mineral utilization in that area, the Kurten Oil & Gas Field and the Yegua Formation Lignite Field. Your XDR study that you have shows those locations are pretty significant. We have the Kurten Oil & Gas Field, which is a large area, and then the Lignite area. And those will both be impacted by the lake.

Then we'll have destruction of the wildlife. There are 9 threatened species, 6 endangered species, and 29 species of concern in that river valley in addition to the

natural wildlife game and exotic animals we currently have and manage, and the game fish and native plants.

One very important migrant individual coming across the Navasota River Valley and sometimes stopping to feed on our mussels and crustacea is the Whooping Crane, a very significant portion of the coastal region. Many people come to observe and watch those birds.

And then of the numerous species that are threatened or endangered, probably the one that's most notorious, besides the Whooping Crane, is the Navasota Ladies' Tresses Orchid, unique to the location where you're talking about having this lake.

The TxDOT, Texas Department of Transportation, recently undertook an endeavor to improve Highway 21. And in that process, they found several -- I think they bought 301 acres of new right-of-way to improve this acre. And of that 301 acres, after they bought it and did their studies, 10 percent -- 30 acres -- were Navasota Ladies' Tresses habitat. Okay. These are the locations along their new right-of-way they discovered. These circles are where they have actually identified existing colonies of the Navasota Ladies' Tresses.

Now to compensate, the National Fishing Wildlife Service, not only do they have to do modifications of their dirt work and the highway plan, they had to pay \$5,675 per acre to compensate for taking over those areas. The amount of land that y'all are talking about is going to be considerably more.

The Ladies' Tresses was federally listed in 1982. It's known that it requires a subsurface flow of water, and that's why this area is so critical to the existence of this organism. It's a claypan sandy loam, the claypan off of the first water table. And that first water table vibrates and moves laterally.

And because this orchid seed has no endosperm -- if you don't know what endosperm is, it's the white stuff on popcorn. It is a sponge. It absorbs water and holds nutrients and allows seeds to germinate. This particular plant has no endosperm. It requires moisture and nutrients the full time of germination in the initial birth of the embryo. That's why this is a unique -- the freshwater table of

this area is so unique to the existence of this species. And if you flood this area, we're going to lose this species.

In 2001 the United States Geological Survey did a study of Brazos County. In 2002 the U.S. Fish and Wildlife Service did a study on the orchid. In 2003 another evaluation by Fish and Wildlife. And then TxDOT bought their right of way, 29 acres to compensate at \$5,675 per acre.

With this one I'm just trying to show a perched water table by infrared photography. If you look at this area right here in the red, that indicates dry non-vegetated activity. And here the same area -- the first was in '95 and then 2004 -- this land, sandy loam, is inundated with water. There is a freshwater table, and that's what that orchid requires.

Habitat destruction. We're going to lose the river bottom hard-water forest, which is a very valuable asset; Post Oak Savannah; perched water tables, springs, and bogs, and sloughs. That perched water table not only provides the existence for our Navasota Ladies' Tresses, but we have spring. Even in the driest of years, that water moves laterally and comes out of the gully extract. They call it a gully. And we have springs -- Sweetwater Springs that flow year round. The wetlands is also very valuable.

The hydrogeology damages. We're going to have alluvial deposits, strata, clay, and gravel in the claypans and fill. These alluvial deposits and strata will allow for the water to move vertically and horizontally; and allows for the artesian wells that we have in that area because of the water coming off of the fills and out of the perched water tables.

Wetland destruction. If we destroy the wetland and you try to build a dam, you're going to have a very short half-life. Historically, the Millican Dam Reservoir has been known to have half-life of less than 30 years because of the high silt and high sedimentation. And that's one of the points that your previous speaker made on why the water supply is decreasing because of the sedimentation in the Millican Dam. There's a high sedimentation rate.

And, finally, you're going to have a depressed agribusiness in the area with destroying so much acreage. What we need to do, instead of building the Millican Dam Reservoir, is look at alternatives to that reservoir with desalination, water conservation, and water recovery reuse. This area originates much, much more rainfall and watershed than we do. We should do more storm water collection and storage.

Thank you.

MR. EVANS: All right. Thank you.

(Applause)

MR. EVANS: Our next speaker is John Knotts.

MR. JOHN KNOTTS: Yes. My name is John Knotts. I'm speaking on the Millican Reservoir. The context that I'm speaking here is as a future landowner. I'm third generation. My father, Bill, is the primary landowner, and he'll speak in a moment.

Approximately about 1500 acres plus a little right on the Navasota River Bottom, and with the elevations that we heard last week in Madisonville and the vertical flood zone, we're really talking about 270 feet above sea level on that. And that would pretty much put three quarters of our property under water and a fair portion of it that we couldn't get to without a significant expensive bridge.

My first point is -- and I'm speaking for everybody in this whole region -- the livelihood; the oil and gas; mineral rights concerns; and cattle, in our case; grazing; lease. And that income is directly related to our property as well as a lot of other properties.

The value of the land that will be purchased for this flooding by the state, we have concerns about -- drawn out over a long period of time -- the land would devalue because of the plans, and we would not be compensated to its true value. So we got devaluation of the land over time.

And also the mineral rights involved with that land. Once it's purchased, say 15 years from now, if we're looking at 2040, the purchase of the land and all the

preliminary work can happen in 15 years, somewhere around there. So concerned about the mineral rights and going with that land as it's purchased for this reservoir.

I think the cost of this project -- huge amounts of dollars you're talking about -- I think we need to put into desalination technology. Now I know it's been tried before. Texas A&M tried one in Freeport, and the cost effectiveness wasn't up to speed at that time. I've heard of other places around the country, like Florida, where it is being used.

And the technology is increasing, and, therefore, the effectiveness and the efficiency is gradually becoming better, I think, over a period of ten years. We have 800 miles of coast from Beaumont all the way down to Mexico. I think you can take that kind of money and put desalination plants every hundred or so miles. If you can get the technology to be effective -- I think you can -- that will solve a whole lot of water needs.

I think that the overall problem of this thing is -- I understand we need to look ahead, and we need to find resources for our water in the future for everybody. I understand that. But you're talking about putting peoples' lives, three or four generations of hard work and investment and futures for other generations, under water and about a third of the value.

So that's about really all I have to say at this point. Thank you.

(Applause)

MR. EVANS: Thank you, Mr. Knotts.

Our next speaker will be Gerald Jozwiak.

MR. JUZNICK: Thank you very much.

My name is Gerald Jozwiak. And I'm here, again, to speak about the Bedia Reservoir. Since Region's inception back in '97, Bedia Creek Reservoir has been part of the plan. First, in 2001, we were a management strategy, just like Millican is right now.

Then in 2006, they said, well, it will be a backup plan. We'll call it alternative strategy -- a current cycle -- and if we need it, we could use it. And then they said don't worry about it. Nothing will happen. It's just a backup plan.

Then 2007 it became a unique site. And by the time we got all our ducks in line, it was already passed by the legislature. You can't stop it here with Region H, a unique site designation. You'll never stop it at the state level. Because once it's in the State's Water Plan, the legislature cannot change the water plan. All they can do is act on it.

Senate Bill 1 was put into effect for local input and local participation. So once Bedias was recommended by the local Region H, the State looks at it as that's what's in the bill. Then if the locals want it, we'll make it a unique site.

Then here in this year, 2011, now they're calling it a viable alternative strategy for future planning decades. So it's still in the plan. I don't know what it will take to get it amended out of the plan.

They say in 2015 the designation of unique reservoir site will expire. But if it's still in the plan and you're still studying it, you still can use it. I don't know what it will take for the Region H Water Planning Group to amend this plan and take Bedias out of there. This thing will fester and go on and on and on.

One other point. Once you designate a unique site, when they do the reservoir protection study, it bumps you up on the list of reservoirs of importance. Right now Millican is 22. But I promise you, if you get designated a unique site, you'll be bumped up to either four or five on the list of sites to be built. So the fight should be, right now, be stopped for unique site designation for Millican, for Bedias.

We're just here. Our county has been stuck since 1997, and we don't know if they're going to do it; put it back in the plan; if it's still in the plan. And I ask you to amend the 2011 Plan, just to take it out of the plan completely -- Bedias Creek Reservoir.

Thank you.

MR. EVANS: Thank you for your comments.

(Applause)

MR. EVANS: Sammy Catalena.

MR. CATALENA: Thank you.

I'm Sammy Catalena from Brazos County. You know, I understand that the Millican Dam Reservoir, from a lot of things we've heard from the two or three meetings that I've been to, there's some reasons that they talk about why we should have it and what's going on and a little bit of everything.

But it's really a shame that in today's world of all of our research and everything that happens and us being on the forefront of the research that happens in the world, there can't be a way to figure out how desalination works; how to resupply aquifers; how to take care of groundwater; to catch it without spending a couple of billion dollars on the Millican Reservoir that will impact so many lives and so much land, land that has been in families for generations -- wildlife, minerals, lignite, roads, bridges.

And the problem is when you look at this and say, well, okay, it's not going to be here for a long time. Well, let me tell you, a long time -- if the legislature decides that the Millican Reservoir is a viable project -- that puts a cloud over that 71,000 acres. When is enough enough of people taking advantage from the big to the little? I think it's time that we all stand up. And enough is enough, and we've all had enough of that.

Not only are you impacting the people of the families and everything that's there, but just think about all the businesses. When you take 71,000 acres out of production, what happens to the financial institutions that's financing people in those 71,000 acres? What happens to all the agriculture business, whether it's feed, fertilizer, whatever? What happens to all the wildlife?

A lot of us make money off of our deer -- the Wildlife Conservation Program. What happens to all that? What happens to our cattle? What happens to the sale

(inaudible). All this needs to be looked at. There's got to be a better way to do this.

Thank you.

MR. EVANS: Thank you.

(Applause)

MR. EVANS: Bill Knotts.

MR. BILL KNOTTS: Sammy, you put a hard -- pretty hard act to follow. I agree with most nearly everything you said on there, and you're much more knowledgeable.

But it's been in our family all my life. But there's just -- the thing that bothers me is the lack of information that we as property owners and residents of this area have not received. We were hit in the face with this about two weeks ago.

There's no total amount. I have a total amount right here for anybody that wants to look at it of the original Millican Dam site, and it goes all the way up from Madison County. You can see what part of your land is going to be inundated and what the elevations are going to be.

Now on this original map, the top flood control elevation was 234; land acquisition 237; conservation level was 219. Now look what we have. The best I can determine -- which I'm not a real Internet whiz, but that's the only place I can get the information -- we're talking about a 30-foot vertical increase. Why? What's so different than 40 years ago when they started talking about Millican 1? Why do we need 30 -- 35 more feet of water? There's just not that much increase down in the flatland.

As I can -- best I can determine, the acre-feet of this 71,000 acres will be \$1,557,400. Is that anywhere reasonable? Is that a figure that fits anything you all have?

MR. EVANS: We're going to have a question and answer session later, Mr. Knotts.

MR. BILL KNOTTS: Okay. And the original, I think it's either 235 or 754 acre-feet. So why in the world doubling the acre footage with this extra 30 feet? We've kind of grown used to the fact that someday Millican 1 may be built. But we've reasoned out that most of my place would have been an on again off again swamp area. Now it's going to be 30 or 40 feet of water.

And like my son said, out of 1550 acres, I may have 75 or 80 acres in two parcels. Because of Morgan Creek and Austin Burnet, I won't be able to travel from one to the other. So you're impacting -- or you're having an impact of all of us property owners.

A river like the Navasota River is such a low gradient -- hydraulic gradient stream. I don't know the pool level of Limestone, but I would imagine that the gradient on the Navasota River was probably 1 to 2 feet per mile. When you go in and flood that kind of hydraulic system, then you're spreading out the difference in acre-feet. It's not like in the west and then the east where you got a mountain range or something you have more difference in elevation in a short period of time or distance, and you can impound a lot of water with fewer acres being flooded.

I don't understand why with all of our intelligence today and all of our technology we know these underground aquifers -- Huntsville, I think the Sims, probably more -- our water is primarily from the Carrizo (inaudible) -- why can't we figure out how to recharge these underground aquifers and drill more water wells instead of flooding the country? That's hard for me to see.

You know, it just wouldn't take a lot of technology to come up with some kind of -- I know on this presentation you had, the 2060 demand was -- the change in the 2060 demand from today was equal to what Millican Reservoir would be. So that's telling us that there will be no increase in any other water-producing reservoir or groundwater other than Millican for the next 50 years.

I can't believe that. But I'm up against a bunch of engineers that know a heck of a lot more about it than I am. I'm educated as a civil engineer but not as much as y'all are. It just boggles my mind why we can't solve problems instead of taking people's property, putting people out of business. Pretty soon we're going to run out of rivers and run out of creeks. Then what are we going to do?

Thank you.

MR. EVANS: Thank you, Mr. Knotts.

(Applause)

MR. EVANS: Robert Averyt.

MR. AFINOWICZ: Who's next now?

MR. EVANS: Robert Averyt. Good morning.

MR. AVERYJ: Good morning. Good morning. My name is Robert Averyt. I'm from College Station, Texas.

Guys, I would like you guys to, just for a second, maybe, close your eyes and put yourselves in our place. Think about your home place. Think about your deer lease. How many of you guys got to be deer hunters? Places you guys have worked on your whole life. Places your parents handed down to you. Their parents handed down to them. Put yourselves in our place. Say if we were coming to say, guys, we're taking your land. We're potentially taking your land. How would you feel? Yeah, your dander would get up.

I planted those live oak trees when they were that big. My grandfather helped me plant these trees. You know, we're finally getting pecans off those trees we planted back when I was a kid, and they're finally producing. Put yourselves in our place. I think there are other alternatives.

And then I'm going to upset a bunch of my neighbors here when I say this. But if you guys are going to do this, I would ask you to put it on a fast track. I've got neighbors across the river from me. There's a huge subdivision. There are over, like, 360 lots that they've sold. They've got about six of them they haven't sold.

These lots are from one to like six-acre lots. I toured it last night. There are some multimillion-dollar houses being built down there. Most of the lots are still vacant. They've been sold, but the houses have not been built.

These people don't know what you guys are planning. They're planning their futures there. If you're going to do this, don't let them build their houses and then

flood them 3, 5, 10, 12 years later. If we're going to do this, let's do it. Let's do it before my property values are reduced to nothing. Look at us as your neighbors.

You know, if you take -- you know what? Take it to heart who I am, and my place that I've worked on for years is going to be gone. How do I replace that? I can't replace it. It's invaluable to me. But do us the favor. If you are going to do it, let us know you're going to do it and ramrod it through; and we can get on with our lives.

Thank you very much.

MR. EVANS: Thank you.

(Applause)

MR. EVANS: Tom Ivy.

MR. IVY: Hello. I'm Tom Ivy. I'm on the Texas Stream Team. We like to go out and take an interest in some of these waterways and collect data.

I grew up in College Station, also, and I remember as a child growing up a Dr. Baldauf that you may have heard of or should have. There were wildlife sites there. And after I got back from the army, I got to know Dr. Baldauf a little bit better. He was telling me about the story of how he defeated Millican 1, and it's a fascinating story.

The thing is you can go look at any kind of data search you can go to. And A&M students have been working in the Millican area for years. They have done their doctoral research and so forth, and there's quite a bunch of studies. Dr. Baldauf is a wildlife (inaudible). There's been a lot of studies done in that area. And when he looked at this plan for Millican 1, he said this doesn't make any sense at all. This is not a good idea.

And he went to -- at the time, the way you built reservoirs, the Corps of Engineers would come down and talk to your Chamber of Congress. And they would go out and talk to your Sierra Club and say we'd like to build a reservoir out here. You know, all you got to do is apply for it, and we'll work it out. We'll get you a reservoir.

And so they had a congressional hearing on this Millican Reservoir, and a surprising thing happened. Dr. Baldauf got a bunch of his former students and so forth, and they called them friends of the Navasota River. And the friends of the Navasota River went to the congressional hearings and essentially laid out -- and some of these people came from foreign travel -- all these experts from all over the world came to talk about the Millican and how important it was that they not build a reservoir there. And I think Dr. Baldauf is right.

Shortly, thereafter, he came out. They were going to build this Trinity River on the Trinity out there by the Wallisville Reservoir. And Dr. Baldauf sent his fine team of people down there, and they collected a -- just a quick survey with information. And they said this place isn't going to work at all. This is a terrible place for a reservoir. And he was right. I mean, they didn't build it, and now we can really appreciate the fact that we did not destroy that area.

So I wanted to give you a bit of history on this. I think there's all kinds of information there if you just Google it. Actually, you can look at your own report. If you want to know this stuff that Dr. Lyne was talking about, a lot of these things are in your own experts' reports. It's there in your appendix. All the reasons listed are already in your reports.

I suggest, that as some columnist here on the paper -- I can Google that up here on April the 1st where he thought it was like an April Fool's joke. He says that he suggests you guys read this. Okay?

Thank you.

MR. EVANS: Thank you.

(Applause)

MR. EVANS: Mike Brinkmann

MR. BRINKMANN: My name is Mike Brinkmann. I'm a landowner of the Navasota River Bottom. I have 1200 acres that I bought acre by acre over the last 32 years. I didn't inherit this land. I paid market price for every acre.

(Mr. Brinkmann's phone ringing)

MR. BRINKMANN: Excuse me.

(Mr. Brinkmann tossed his cell phone out the door).

(Applause)

MR. BRINKMANN: I had and still have a desire to leave this property to my children who have all grown up on this property and to my grandkids who are half grown up and love being outdoors.

I have, over these 32 years, driven on my property almost every weekend with a few exceptions. I ranch my property by raising cattle and white-tail deer and farm my property by irrigating hayfields and planting hundreds of native food lots for my raised and native deer. To say that I am a family who loves his land would be an understatement.

Several years ago, the Soil Conservation District gave away wood duck boxes of which I secured 25. I installed them along Shepherd Creek which divides my property. And every year since, it's had almost full occupancy. This year we had 17 occupants that reared 15 groups of HAP lands which are now used in man-made ponds which we specifically made for this brooding period.

Last Friday I had over 70 red-shouldered hawks sitting in trees in my hardwood bottom resting while they flew north on their migration. Saturday morning I had about 150 hawks circling and trying to gain altitude to move on with their migration. How often do you see river otters, beavers, white-tail deer, nutria, gray fox, red fox, bobcat, coyote, and, unfortunately, over my share of hawks?

(Laughter)

MR. BRINKMANN: I have spent over \$100,000 installing green tree reservoirs for the ducks which have heavy use with over 15 different species, both coming and going south and going back north. It has not always been a wildlife mecca. Through thorough planning and well-spent dollars, I had a disposable(?) wildlife preserve in their midst.

I bore you with these details to draw a simple picture of what I and our neighbors are going to lose if this reservoir goes forward. Surely some of you board

members are landowners. Have you ever put yourselves in the position of where we are at this point, some stranger coming to you to tell you they're going to take your land away? Do you not feel guilty throwing your neighbors and friends under the bus for the benefit of the people down south that have many other ways to fulfill their water needs?

There are third-world countries all over the Middle East that process all of their water usage through desalination. You say it's not economically feasible. I think that's bull. It seems that we're always looking for the cheapest solution.

How about just doing the right thing for a change? I have tried to put myself in your shoes to determine what would possess you to vote affirmative for this reservoir project when you clearly know the impact to your community, to your friends and your neighbors.

Do you not think that the loss of 71,000 acres of tax revenues is going to cripple North Zulch, Bedias, North (inaudible), Madisonville, Iola, et cetera, et cetera? The schools will certainly feel the impact in protective services, such as police and fire, will be impacted. What's the plan, Judge Henson? Are we just going to double and triple the taxes on the survivors of Madison County?

To call these proceedings public hearings is almost laughable. These meetings have been the best kept secret around. I learned of the meeting in Madisonville the day of the meeting, and most everybody I talked to about the reservoir project found out about it within days of the meeting.

In the past 48 hours, I have talked to over 15 people that are going to be impacted by the loss of their land. They didn't even know what I was talking about. These people don't live in a vacuum.

In Madisonville you declare that you have met all the public notices required by your bylaws. I can tell you that the general public doesn't understand why the rush. Why have bylaws, unless you're afraid that once the truth is out the public uproar will be deafening.

(Applause)

MR. BRINKMANN: Three weeks ago, I was told there would be a new oil well drilled directly in the middle of the 20-acre hay field. I had no license as a landowner to stop them I was told. They had bought the existing lease and were going to drill regardless of what I did or wanted. I have no financial interest in this well. But I was going to lose 10 acres of useful land, and have 15 to 30 18-wheelers a day going up and down my road picking up dust all over, and a cleaning nightmare.

I thought how can they come in and screw me like this. And then I heard about the Millican Reservoir. You have given new meaning to the term.

(Applause)

MR. BRINKMANN: I want you to know that you have awakened a sleeping giant. The people of the Navasota River Bottom are now forming to oppose this project. It's obvious to me that this board has already made up its mind or has been told how it's going to vote.

You will be seeing full-page ads in the local paper showing how and who voted for this project. We will use the local media to our benefit. We will meet and whip and solicit every environmental group, hire consultants, lawyers, and lobbyists -- I'm referring to the legislature -- to reject the recommendations of this board. It's not too late. Please do the right thing here.

Thank you.

(Applause)

MR. EVANS: Cathy Cox. Good morning.

MS. COX: Good morning, gentlemen. We meet again. I have so many things I would just love to say, but there's not enough time. I had my six-year-old write a speech about her farm, but that's not why I'm here today.

I'm here today because I'm representing the Guardians of the Navasota River, and there's a gentleman who's not able to make this meeting. His name is John H. Flemming, PhD. And he asked me if I would come and read this letter to y'all. I'm

going to read this to the best of my ability as I am sure he is a far better speaker than I am.

"Ladies and gentlemen, I write in reference to the so-called Millican Reservoir project to which the public hearing today is addressed. My credentials: former faculty member, the University of Texas Medical School of Houston; former university president; Member Governor Select Committee on Public Education; Member Executive Committee; Government Criminal Justice Task Force; Chairman of the Board of Directors; Texas Education Reform Foundation.

"I write in vigorous protest to any project that would further erode funding for our public schools. If successful, the plan to place a dam across the Navasota River at Highway 30 -- the so called Panther Creek Dam -- will do two things to public education. Placing this project in unique site status will immediately free our road property values within more than 70,000 acres of the kill zone. This in turn will effectively freeze ad valorem tax rates which in large part fund our public schools.

"Number two, if and when the dam is built and the reservoir fills, 70,000 plus acres will be removed from the tax roll making the only choice available to our school districts raising taxes on the high ground to very high and unsustainable levels. None of this addresses the rapacious abuse of the state and national treasure, the Post Oak savanna in the Navasota River Bottom.

"A conservation count: There are at least 49 endangered species of plant and animal life within the kill zone of this project. As to raw economics, there are prodigious mineral deposits in coal, oil, and natural gas which will be forever lost. This doesn't even begin to consider the huge economic losses in ranching and agriculture. I know cows can swim, but they don't swim well.

Finally, and I speak as a native Houstonian, this project is about Houston's water supply. Surely there are more creative ways to solve that problem beginning with desalination, re: Gulf of Mexico and Draconian conservation measures that drowning our precious world in water that eventually will be flushed through Houston's sewers.

"I will do everything in my moral, ethical, and legal right and power to defeat this plan. John H. Flemming, PhD, North Zulch, Texas."

(Applause)

MS. COX: As I said, he is a much more eloquent speaker than I, and I'm pleased and honored to represent him here.

I do have one thing to say that crossed my mind as I was listening to Sammy Catalena and several of the others talk about the other sources and ways we can do the water. And I have one question. If the astronauts on a little space shuttle can regenerate their own water and have enough water for them to use the whole time they're traveling in space, how come we can't do something better than to flood everybody out of their homes?

(Applause)

MR. EVANS: Thank you, Ms. Cox.

Paul, I believe it's Brannan.

MR. BRANNAN: Good morning. My name is Paul Brannan, and I prepared something a little bit longer to say today; but I'm going to cut it down and be brief. People were saying what I wanted to say better than I could.

I think one of the big things we're talking about here is biodiversity. We have species. We have plants. We have animals that the hardwood -- the mixed hardwood river bottoms have some of the most diverse biodiverse areas that are in the state.

As of the 18th century, Texas had approximately 16 million acres of diverse hardwood bottom lands. In 1980 the state had 5.9 million acres, a loss of 63 percent. Since then there has been a steady decline, according to y'all's study reference in your reports of 12 percent per year. This is an area that should be protected as a jewel in the state of Texas rather than flooded. We've got enough loss of other lands. We need to try to keep the bottom lands of the Navasota River.

Thank y'all.

MR. EVANS: Thank you, sir.

(Applause)

MR. EVANS: Luke Graham.

MR. GRAHAM: I'm a Navasota resident, a lifelong resident of Navasota. I'm not a landowner. My family doesn't own land, but I do appreciate the river and the habitat that we have. And I'd like to read some excerpts from an op-ed letter of the National Wildlife Foundation Environmental Defense and Lone Star Chapter of the Sierra Club in reference to the initially prepared Region H Water Plan 2005, but these comments are still relative to the plan today.

It says that the Region H Plan does not provide quantitative analysis of environmental impacts of these specific proposed water management strategies nor do we believe that the Initially Prepared Plan demonstrates consistency with long-term protection of natural resources or agriculture resources.

The plan recommends water management strategy that would result in the destruction of bottomland, hardwood, wetland, and other important wild life habitats. When new reservoirs are considered, adverse impact to regional economy and natural resources around the reservoir site must be minimized.

Regardless of whether the proposed reservoir site is located inside or outside the boundaries of the region, reservoir development must be shown to be consistent with long-term protection of the state's water, agricultural, and natural resources.

Because other sources, including existing reservoir, would be less damaging and less costly, we do not believe that the Bédias -- and I assume Millican is not in his plan because that wasn't proposed yet -- we do not believe that the Bédias and Millican Reservoir should be included even as alternative water management strategies.

Under the socioeconomic impact of addressing shortages, a complete socioeconomic analysis would look at the total cost of implementing water management strategies intended to provide water for certain water user groups.

And I would like to say that I interpret this statement as the intention of this Planning Group to keep the water in Houston cheap at the expense of us, the citizens of the rural area. So I don't feel that the cost of the water are related to the cost of the loss of our land and livelihood and habitats. So I think that that needs to be considered by anybody who's planning on flooding it.

I'll continue. Under an article, Unique Reservoir Sites Recommended in the Regional Plan, language should be added to this selection to clarify that it is the legislature that decides whether or not to designate a location as a unique reservoir site.

The language in this section should be modified to indicate that the Water Planning Group has recommended for designation the site locations for each of these projects. So these guys can't do it. It's the legislature. We need to research that. I know you all already know that, but I want to get it on the record.

A section, Alternative Water Management Strategies, we have concerns about the identification of alternative water management strategies in the Region H Plan because we fear that these alternative strategies become a backdoor means of incorporating into the plan water management strategies that are, perhaps, more controversial than the recommended strategies. I feel that that's what's been done, and these guys say that's not right. I agree.

Under Appendix 4(B)(2), Potential Reservoir Sites, the potential reservoirs for which any environmental examination has been made indicate high or moderate to high environmental impacts; that any focus of attention on new reservoirs as water management strategies is brought into controversy and negative consequences.

This is specifically about the Bédias Reservoir, Appendix 4(B)(9). We oppose the construction of the Bédias Reservoir to the unacceptable -- due to the unacceptable environmental impact associated with the project. And we commend the RHWPG for dropping the Bédias Reservoir, the recommended water management strategy.

However, we oppose the recommendation that it be designated as a unique reservoir site and also oppose its inclusion in the list of possible alternative water management strategies, which, as you can see, it still is.

Impacts on moving water from rural and agriculture areas. The discussion in this section appears to downplay the significance in Region H of transfers of water from rural to agricultural areas. But we believe there's clearly an important shift of water from rural to agricultural urban areas over the 50-year planning period and that this shift deserves more attention from the regional water planners.

One item that is not discussed in this section is how any shift will affect wildlife resources in rural areas where hunting, fishing, and wildlife uses are becoming increasingly important economic activities supporting rural landowners.

Unique stream segment. We support the recommendations that the following six stream segments in Region H be designated as unique stream segments -- Armand Bayou, Austin Bayou, Bastrop Bayou, Big Creek Fort Bend, Big Creek San Jacinto, Cedar Lake Creek, Maynard Creek, and Oyster Bayou.

These are all recommended to be developed as water planning strategies. Not one of them is included on the plan proposed to us. And I want to know why they don't want to expand existing reservoirs to meet the needs that they have.

Unique reservoir sites. We oppose the recommendation of the sites to be designated as unique reservoir sites. Among other concerns, there is no clear definition of these reservoir sites, no discussion of whether and to what extent such designation and tax of property value or retail of property within the designated area would be a no real need for any of these reservoir projects.

MR. EVANS: Mr. Graham, we're going to have to -- you can submit all those as written comments with the bill. If you can wrap it up quickly --

AUDIENCE MEMBER: I got one more thing to say.

MR. EVANS: There's lots of people.

MR. GRAHAM: Sorry. Well, I'll put this away. You all heard enough. There's already plenty of literature opposing this. I think if we contact the people, the environmental agencies who wrote this, they're already on our side. And, hopefully, that can be a tool that we can use to stop the development of this plan.

Thank you.

MR. EVANS: Thank you.

(Applause)

MR. EVANS: Leonard Cox. Leonard Cox.

MR. COX: My name is Leonard Cox. I'm from Brazos County. First, I want to thank Mr. Evans and the Water Board for the opportunity to publicly voice our opinions. And, Sammy, I want to thank you for the eloquent way you delivered yours.

I went back and looked through Region G and Region H, and there's still some confusion over the conservation elevations, the condemnation elevations, the acres that are impacted by this.

I guess the next point I would like to make is that the projections that Region H made are based on the current water usage at the current rates. I saw on the news last night that Houston is increasing their water rate significantly. I wonder, will this impact the water usage of the people of Houston? And how does Region H plan to take that into consideration to revise their projections?

In Region H, I did not see an estimate breakdown of the Millican Dam project. It appeared that they took the estimate from Region G. The estimate in Region G may be flawed because it did not address current roads that would have to be revised to be bridges. This would include Highway 30, Highway 21, FM 1179, and many others.

It also didn't include the houses, wells, productions, and minerals that would be impacted. It did not include the loss of income to farmers, ranchers, and others in the affected area. It did not address the loss of revenue associated with beef production through feed stores and auction barns.

In Economics 101, I studied supply and demand curves. And we talked about the point of equilibrium, where in an open and free, fair competitive environment, you would reach that point of equilibrium for a fair sales price. We the people have suffered as different entities have manipulated those curves to maximize their own profits.

Some examples have been the gas shortage -- until gasoline went to \$4 a gallon, and the refineries are now at 50 percent production and haven't recovered. The subprime mortgage was another example of manipulating those supply and demand curves. It goes on to hedge funds, and there are others. Were the projections of supply and need for this water manipulated to favor those in the water industry?

I want Houston to have a secure and cost efficient source of water. I do not want the destruction of the Navasota River Bottom.

Thank you, Mr. Evans.

MR. EVANS: Thank you.

(Applause)

MR. EVANS: Laura Klemm.

MS. KLEMM: Hello. My name is Laura Klemm. I do not own any land involved in this. I came from Texas A&M Red Station Park in 1984. I am embarrassed as a former federal employee and former employee for Texas A&M and Texas Ag Service Station that there is so little information. The information we've gotten conflicts. Nobody knows exactly what's really being proposed because we don't really know what elevation we're going to do.

I'm really embarrassed. I know many people who live in the area. There are many multimillion-dollar homes that will be put under the water. These people don't even know this proposal is on the board.

I would like to know if y'all have done any kind of economic impact statements for all of the homes that are going to be put under water, condemned, because those people are not going to be able to pay off their mortgages. They're going to have to go through bankruptcy.

Many of those people got those loans from locally owned banks, not big corporation banks you can get federal bailout money. What's going to happen to those banks, those federal credit unions, those individuals who are invested in

those banks that gave the loans for those expensive homes? And I realize this isn't questions and answers, but I wanted to put that on the floor.

As far as water for Houston, there are other options. I suggest y'all look at what the city of Novato does. One of the things that can be done with Houston is do a mandatory for new construction, groundwater use, for any new construction, and give tax incentives for people who live in that home. If they're going to put in a groundwater use in their home, in their business, give them tax incentives to do that.

We talked about the wildlife. I know a lot of people are upset about the wildlife, the endangered species. I realize that there are plans from my recreation park days, and maybe things changed in the past. I'm not going to say who it is. But when you do reclamation to reclaim wildlife habitat, wildlife doesn't always know to do that.

And even if you try to reclaim natural habitat, as they talked about the water flow, you cannot regain that water flow habitat. You can designate and say this many acres is going to be habitat reclamation, but you can't make Mother Nature recreate the habitat in this way. The earth is not designed that way.

And one more thing. I've been taking notes. One of the many things that is -- and a lot of confusion is what's going to happen to the land surrounding the lake. Will it be recreational use? Will it be like Somerville where they're going to take control of all of the lakeside properties and only have limited access for the public?

My biggest concern is about all these oil wells and gas wells that will be under water. We currently have in that area where gas and oil wells have been dug and that oil is seeping into people's private home water wells. Even if you cap off these oil wells, what kind of safety are you going to have for water seepage, for oil and gas seepage? Or if some scuba diver teenagers decide to go down there and dive and cut open somebody's cap off, what kind of safety precautions do you have for those things?

So I have so many questions. I have so many people that I know in the area that don't even know this is on the board. A 10:00 in the morning meeting, people can't

even hop off of work and come down to Conroe. So I'm very concerned about how this whole thing is coming through, and there are a lot of people who need a lot more information.

(Applause)

MR. EVANS: Ken Brown.

MR. KRAMER: For the record, I'm Ken Kramer. I represent the Lone Star Chapter of the Sierra Club. It's the state chapter of the national organization. And I have appeared before the Region H Planning Group on a number of occasions.

I do want to say at the outset that I recognize and appreciate the hard work that the Regional Planning Group and the consultants have put in this round of regional planning and the previous round of regional planning.

I firmly believe you're acting in good faith to come up with a good water plan for the entire region. We do have concerns with the proposal included with this plan. I just want to focus on three issues that I think are important to keep in mind.

The first one, I don't have to really pound on the Millican Reservoir and the concern about those parts of the construction as part of the plan. I think the speakers before me have eloquently covered that issue.

I do want to say for the record that Sierra Club is opposed to the inclusion of Millican Reservoir as the recommended or alternate water strategy for this ground regional plan and that we do oppose the designation as the reservoir site north of Bédias, and, also, we oppose the inclusion of alternative water management strategies. And, of course, that designation has already been made, something we fought in the legislature unsuccessfully.

I do want to emphasize that I think we need to turn our attention away from these kinds of water strategies that divide people and that are seen as basically a system that provides winners and losers, because I think that's what your hearing expressed here today; basically, benefiting some parts of the region but not all parts of the region and affecting people negatively in many respects.

What we really need to do is focus more on better managing and more efficiently using existing water supplies. That may not take care of all the problems, but it can help us to have better solutions for the problems that we make. That's why the focus for us is emphasizing water conservation and drought management, first of all, before you go forward with other recommendations.

I do recognize the fact that Region H has included the considerable amount of water conservation in the existing and proposed plans, but I do think there's a lot more that can be achieved in that regard. Frankly, this region does not have a great record on water conservation efforts. The Houston/Galveston Subsidence District has a good record in terms of promoting water conservation, but most of the municipal water systems in this region are not actively promoting water conservation.

The Sierra Club National Wildlife Federation recently did a report -- a recent report called Drop by Drop which looked at 19 different municipal water supply systems around the state and what they were doing for water conservation. We only looked at three in the Region H area because the focus was statewide, not just one region.

Basically, Houston has built eight reservoirs in Region H. And, frankly, although there are programs in the area for capital use, none of those cities are doing any extensive water conservation efforts in an area where we're saying we have a need for additional water supplies. And we have some specific examples on our report about ways in which those cities could improve their water conservation more efficient use of water.

I would really urge the Region H Planning Group and the consultants to look more closely at what can be done in addition to things that are already recognized as potential water conservation in the area. The more efficient we can be in the use of our existing water supply, the more we can avoid some of the situations that we have the opposition about today.

The final point is just regarding drought management. In the early parts of this report -- I'm going to harp on it again -- the regional planning process -- the state planning process is aimed at providing the amount of water necessary to meet

water needs, water demands during a drought as serious as historic drought records. And yet we continue, in most instances, to refuse to actually include drought management as an important part of a regional water plan.

Now there are some positive sides about that. Region K and Region L were the first rounds. Those regional Planning Groups are beginning to use drought management as a strategy for meeting water shortages for certain water use groups. I would urge Region H to look at that as a possibility for this plan as well.

So the bottom line is -- what my message to you is, is that we need to avoid these kinds of situations where we're promoting water management strategies that are seen as bringing down winners and losers. We need to focus on better management and more efficient use of existing water supplies first and see how far that can get us before we propose new, expensive, environmentally destructive, and other ways, harmful water management strategies.

Thank you.

MR. EVANS: All right. Thank you, Ken.

(Applause)

MR. EVANS: Richard Tauber.

We have five more speakers. And then if we have some time left, we will answer a few questions with the time.

Richard Tauber.

MR. TAUBER: Hello everyone. My name is Richard Tauber. I found out about this at 8:30 this morning at City of Houston downtown.

And we have four property owners in Brazos County on Highway 21. We've been property owners since the mid '70s.

You know, I think this is a great setting and everything. I think y'all are letting people speak, but I don't think the people -- I think there's 10 percent of the people that know about it that's going on, just like me this morning. I raced here from downtown Houston, didn't know anything about this until this morning.

You know, if you're a landowner, I would have thought that y'all would have sent out -- you know who lives on that 71,000 acres. You would have thought you would have gotten a piece of paper that said, hey, there's going to be a meeting.

(Applause)

MR. TAUBER: You know, it's like not knowing about something, and all of a sudden you do know about it; and you come here as quick as you can. That's the way government is these days. You're just trying to protect your freedoms in this world. And these fine people who are speaking today are trying to do that.

And I guess my biggest beef is I don't think -- you're only taking the top of the surface of that 71,000 acres that people own and how it's going to affect people.

Thank you.

MR. EVANS: Thank you, sir.

(Applause)

MR. EVANS: Katy Wilson. And I believe Paula Moore is going to speak for her; is that right?

MS. MOORE: My name is Paula Moore. I want to read a letter to you guys from a lady by the name of Katy Wilson.

"I hope that in my lifetime eminent domain is abolished by the legislature, one of the worst forms of abuse in government power. It is fundamentally wrong to legally steal people's land from them or threaten them with labels such as unique reservoir, devaluing their property.

"It is wrong for taxpaying landowners to live with the sense of uncertainty and fear from political intimidation and threats. It is illegally wrong to alter and damage the ecological system that wildlife depends on. After all, are we not an interdependent society?

"These reservoirs are reckless and unnecessary for our communities, especially when we have the Gulf of Mexico waters that can be desalinated. The following is a quote directly from kdps.com: 'Over the course of our planning, we've discussed

the alternative methods such as desalination that is something everybody would like to look at. But when you find out the cost of desalination and the cost of developing the water source, it's prohibitive.' Mark Evans said, 'nice polish sound bite coming from a politician.'

"Well, before any condemnation and accusation of land takes place, I, along with the others in opposition, do want to see proof of this. Just because a nice smooth power point presentation is put together and rehearsed by a well-versed speaker does not make the information necessarily a hundred percent true.

"Comprehensive studies with real numbers, not inflated (sic) ones, should be compiled together and laid out side by side so that the common person, especially one registered to vote, can read, receive, and reconcile, and be able to offer an intelligent opinion as to whether it is truly prohibitive.

"Why is the planning committee -- why is it the planning committee can defer questions from the concerned citizens, such as in the case of Madisonville last Thursday when, in fact, they're just that, a planning committee? How do you plan something without the facts to substantiate (sic) your claims? You surely know the answer to the discrepancies and inconsistencies that have already been addressed in the particular water levels.

"Regardless to the actual reservoir site, water levels and additional condemnation protective land should be surrounding the body of water. This destructive reservoir threatens to alter the characteristics of an entire community -- the Brazos Valley and surrounding areas -- of which I've personally and have been a lifelong resident.

"Whether or not a taxpaying landowner is directly affected, this reservoir will reverberate and penetrate throughout the rest of the taxpaying community, our eco-district, etc.; the way of life that most people have been accustomed to and have appreciated for decades.

"I do not understand. Am I still learning as to why these reservoirs, in particular the Panther Creek Reservoir, can destroy and displace farmers, ranchers, and wildlife alike so that somebody in the suburbs in Houston can water their lawns 24/7?

"So as a mere landowner and citizen in the Brazos Valley area, we are battling against the millionaires of Sugar Land. They do not have enough money in Region H to take the salt out of the Navasota water that is so close to where they live. Is the opposition going to be aimed towards a bourgeoisie (sic) yes voting, pro-reservoir politicians who want to assert their powers for financial gain? I just do not understand the process, but I am receiving civic lessons no doubt and one that is not taught on a college campus.

"Legislatures are elected officials that are vested with the responsibility to people that place them there to act on their behalf, to be their voice in congress. The opposition group or groups to these reservoirs is currently organizing and gathering enough important information to defeat these proposed plans through new sensible legislation."

I have something to say personally. I have a two-year-old daughter, and I just moved back to the country so she would have a place to live. And if you guys do this, she won't have it.

Thank you.

(Applause)

MR. EVANS: Mark Dudley. Mark Dudley.

MR. DUDLEY: All the time I thought there was a podium up here.

I'm a landowner in Brazos in Grimes County. You guys are doing a thankless job. I mean, have you thought about who nominated you for this board today?

(Laughter)

MR. DUDLEY: You know, I doubt that many folks in Region H know who you are. You know, obviously, the folks in the Navasota River Valley aren't too fond of you right now and with good reason. But obviously you're concerned about Texas and what Texas is going to do in the future. So I appreciate you serving and listening to us today.

You're about to impact our lives in a big way. Sammy Catalena used the analogy of a cloud over our land, and that's exactly the analogy I've come up with. Seventy-one thousand acres we're talking about under water and, if I read this correctly, another 64,000 acres of mitigated property; 135,000 acres of our property taken away from us; a huge economical impact to our area.

You're going to impact us in two major ways or in two stages, I think. The first stage is going to be when you designate our land as a unique reservoir site because I just don't think that we can continue to improve our property, that we could mark it our property if some of us were to choose to market it. And I can tell you I'm not one of those folks. But I always like to know that my property is of a certain value. And I just don't want that cloud hanging over us for a long time.

And in the second stage is when you're going to actually put it under water. Then we're going to lose a national treasure. It's the only river that goes through a hardwood forest in Texas. There is nothing else like it in the state of Texas. So if you go a little bit to the east, you're in a planting wood. If you go a lit bit further west, you're going through prop land, the blackland, prairies, and getting into hill country. This is the only place you go through a hardwood forest.

The reasons you should not do this. There are a lot of them. I can't talk for very long, but here are some. I'm a contractor. I always hate when the engineers' estimate is the low bidder, and I think that's going to be the case here. I think your budgets are grossly underestimated.

The budget, as Leonard Cox said, does not account for the relocation of public infrastructure; Texas Highway 21, another highway you can go through. The budget does not allocate for the purchase of mineral rights. There is a huge gas filled up in Leon County. If you guys wanted to find a way to finance this thing, you might want to go talk to those folks in Leon County. They might could do it for you. There's a lot of money up there.

As Leonard said, and through our looking at your report, apparently, you used Region G's estimate of what it was going to cost to do this thing. You used the 1.3 billion. But in Region G's report, they have two numbers, two costs. In Table 4B12.1, the cost of the reservoir is 1.7 billion.

So I don't know which of Region G's numbers is the correct number, 1.3 or 1.7. I don't know which -- you know, we don't have all the information that they used to build their report, and I'm concerned that y'all have picked the wrong number. The 1.3 million may not be the right number. NG's report, they have this statement that I want to read to you.

"For Brazos County, the average market value of land and improvements was 18,925 per acre, and the average appraised value was 16,306 per acre in 2003. This average includes urban land in Bryan and College Station and would not be represented for the value of the plan of the proposed reservoir site.

"Therefore, the average appraised value per acre from Leon County, \$1,271" -- and these are 2003 numbers, and I don't know why anybody would be using 2003 numbers in 2010. But anyway, "therefore, the average value per acre in Leon County was used more appropriate upper limit."

So the upper limit of the value of the land in Brazos County is comparable to Leon County at \$1,200 an acre.

There's a footnote on this, footnote number 137, and it says, "this is a personal communication from G. L. Winn -- Buddy Winn. He was the chief appraiser for Brazos County Appraisal District. I talked to Buddy Winn this morning, and I read him this statement. He does not remember making it. He said, Mark, if I did make that, I was in error. He wanted me to tell you guys that. He said I think it's probably more likely taken out of context.

But let me tell you something that you relayed to these guys. In November of 2005, I sold 125 acres -- this is Buddy Winn speaking -- without the minerals in Leon County in this reservoir site area underneath what will be the future lake for 2,560 an acre.

Think about that. If you have undervalued all the land in this deal by half, could you ever build this reservoir? And if you can't build it, should you ever ask the state to put it as a unique reservoir site? Because you're really going to impact our lives by doing that.

MR. EVANS: Okay, Mr. Dudley, if you can finish up. I've got two more speakers.

MR. DUDLEY: All right. Good deal.

And who are we building this for? You know, where is this growth going to come from? Here's a few facts that I know are good. For a culture to maintain itself, you have to have 2.11 children per family. As of 2007, the current fertility rate in the U.S. is 1.6 children per family; that's U.S. citizens.

If we add illegal immigration from Latino families, it's 2.11, the bare minimum. These are folks that don't live in the United States. Their moms don't live here. Their daddies don't live here. Their grandparents don't live here. They're coming from somewhere else. You want Texans, American citizens, to give up their land for people that don't even live here.

(Applause)

MR. DUDLEY: Last thing. I'm a contractor. I'm building a million-gallon per day water treatment facility for the Trinity Water District that they're going to sell water to five other districts from that point. It goes online this month.

The cost for them to do that is a fraction -- a fraction of the cost that you're talking about to produce water out of this reservoir. You have access to that same river. You have access to the Brazos River. Why not make use of it and not take anybody's property from them?

Thank you.

(Applause)

MR. EVANS: Jim Wall.

MR. JIM WALL: Hello. I'm Jim Wall. I have a ranch in the northern part of Brazos County. It's Bryan. It's considered a Bryan address. And I'm addressing you today based on the Millican Reservoir for about the Millican Reservoir.

First of all, one thought that crossed my mind. It seems we've totally lost the concept of the fact that our Founding Fathers wanted the government to fear the

people, not the people fear the government. This has really been turned on its head.

But with that said, I feel Region G has -- y'all stated, Mr. Evans, that this was three of three for your public hearings. The reason you're to have these public hearings is to notify the public and inform them and give us a chance to either support or oppose this situation.

I believe you have grossly, inadequately notified the public that will be adversely affected by this. I'm passionate about this. And I'm going to request that if y'all have the responsibility and integrity that I would think that you have, because you've been nominated in this position, that you all reschedule these three public hearings and hold them at a time that people have been notified.

Our state representatives, our senators, House of Representatives can place phone calls, automated systems, that notify everyone in their districts of telephone conferences. Not a single piece of paper; not a telephone call from y'all. My understanding was you said you put a nice thing at the courthouse. I believe it's at the County Clerk's office and possibly the library. I haven't been to the library in years.

(Laughter)

MR. JIM WALL: I haven't been to the County Clerk's office in years. And maybe y'all live down there, but I don't. I've got a job. I've got a ranch. I've got three children. Life gets in the way of going and checking the public bulletin board. It wasn't even posted in our newspaper in a prominent location. So I want you to keep that in mind and think about rescheduling all these.

Next thing. These meetings, although you have held them and you're three for three now, the information has been very vague; and I believe other people have already related that. But it has also been in error. I showed up almost an hour late in Madisonville, and that's with the proposed water bill. That's the first time I heard about the thing. I came from Austin to come hear about it.

You all told me 263. What research I found on the Internet, this is either an error or a lie because 273 is what's posted on through the Internet hidden in the Texas

Development Water Board Web site documents. Also, you failed to even list it was held in Madison County. And on the deal, it failed even to list Madison County as one of the affected counties.

At the same meeting, you told us you didn't have data. We're asking where is it? They're not here. Where exactly are all these lines? You've developed costs. So you have an idea as to where this is going and what land is affected, and yet you won't provide that to us.

So either you're plausibly uneducated on it and just throwing numbers out, which I ask you to go back and read the document and reevaluate your numbers because Region G does have this listed as an estimate of \$1.7 billion, and y'all have it as 1.1. So if you reevaluate it, it may not be cost-effective, and you may want to remove it from your strategy for the unique site.

So, I think, before you need to go any further, you need to go back and reevaluate your numbers, number one. Then if you still think it's necessary, number two, go ahead and reschedule your public hearings and explain to us here is our proposed area that we're going to mitigate. Here's the mitigated land we would like to obtain; what are your thoughts?

Instead, you want to rush it to the legislature, get it stamped, get your three rubber stamps, three hearings, get you a sponsor, get it deemed a unique site.

In the meantime, if I get run over, trampled by the bulls in working pens, fall off my bulldozer and I die, and my wife wants to sell this property, the value has spiraled down.

Somebody else wants to sell the property labeled unique. Theirs has spiraled down. Then when you have the time -- you say, you know what? We decide we want to build this thing. Here's our comps. All the values have plummeted. This is wrong, and you should reevaluate this.

Next item. You know what? I think that's enough. I'll leave you with the thought of David and Goliath, because we will fight.

Thank you for your time.

(Applause)

MR. EVANS: Jerry Wall.

MR. JERRY WALL: My name is Jerry Wall, and I think I did a good job of raising my son. He's pretty outspoken when he gets a little riled.

I didn't know about this until he notified me about it, about the meeting. And I didn't realize even at that time that you were talking about an area really almost twice the size than what you're talking about flooding. And it's really disheartening to spend your life accumulating and working for something, to have it labeled as a future site for some type of development that will adversely affect every person in that area.

And I'm sure that the Water Board would recommend to the State that the Houston Water District compensate the county and city for the taxes that will be lost when all this property is seized or purchased, however you want to refer to it.

Just imagine your own residence if somebody declared your entrance to your residence as being a toxic -- future possible toxic waste dump. You don't think it wouldn't have an effect on what you could sell your property for? And this may take 30 or 40 years to be resolved. I don't know what your plans contain.

I'm a little disappointed that the amount of notification and the form of notification may meet the state legal requirements, but, boy, it sure rings kind of hollow for the guy who pays his taxes every year. I know of other taxpaying citizens that did find out about this haven't really had the opportunity to look at the long-term affect of this. And I don't think we've been given enough information to understand what all the implications are. And that's one of the most aggravating things that I can see.

And I always hear from politicians. My son and I were discussing this coming over. They can get a phone conference about their reelection campaign and have you on the phone for an hour and a half trying to raise money. But how many of the representatives of these areas that are going to be affected have attended this meeting that you've held? Were they notified?

(Applause)

MR. JERRY WALL: Were they notified? Or do you rely on them to get the information off the Web or the library bulletin board like everybody else? They weren't notified?

MR. EVANS: I can't imagine that not one single resident of any of these representative presenters hadn't called their office and tried to talk to them.

MR. JERRY WALL: I called before, and they're going to get some calls now, I can assure you. As I understand it, and I don't know if my understanding is correct, but this will be a site strictly for water holding. It won't be any commercial development around it. Is that true?

MR. EVANS: Finish your comments, and then if we have time, we'll answer.

MR. JERRY WALL: Well, that's one of my concerns. I appreciate getting all the information about the endangered species and what have you. But I know in the past that's only applied to the commercial enterprises that are trying to develop something. The government always seems to find a way around it. It seems like it now.

I really would like to recommend that more input be taken from the citizenry that's going to have to live through this because this is devastating to me and the families that are in the Brazos family. I just think the process may be legal and you guys may have done an outstanding job to this point in trying to meet the criteria of what you're trying to do, but it leaves a very bitter feeling with me to find out and have to rush over here, you know, ten minutes late before the starting of the meeting and find out that this is going to affect my family for the rest of their lives.

And I appreciate it, and I appreciate any consideration you can give to this in order to get more input from the people that are going to pay the price.

MR. EVANS: Okay. Thank you for your time.

MR. JERRY WALL: Thank you.

(Applause)

MR. EVANS: And that concludes the public comments for this public hearing. We have started at 10:00, and we've been two hours of public comments. We also have a meeting that we have to conduct as well, and I believe there's a 1 o'clock meeting as well in this room.

So what's the Planning Group want to do? Do you want to try to take a few questions if we can? Twenty minutes or so. Okay. What we're going to do -- and we're going to take a few questions. But in order for fairness for everyone, we're going to recognize you. You get one question. Come to the podium. Ask the question. We'll try to answer it if we can. That will allow as many people to get a chance to ask at least one question. So don't come to the microphone and string out a series of questions. Don't do that. Okay.

AUDIENCE MEMBER: Will your recommendations to the legislature be available to the people that attended these meetings at the time they're submitted to the legislature? You have our mailing address and so forth. Will you mail us a copy?

MR. EVANS: Oh, no. They won't be mailed individually to you.

AUDIENCE MEMBER: Pardon me?

MR. EVANS: They wouldn't be mailed individually.

AUDIENCE MEMBER: We won't know what your recommendations are.

MR. EVANS: Glenda, you want --

MS. CALLAWAY: I just wanted to make the recommendation that Jason give him the time line. So where we go from here before we got these questions --

MR. EVANS: Okay.

MS. CALLAWAY: (Inaudible).

MR. EVANS: Sounds good.

MR. AFINOWICZ: Okay. Just to give you an idea where this process goes from here. As we said, public comment is open until June 8. At that point, the Planning

Group is going to consider all those comments, and we'll be able to see those comments as they're made available. From that point on, the final plan will be developed and incorporating those comments wherever possible, and that will be submitted to the Water Development Board September 1st.

MS. CALLAWAY: And at that time, the plan that's submitted will go on the Web site for us, and shortly thereafter on the Water Board's Web site; right?

MR. AFINOWICZ: That's correct. And you can consider the plan that's out there right now, the Initial Prepared Plan, is a draft. That's what we're speaking off of right now. It contains all the information that the Planning Group has developed and used to make their decision up to this point.

So everything that has to do with the development of the process, considering the process, and then concluded is all in that plan. And that is available now in draft form and will be available as a final document as well.

MR. EVANS: Thanks Jason.

All right. Mr. Knotts.

MR. BILL KNOTTS: I have a rhetorical question. Has anyone on the board considered that this reservoir will flood the newly built Bryan College Station landfill, which they spent millions purchasing the property for Millican? And has any member of the board realized you have not heard from one citizen in favor of the Millican Reservoir?

MR. EVANS: Next question.

MR. BILL KNOTTS: No answers?

MR. EVANS: Well, I would say no. I haven't heard one citizen yet that is in favor of Millican Reservoir.

MR. AVERYJ: My name is Robert Averyt. Thursday in Madisonville, we asked the question about, in the draft plan, the elevation. We were given the number 263 for the elevation. I've seen 273 all over all of your documentation. It was explained to me that that might have been a typo. If that is the case, you guys

might want to find another typist because I have found all kinds of discrepancies in your information.

But my question is: Is the elevation 263 or 273? If it is 263, would you go back and clean up your typing?

MR. AFINOWICZ: Our understanding, in working with Region H consultants, is that elevation is 263. And that is something that we intend to do. I know one issue that may be causing some problems is that on several of the newspaper message boards and so forth, there have been a lot of the draft documents, even before the Initially Prepared Plan the Planning Group considered several months ago.

Several of those documents were floating around which did have more issues than the problems that we found in the IPP. We're going to correct all of those as much as we can, and that's the intent. However, some of that misinformation is because of those older documents. So we'll definitely take a look at it.

MR. AVERYT: It's the stuff that's currently on your Web site. And that has been the only resource we have had to access. But thank you guys for your service.

AUDIENCE MEMBER: Just so it doesn't get lost in the facts, the question is: Did you know the Brazos Valley Solid Waste Management Association Landfill serving the Brazos Valley area is on Highway 30 right next to the Navasota River? And do you have consideration for leachate movements -- since this is a claypan area, so they overlay the same loam soil -- that these leachates may in the future move into the water coming to Houston?

MR. AFINOWICZ: I'm personally not aware of that being considered at this point. That's one of those conflicts that would have to be considered later on.

AUDIENCE MEMBER: I have one question and one question only, and I'd like to get an answer to it. Is anybody on this board against this project?

(Steve Tyler raised his hand).

AUDIENCE MEMBER: Good.

(Applause)

MR. ERICKSON: My name is Brad Erickson. I'm a property owner in Brazos County. I was at the Madisonville meeting. And dated January the 2nd -- under pages technical memorandum -- Lake Livingston, if I'm not mistaken -- let's see, yes -- has enough water to supply this area until 2050. And under your already designated unique sites, they can supply the future needs by transferring water out of the Trinity River Basin. Why in hell are we going through this with Millican?

MR. AFINOWICZ: The reason is that water in Livingston is identified for future demands already. That's part of the plan as well. And in addition to that, there are needs that can't be met by just that. (Indiscernible) supplies Livingston and lower Brazos, and that's the one that Millican Reservoir is targeted to meet.

MR. ERICKSON: Then we need to start looking into desalination and more aquifers or expand the existing ones that we have now without taking land from these people, including myself, and actually buying our future as business owners and property owners in Wallingham.

MR. EVANS: Okay. Those are comments. We have questions.

AUDIENCE MEMBER: Kind of a question/statement. But talking about desalination and the amount of money we're talking about, that would create Texas jobs to build plants, build the aquifer to take the water from the plants out into the areas needed for decades to come.

MR. EVANS: Did you have a question, sir?

AUDIENCE MEMBER: Yes. I'm looking at the chart that shows year demand 2010 versus 2060. We say that demand for 2010 is 2.3 million acres; 2060 is 3.5 million. The paragraph on the left says that total water supply currently available in Region H is 3.537. Now does that include these projects or is that the way it stands right now?

MR. AFINOWICZ: No, sir, that does not include these projects. And the reason why many of these projects are needed is because not all the supplies of where they are, but where they need to be, they're not all usable to people who need the water.

AUDIENCE MEMBER: So I guess I don't understand. If that's what the supply is, how does the supply change?

MR. AFINOWICZ: Supply changes over time. In the case of surface water reservoirs, because of sedimentation and groundwater, the major fact of impact in groundwater availability to regulations (inaudible). As the growth has occurred in the Gulf Coast area at the time, it's been identified that greater levels of groundwater is not sustainable.

AUDIENCE MEMBER: What we're saying there is we're talking about a fraction, 3.53 rounded between what's going to be available now to what we need 60 years from now is what that chart says; correct? The demand is going to be 3.53. Currently we have 3.53.

My other question is this. We're talking about basing most of this on population growth that we're looking at 2010 to 2006 statistics. Do we not go back further in history? We're basing 60 years on six. Do we not look at this and think there might be something unique in those six years that won't carry forward for the next 60 years?

MR. AFINOWICZ: The initial projections are based on the 2006 Plan. That was developed based on the information from the 2000 census and from information prior to that. So it represents a much longer term for sure.

Now some of those have been modified over time because there's been a higher level of growth identified in some counties and in some areas. And that was where information from the state demographer and also the Water Development Board were used to kind of trim and update those numbers that we're using in the 2006 Plan.

AUDIENCE MEMBER: So is that a yes answer that there was more than six years considered?

MR. AFINOWICZ: Yes.

MR. EVANS: Okay. Any other questions? We have time for about two more questions.

AUDIENCE MEMBER: The map issue for Millican, I don't understand why you can't get a better map. Bédias is a backup plan. You made all kinds of maps for Bédias. Here you have a management strategy and no map. Are you going to get a map of Millican before they vote on it as a unique site like they did for Bédias and count all the water wells, all the oil wells, all the pipelines, and all the cemeteries? Millican map.

MR. AFINOWICZ: Just to answer that, the information is available right now, and it's at the level it is because this is a preliminary planning exercise. This is as far as it has gone to identify Millican as a potential solution to those long-term needs. There's not a detailed analysis that Bédias has received.

AUDIENCE MEMBER: Who asked it for Bédias then?

MR. AFINOWICZ: That was a process of once that was identified as a strategy, that was carried to the next level. And then that study was formed by the Water Development Board.

MR. EVANS: Two more questions.

AUDIENCE MEMBER: I would like to know of any of these reservoirs, whether Bédias or Millican or whatever, what is your proposal for the land you surrounded? Will it be managed like Lake Conroe, the lakefront property? Will it be managed like Lake Somerville where Corps Engineers have taken hold of all the properties and perimeters, and there's limited access? Who's going to make money off of these reservoirs? Who's making money off of these (inaudible)?

MR. AFINOWICZ: Well, that's a hard question to answer, but I can definitely tell you it's not the Regional Planning Group.

(Laughter)

MR. AFINOWICZ: The Planning Group only intends to find answers for meeting needs, finding the water to meet the projected growth. And there's nothing at this point without a project sponsor identified that would be able to point to how that reservoir will be built or managed at that point.

AUDIENCE MEMBER: In the report, it says based on the total annual cost for projects and the water supply yields, the unit cost should be \$1.30 per thousand gallons. Does that include the cost of building the dam or just the annual cost?

MR. AFINOWICZ: I believe that should include that service for the entire project. I have to see exactly where that is.

AUDIENCE MEMBER: Okay. Then I can just follow up.

Then can you tell me what the cost is for desalination per thousand gallons and the cost for treating river water per thousand gallons?

MR. AFINOWICZ: The desalination is going to be a significantly higher cost. That's one thing --

AUDIENCE MEMBER: I've heard that. But I'm trying to get the extra DAT number, and I'm sure you must know it.

MR. AFINOWICZ: It is in the plan. Now I couldn't tell you what that number is off the top of my head.

AUDIENCE MEMBER: Okay.

MR. EVANS: I will get that figure for you.

AUDIENCE MEMBER: Please do. We would really like to hear that.

MR. AFINOWICZ: I'll call you and get that to you.

BOARD MEMBER: I think it's almost four bucks.

On the river water issue, there's no river water that's available.

AUDIENCE MEMBER: You can't get Trinity River water?

BOARD MEMBER: You have to get impounded water.

AUDIENCE MEMBER: Brazos River water?

BOARD MEMBER: In the Brazos, you would have to have an impoundment. You would have to have storage. There's no river water available for just taking out a river with no lake.

AUDIENCE MEMBER: And the Trinity, you said what?

BOARD MEMBER: Same thing.

AUDIENCE MEMBER: I'm sorry. But that water is going right in the Gulf and getting salty. I don't understand why you can't get it before it gets there.

MR. AFINOWICZ: (Inaudible).

AUDIENCE MEMBER: Okay.

MR. EVANS: Thank you very much. We need to move on. We need to move on.

AUDIENCE MEMBER: I got one question for you. You said the current level is 263. I'm here on your Web site right now. This is February 2010, Chapter 8, and it shows the Millican Reservoir to be a total of -- or elevation of 273 feet with top of dam at 283.

MR. AFINOWICZ: And that's an incorrect number. We'll definitely be changing it.

AUDIENCE MEMBER: So you're having public hearings --

(Audience uproar)

MR. EVANS: Okay. Okay. That's it. All right.

AUDIENCE MEMBER: You tell us to go to the Web site to get the information so you can hold a public hearing. Therefore, once again, I ask you, how many of y'all would be in favor of rescheduling these public hearings once people have the proper data? Because right now the data even on the Web site is not accurate. I ask: How many of y'all are in favor of rescheduling the public hearings? Oh, wow. So that's a no.

MR. EVANS: Thank you for your comments and your questions. We'll close the public hearing at this time, and our meeting will start in five minutes.

Appendix 10H

Written Comments

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TEXAS WATER DEVELOPMENT BOARD



James E. Herring, *Chairman*
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Executive Administrator

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Joe M. Crutcher, *Member*

June 28, 2010

The Honorable Mark Evans
Chairman, Region H Regional
Water Planning Group
c/o Trinity County
P.O. Box 457
Groveton, TX 75845-0457

Mr. Reed Eichelberger, P.E.
General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305

Re: Texas Water Development Board Comments for the Region H Regional Water Planning Group (Region H) Initially Prepared Plan, Contract No. 0904830867

Dear Judge Evans and Mr. Eichelberger:

Texas Water Development Board (TWDB) staff completed a review of the Initially Prepared Plan (IPP) submitted by March 1, 2010 on behalf of the Region H Regional Water Planning Group. The attached comments (Attachments A and B) follow this format:

- Level 1: Comments, questions, and online planning database revisions that must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements; and
- Level 2: Comments and suggestions for consideration that may improve the readability and overall understanding of the regional plan.

The TWDB's statutory requirement for review of potential interregional conflicts under Title 31, Texas Administrative Code (TAC) §357.14 will not be completed until submittal and review of adopted regional water plans.

Title 31, TAC §357.11(b) requires the regional water planning group to consider timely agency and public comment. Section 357.10(a)(3) of the TAC requires the final adopted plan include summaries of all timely written and oral comments received, along with a response explaining any resulting revisions or why changes are not warranted.

Our Mission

To provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas.

P.O. Box 13231 • 1700 N. Congress Avenue • Austin, Texas 78711-3231
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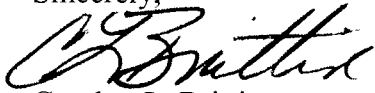


The Honorable Mark Evans
Mr. Reed Eichelberger
June 28, 2010
Page 2

Copies of TWDB's Level 1 and 2 written comments and the region's responses must be included in the final, adopted regional water plan.

If you have any questions, please do not hesitate to contact Temple McKinnon at (512) 475-2057.

Sincerely,



Carolyn L. Brittin
Deputy Executive Administrator
Water Resources Planning and Information

Attachments (2)

c w/att: Mr. Jason Afinowicz, AECOM

**TWDB Comments on Initially Prepared 2011 Region H
Regional Water Plan**

LEVEL 1. Comments and questions must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements.

Chapter 1

1. Page 1A-2, Section 1A.1.4: The Groundwater Management Plan cited for the Lone Star Groundwater Conservation District appears outdated. TWDB records indicate the date of their most recently approved management plan is 2009. Please confirm that the information used from the Lone Star Groundwater Conservation District management plan in the development of the regional water plan is current.

Chapter 2

2. Page 2-53, Table 2-6: The wholesale water provider list does not match the content of the online planning database. Trinity River Authority is included as a wholesale water provider in the plan lists but not in the database. Lyondell-Citgo Refining LP is listed as a wholesale water provider in the database but not in the plan. Please reconcile the plan and online planning database as appropriate.
3. Page 2-54: Table 2-7 is mislabeled as Table 2-6. Please revise as appropriate.

Chapter 3

4. Please confirm that the groundwater supplies in the plan were calculated, as required, as the largest amount of groundwater that can be pumped annually without violating most restrictive physical, regulatory or policy condition. *[Contract Exhibit "C" Section 3.2]*
5. Throughout Chapter 3, the plan refers to data from "DB07". Please correct the citations to refer to the current online planning database "DB12".
6. Page 3-1, Section 3.2; Table 3A-1: Please indicate that the water supplies for both surface water and groundwater are available during drought of record conditions. *[Title 31 Texas Administrative Code (TAC) §357.7(a)(3)]*
7. Page 3-67, Chambers County: The Lower Neches Valley Authority's irrigation allocation of 33,000 acft/yr does not match the authority's allocation of 38,000 acft/yr presented in Table 3H.1. Please revise as appropriate throughout the plan.
8. Page 3-73, Table 3-14: Various 2060 supplies presented in Table 3-14 do not match the associated 2060 supplies presented in Table 3I (e.g. Ft. Bend Co WCID 1: 5,364 acft/yr vs.

1,000 acft/yr; NRG: 94,220 acft/yr vs. 70,711 acft/yr; and City of Huntsville: 22,403 acft/yr vs. 3,000 acft/yr). Please revise as appropriate throughout the plan.

9. Page 3-73: Please explain how the information in Table 3-14 was developed in sufficient detail to reproduce it based on the related supply information presented in Appendix 3I.
10. Page 3-75, Table 3-15: The surface water supplies of 1,595 acft/yr for Chambers County Municipal Trinity Basin do not match the supply volume of 247 acft/yr presented for Chambers County Municipal Trinity Basin in Table 3H. Please revise as appropriate throughout the plan.
11. Page 3-75: Please explain how the information in Table 3-15 was developed in sufficient detail to reproduce it from the water supply information presented in Appendix 3H.

Chapter 4

12. Please describe how consideration of emergency transfers of surface water was considered in the plan. [*31 TAC §357.5(i)*]
13. Please include a discussion of how information from water loss audits of water users in the region was considered in the development of water management strategies in the final plan. [*31 TAC §357.7(a)(7)(A)(iv)*]
14. Please present wholesale water provider needs by categories of water use, county, and river basin. [*31 TAC §357.7(a)(4)(B)*]
15. Page 4-1, 3rd paragraph: The total supplies for the region in 2010 of 3,554,001 acft/yr and 2060 of 3,415,361 acft/yr do not match the total supplies presented in Table 3-12 of 3,537,953 acft/yr in 2010 and 3,411,215 acft/yr in 2060. Please revise as appropriate throughout the plan.
16. Pages 4-16 through 4-18, Tables 4-4 and 4-5: The tables of recommended and alternative water management strategies do not present decadal supply volumes. Please include recommended and alternative water management strategy water supply volumes, by decade, and capital costs. [*Contract Exhibit "C", Section 11.1*]
17. Page 4-16, Table 4-4: Some project volumes, starting decades, and capital costs in Table 4-4 are not reproducible from the information contained in Appendix 4B (e.g. 21,700 acft/yr project volume for Missouri City Groundwater Reduction Plan; \$757,436 capital cost for Irrigation Conservation). Please revise as appropriate throughout the plan.
18. Page 4-16, Table 4-4; Appendices 4A and 4B: In the form that the water management strategy information is presented in the plan, it is unclear how to determine what water management strategy water supply volumes are allocated to specific individual water user groups. Please include a table or reference to identify which water user groups are associated with each wholesale water provider water management strategy (e.g. Millican Reservoir, Allens Creek Reservoir).

19. Page 4-16, Table 4-4: In the form that the water management strategy information is presented, it is unclear how to differentiate the 'Expanded Current Contracts' from the 'New Contracts' as it relates to Appendix 4B information. Please clarify the components of the various 'contract' water management strategies, for example, by including Technical Memoranda for each type of contractual water management strategy in Appendix 4B.
20. Page 4-18, Table 4-5: The 36,000 acft/yr volume for the Freeport Desalination water management strategy does not match the 33,600 acft/yr volume in the associated Technical Memorandum 4B40. Please revise as appropriate throughout the plan.
21. Page 4-18, Table 4-5: The Montgomery Municipal Utility District 8/9 Desalination alternative water management strategy capital costs do not appear to have been evaluated. Alternative water management strategies must be evaluated using the same criteria as recommended water management strategies. Please revise as appropriate throughout the plan. [*Contract Exhibit "C" Section 4.3*]

Appendix 4A

22. Page 2 of Table 4A-3: The column titled "Identification of Water Quality Problems" is populated with a placeholder comment which has not been completed for each water management strategy listed. Please revise as appropriate throughout the plan.
23. Pages 1-3 of Table 4A-4: The Brazoria, Chambers, Fort Bend, Galveston, Harris, and Montgomery County water management strategy water supply volumes for strategies titled "Contract WMS" (composed of "Contract Expansions" and/or "New Contract from Existing Supply") and "Reallocate Existing Supply" are not reproducible from the information provided in Table 4A-5 and Appendix 4B. Please include an explanation of how the information in Table 4A-4 was developed and, if necessary, revise the plan tables as appropriate.
24. Page 2 of Table 4A-4: The irrigation conservation volume in Fort Bend County of 5,197 acft/yr in all decades does not match the Fort Bend County conservation volume of 5,198 acft/yr in Table 4B2. Please revise as appropriate throughout the plan.
25. Page 3 of Table 4A-4: The irrigation conservation volume in Liberty County of 20,876 acft/yr does not match the Liberty County conservation volume of 20,877 acft/yr in Table 4B2. Please revise as appropriate throughout the plan.
26. Pages 2-4 of Table 4A-4: The Pecan Grove Groundwater Reduction Plan (GRP) (Technical Memorandum 4B13), Richmond and Rosenberg GRP (Technical Memorandum 4B14), Transmission to Central Harris County Regional Water Authority (Technical Memorandum 4B17), Harris County Municipal Utility District 50 Water Treatment Plant (Technical Memorandum 4B20), Luce Bayou Inner Basin Transfer (Technical Memorandum 4B21), Pearland Water Treatment Plant (Technical Memorandum 4B24), City of Houston Wastewater Reclamation for Municipal and Industrial Use (Technical Memorandum 4B31),

Houston Bayous Permit (Technical Memorandum 4B37), Brazos Saltwater Barrier (Technical Memorandum 4B39), Huntsville Water Treatment Plant (Technical Memorandum 4B41), and Fort Bend WCID 2 (Technical Memorandum 4B44) are not represented in Table 4A-4. Please clarify and revise as appropriate throughout the plan.

27. Page 3 of Table 4A-4: The 2050 water volume for the San Jacinto River Authority Water Resources Assessment Plan water management strategy of 53,702 acft/yr does not match the 100,000 acft/yr volume in Technical Memorandum 4B15. Please revise as appropriate throughout the plan.
28. Page 2 of Table 4A-4: The 2020 water volume for the Sugar Land Groundwater Reduction Plan water management strategy of 488 acft/yr does not match the 24,640 acft/yr volume in Technical Memorandum 4B16. Please revise as appropriate throughout the plan.
29. Pages 1-4 of Table 4A-4 and Technical Memorandum 4B3: The volumes of water associated with individual water user groups are not presented for water conservation management strategies. Please present the volumes of water associated with conservation water management strategies for each water user group (e.g. in tabular form).

Appendix 4B

30. Technical Memorandum 4B4: The capital cost for the San Jacinto River Authority/Trinity River Authority Contract Agreement water management strategy (\$302,781,600) does not match what is presented in Table 4C-1 (\$302,781,597). Please revise as appropriate throughout the plan.
31. Technical Memorandum 4B27: Gulf Coast Water Authority Off-Channel Reservoir water management evaluation does not indicate that environmental flows were considered and does not mention the use of planning consensus-criteria. Please describe how this water management strategy was evaluated regarding environmental criteria. *[31 TAC §357.7(a)(8)(A)(ii)]*
32. Technical Memoranda 4B33, 43, 45: The North Harris County Regional Water Authority Reuse water management strategy (4B33), East Texas Water Transfer water management strategy (4B43), and Little River Off-Channel Reservoir water management strategy (4B45) are not presented in Table 4C-1. Please revise as appropriate.
33. Technical Memoranda 4B30 through 4B35: Please present the volume of associated wastewater flows that would be the water source water reuse strategies evaluated as one of the feasible alternatives for future water supply. *[31 TAC §357.7(a)(8)(A)(i)]*

Appendix 4C

34. Page 4C-1: Based on the description in Table 4C-1, capital costs don't appear to include engineering, legal costs, and contingencies. Please clarify whether costs presented in Table 4C-1 include engineering, legal costs, and contingencies. *[Contract Exhibit "C" Section 4.1]*

35. Table 4C-2: Some aggregated water management strategy supplies and/or associated costs (e.g. 'Water User Group Contracts' and 'Fort Bend MUD #25 Groundwater Reduction Plan', 'City of Fulshear Reuse') are not reproducible from Table 4C-2 and/or are not clearly associated with each water user group. Please revise plan as appropriate.

Chapter 6

36. Page 6-9: Please include a summary table of the individual and overall conservation survey results referenced in Section 6.1.7.1. [*Contract Exhibit "A" Task 6.9*]
37. (*Attachment B*) Comments on the online planning database (i.e. DB12) are herein being provided in spreadsheet format. These Level 1 comments are based on a direct comparison of the online planning database against the Initially Prepared Regional Water Plan document as submitted. The table only includes numbers that do not reconcile between the plan (left side of spreadsheet) and online database (right side of spreadsheet). An electronic version of this spreadsheet will be provided upon request.

LEVEL 2. Comments and suggestions that might be considered to clarify or enhance the plan.

General Comments

1. Please consider including totals in all tables of the plan, where appropriate.

Chapter 1

2. Please consider including a map in Chapter 1 showing areas with water quality problems in the region.
3. Please consider including a map in Chapter 1 of the Groundwater Conservation Districts in the region.
4. Page 1-3, Table 1-1: Please consider also including Scott Hall as the current representative for Lower Neches Valley Authority.

Chapter 3

5. Page 3-25, Table 3-5: Table shows the original storage capacity for Possum Kingdom as 504,100 acft. The engineering plate for Possum Kingdom in TWDB Report 126 shows the capacity as 570,243 acft. Please consider reconciling the information or providing clarification of how the 504,100 acft storage capacity was determined.
6. Page 3-75, Table 3-15: Please consider providing equivalent water supply summary tables for groundwater and reuse supplies.

Chapter 4

7. Appendix 4A, Table 4A-2: Please consider indicating in the table which water management strategies are selected as 'recommended' in the 2011 plan.
8. Appendix 4B, Technical Memorandum 4B22, Supply Quantity Section: Please consider indentifying the water management strategy that supplies the water volume conveyed by the North Fort Bend Water Authority Groundwater Reduction Plan/Transmission/Distribution water management strategy.
9. Appendix 4C: Please consider including a column of water management strategy names and volumes in Table 4C-2 to facilitate associating costs with projects.

Chapter 5

10. Reservoir water management strategies in the plan discussed reduced sediment loads in the water that is being released from the reservoirs. Nutrient loads may also be reduced along with sediment loads, potentially causing negative impacts which extend beyond the identified sediment impacts. Please consider including a discussion of the potential impact of reduced nutrient loads on habitats downstream from recommended projects. *[31 TAC §357.7(a)(8)(A)(ii)]*

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

REGION H

Non-matching numbers

IPP document reference:

Online Planning Database (DB12) number

Item	Page number	Table number	non-decadal number	2010	2020	2030	2040	2050	2060	non-decadal number	2010	2020	2030	2040	2050	2060
H Regional 2060 Demands	ES-4	Fig ES-1	5,383,132								5,387,370					
H Total Water Supply for Region	ES-5	1st sentence	> 3.53 million acft								4,655,617		4,544,303			3,254,666
H Houston Indirect Reuse	ES-8		3,557,593			3,343,645										128,801
H NHCRAWA Reuse	ES-8															16,900
H Population projections for Fort Bend County	ES-19	ES-4	545,883	715,275							550,121	719,737				
H Population projections, Region H Total	ES-19	ES-4	6,015,840	6,990,980							6,020,078	6,995,442				
H San Jacinto Co. Total Water Demand	ES-22	ES-5	5,024	6,051	6,125	6,158	6,121				4,182	4,648	4,999	5,158	5,247	5,296
H Waller Co. Total Water Demand	ES-22	ES-5	30,727	32,004	33,830	35,849	38,221				39,799	31,101	32,578	34,704	36,232	38,595
H Region H Total Water Demand	ES-22	ES-5	2,376,882	2,609,499	2,816,160	3,036,038	3,277,038	3,525,117			2,376,414	2,600,348	2,815,482	3,035,445	3,276,501	3,524,666
H Fort Bend Shortages	ES-27	ES-8	-159	-11,423							-86	-11,410				
H Recommended WMS by Co. Brazoria Livestock	ES-27	ES-8	27									40				
H Recommended WMS by Co. Alton Creek	ES-27	ES-8	64,325		83,443	85,069	85,139				69,755	69,755	69,755	69,755	69,755	69,755
H San Jacinto County Shortages	ES-29	ES-8	-538	-705	-803	-879					-533	-695	-793	-869		
H Waller County Shortages	ES-30	ES-8	-1,963	-1,963	-2,374	-2,843					-1,655	-1,973	-2,384	-2,853		
H Regional projections NFRWA	ES-30	ES-8	-141	-1,985	-2,999	-4,638	-8,236	-12,414			-82	-1,926	-2,940	-4,579	-8,177	-12,355
H Regional Municipal Demand	2-8 and 2-7	2-2 and 2-4	141,484	240,176	320,125	389,756	447,531	499,571			140,385	238,775	318,353	387,602	444,877	496,345
H Regional Mining Demand	2-17		1,043,706								1,042,864					
H Regional Livestock Demand	2-17							69,390								69,457
H Municipal Demands San Jacinto County	2-17		11,921	11,921	11,921	11,921	11,921	11,921			12,288	12,288	12,288	12,288	12,288	12,288
H Harris Co-San Jac Basin Mum WUG SW supplies	2-65	2-7	4,591	5,016	5,087	5,118	5,076				2,152	3,153	3,616	3,964	4,120	4,207
H Liberty Co-Trinity Basin Mum WUG SW supplies	3-76	3-15	3-76	71	72	73	77				na	na	na	na	na	543,310
H Polk Co-Trinity Basin Mum WUG SW supplies	3-76	3-15	3-76	72	72	73	77				na	na	na	na	na	na
H San Jacinto Co-Trinity Basin Mum WUG SW supply	3-76	3-15	6,236	6,225	6,221	6,230	6,237				5,625	5,628	5,632	5,633	5,639	5,640
H Walker Co-Trinity Basin Mum WUG SW supply	3-76	3-15	999	999	1,003	1,002	998				1,004	1,031	1,044	1,031	1,032	1,008
H Brazoria Co Manufacturing Supply - SAN BERNARD RIVER	3-76	3-15	5,288	5,240	5,167	5,083					5,283	5,157	5,073			
H RUM-OF RIVER																
H Harris Co- City of Houston - LIVINGSTON WALLISVILLE	Appendix 3H	3H-1	12,019	12,019	12,019	12,019	12,019	12,019			11,354	11,422	11,422	11,422	11,422	11,422
H SYSTEM supply	Appendix 3H	3H-1						452,603								
H Harris Co. City of Waller - Gulf Coast supply	Appendix 3H	3H-1	83	46	38	38	38	38			112	75	67	67	67	67
H SERVICE COMPANY - Livingston Wallisville System supply	Appendix 3H	3H-1	72	71	72	73	77				na	na	na	na	na	na
H MONTGOMERY Co. CONROE INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	93	4,149	3,754
H MONTGOMERY Co. COUNTY-OTHER INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	1,030	3,291
H MONTGOMERY Co. CUT AND SHOOT INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	1	63	56
H MONTGOMERY Co. EAST PLANTATION UD INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	4	173	163
H MONTGOMERY Co. H.L.W.SUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	499	447
H MONTGOMERY Co. MONTGOMERY INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	0	0
H MONTGOMERY Co. MONTGOMERY COUNTY MUD #18	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	0	0
H MONTGOMERY Co. MONTGOMERY COUNTY MUD #19	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	882	869
H MONTGOMERY Co. MONTGOMERY COUNTY MUD #8	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	2	81	58
H MONTGOMERY Co. MONTGOMERY COUNTY MUD #9	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	159	113
H MONTGOMERY Co. MONTGOMERY COUNTY UD #3 INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	172	126
H MONTGOMERY Co. MONTGOMERY COUNTY UD #4 INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	114	95
H REUSE SIRA Supply	Appendix 3H	3H-1	na	na	na	na	na	na			0	0	0	0	171	124

REGION H

IPP document reference:

IPP document number

Non-matching numbers

Online Planning Database (DB12) number

Region IPP Item	Page number	Table number	non-decimal number	2010	2020	2030	2040	2050	2060	non-decimal number	2010	2020	2030	2040	2050	2060
MONTGOMERY Co. OAK RIDGE NORTH INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	5	193	169	154
MONTGOMERY Co. PANORAMA VILLAGE INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	4	135	102	80
MONTGOMERY Co. BAFFORD ROAD MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	11	409	295	221
MONTGOMERY Co. RIVER PLANTATION MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	4	145	104	78
MONTGOMERY Co. SHENANDOAH INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	12	493	419	370
MONTGOMERY Co. SOUTHERN MONTGOMERY COUNTY MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	12	450	328	251
MONTGOMERY Co. SPRING CREEK UD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	4	186	174	166
MONTGOMERY Co. STANLEY LAKE MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	0	162	116	87
MONTGOMERY Co. THE WOODLANDS INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	275	5,093	3,652	2,729
MONTGOMERY Co. WILDS INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	0	0	4	185	169	159
POLK Co. COUNTY-OTHER LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	20	20	20	20	20	20	20	na	na	na	na	na	na	na
POLK Co. LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	591	577	569	568	571	577	577	na	na	na	na	na	na	na
SPAN JACINTO Co. IRRIGATION GULF COAST AQUIFER Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	532	532	532	532	532	532
SPAN JACINTO Co. RIVERSIDE WSC LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM Supply	Appendix 3H	3H.1	13	13	13	13	13	13	13	13	13	13	5	10	10	10
WALKER Co. MINING GULF COAST AQUIFER Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	13	13	13	13	0	0
WALKER Co. NEW WAVERLY GULF COAST AQUIFER Supply	Appendix 3H	3H.1	na	na	na	na	na	na	na	na	na	na	na	13	13	13
WALKER Co. RIVERSIDE WSC GULF COAST AQUIFER Supply	Appendix 3H	3H.1	310	310	310	310	310	310	310	310	310	310	218	218	218	218
WALKER Co. RIVERSIDE WSC LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	20	20	20	20	20	20	20	20	15	15	10	10	10	10
WALKER Co. TRINITY RURAL WSC LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	96	96	96	96	96	96	96	96	na	na	na	na	na	na
WALKER Co. WALKER COUNTY RURAL WSC GULF COAST AQUIFER Supply	Appendix 3H	3H.1	477	477	477	477	477	477	477	477	na	na	na	na	na	na
WALKER Co. WALKER COUNTY RURAL WSC SPARTA AQUIFER Supply	Appendix 3H	3H.1	776	776	776	776	776	776	776	776	na	na	na	na	na	na
WALKER Co. BROOKSHIRE GULF COAST AQUIFER Supply	Appendix 3H	3H.1	673	673	673	673	673	673	673	673	na	na	na	na	na	na
WALKER Co. COUNTY-OTHER GULF COAST AQUIFER Supply	Appendix 3H	3H.1	1,526	1,526	1,526	1,526	1,526	1,526	1,526	1,526	na	na	na	na	na	na
WALKER Co. HERMISTEAD GULF COAST AQUIFER Supply	Appendix 3H	3H.1	1,457	1,457	1,457	1,457	1,457	1,457	1,457	1,457	na	na	na	na	na	na
WALKER Co. IRRIGATION BRAZOS RIVER ALLUVIUM AQUIFER Supply	Appendix 3H	3H.1	4,825	4,825	4,825	4,825	4,825	4,825	4,825	4,825	na	na	na	na	na	na
WALKER Co. IRRIGATION GULF COAST AQUIFER Supply	Appendix 3H	3H.1	16,561	16,561	16,561	16,561	16,561	16,561	16,561	16,561	na	na	na	na	na	na
WALKER Co. KATY GULF COAST AQUIFER Supply	Appendix 3H	3H.1	110	110	110	110	110	110	110	110	na	na	na	na	na	na
WALKER Co. LIVESTOCK GULF COAST AQUIFER Supply	Appendix 3H	3H.1	595	595	595	595	595	595	595	595	na	na	na	na	na	na
WALKER Co. LIVESTOCK LOCAL SUPPLY Supply	Appendix 3H	3H.1	344	344	344	344	344	344	344	344	na	na	na	na	na	na
WALKER Co. MANUFACTURING GULF COAST AQUIFER Supply	Appendix 3H	3H.1	89	89	89	89	89	89	89	89	na	na	na	na	na	na
WALKER Co. MINING GULF COAST AQUIFER Supply	Appendix 3H	3H.1	80	80	80	80	80	80	80	80	na	na	na	na	na	na
WALKER Co. PINE ISLAND GULF COAST AQUIFER Supply	Appendix 3H	3H.1	117	117	117	117	117	117	117	117	na	na	na	na	na	na
WALKER Co. PEARIE VIEW GULF COAST AQUIFER Supply	Appendix 3H	3H.1	1,253	1,253	1,253	1,253	1,253	1,253	1,253	1,253	na	na	na	na	na	na
WALKER Co. WALKER GULF COAST AQUIFER Supply	Appendix 3H	3H.1	416	416	416	416	416	416	416	416	na	na	na	na	na	na
BRASS RIVER Authority SW Supply	Appendix 3I	3I	19,501	19,501	19,501	19,501	19,501	19,501	19,501	19,501	154,981	154,981	154,981	154,981	154,981	154,981

REGION H

Item	IPP document reference:		Online Planning Database (DB12) number																
	Page number	Table number	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100	2010	2020	2030	2040	2050	2060	
			non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	non-decadal number	
H City of Galveston Gulf Coast GW Supply	Appendix 31	31	1,640	1,590	1,521	1,552	1,599	1,539	1,599	1,539	1,599	1,539	na	na	na	na	na	na	na
H City of Houston Gulf Coast GW Supply	Appendix 31	31	86,431	83,422	83,818	83,818	83,818	83,818	83,818	83,818	83,818	83,818	88,476	88,476	88,476	88,476	88,476	88,476	na
H Fort Bend County WC/D2 Gulf Coast GW Supply	Appendix 31	31	2,075	1,431	na	799	796	796	796	796	796	796	na	na	na	na	na	na	na
H Fort Bend County WC/D3 Brazos River ROR	Appendix 31	31	na	na	na	na	na	na	na	na	na	na	6,620	6,593	6,590	6,587	6,586	6,586	na
H GCWA Brazos River ROR	Appendix 31	31	128,602	128,575	128,572	128,569	128,567	128,567	128,567	128,567	128,567	128,567	179,704	179,774	179,804	179,831	179,831	179,831	na
H Missouri City Gulf Coast Aquifer Supply	Appendix 31	31	15,862	13,713	9,340	9,340	9,340	9,340	9,340	9,340	9,340	9,340	na	na	na	na	na	na	na
H NCWA Gulf Coast Aquifer Supply	Appendix 31	31	6,682	6,682	6,682	6,682	6,682	6,682	6,682	6,682	6,682	6,682	na	na	na	na	na	na	na
H NCWA Livingston-Wallisville System Supply	Appendix 31	31	na	na	na	na	na	na	na	na	na	na	6,682	6,682	6,682	6,682	6,682	6,682	na
H NRG - BRA Mainstem System Supply	Appendix 31	31	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	83,000	8,500	8,500	8,500	8,500	8,500	8,500	8,500
H Richmond-Rosenberg Gulf Coast Aquifer Supply	Appendix 31	31	7,408	6,111	4,279	4,279	4,279	4,279	4,279	4,279	4,279	4,279	38,243	38,243	38,243	38,243	38,243	38,243	na
H San Jacinto BA San Jacinto River ROR Supply	Appendix 31	31	37,347	37,347	37,347	37,347	37,347	37,347	37,347	37,347	37,347	37,347	38,243	38,243	38,243	38,243	38,243	38,243	38,243
H Sugar Land Gulf Coast Aquifer Supply	Appendix 31	31	60,419	60,412	60,412	60,415	60,420	60,424	60,424	60,424	60,424	60,424	63,419	63,412	63,415	63,420	63,420	63,420	63,424
H Trinity RA Livingston-Wallisville System Supply	Appendix 31	31	40,711	40,711	40,711	40,711	40,711	40,711	40,711	40,711	40,711	40,711	12,000	12,000	12,000	12,000	12,000	12,000	12,000
H LYONDELL-CITGO REFINING LP Livingston-Wallisville Lake/Reservoir System	Appendix 31	31	na	na	na	na	na	na	na	na	na	na	16,733	16,733	16,733	16,733	16,733	16,733	16,733
H Freeport Desalination WMS - (designated)																			
H Montgomery MUD 8 and 9 Brackish Desal WMS - (designation)																			
H WMS name																			
H WMS name																			
H WMS name																			
H Municipal Needs Fort Bend County	4-3	4-1	159	10,296															
H Municipal Needs San Jacinto County	4-4	4-1	530	693	788	859	859	859	859	859	859	859	86	10,283	525	683	778	849	849
H Municipal Needs Walker County	4-4	4-1	150	186	220	272	272	272	272	272	272	272	0	474	155	196	230	282	282
H Irrigation Needs Walker County	4-5	4-1	59	533	59	72	1,651	3,457	3,457	3,457	3,457	3,457	0	0	0	133	1,592	3,398	3,398
H Total Regional Needs	4-5	4-1	291,022	524,291	698,962	833,588	1,005,033	1,236,591	1,236,591	1,236,591	1,236,591	1,236,591	290,890	524,219	698,903	833,529	1,004,974	1,236,532	1,236,532
H Walker Co Expanded GW WMS supply	4-14 & App 4A		69	69	816	816	816	816	816	816	816	816							
H Walker Co Municipal Conservation	4-14 & App 4A		61	61	61	61	61	61	61	61	61	61							
H Region H Municipal Conservation Total	4-14		65,319	65,319	65,319	65,319	65,319	65,319	65,319	65,319	65,319	65,319							
H Region H Expanded GW Total	4-14		40,221	40,221	40,221	40,221	40,221	40,221	40,221	40,221	40,221	40,221							
H Irrigation Conservation - Volume	4-16	Tab 4.4/ES-7	72,900																
H Municipal Conservation - Volume	4-16	Tab 4.4/ES-7	105,500																
H TBA to SJRA Transfer Volume	4-17	4-4	76,500																
H TBA to Houston Contract Volume	4-17	4-4	123,500																
H Expanded Use of GW project volume	4-16	4-4	91,400																
H Interim GW project volume	4-16	4-4	45,500																
H CHCRWA GRP Volume	4-17	4-4	4,800																
H Fort Bend WC/D 2 GRP - Project Volume	4-17	4-4	5,800																
H Fort Bend MUD 25 GRP or Reuse WMS volume	4-18	4-4	600																
H NFBWA GRP Supply Volume	4-17	4-4	106,400																
H NFBWA Internal Distribution Supply Volume	4-17	4-4	106,400																
H NFBWA Internal Distribution Volumes	4-17	4-4	21,700																
H NHCWRA Internal Distribution Volumes	4-17	4-4	111,700																
H NHCWRA Transmission Line Supply Volumes	4-17	4-4	111,700																
H Pecan Grove GRP Volume	4-17	4-4	111,700																
H Richmond-Rosenberg GRP Volume	4-17	4-4	1,700																
H SJRA WRAP Volume	4-17	4-4	N/A																
H Sugarland GRP Volume	4-17	4-4	129,100																
H WHCRWA GRP project volume	4-17	Tab 4.4/ES-7	9,808																
H WHCRWA Internal Distribution Volume	4-17	4-4	78,800																
H CHCRWA Internal Distribution Volume	4-17	4-4	4,800																
H Harris County MUD 50 WTP volume	4-17	4-4	4,800																
H Luce Bayou Transfer volume	4-17	4-4	630																
H NFBWA Shared Transmission Line volume	4-17	Tab 4.4/ES-7	450,000																
H Prandorf S/WTP volume	4-17	4-4	71,900																
H WHCRWA Internal Distribution & WHCRWA Transmission Line Volume	4-17	4-4	13,400																
H Millican Reservoir volume	4-17	4-4	78,800																
H Houston Indirect Reuse volume	4-18	4-4	128,800																

Comments on Reservoir Issues

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Paul Brannon
2103 Truman Street
Bryan, Texas 77801

June 1, 2010

Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

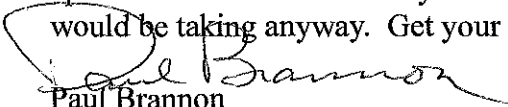
Greetings -

It is absurd that you are even considering designating the Navasota River as a unique site for a reservoir. You continually state that you are just a planning board. In my opinion, you fail miserably in the planning stage.

To plan, one must gather all information available to make an informed recommendation. It seems that you lifted the Millican Reservoir plans from past Brazos G Water Planning Districts' historical documents. What you did not do was look at all of the additional information which negated the designation of the Navasota River as a Unique Reservoir site. Environmental studies, sociological studies, and feasibility studies were apparently ignored in your so called "plan." The "plan" suggests that property be compensated at values from years ago which do not reflect the current prices. The designation of a "Unique Reservoir site" would devastate local economies and ruin peoples' lives. This is all because of a very poor job of planning by the Region H Water Planning Board.

Given the historical significance of the Navasota River, the ecological significance of the Navasota River, and the sociological significance of the Navasota River, your recommendation should have been made for a historical river.

However, the fact that there is no Conservation Board in Region H nullifies the capability for you to "plan" to take water from anyone else. The greater Houston area probably wastes more water than it would be taking anyway. Get your own house in order before you come to take what is not yours.


Paul Brannon
Bryan, Texas
979-422-2252

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



BRAZOS COUNTY

BRYAN, TEXAS

Randy Sims

Office of the County Judge
200 South Texas Ave., suite 332
Bryan, TX 77803
Phone: (979) 361-4102
Fax: (979) 361-4503
E-mail: rsims@co.brazos.tx.us

18 May 2010

Honorable Judge Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

Dear Judge Evans,

Brazos County opposes the construction of the Millican Reservoir (Panther Creek site) and respectfully requests that you remove the request for Unique Reservoir Site designation from your 2011 Regional Water Plan. The effects of this designation, and the potential effects of constructing this reservoir, are very serious and would impact a wide array of Brazos County citizens. These impacts have not been analyzed nor discussed with the various stakeholders, and your plan should be revised until such time that adequate analysis and planning have occurred.

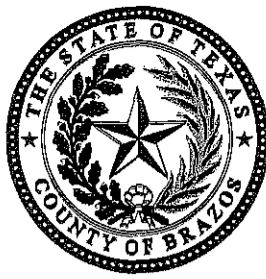
A response to this letter is requested and I appreciate your careful consideration. If you have any questions, please contact me at (979) 361-4102. I look forward to hearing from you.

Sincerely,

Randy Sims
County Judge

RS/dll
Enclosure

xc: J. Kevin Ward, Texas Water Development Board
Senator Steve Ogden
Representative Fred Brown
Mayor Ben White, City of College Station
David Watkins, Bryan City Manager
Betty Shiflett, County Judge, Grimes County
Brazos G Regional Water Planning
Brazos Groundwater Conservation District
Texas Commission on Environmental Quality
Guardians of the Navasota River



BRAZOS COUNTY

BRYAN, TEXAS

RESOLUTION

WHEREAS, Brazos County recognizes the importance of the need to plan for future water requirements to meet the projected growth within Region H and throughout the State of Texas;

WHEREAS, Brazos County recognizes the many factors and challenges involved in developing a comprehensive water plan to provide for future water requirements;

WHEREAS, Brazos County supports many of the recommendations contained in the proposed 2011 Region H Water Plan that if implemented will materially increase the future water supply in the Region;

WHEREAS, the proposed Region H Water Plan includes the proposed Millican Reservoir and recommends it's designation as a unique reservoir site by the Texas Legislature;

WHEREAS, the designation of the Millican Reservoir as a unique reservoir site most likely will have a negative impact on land values, farming/ranching operations, wild life habitat/management, minerals, public facilities, state and county highways and roads, and the tax base of Brazos and surrounding counties;

WHEREAS, the location of the proposed reservoir dam has not been identified, and no in-depth study has been conducted to assess the total impact the designation/construction of the Millican Reservoir would inflict on the affected area;

WHEREAS, the proposed Millican Reservoir would have no positive economic value to Brazos County as under the proposed plan it would act as a holding reservoir to supply projected water requirements for the Gulf Coast Area and not suitable for recreational use;

NOW THEREFORE, BE IT RESOLVED by the Commissioners Court of Brazos County, Texas that it is the opinion of this Court that sufficient information has not been developed to determine the total impact the designation of the proposed Millican Reservoir as a unique site will have on the affected areas; and

BE IT FURTHER RESOLVED THAT by adoption of this resolution the Commissioners Court of Brazos County, Texas opposes the inclusion of a recommendation in the Region H Water Plan that the proposed Millican Reservoir be designated as a unique reservoir site by the Texas Legislature, and asks for that recommendation to be removed from the Region H Water Plan and replaced with an alternate water source recommendation.

ADOPTED AND PASSED THIS 27th DAY OF April, 2010.

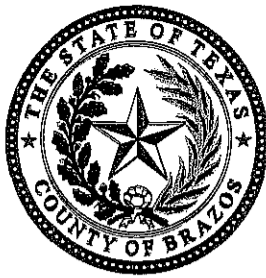
Randy Sims
County Judge

Commissioner Lloyd Wassermann
Precinct 1

Commissioner Duane Peters
Precinct 2

Commissioner Kenny Mallard
Precinct 3

Commissioner Irma Cauley
Precinct 4



BRAZOS COUNTY

BRYAN, TEXAS

RESOLUTION

WHEREAS, Brazos County recognizes the importance of the need to plan for future water requirements to meet the projected growth within Region G and throughout the State of Texas;

WHEREAS, Brazos County recognizes the many factors and challenges involved in developing a comprehensive water plan to provide for future water requirements;

WHEREAS, Brazos County supports many of the recommendations contained in the proposed 2011 Region G Water Plan that if implemented will materially increase the future water supply in the Region;

WHEREAS, the proposed Region G Water Plan includes the proposed Millican Reservoir and recommends it's designation as a unique reservoir site by the Texas Legislature;

WHEREAS, the designation of the Millican Reservoir as a unique reservoir site most likely will have a negative impact on land values, farming/ranching operations, wild life habitat/management, minerals, public facilities, state and county highways and roads, and the tax base of Brazos and surrounding counties;

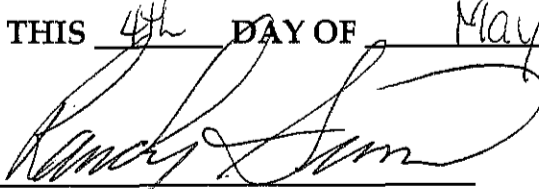
WHEREAS, the location of the proposed reservoir dam has not been identified, and no in-depth study has been conducted to assess the total impact the designation/construction of the Millican Reservoir would inflict on the affected area;

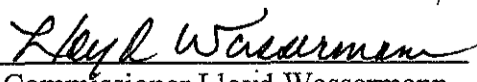
WHEREAS, the proposed Millican Reservoir would have no positive economic value to Brazos County as under the proposed plan it would act as a holding reservoir to supply projected water requirements for the Gulf Coast Area and not suitable for recreational use;

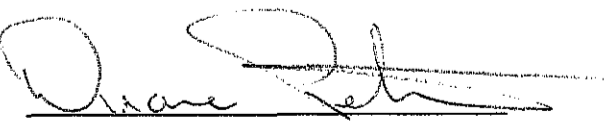
NOW THEREFORE, BE IT RESOLVED by the Commissioners Court of Brazos County, Texas that it is the opinion of this Court that sufficient information has not been developed to determine the total impact of the inclusion of the proposed Millican Reservoir in the Region G Water Plan will have on the affected areas; and

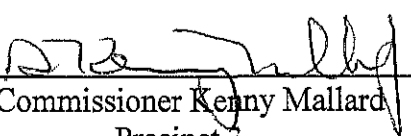
BE IT FURTHER RESOLVED THAT by adoption of this resolution the Commissioners Court of Brazos County, Texas opposes the inclusion of the proposed Millican Reservoir in the Region G Water Plan and asks for that to be replaced with an alternate water source recommendation.

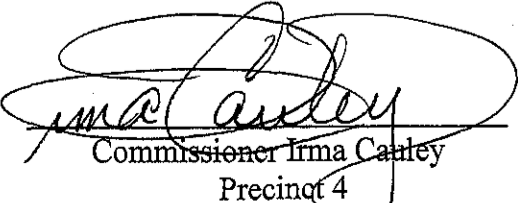
ADOPTED AND PASSED THIS 4th DAY OF May, 2010.


Randy Sims
County Judge


Commissioner Lloyd Wassermann
Precinct 1


Commissioner Duane Peters
Precinct 2


Commissioner Kenny Mallard
Precinct 3


Commissioner Irma Cauley
Precinct 4



FRED BROWN
STATE REPRESENTATIVE
DISTRICT 14

STATE CAPITOL
P.O. BOX 2910
AUSTIN, TEXAS 78768-2910
512/463-0698
FAX: 512/463-5109
CELL: 979/492-6073
CAPITOL OFFICE ROOM
GS.06

April 16, 2010

DISTRICT
1920 WEST VILLA MARIA ROAD
SUITE 303
BRYAN, TEXAS 77807
979/822-9797
FAX: 979/822-7979

Mr. Jace Houston
P.O. Box 329
Conroe, Texas 77305

Dear Mr. Houston:

Please accept this letter of opposition to the proposed damming of the Navasota River. After speaking with my constituents on this issue, I feel it is a land grab that provides no benefits whatsoever to the Bryan/College Station area. As you know the proposed plan would take 71,000 acres from Madison, Grimes, and Brazos counties. Region H has also proposed designating the lands required for use as "unique reservoir sites", meaning no future growth or development of the Bryan/College Station area can take place in these lands. The Bryan/College Station area is one of the fastest growing metropolitan areas within the State of Texas, and restricting the growth of this area will not only hurt the landowners, but it will hurt future businesses interested in moving into the area. With our economy in its current state, tampering with land in areas that may soon be needed to house growth and development is simply unacceptable.

Also, by designating these lands "unique", the lands within the affected areas are rendered useless. This essentially craters land values, as no one wants to buy land that is not usable. In addition to the economic effects that would be felt by the residents of the impacted areas, the wildlife that would be lost could never be replaced. The Navasota River Valley is home to an abundance of wildlife, and the destruction of this natural habitat would result in the loss of many of the plant and animal life that make our area so beautiful. While I understand that the projected increase in the Texas population demands an increase in the future water supply, I must object to the destruction and property intrusion that the proposed plans for the Millican Reservoir will create.

I respectfully request that you take my opinion into consideration. If you have any questions or would like to meet, please feel free to call me at my office, 979-822-9797.

Sincerely,

A handwritten signature in cursive script that reads "Fred Brown".

Fred Brown



BRAZOS VALLEY SOLID WASTE MANAGEMENT AGENCY

May 19, 2010

Honorable Judge Mark Evans
Chair, Region H Water Planning Group
C/O San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Dear Judge Evans:

The Brazos Valley Solid Waste Management Agency opposes plans or construction of the Millican Reservoir (Panther Creek site), which could adversely impact the Twin Oaks Landfill Site.

We respectfully request removing the Unique Reservoir Site designation from the 2011 Regional Water Plan until the effects of this designation and the potential effects of constructing this reservoir are better understood. The potential impact to the Twin Oaks Landfill site is serious and could impact a wide array of citizens, especially the many citizens who will depend on services provided by the new solid waste disposal facility currently under construction in Grimes County. These potential impacts have not been analyzed, nor discussed with the various stakeholders, and your plan should be revised until such time that adequate planning has occurred.

A response to this letter is requested and I certainly appreciate your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read 'J.P. Bienski', is written over a faint, illegible typed name.

Jason P. Bienski
President, Brazos Valley Solid Waste Management Agency, Inc.



CITY OF COLLEGE STATION

Office of the Mayor

April 29, 2010

Honorable Judge Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Certified Mail # 70010360000133173999
Return Receipt Requested

Dear Judge Evans:

The City of College Station opposes the construction of the Millican Reservoir (Panther Creek site) and requests you remove the request for Unique Reservoir Site designation from your 2011 Regional Water Plan. The effects of this designation, and the potential effects of constructing this reservoir, are very serious and would impact a wide array of citizens, especially those residing in the City of College Station and surrounding area. These impacts have not been analyzed, nor discussed with the various stakeholders, and your plan should be revised until such time that adequate planning has occurred.

A response to this letter is requested and certainly appreciate your consideration. If you have any questions, please contact the City's Director of Water Services, Mr. Dave Coleman, at (979)574-6128.

Sincerely,

Ben White
Mayor

cc: J. Kevin Ward, Texas Water Development Board
Senator Steve Ogden
Representative Fred Brown
Randy Sims, Judge Brazos County
David Watkins, City Manager, Bryan
BVSWMA Board
Royce Hickman, Chamber of Commerce
Betty Shiflett, Judge Grimes County
Brazos G Regional Water Planning
Brazos Groundwater Conservation District
Texas Commission on Environmental Quality
Guardians of the Navasota River

P.O. BOX 9960 • 1101 TEXAS AVENUE
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979.764.3541

www.cstx.gov

RECEIVED

JUN 07 2010

TWDB

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

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

June 2, 2010

Dear Mr. Evans and Mr. Ward,

This letter is to be considered as part of the public comment period for the 2011 Region H Water Plan, which specifically calls for the creation of two new reservoirs – the Millican Reservoir (recommended for designation) and Bedias Reservoir (designated).

It is without hesitation that I oppose the creation of these reservoirs based on review of the Region H analysis and reviewing the presentation material given at the three public meetings held recently. There are severe flaws in calculating the financial costs of these projects and they would come at the expense of current landowners who have extensive investment in land activities within these proposed impacted areas.

I question several aspects of the Region H Planning Group estimated water use in the future, particularly a decline of 2 percent for livestock use by 2060. Texas is the largest beef producing state in the union and it puzzles me how we could have less water demand for livestock production, yet have more beef cattle in production to feed more people 50 years from now? Also, a projected decline of 6.7 percent in irrigated water demand is forecasted by 2060 by Region H. I'm not clear as to what data suggests that food and fiber production will require less water, though our yields and needs for water during drought periods (especially the 2009 Texas drought that rivaled the 1950s) escalate considerably.

Further, to take away oil and gas production tax revenues from property within these reservoir project areas would be a death blow to the counties involved, coupled with our current U.S. economic crisis. At least for the next 10 years, Texas will be attempting to recover from its current economic recession of its own, having not yet sought a solution to balance the state budget heading into the 2011 Legislative Session. This begs the question where will the money come from to build these projects? The answer is simply no one has any money.

In Madison County for example, the widening of Texas 21 is of top priority. The two-lane highway is the only one in the state connecting to an interstate without four lanes of traffic. Madison

County does not have enough tax base to provide contribution in right-of-way purchasing. At the current time, the expansion project plan stops at the Brazos-Madison County line. To take more land out of production in Madison County to fulfill a reservoir project would create more hardship on top of what already exists. The county alone has a delinquent property tax rate between 20 percent and 28 percent. To take away a significant amount of land that does generate tax dollars annually for basic county operating expenses and services doesn't make any sense at all.

It is my view these proposed reservoirs are an easy way out to solving future water needs for our region rather than an extensive review of alternatives and science. Anybody can take a map and see that an easy way to harness water would be from the Navasota River. However, there are better alternatives. For example, desalination would be one option to service the water needs of those needing our water to serve a growing Houston population. The Texas Water Resources Institute, for example, is one of several agencies that have cutting-edge research demonstrating that desalinating water from oil field saltwater production as well as the Gulf of Mexico can be a viable option for drinking water. One solution in using desalinated water would be designated use – desalinated water for bathing and outdoor use, while underground water would be used only for human and agricultural consumption only.

In summary, I urge you and your planning committee to go back to the drawing board and develop a workable plan that will be acceptable to all. I also recommend appointing non-elected officials from Brazos, Madison and other counties to serve on these committees so that everyone has a stake in planning and developing future projects.

As it stands, your current plan does more harm than good in solving our future water needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Blair Fannin", with a stylized flourish at the end.

Blair Fannin,
P.O.Box 6051
Bryan, Texas 77805

April 7, 2010

Ladies and Gentlemen:

I write in reference to the so called "Millican Reservoir Project" to which this Public Hearing today is addressed.

My credentials: Former faculty member – University of Texas Medical School at Houston, Former University president, Member – Governor's Select Committee on Public Education, Member – Executive Committee – Governor's Criminal Justice Task Force, Chairman of the Board of Directors – Texas Education Reform Foundation.

I write in vigorous protest to any project which would further erode funding for our Public Schools.

If successful, the plan to place a dam across the Navasota River at Highway 30 (The so called Panther Creek Dam) will do two things to Public Education:

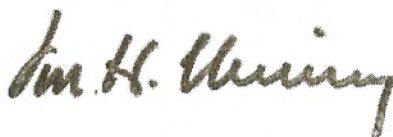
1. Placing this project in "Unique Site Status" will immediately freeze or erode property values within the more than 70,000 acres of the "kill zone." This in turn will effectively freeze *ad valorem* tax rates which in large part, fund our public schools.
2. If and when the dam is built and the reservoir fills – 70,000+ acres will be removed from the tax roles – making the only choice available to our school districts; raising taxes on the high ground to very high and unsustainable levels.

None of this addresses the rapacious abuse of a state and national treasure – the Post Oak Savannah in the Navasota River Bottom. By conservative count there are at least 49 endangered species of plant and animal life within the "kill zone" of this project.

As to raw economics; there are prodigious mineral deposits – in coal, oil and natural gas which will be forever lost. This doesn't even begin to consider the huge economic losses in ranching and agriculture. I know, cows can swim but, they don't swim well.

Finally, and I speak as a native Houstonian, this project is about Houston's water supply. Surely there are more creative ways to solve that problem beginning with de-salinization (read Gulf of Mexico) and draconian conservation measures than drowning our precious world in water that eventually will be flushed through Houston's sewers.

I will do everything in my moral, ethical and legal right and power to help defeat this plan.



Jon H. Fleming, Ph.D.
North Zulch, Texas

Grimes County Sub-Regional Planning Commission (GCSRPC)

P.O. Box 84

Iola, TX 77861

Christina Stover
Chairperson

John Bertling
Secretary

Lovett Boggess
At-Large-Member

May 24, 2010

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

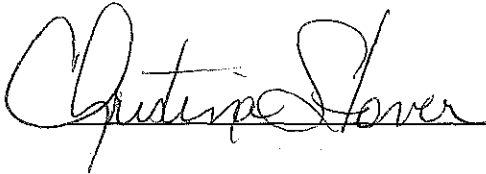
Mr. Evans,

The Grimes County Sub-Regional Planning Commission (GCSRPC), in open meeting, passed a resolution requesting Region H Water Planning Group consider GCSRPC role in actions regarding the proposed Millican Reservoir; and GCSRPC does oppose the unique status classification being given to this project. This Resolution states that we wish at least one (1) public hearing to be held in Grimes County, with at least two (2) weeks notice to the public.

We are deeply concerned that we were not contacted in this matter, as we view our role as working with and consulting with any organizations that take action that would have an impact on Grimes County. We look forward to being a part of your process.

Respectfully yours,

Signed,



Christina Stover, Chairperson



Betty Shiflett

County Judge

P.O. Box 160

Anderson, Texas 77830

(936) 873-3135 Office

(936) 873-5065 Facsimile



May 4, 2010

Honorable Judge Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Dear Judge Evans:

We wish to advise you that the Grimes County Commissioners' Court concurs with the opposition to the construction of the Millican Reservoir (Panther Creek Site) and request the removal of the request for the Panther Creek Site as a Unique Reservoir status.

A copy of our Resolution is attached.

Sincerely,

A handwritten signature in cursive script that reads "Betty Shiflett".

Betty Shiflett

Grimes County Judge

Attachment-Resolution

Copy to: Ben White, Mayor, City of College Station, P.O. Box 9960,
College Station, Texas 77842

RESOLUTION

WHEREAS, Grimes County recognizes the importance of the need to plan for future water requirements to meet the projected growth within Region H and throughout the State of Texas;

WHEREAS, Grimes County recognizes the many factors and challenges involved in developing a comprehensive water plan to provide for future water requirements;

WHEREAS, Grimes County supports many of the recommendations contained in the proposed 2011 Region H Water plan that if implemented will materially increase the future water supply in the Region;

WHEREAS; the proposed Region H Water Plan includes the proposed Millican Reservoir and recommends it's designation as a unique reservoir site by the Texas Legislature;

WHEREAS; the designation of the Millican Reservoir as a unique reservoir site most likely will have a negative impact on land values, farming/ranching operations, wild life habitat/management, minerals, public facilities, State and County highways and roads and the tax base of Grimes and surrounding counties;

WHEREAS; the location of the proposed reservoir dam has not been identified and no in-depth study has been conducted to assess the total impact the designation/construction of Millican Reservoir would inflict on the affected area;

WHEREAS; the proposed Millican Reservoir would have no economic value to Grimes County as under the proposed plan it would act as a holding reservoir to supply projected water requirements for the Gulf Coast Area and not suitable for recreational use;

NOW THEREFORE, BE IT RESOLVED BY THE COMMISSIONERS' COURT OF THE COUNTY OF GRIMES, TEXAS that it is the opinion of the Court that, sufficient information has not been developed to determine the total impact the designation of the proposed Millican Reservoir as a unique site will have on the affected areas and BE IT FURTHER RESOLVED THAT by adoption of this resolution COMMISSIONERS' COURT OF GRIMES COUNTY, TEXAS opposes the inclusion of a recommendation in the Region H Water Plans that the proposed Millican Reservoir be designated as a unique reservoir site by the Texas Legislature and be removed from the Region H Plan and the Brazos G Plan and replaced with an alternative recommendation.

Passed and approved this 27 day of April 2010.

John Bertling
John Bertling, Pct #1

Betty Shiflett
Betty Shiflett
Grimes County Judge

Betty Pendley
Betty Pendley, Pct # 2

Julian Melchor
Julian Melchor, Pct # 3

Pam Finke
Pam Finke, Pct #4

ATTEST:
David Pasket
David Pasket

Guardians of the Navasota River

(281) 703-8205 PO. Box 76 ☆ Kurten, Tx 77862

Mark Dudley, President
Dennis Rother, Vice President
Catherine Cox, Secretary
Angie Howard, Treasurer

June 4, 2010

The Honorable Mark Evans, Chair
Region H Water Planning Group
c/o San Jacinto River Authority
PO Box 329
Conroe, TX 77305-0329

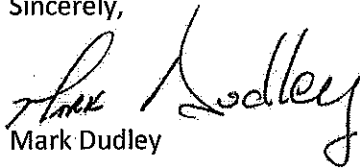
Dear Judge Evans,

We have attached a petition of over 1,600 signatures of concerned citizens requesting that you remove the Millican Reservoir projects from the Region H water development plan for 2011. We have signed this petition to let our desires be known to the Region H, Region G, and the Texas Water Development Board.

We, the citizens of Brazos, Grimes, Robertson, Leon, and other counties of Texas, oppose the construction of the Millican Reservoir (Panther Creek and Bundic sites) and respectfully request that you remove all references to the Millican Reservoir project as a recommended water management strategy or unique reservoir sites from the 2011 Regional Water Plan. The effects of designating Millican a unique reservoir site, and the potential effects of constructing this reservoir, are very serious and would impact the wide array of Texas citizens in Brazos, Grimes, Robertson, Leon, and other counties. These impacts have not been analyzed nor discussed with the various stakeholders. Our research shows that there are other methods that could be less costly and would have fewer negative impacts.

Guardians of the Navasota River offers its help in designing a plan that will meet the needs of the people of Region H without the socioeconomic impacts that building Millican would bring to our area. Please feel free to contact us if you have any questions or would like to discuss other ways we can all be successful in building a Texas we can be proud of for the future.

Sincerely,



Mark Dudley
President

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

Must have by April 20 to take to Waco.
 We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	John F. DeMille	5002 Singing Branch Anderson TX	936 873 5029
Rosa L. DeMille	Rosal. DeMille	5002 Singing Branch Anderson TX	936-873-5027
	Cheryl C. Wain	P.O. Box 491 Anderson TX 77830	(979) 220-2539
	MIKE GRAY	6025 CR 302	(936) 894-3580
	MARYLIN WARREN	5002 Singing Branch	979-422-3072
	Art Morales	1609 N Texas Ave	979 7782365
	Billy Sessions	1609 N Texas Ave	979-778-2365
Tammy Burns	TAMMY BURNS	10430 County Road 174	979-224-0918
John A DeMille	John A DeMille	5002 Singing Branch	979 422-0823
VIGUET	VIGUET	College Station, TX	979. 777. 8857
	Keri Uebell	11141 CR 175 Jola TX 77861	936 344-3812
	JOE BYN	10430 CR 174	979 224 0917 TEP4LS9 @GMAIL.COM
	JOHN STOUT	6124 CR 190	JSTOUT@MARINERCONSULT.COM
	W. R. Fain - Jr	1873 CR 190 And. PARSONS 15230 CR 229	936-873-9940
	Jan D...	5112 CR 174 SHIRAZ, TX 77876	
	A. Hirsch	7904 CR 171 Anderson TX 77840	
	CW Brando	11262 Debbie Ln IOLA TX 77861	281-536-8326
	Randy Richardson	8871 County Rd 174 Anderson, TX	936-873-9989
	Theresa Gray	6025 CR 302 Navasota TX	936-894-3580
	Mark Ethridge	4541 NE Stallings Dr. APT #314 NAC TX 75965	
John Olden	John Olden	2088 Olden Ln. College Station TX	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Samantha Johnson	1209 Georgia, CS	
	Brittany Ross	15702 Hwy 210, N. Zulch	
	Jaci McDaniel	303 Post Oak	
	Michael Villanueva	2609 D Pecan Knoll	
	Dana M. Smith	1909 E. W. J. Bryan Pkwy	
	Joyce Donaho	15659 Bunch Rd W. Zulch	
	LORI ATKINS	9418 FM 244, ANDERSON	
	Megan Rector	2000 Quail Hollow Dr Bryan	
	JEREMY NOEL	1015 A AUTUMN CIR. COLLEGE STATION, TX 77840	
	Adina Feldman	1907 DARTMOUTH #1514 COLLEGE STATION, TX 77840	
	Jackie McPherson	9633 CR 192 Anderson, TX	
	Barry Nollen	430 Southwest Apt 1405 College Station, TX 77840	
	Erin Bendick	705 SAN MARINO CT APT A college station, TX 77845	
	Ryan Fries	902 Navarro Dr College Station TX	
	Lessa Block	16269 Wilson Pasture Rd Bryan, TX 77808	
	Lindsey Sampson	1425 W. Villa Maria Bryan TX 77801	
	Laci Carpenter	805 A Yegua	
	Clayton D. Long	3919 B Oliv Bryan TX 77801	
	Jenni M. Watt	3903 Veterans Ave College Station, TX 77845	

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Laurie Weber</i>	Laurie Weber	P.O. Box 1392 Bryan, TX	LAURIE.WEBER65@gmail.com
<i>Mike Schedo</i>	Mike Schedo	P.O. Box 1392 Bryan	(210) 459-7372
<i>Wyatt Taylor</i>	Wyatt Taylor	P.O. Box 1392 Bryan	979-575-8787
<i>Santiago Sandoz</i>	Santiago Sandoz	P. O. Box 1824 Bryan	956-966-9017
<i>Debra Maeks</i>	Debra Maeks	214 S. Dillard Bryan TX	979-422-6534
<i>Robin Clay</i>	Robin Clay	3622 Rabbit Ln Bryan TX	203-313-9769
<i>Brent Clay</i>	Brent Clay	3622 Rabbit Ln Bryan TX	(979) 571-4739
<i>Alice Chapman</i>	Alice Chapman	2700 Collier Rd Bryan TX	(979) 218-4314
<i>Jessie Ramirez</i>	Jessie Ramirez	1110 Richard	(979) 703-5177
<i>Eric Fico</i>	Eric Fico	1207 W 26th	(979) 575-1880
<i>Mary Bohler</i>	Mary Bohler	4007 Collegellain #6	979-412-6739
<i>William Fivel</i>	William Fivel	495 PR 4032 Caldwell TX 77836	979 272-1146
<i>Cynthia K. Alvarez</i>	Cynthia K. Alvarez	2018 Nueces Ln Bryan, TX	979-393-8316
<i>William Kassar</i>	William Kassar	2018 Nueces Ln	979-393-8316
<i>David Stone</i>	DAVID STONE	214 D. Dillard Bryan TX 77803	979-219-7768
<i>Thomas Casars</i>	Thomas Casars	1305 Hazel St. Bryan, Tex	979-402-2081
<i>Betty Strouk</i>	Betty Strouk	1209 Anita Bryan TX	979-2204172
<i>Jain Meece</i>	Jain Meece	Frontier Street Bryan	361 586-0734
<i>Betty Meece</i>	Betty Meece	Frontier Bryan	281-467-0059

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date: 5/5/10

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Alton B. Meyer</i>	ALTON B. MEYER	5445 COLE LANE COLLEGE ST, TX 77845	
<i>Bobbie Meyer</i>	Bobbie Meyer	5445 COLE LN College Station TX 77845	979 776-8201
<i>Kendall Jennings</i>	Kendall Jennings	11465 Deer Creek College Station, TX 77845	
<i>Sandy Jennings</i>	Sandy Jennings	Same as above	979-776-4769
<i>Amy G. Kaase</i>	Amy G. Kaase	5695 Cross Creek College St, TX 77845	979-731-8826
<i>Sarah A Buckley</i>	Sarah A Buckley	11525 Deer Creek Dr C.S. TX 77845	979 731-8235
<i>Mark Pucelowski</i>	MARK PUCELOWSKI	11525 DEER CREEK C.S. TX 77845	979 731-8235
<i>Greg Kaase</i>	Greg Kaase	5695 Cross Creek C.S. TX 77845	979 731-8826
<i>Kenneth Anthony</i>	Kenneth Anthony	11711 AUSTRALIA LANE C.S. TX 77845	979-776-1640
<i>Mike Anthony</i>	MIKE ANTHONY	4221 BENTWOOD DR C.S. TX 77845	979 690-9057
<i>Landra Anthony</i>	LANDRA ANTHONY	11711 AUSTRALIA College Station, TX 77845	979-776-1640
<i>Gray M. Sims</i>	Gray M. Sims	15565 Cole C.S. TX. 1911E.	979-776-8344
<i>David Hyden</i>	DAVID HYDEN	8332 Cole Lane C.S. TX 77845	713-851-6434
<i>Darin Hyden</i>	Darin Hyden	6300 Cole Lane College Station, Tex	979 776 9504
<i>Darin Hyden</i>	Darin Hyden	6300 Cole Lane C.S. TX	979-227-5380
<i>M. G. Hyden</i>	M. G. Hyden	6300 Cole Lane C.S. TX 77845	979-776-9504
<i>Phanie Zuber</i>	Phanie Zuber	11058 S.H. 36 C.S. TX 77845	979-776-8765
<i>Patricia Hyden</i>	Patricia Hyden	5632 COLE LANE C.S. TX 77845	979-776-9504
<i>Jeff Goehl</i>	Jeff Goehl	5189 Cole Ln C.S. TX 77845	979-774-0516

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Amanda Helm	1885 King Rd ^{North} Zuehl, TX	helm08@gmail.com
	Brice Woodard	1885 King Rd ^{North} Zuehl, TX	cashbw08@gmail.com
	Steve Perry	7647 Wheelock Hall	D.A.W. PERRY @ AOL.COM
	Kari Fulton	19209 OLD BURL ^{Hearnery}	ck Karifulton@yahoo.com
	MICHAEL WEEP	6825 WEBER RD ^{BRYAN}	MICHAEL@MICASARANCH.COM
	Kim Koenig	11366 Dilly Shaw ^{Bryan TX} Loop Rd.	markim73@yahoo.com
	Arleen Bilsing	36405 OSR ^{Normangee}	s.bilsing@yahoo.com
	Margot Goff	2207 W ^{Bryan TX} Mercers Ln	mgofer@suddenlink.net
	CURT SHARPTON	7039 Deep Well Rd	cmsharpton@yahoo.com
	PETER TEE	9724 River Rd, CS	_____
	STEVE Wilson	8484 Wheelock Hall	SMWilson@Hughes.NET
	Charles Balange	11072 Forsthoft	
	GAIL LENZ	11756 E. SH 2 ^{Bryan, TX 77808}	gmlenze@verizon.net
	Sue Chapman	2529 Alton Ridge Dr. ^{Bryan, TX 77802}	sue.lid1@msn.com
	Jared Sikorski	6798 Zwickel Rd ^{Bryan TX 77808}	Jared_sik@yahoo.com
	NK CATTLE	PO Box 203 ^{Wheelock, TX 77882}	nkcattle@aol.com
	LISA MORRIS	8493 NCR 499 ^{Normangee TX 77871}	LISA.MORRIS@STUDENT.COM
	Randy Helm	109 Sunset Drive ^{North}	bus342007@yahoo.com
	Dawn Johnson	244 CEDAR ^{WELLES TX 77859}	

CREEK RD

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Bobby L Hukey	7750 Deewells Rd Bryan TX	
	Katie May	North Zulch, TX	
	Amber Kapchinski	10265 Kurten Cemetery Bryan, TX 77808	
	M. Fewls	Normangee Tx	
	T. Fairbank	Old church road TX	
	RAY CURTIS	BEDIAS, TX	
	Jenna Crum	Kurten, tx	
	James Thum	Midway TX	
	JEAN MUEHL	KURTEN, TX	
	Milton Wagar	North Zulch TX	
	ROSE LIVINGSTON	PO BOX 55 Kurten	
	Melissa Williams	1150 LA Fountain Lane Bryan, TX 77808	
	Derrick Williams	1150 LA Fountain Lane Bryan, TX 77808	
	Lois Sanders	19636 Megan Rd Bedias, TX 77831	
	Kelly Hays	Burton, TX	
	Sheri Jensen	Edge, TX	
	Matt Nichols	Kurten, TX	
	Larry Young	Wilson Valley	
	BLAINE MATTHEWS	BRYAN, TX	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

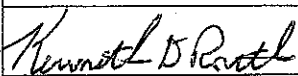

Signature	Printed Name	Address	E-Mail/Phone (optional)
	GARY GRIGGS	8201 Double Jump Ln	979 828 492 ^{479 218} 75057
	DIXIE GRIGGS		
	MARY SHEARER	18900 OLD BUNDICK Bryan, TX 77808	mhs9es@hotmail.com
	Jan Peery	16474 Wilson Pasture Rd.	jane@bulldogwireline.com
	Joy Ramsey	4609 Andert Rd.	ramseyj4@hotmail.com
	GERALD SHEARER	18900 Old Bundick Rd	Mhs9es@hotmail.com
	MONICA IRICK	15650 Dilly Shaw Bryan TX 77808	
	Justin Irick	15650 Dilly Shaw Bryan TX 77808	jirick@txcyber.com
	Clyde Williams	18570 MACEY RD	HEARNE TX 77859
	Red Escamilla	11649 Fm 1940	Frankl, TX 77856
	Michael Morgan		979-482-6429
	James Becker	15604 Mary Payne Ln Bryan	979-229-9682
	Brian VAN ETHA	918 Edgo School Home Rd	979-229-3967
	Rene Rios	7308 Church New	979-492-2767
	TERENIE SCARMARDO	17252 MACEY Rd	979 574-8649
	Casie Scarmardo	17252 macey rd	979 574 5414
	Linda Ferguson	6841 Cedar Oaks	979-589-1542
	STUART BURBACH	7056 Harbert Rd	lazyrollingsrauche@yahoo.com

Petition:

Date: 5/8/10

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Kenneth Routh	9285 John Rice Dr. IOLA, TX	Kdrouth54@verizon.net
	Jamelia Routh	9285 John Rice Dr. IOLA, TX	Kdrouth54@verizon.net

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	JEFFREY ERWIN	Bryan, TX 77801 2848 Forest Bend	
	Kevin R Sawyer	7802 Shiloh Ln 77845	Theplaw@yahoo
	Hayden Holmes	300 Woodhaven Ln Conroe Tx, 77301	hay-den09@live.com
	Pamela Sibley	1009 Winter St Bryan TX 77808	
	Hobden Holland	3808 wellborn rd Bryan, Tx. 77804	geoffrey.holland@inn.edu
	Candice Martin	PO Box 9129 College Station, Tx 77842	CandiceLMartin@gmail.com

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	FLYEMING	NORTH ZULCHA	
Cheryl Fleming	Cheryl Fleming	North Zulch, TX	
	T. Bonnet Lume	18075 FM 974, Bryan, TX	
	JIM WALL	14080 DILLY SHAW TWP RD BRYAN, TX 77808	
	ROBERT AVERY	14695 STATE HWY 30 COLLEGE STATION, TX 77845	RAVERYT@YAHOO.COM
	Dennis Rother	4910 Firestone DR College Station, TX	SuddenLink.net
	Mark Dudley	8 Lori Lane, C.S. TX 77845	mdudley@rmdudleyconstruction.com
	MARSHALL B Jones	10802 Nunn Jones Rd College Station TX 77845	marshallbjones@gmail.com
	Leonard Cox	12464 Long Trussel Rd Bryan TX 77808	
	MIKE BRINKMAN	16806 FM 1372 NORTH ZULCH TX 77872	MIKE@BRINKMANROOFING.COM
	Catherine P Cox	12464 Long Trussel Bryan TX 77808	Cathy@Coxfamilyfarm.com
	Gerald Jozwiak	1940 Derby Ln Madison, IL TX 77804	geraldjozwiak@yahoo.com
	Paul Brannon	2103 TRUMAN ST Bryan, TX 77801	Paul@PaulBrannon.com
	Angelette Howard	5841 C.R. 157 Jolo, TX 77861	ahoward@mssblue.net
	Kristie Reddick	404 NORTH AVE Bryan, TX 77801	Kristreddick@yahoo.com
	Lionel Eyras	404 NORTH AVE BRYAN TX 77801	lionelreyras@hotmail.com

Petition:

Date:

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.


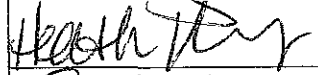
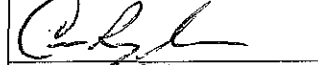



Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Dr. Fred G. Anderson</i>	FRED G. ANDERSON	2504 RIVER FOREST DR. SAYAD, TX 77802	FGA@SUDDENLINK.NET
<i>Carol Anderson</i>	Carol Anderson	""	''

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Shirley Hartman	10016 Brookwood Ln. CS. TX 77845	
	Heather McElvey	3205 Wildlife Cir Bryan, TX 77802	
	Cassie Kay Adams	2807 Wildflower Dr #13 Bryan, TX 77802	
	Candace Wilson	3602 Old Oaks Dr. Bryan, TX 77802	
	Wendy Dickey	1110 Lamar Bryan, TX 77801	wendy@btd.org
	William Coulter	3803 Blair Ct 77845	

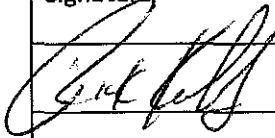
Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.


Signature	Printed Name	Address	E-Mail/Phone (optional)
	Rick Krustehink	68302 Fern Trail Houston, TX 77084	Krustehi@stthom.edu

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.


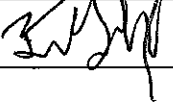
Signature	Printed Name	Address	E-Mail/Phone (optional)
	DAVID T. ANDERSON	605 CEDAR PARK DR CEDAR PARK TX 78613	

Petition:

Date: 5/5/10

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	DARlene Goehl	5189 Cole Ln C.S. TX 77845	979-774-0516
	TREva Goehl	5189 Cole Ln C.S. TX 77845	979-774-0516

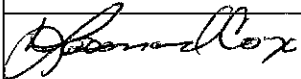
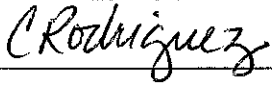
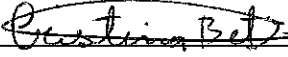
Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

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Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	LEONARD COX	1266 Long Trussel Bryan Tx 77808	
	CANDICE RODRIGUEZ	2714 CHERRY ST WALKER, TX 77484	candicergil@yahoo.com
	CRISTIANA BET	777 INWARD DA BRYAN TX	

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Date:

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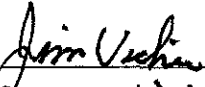
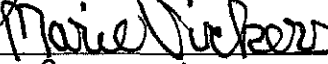

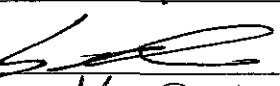
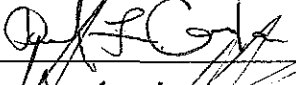

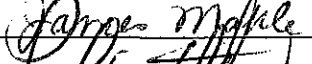
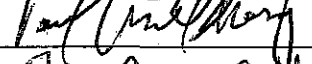
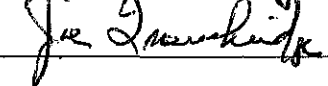
Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Paula Schekin</i>	Paula Schekin	P.O. Box 48 Kurten, TX 77862	
<i>Melvin Carter</i>	Melvin Carter	8001 Riley Rd	77808
<i>Clay Catts</i>	Clay Catts	14713 Demarest Rd	77828
<i>Bill</i>	BRADLEY O'CONNOR	6687 FM 1179	77808
<i>Slade Walding</i>	Slade Walding	7653 Breckenwood Tola TX	77861
<i>Kenneth Davis</i>	Kenneth Davis	Po Box 33 Wheelerlock Tx 77899	
<i>Scott Davis</i>	SCOT DAVIS	5285 Weakland 54 TX 77888	4502566
<i>Steven Stillings</i>	STEVEN STILLINGS	1900 CARTER CREEK	822-6794
<i>Peggy Kindt</i>	Peggy Kindt	P.O. Box 358	77862
<i>Sidney Blaker</i>	Sidney Blaker	7150 Collesworth TX	
<i>Ken Ross</i>	KEN ROSS	9189 HENSERDING LN BRYAN TX	77802 20 KEN ROSS 2060 YAGG
<i>Helena Wallace</i>	Helena Wallace	P.O. Box 171 Kurten TX 77862	
<i>Danny Silowski</i>	DANNY SILOWSKI	5689 HENNERDING BRYAN 77808	
<i>Clarice Fulton</i>	Clarice Fulton	20055 FM 974 Bryan, TX 77808	cfulton@aged.tamu.edu
<i>Kelly Powell</i>	Kelly Powell	20101 FM 974 Bryan TX 77808	
<i>Samie White</i>		3093 CR 333 Caldwell, TX 77836	
<i>Dennis Fraley</i>	Dennis Fraley	7212 Kurten Cem. Rd Bryan, TX 77808	
<i>Becky Fraley</i>	Becky Fraley	7212 Kurten Cemetery BRYAN TX 77808	
<i>Jason Kurten</i>	Jason Kurten	1406 Rockwood Dr Bryan TX 77807	jason.kurten@gmail.com

Petition:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Jim Vickers	Bryan TX 77802 2609 Leila Ct	
	MARIE VICKERS	Bryan TX 77802 2609 Leila Ct.	
	RON MORRIS	4104 WILLOW OAK BRYAN TX.	
	STEVE BUNCH	208 BREWSTER NAV. TX 77868	
	Paula L Goodale	2604 LEILA CT Bryan TX	plgoodale@suddenlink.net
	Andrew Koster	180 MARINO Pk Bryan, TX 77808	KostAndrew@ycu.edu
	JAMES MAHLE	1514 OAKVIEW	
	Paul Rodriguez	210 West St	
	Joe Troubridge	4981 S. OAKHILL LD. BRYAN, 77808	

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Billy J. Simmons</i>	BILLY J. SIMMONS	P.O. BOX 203 NORTH ZULCH, TX 77808	fudgeandlucy@ WINDSTREAM.NET
<i>Martha Windham</i>	Martha Windham	P.O. Box 433 North Zulch, TX 77872	martha_windham@yahoo.com
<i>Susie Cohen</i>	SUSIE COHEN	P.O. Box 1045 Millican, TX 77806	
<i>Lynn H Knowles</i>	Lynn H Knowles	2802 Wilhelm Bryan, TX 77803	—
<i>Debbie Mitchell</i>	Debbie Mitchell	4985 N. Oakland Bryan, TX 77808	deb4star@yahoo.com
<i>Linnie Star</i>	LINNIE STAR	4561 ARBOR LN MADISONVILLE, TX	
<i>Paula Moore</i>	Paula Moore	4985 North Oakland Bryan TX 77808	pmoore-77808@yahoo.com
<i>BILLIE F. STONE</i>	B.F. STONE	4561 ARBOR LN 77864	NA
<i>Debbie Werner</i>	Debbie Werner	9969 Fulton Ln. Bryan 77808	debiwerner@ Hughes.net
<i>Roy Buckley</i>	Roy Buckley	12041 Robbins North Zulch, TX 77808	
<i>Donnie Steward</i>	Donnie Steward	Millican PoB 394 77866	
<i>Amy Hatfield</i>	Amy Hatfield	Richardson TX 12004 Fm 149 E 77873	
<i>Mary Bellamy</i>	Mary Bellamy	77808 472 Old Belamed	—
<i>William P. Schilling</i>	William P. Schilling	1885 CR 304 CANDWELL TX. 77836	pschilling@hughes.net

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Carol LaFayette	11696 Brassbur Bryan, TX 77809	clafayette@wildblue.net
	Tim McLaughlin	500 Brookside Dr. E. Bryan, TX 77801	tim.mclaughlin@mac.com
	WILLIAM JENKS	529 HELENA ST. BRYAN, TX 77801	bjjenks@tamuc.edu
	KAREN HILLIER	2301 BRISTOL ST. BRYAN, TX 77802	karenhillier1@suddenlink.net
	Susan Waters	4713 Stonebrink College Station, TX 77845	wildcataggie@hotmail.com
	Michael Waters	4713 Stonebrink C.S. TX 77845	
	Jess Freely	1800 Texas Ave Ste A College Station, TX 77845	
	Daniel W. Dick	1600 W Pkwy College Station, TX 77845	
	Tammy Duke	11 Glenbrook Circle Lucas, TX 75002	
	Maxine Rooney	12313 Loney Tr Bryan, TX 77801	
	James Carpenter	22906 BRASSBUR BRYAN, TX	JIMC@MCCURDYTEXAS.COM
	Russell McGee	10080 FM 1179 BRYAN TX 77808	romcgee@tamuc.edu
	Douglas E. Platt	2313 S. Pioneer Tr. Bryan, TX 77808	deplatt3896@gmail.com

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Kim Hendrick</i>	Kim Hendrick	8713 Tejas Ranch Loop Bryan TX 77808	
<i>Carla Kinalt</i>	Carla Kinalt	11387 Clear Lake Rd Bryan TX 77808	
<i>John D Hill</i>	John David Nicholson	2700 Red Hill Dr. College Station, TX 77805	
<i>Megan Hladek</i>	Megan Hladek	2911 Normand Dr. Coll. Station TX 77845	
<i>Brandy Lloyd</i>	Brandy Lloyd	415 Salem Crt CS TX 77845	
<i>Jerry Lloyd</i>	Jerry Lloyd	1415 Sulam Court CS TX 77845	
<i>Don Baxley</i>	Don Baxley	8207 TEJAS RANCH BRYAN	
<i>Barbara Baxley</i>	Barbara Baxley	8707 Tejas Ranch Loop Bryan 77808	bbaxley@tconline.net
<i>Jimmy R Lloyd</i>	JIMMY R LLOYD	8566 S FM 2038 BRYAN, TEXAS 77808	
<i>Barbara Lloyd</i>	Barbara Lloyd	8566 S FM 2038 Bryan, Texas 77808	
<i>Carroll Francis</i>	CARROLL FRANCIS	7042 Dick Elliott	
<i>Jim E Rodgers</i>	JIM RODGERS	10820 Clear Lake Rd Bryan TX 77808	979-589-2027
<i>Barbara Petty</i>	BARBARA PETTY	5141 Playens Rd Bryan, Texas	979-589-5141
<i>Buddy Winn</i>	Buddy Winn	10429 Cobb Rd Bryan TX 77808	979-224-2411
<i>Jerry Wall</i>	JERRY WALL	19250 FM 974 Bryan TEXAS 77808	979-220-2027
<i>Clifford Neal</i>	Clifford Neal	9066 Jack Rabbit Ln Bryan Texas 77808	979-279-3417
<i>Scott Cronace</i>	SCOTT CRONACE	PO Box 82 KURTEN	(979) 589-1306
<i>Gail Cronace</i>	GAIL CRONACE	KURTEN TEXAS 77862	
<i>Eddie Rankin</i>	Eddie Rankin	8217 W Chilover	Odessa TX

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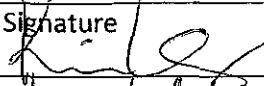
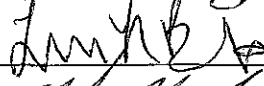
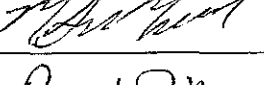
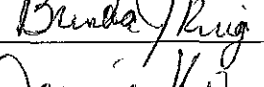
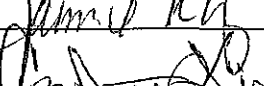
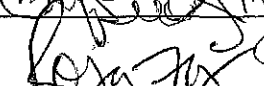

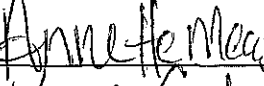
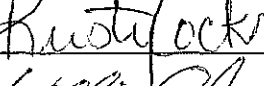
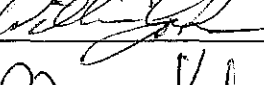
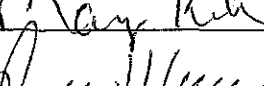
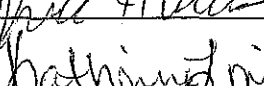
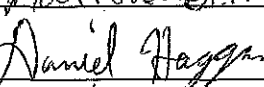

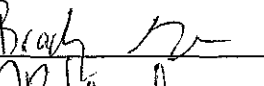
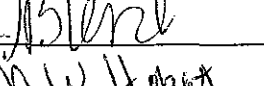
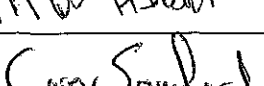
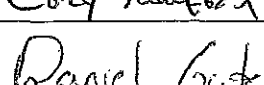
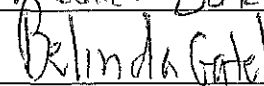

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Margie Rogers	9695 Timberwilde Bryan	MargieDwings@mac.com
	Jeanne Kolbe	2741 Horseback Dr. CS. TX 77844 9596 TIMBERWILDE	JKolbe@esisd.org
	HARLIE BALENBERG		HARLIED65@yahoo.com
	TIM AKINS	8855 MCCARVER BRYAN TX 77808	TIM.AKINS@SBCGLOBAL.NET
	Ed Livack	2601 CREEKVIEW BRYAN	
	T. Tom Webb	1720 Harvey Mitchell	979-324-5458
	CW DENBY	1720 Harvey Mitchell	979-820-0500
	Thomas Kellar	" "	979-823-0803
	Natalie Swenson	362 Rolling Glen Bryan	979-255-5772 HorseKrazy490@gmail.com
	Vicki Pittman	9595 Timberwilde	979-774-0190
	JERRY PITTMAN	" "	" "
	Camy Sturdivant	5665 Stansland CS, TX 77845	979-690-6479
	Bill Meckert	11444 River Rd CS. TX 77845	979-846-8817
	Dennis Norris	1974 Peach Creek Rd. 77845	(936)825-2592
	Ned Baxter	9121 Lighty Lane C. S. TX 77845	
	Leanne Swenson	3102 Rolling Glen Bryan 77807	leanne_swenson@verizon.net
	Victor Swenson	3102 Rolling Glen	Victor.Swenson@verizon.net
	Carly Swenson	3102 Rolling Glen	979-2595-5160
	MARK DENNARD	1068 Mumfords Valley	979-690-6070
	Wes Dennard	9936 Hunters Run	979-776-5894
	Ashley Duffee	1214 Danville Ln CS TX 77845	979 422 4724

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Kim King	Montgomery TX 2400 Weeren Rd 77316	
	TERRIBAHLE	MAGNOLIA TX Box 1901	
	Mike Marshall	396 Heedon Bank X	
	Brenda King	25423 Weeren	713-419-0572
	Jamie King	25423 Weeren	
	Crystal King	30807 Allen	832-244-2110
	ROXA FOX	1604 Cadogan Ln Katy TX 77450	RoxA1772@yahoo.com
	Brian Kuchman	628 New AD North Zulch TX	
	Annette Measel	4537 Fm 2865 North Zulch TX	979-204-4840
	Kristy Cockroft	2878 Fm 2865 N. Zulch	979-218-4689
	William Johnson	2103-253 Dummett TX	
	Mary Kuch	920 CR 316	979-219-0003
	John Hoffer	210 W. Bullard Madisonville	936-348-4129
	Kathrin Miller	2206 E. placid dr. College Station TX	936 438-8442
	Daniel Haggans	3243 Donah's Rd North Zulch TX 77802	936-349-5427
	Andrew Eldridge	4065 windfree	979-224-9762
	Brady Gorman	La Grange TX	(979) 966-9466
	Jennifer Bond	Burnet TX	512 557 5263
	M W Hebert	1171 Mulberry Hill Madison TX 77835	
	Corey Sanford	1590 Bundie Rd North Zulch TX 77882	979-820-3304
	Daniel Gately	New Wavesty TX	281-475-9192
	Belinda Gately	" "	" "

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Shawn Kay	12000 Sawmill	
	Nicole Eppes	39 Yewleaf R	n102429@yahoo.com
	Kari Koteras	12000 Sawmill	
	Stephanie Pope	5510 S. Rice #1414	Stephd.pope@att.net
	Jason Baber	24826 Sandchuck Dr.	JBaber78@yahoo.com
	Fred Hughes	1002 Old Huntersville Rd	933.597.8150
	Denise Hays	14668 Hwy 21 W	
	Coltin Hughes	1002 Old Huntersville Rd	
	Derek C. Robinson	14500 CUTTEN RD APT HOUSTON, TX 77065 1304	832.6835225 dcr_racing@att.net
	Kris Hale	9910 Doiben ct Houston Tx, 77088	whattk_hale@yahoo.com
	Crystal Scott	11202 Velvet Grass Houston TX 77095	Crystalmom@aol.com
	John Schoellmeier	1200 Guadalupe C.S. TX	
	ALLEN W. WISE	4102 LAURA LANE - BRISBANE TX 77803	BCGUNTOTER@MSN.COM
	Katie Fleming	4622 Brevenhill Houston TX 77023	katie(fleming)@gmail.com
	Antonia Fleming	2326 Nacoogood Twin Oaks Dr. TX 75465	
	Josh Fleming	9522 Beresford Hill Houston TX 77063	j.fleming-83@yahoo.com
	Chad Kubick	4000A Atkins Cross, 2874 FM 2865	979-229-6418 210-744-6829
	Jonathan Cockroft	North Zulch	
	Scot Measell	4557 FM 2865 North Zulch	979-204-1840
	Sean Burnett	11169 CR 112 Centerville, TX 75833	903-536-3976
	Tammie Burnett	11169 C.R. 112 Centerville, TX 75833	457chevy43@netzero.com
	Georgina Standley	4551 TOUR & COUNTRY LANE Madisonville, TX 77864	geo_standley09@ muchs.net

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Dana Monroe	3224 Running Sp SIA TX 78261	magnunosa@tamu.edu
	Diana Monroe	3224 Running Sp SIA TX 78261	dijada@aol.com
	Bryan Puckett	11935 BELLECT PINEHURST, TX 77362	b50bute@gmail.com
	Mindce Sanders	24110 Creekwood Dr. Spring, TX 77389	msanders9577@att.net
	Michael Sanders	24110 Creekwood Dr. Spring, TX 77389	// //
	Jasmine Schneider	10107 CHECKERBERRY DOCK	—
	Thomas McNew	24110 Creekwood	
	Derek Flenner	2326 NACADISTESS, TX 75965	daron-n5@yahoo.com
	James Husted	4007 Rebel Dr. College Station, TX 77845	jameshusted@hotmail.com
	Ryan Wilkerson	265 Pebble Creek Dr Poundland TX 77581	rwilkinson@gmail.com
	Debbie Buescher	4110 Meadowbrook Bryan, TX 77803	
	John Eldrich	8464 sandy point rd	-
	Steven L Alivisatos	903 Dellwood	stevendalivisatos@yahoo.com
	Jessica Smider	903 Dellwood	jdsnider@ag.tamu.edu
	Heather Elmer	2521 Cypress Orte, CS, TX	hellonch2009@gmail
	Jason Beard	2521 Cypress Orte, CS, TX	Big-Time Hunter@Hotmail.com
	Gilbert Vela	5178 winding Rd Hearne, TX 77859	
	Teresa Vela	5178 Winding Rd Hearne TX	terelavela@yahoo.com
	Shannon Scasta	903 Anderson, Hearne, TX	
	Lora Scasta	903 Anderson, Hearne	lorascasta@sbcglobal.net

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	James Deil III	25126 Gosling rd.	281 8085991
	Cheryl Baber	5614 Arank Spring TX	832-585-6053 832-
	JAMES BRILL	25126 Gosling RD	281-351-9406
	Jimmy Kaye	2314 Autumn Willow	281-794-0944
	James Brill	25126 C Gosling RD	281 351 9406
	Bryan Shaw	25126 Gosling rd	281-351-9406
	James Brill	25126 Gosling RD	832-243-4799
	Cary Knight	4008 Rebel C.S.	979 703 7420
	Sandra Knight	4008 Rebel CS	979 703 7420
	Gordon Graves	2534 CARROLL ST NACORDAHS	gograves@yqhu.com
	Terry Lombright	3310-Big Bend Dr Bryan TX	979-676-2068
	Steven Janczak	6223 Hickorycrest Spring TX	281-370-9403
	Floyd Whism	1217 Round Prairie Rd Bediavt	210-275-3695
	Billy Young	176 CR 414 DAYTON TX	713-253-0508
	Mac McLaughlin	1217 Round Prairie Bediastx	210-275-6746
	Ryan LaBarge	25826 Savage Brickhill dr.	832 482 5934
	Keel Greenhouse	82502 Debbie Ln	832 276 1336
	Ryan Bell	4456 Arank	832 585-6054
	Jimmy Lacy III	8314 Autumn Willow	832-515-6654
	Chris Moore	3224 Running sbg SAN ANTONIO, TX	830-438-3513
	Logan Cox	50440 FM 106	logancox@gnulinux

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Nicholas Standley	Madisonville TX 77864 451 Town & Country Ln 10416 Ridge Haven Canyon Lake TX 78133	nich-5@hughes.net .936-348-0162
	Wyatt Mitchell	Canyon Lake TX 78133	
	Bill Fair	212 N. Pine ^{Godwin} Godwin	970-819-3711
	Mark Pittman	200 CR 3075 ^{Orange} Orange TX	361-905-8439
	Patricia Pittman	200 CR 3075 ^{Orange} Orange TX	361-389-3476
	Janel Robinson	579 CR 4150 Clifton	254-744-9447
	Billy Dupree	2407 Canter Ln. Couroe TX 77384	
	Wanda Rodriguez	205 Redmond Dr.	77840
	Andrew Rodriguez	205 Redmond	77840
	LISA DUPREE	2407 CANTER LN COUROE TX 77384	
	JAMES FOX	1634 CADOGAN KATY TX 77450	
	Jon Fox	1634 Cadogan Ln Katy, TX 77450	
	Kelsey Brown	21603 Cedar Cove Dr. Katy, TX 77450	
	Dustin King	586 CR 260 Bremont TX 76621	
	CHARLES KING	P.O. BOX 34 Bremont TX	
	Heather Hartsfield	586 CR 260 Bremont TX	
	Audrey White	139 LCA 604 Groesbeck, TX 76642	
	Jimmy King	24806 Wecker Rd Montgomery TX 77316	
	Kim King	" " "	
	Tracy King	" " "	
	Jerry King	30807 Allene	832-244-2110

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Tom Gath	25370 Fox Br, a-	
	James P. Allen	24806 Red Oak St. Magnolia, TX 77355	
	Dustin Schuenermann	12807 Advance Houston TX 77065	
	Dustin Schuenermann	13871 Hwy 21 West N.Z. Texas 77572	
	ROBERT JOHNSON	13065 NEW RD NORTH ZULCH TX 77572	
	Roger D. Williams	7706 New Sulphur Springs Rd. GA. TX 78263	
	Stacy LaRoche	24700 Weeren Rd Montgomery TX 77316	
	Dustin Rodriguez	201208 Creeper Montgomery TX 77316	
	Heather	JAN KODUKI 3416 G King Rd North Zulch, TX	
	Cody Bartula	14668 Hwy 21 West North Zulch TX	
	Lisa Whitaker	PO Box 158 Flynn, TX 77855	
	Byron C. Brown	20368 CA 124 IOLA TX 77861	
	Eric Clegg	11373 5th Street North Zulch TX 77872	
	Chris Schuenermann	3445 King Rd N. Zulch TX 77872	
	Jeffrey Crocker	PO Box 457 North Zulch TX 77872	
	Zack Brown	PO Box 496 N. ZULCH TX 77872	MOONSETTER151 @ G.MAIL.COM
	Daniel Saunders	3150 Zulch Rd	
	TOM PIERSALL	10221 CENTRE PARK HOUSTON TX 77043	
	DOUG GRIDER	18107 LOWMEYER HOUSTON TX 77284	
	Chris Bitowen	185 Britton St Newman, GA	
	Brian Davidson	11535 Chabri LN N2 TX	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Tiffany Hill	20914 POSSUM lane N. Zulch Tx 77872	hilltif79@yahoo.com
	David Barton	3030 Beverly Hills Rd N. Zulch TX 77872	
	David Crowder	12186 Beverly Hill #3d	
	Wesley Williams	9463 Oak Midway Dr 75950	
	Nicole Holliday	7721 N. Woodlake 12015 Audrey Ct	caugirl10muel@uphoo.com
	Bethy Marshburn	17418 Lewis Dr. Cypress TX 77433	
	Jessica Matton	11560 8th St North Zulch TX	
	Mike Vegger	714 Lionac College Station TX	vegger383@hotmail.com
	SAM ESPINEL	1112 STATE MAD	
	Robert May	11734 2nd St	AM-Choice
	Brad Keefe	P.O. 236 north Zulch	
	BS Clark	4102 Willow Oaks Bryan TX 77802	
	Awiese	1907 Dartmouth Ct TX	
	K Clark	4102 Willow Oaks Bryan	
	Charles Cook	12185 Erma Ln #2.	
	Clayton Cook	7401 vernon rd	
		P.O. Box 473	
	Emma Casey	11450 Chelbre Lane	
	Chelsea Wade	P.O. Box 496 North Zulch	
	Jessica Crank	P.O. Box 457 North Zulch	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Jessica Booty	519 Brandy Ln. North Zulch TX 77872	979 436 5099
	John Gloor	11394 Cleveland Rd North Zulch TX 77872	979 587 2274
	Charles Woodruff	275 CR 3500 Big Sandy Tx 75855	
	Joy Goodrey	15641 Hwy 21 North Zulch TX	
	Kris Sparkman	9803 Elmo Woodson Rd.	979-402-7756
	AS Barreiro	3204 Barkers Dr	979-595-7739
	Tye Taylor	14 Donna Dr. Uvalde TX. 78801	830-279-4353
	Blair Barbara Karstens	11667 Woodglen Bryan TX 77808	bkarstens@juno.com
	Marvin Karstens	11667 Woodglen Bryan TX 77808	979-777-1893
	Kaleb Maska	3450 Strawthor Rd North Zulch Tx 77872	979-551-0635
	Sam Atkinson	Denman Rd. North Zulch TX 77872	979 551 0635
	Bow Wilson	Kilgore Tx	903-987-2346
	Joseph Siblex		
		Kilgore Tx	
	Robin Wolfe	1903 Water Oak Bryan, TX 77803	979 324-4999
	Roy Rhodes	304 S. El Paso Heming, TX	(979) 739-5242
	Ricky Wolfe	1903 Water Oak Bryan TX 77803	979 324-4818
	MINGO SEPPALA	610 N. SAMAN AVE HEMING TX	979-595-5699
	Bruce Waack	17147 R 4016 Somerville TX	979-596-1488
	Ashley Mearns	882 Beaver Bend Wetzel	979-220-7333

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Jamie Hartman	1058 Windmeadows	979-595-6852
	Laurie Duke	3504 N. Tex. Ave.	979-220-2820
	Richard Coker	1209 Halcyon Pl 77845	254-721-4298
	Kevin Duke	3504 N. Tex Ave Bryan	979-778-2608
	Jory Barham	1434 hills: DE DR	979- 412 412-4606
	Kristyn Patranella	3802 Caldwell Court	979 778 9323
	Scott Pitts	941 Navidad	979-709-4717
	David Hedrick	757 Stampede Dr	979-595-8334
	Jim Terrell	OAK FORK Shepherd	NP
	Barbara Brown	OAK FORK Shepherd TX	NP
	Jeff Terrell	502 Oak Fork Dr Shepherd TX	
	Jon Terrell	" "	
	Terry Terrell	" "	
	John Easley	11430 OAK LAKE RD	979-450-2028
	Kim Easley	" "	" "
	Daniel P. Scholz	1007 Francis Dr	
	Ellen Atkinson	865 Norris St TX	936-897-3400
	Travis Haggins	Po Box 1006 Navasota, Tx	
	Kim Smizer	Po Box 1016 Navasota, Tx	
	Joe Thomas	428 Cicero Hill Rd.	Lu Ann TX. 75904
	Ryan Wingard	5780 CR 237 Anderson TX	

Petition:

Date:

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Jeff Rayner	20603 CYPRESSWOOD WEAVERVILLE, TX 77382	JEFF@HUFFCO SERVICES.COM
	Lynn Grayson	605 Mosswood Ave Conroe TX 77382	lyngayson1981@huc.com
	Steffany Muder	17142 oakwood Chalk Spring TX 77379	
	Jay Williams	4438 Kinsey Lane College Station TX	JayWill@suddenlink.net
	Rachael Kendrick	3007 Butterfly Dr Temple, TX 76502	
	David Kendrick	3007 Butterfly Dr Temple, TX 76502	
	Adam Clark	7502 Live Oak Humble TX 77396	
	Kenna Barron	PO BOX 236 Humble TX 77377	
	Cheryl White	7502 LIVE OAK Humble TX	77396
	Brian White	7502 LIVE OAK	
	Jason Blaine	520 Atascocita RD	
	Jason Lemmon	4300 Mayers Ln Waco, TX 76708	
	A. ShurCom	1100 Small College Station	
	Donald Wright	3016 Pierre College Station Texas	wrightd79@verizon.net
	Chance Thornton	824 Triniton Rd Triniton, TX	
	Cassie Henson	10831 East Cv 315 Buffalo TX	Cbh008@shou.edu
	Russell Coker	131 CR 303	254-221-7418
	Kevin Osborne	1301 Hatley Place	832 549 7323
	Cody Duke	10674 WFA 357	936-366-9705
	Riley Barrett	193 Barrett Rd Trinity, TX	
	Sage Landry	512 Katherine St	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Josh Kettler	8567 Kettler Ln	
	Cody Allison	10245 Lakeway Dr	
	Crystal Allison	10245 Lakeway Dr.	
	Jeremy Wright	3016 Pierre Pl	
	Flor Almanza	702 A Wadesway	
	William Kettler	702 A Wades Way, Madison, TX	
	Suzi Mullins	104 Castle Oak - ^{Lufkin, TX} 75904	
	Ashley Evans	PO Box 155333 Lufkin TX 75915	
	Danny Mull	104 Castle Oak - Lufkin	
	Kyle Warren	904 University oaks	
	JT Kenworthy	309 Pine Bluff Lafete	JTsumshyn@yahoo.com
	Taylor Johnson	" "	
	Tally Zare	" "	tzare@yahoo.com
	Patrick Arnold	10626 Sudden Blvd Houston TX	
	Caryn Mack	" "	Carynmack@yahoo.com
	Brian Cunningham	5076 FM 234 S. Edna, TX	
	Sammy Cardenas	412 W Live Oak, Edna, TX	
	Carney Cardenas	4602 Line Oak Edna TX	
	Melissa Cunningham	5076 FM 234 S. Edna TX	
	PRESTON	4200 10th St	
	Prentia Wink	505 West Ridge	

Petition:

Date:

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Kimberly Hont	110 E Uiser Madisonville TX 77864	kannh1988@aol.com 936-662-1460
	Michelle Ward	914 W Main Madisonville TX 77864	motherof-3-angels@yahoo.com 936 245 0933
	Connie Ivey	911 S. Madison Madisonville TX 77864	civey24@yahoo.com 936 245 9835
	Kenny Rogers	512 Katherine St Jeanerette La 70544	337 296 3884
	James Curtis	1002 C. Brown Road New Iberia	337-519-0866
	D. Heard	12114 Longfellow	
	B. Heard	111 117356	
	Jaime Gonzalez	13302 BACHTON (201)	
	Cathy Larson	" "	979 739 7599
	Tyrone Trojillo	P.O. Box 11172 College Station TX 77843	979-739-9746
	Esther Trojillo	P.O. Box 11172 College Station TX 77843	979-739-7599
	Blake Lowry	21726 TRITON HILL	281-620-1735
	Leah Lowry	" "	" "
	Carlos Holic	1434 Hwy 75 N Madisonville	936-348-0155
	Shelby Coleman	105 West Cross	979-595-5154
	Brian Mullins	Caldwell	979 272 2615
	David Verzwuyvel	W. Columbia	
	Ginger Verzwuyvel	" "	
	James Verzwuyvel	Sweeny TX	979-109-0883
	Jon Copeland	Sweeny, TX	
	Chad Kettler	8567 Kettler Ln Navasota	936-870-6065

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

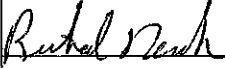
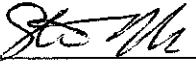
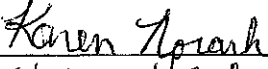

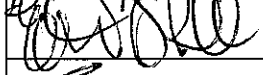
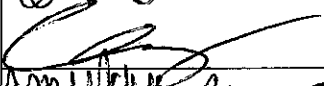
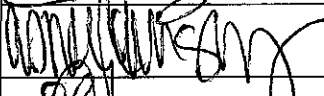
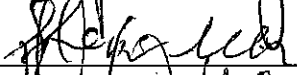
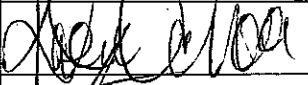


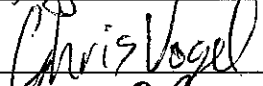
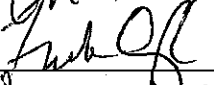
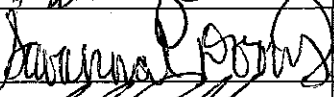
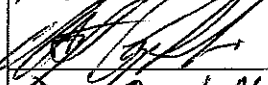

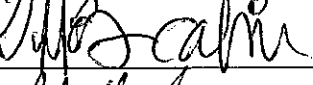
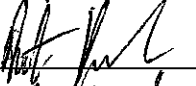
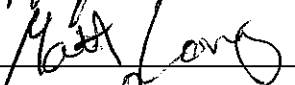
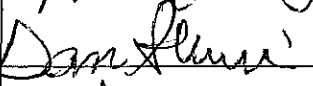
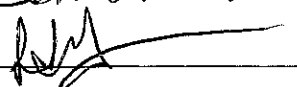
Signature	Printed Name	Address	E-Mail/Phone (optional)
	Jessica Barrett	609 Terrace View Dr McKinney TX 75071	
	Jared McCormick	609 Terrace View McKinney TX 75071	
	Irma Hernandez	1703 Dillon Ave Bryan TX 77803	
	Robert L Hernandez	1703 Dillon Ave Bryan TX 77803	
	Annette Salinas	2511 Provald Dr Bryan TX 77803	
	Billy Salinas	2511 Provald Dr Bryan TX 77801	
	SARAH SANDRA	202 DECLBY ST MILICAN TX 77866	
	SARA SANDRA	" "	
	CATHERINE LUNA	3203 Colson Rd Lot 12 Bryan TX 77808	
	WISJAY LUNA	3203 Colson Rd Lot 12 Bryan TX 77808	
	James Monroe	450 Gilbane Del Norte McAllen TX 78504	
	Erin Bischoff	P.O. Box 205 Shiner TX 77876	
	William Boser	4116 FM 1774 Anderson TX 77830	
	Taylor Vaughn	6565 FM 438	
	Molly Cernosek	904 University Oaks #67 College Station TX 77840	
	Kayanne Warzon	939 Willows Pond College Station TX 77840	
	KASSI WARZON	10197 CR 415 Navasota TX 77868	
	Michael Lang	PO Box 459 Millican TX 77866	
	David	600 290 East Hamstead TX 77475	
	Melissa Bradley	1614 Ladino Cypress TX 77429	
	Honey Jones	PO Box 267 Magnolia TX 77855	

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Richard Novark	WILLIS, TEXAS 12045 POSTOAK	rnovark@celebridge.net
	Steven Novark	10793 Forest Crik Dr	
	Karen Novark	10793 Forest Crik Dr	
	Holly Hibbler	5716 CR 212	
	Emily Parker	2200 Bristol Bryan F302	
	Chris Shay	8430 Windforest Dr Houston, TX 77046	CShay81@yahoo.com
	Ashleigh Armstrong	32409 Cross Spring Pk Ln Conroe TX 77385	
	Steven	3060 Builders Covey Pkwy N. 77385	
	Katelyn	1515 Springwood	
	Jorge	1311 Springwood	
	Ryan	5151 Richmond	
	Chris Vogel	27507 Benders Dock	
	Frank Chandark	276 Rivers End CS TX 77045	
	Savannah Dorn	2001 Holloman Dr. College Station TX 77840	
	Darryl Kelly	P.O. Box 322 Petersville TX 77363	
	Darryl Kelly	541 FM 1488 APT 1026 Conroe, TX 77384	darrylk87@yahoo.com
	Tiffany Calhoun	541 FM 1488 Conroe, TX 77384	
	Austin Barber	15688 Lakeway Dr Willis, TX, 77378	
	Matt Long	" " " "	
	Dan Sherwin	8635 Westcove Abilene TX 77069	
	STEPHEN GUMAN	25423 Spring Springs	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Bobby Perry	16119 Lading ^{7/42/09} Run Cypress, TX	832-326-1126
	Cissy W. Dahl	4612 Pembark	Cissybeth@hotmail.com
	Michael Cox	3891 Fm 1147	903-529-1806
	Kayla Francane	30073 Fm 1736 ^{Hempstead, TX 77445}	979-221-7521
	John Cinto	33056 Willow Bend	281-507-5381
	Shay Mock	33056 Willow Bend	Shaymock08@yahoo.com
	Tony Francane	30073 Fm 1736 Hempstead	979 221 2223
	Kenny George	1001 Hamilton	254-580-5026
	Vickie George	1001 Hamilton Dr ^{WACO, TX}	254-829-1585
	Kandi George	1001 Hamilton Dr. ^{WACO, TX}	254-829-1585
	Raul ALFARO	403 Victoria Navasota, TX	936 825 6446
MARIA ALFARO	maria alfaro	403 VICTORIA IN NAVASOTA	936 825 6446
	Angelica Alfaro	403 Victoria Navasota, TX 77608	936-825-6446
	Jose Alfaro	709 Fawthrop St	979-224-2530
	Lorry Cleere	11510 Russell ^{Spring TX}	979-218-2525
	Gleece	11,5,10	
	Keri Cleere	11,5,10	
	Anthony Geary	1510 CR 808 Aughtin, TX	77515
	Corey Alston	P.O. Box 450 Jewett, TX 75846	
	Samuel And	28834 Camp...	
	Katie Thier	21111...	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

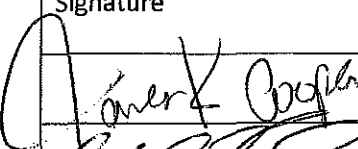

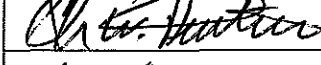
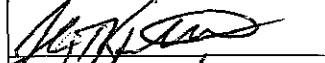

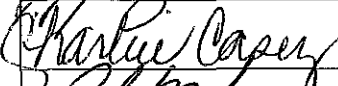
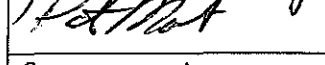
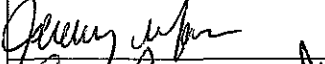

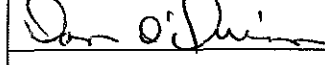
Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Sherry Wells</i>	Sherry Wells	14120 Starview Dr N Zulch 77872	
<i>Pam Harper</i>	Pam Harper	6775 Zak Rd Bryan, Tx 77808	
<i>Stacie Grange</i>	Stacie Grange	3915 Old Oaks Dr Bryan Tx 77802	
<i>Linda Ford</i>	Linda Ford	P.O. Box 23 Wheelock, TX 77882	
<i>Janice Blum</i>	Janice Blum	4422 Meadowbrook Bryan, TX 77802	
<i>Marcia Walker</i>	Marcia Walker	729 Lazy Ln. Bryan, Tx. 77802	
<i>Terri Cox</i>	Terri Cox	811 Timber Lane Caldwell, TX 77836	
<i>Louise Ersenste</i>	Louise Ersenste	2009 Carlisle Ct College Stn, TX	
<i>Christine Orozco</i>	Christine Orozco	305 Dunn Bryan, TX 77801	
<i>Phyllis Bonifazi</i>	Phyllis Bonifazi	12285 Billy Shaw Trl BRYAN, TX 77808	
<i>Carla Johnson</i>	Carla Johnson	3205A Cougar trail Bryan	
<i>Megan Johnson</i>	Megan Johnson	3205 A Cougar trail Bryan	
<i>Deb Keith</i>	Deb Keith	3780 Copperfield Bryan 77802	
<i>Tommy Keith</i>	Tommy Keith	3780 Copperfield Bryan 77802	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	James K. Cooper	5314 Alexander Rd	James K. Cooper, 974 a/v/ahos/ .co Bryan Tx 77808
	Charles F. Steinkuehler Jr.	Po Box 2	Shepherd Tx 77371
	Alan W. Duestel	547 blackberry rd Cubage Tx	SOMERVILLE TX 77879
	John T. Karstedt	458 W. Franklin St	
	Jeffrey Crow	Po Box 457 N. Zulch TX	
	Charcie Casey	13737 Hwy 75	Buffalo, Tx 75831
	Patrick Matuska	7563 Bickham Ceme Rd	Bryan, TX 77808
	Jeremy Morse	7563 Bickham Ceme Rd	Bryan, TX 77808
	Carlos Smith	10915 S. FM 2038	Bryan 77808
	DAN O'Duinn	6055 Hearne Rd	BRYAN 77808

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Camelia Rice	700 Beaver Creek Caldwell TX 77836	camelial2@aol.com
	MARTIN Bessie	1101 Lincoln St Bryan TX 77808	Cell Phone 979-402-4266
	Ophelia Walthrop	14120 North Zulich Starview CITY TX	(936) 399-4056
	J. Lee Atkins	2920 Camille Dr	
	CASEY Taylor	3307 Cockeplee Circle TX	979-402-2761
	Deborah BARKER	812 B.E. Morris Madisonville	(936) 245-0337
	Robert Barker	"	(979) 324-9466
	Phillip Willits	113 Ridge oak C.S.	979 229-9728
	Doreen McMillen	1509 Prairie Dr BRYAN, TX	dmcputtz@yahoo.com
	Cecil Godwin	11800 Grand Pk Cypress TX 2021 Symphony Park Bryan TX 77802	832-494-7272

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

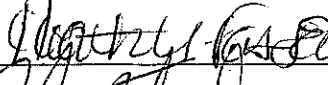


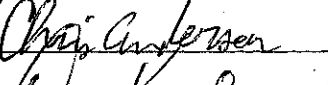

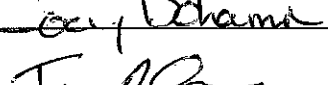
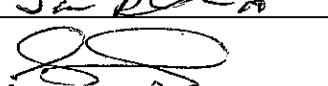
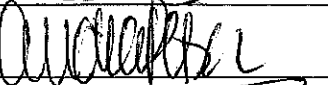
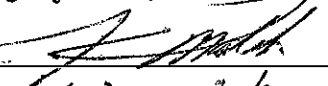

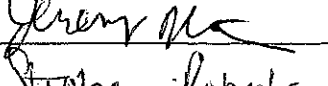
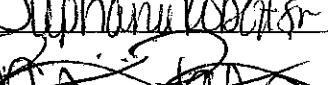
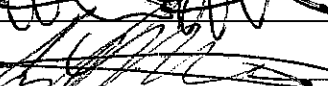
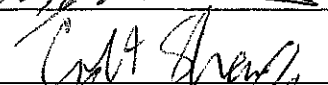

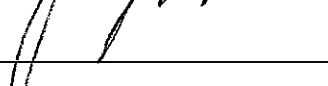
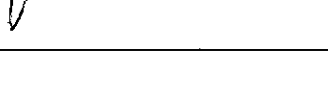
Signature	Printed Name	Address	E-Mail/Phone (optional)
	ROY G. COLE	4128 CRISZ BEDIAS TX 77831	
	BILL THORNAL	2200 STEVENS BRYAN - 77803	
	HANK BIRD	8391 GRASSBUR RD BRYAN 77808	stephollowfarms@yahoo.com 979 7773106
	C.R. Richards	4079 Barnhill Ln. Bryan, TX	
	Lois Williams	18570 Neane Macyra 77859	loismwilliams@ rocketmail.com
	JEFF WARD	8303 Sander Road BRYAN, TEXAS	
	ATON C. GIE	4090 Rendleton Dr Bryan, TX	
	Jason Wendler	8777 Ag. Drive College Station, TX	
	LEE BRAKEFIELD	11436 Lowb-Tressel BRYAN TX	
	Sigal Rozier	405 May ST BRYAN, TX 77802	
	Rusty Moore	16560 CR4821 Nonmanges TX	
	Milton L Woodall	5005 Commonwealth Ct College Station, TX 77845	
	CALVIN SCOSTA	7349 Box 8 R Ranch Rd BRYAN TX 77808	
	John Rowan	9379 Lightsey Ln College Station, TX 77845	
	Ronny L. Jones	4818 Old Reliance Rd Bryan TX 77808	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Heather [unclear]		832-656-8195
	Christ Houston		936-577-9906
	Jennifer Ordemann		
	Chris Anderson		281-413-1395
	Dean Kessler		281-703-6764
	Jay Bohannon		713-824-9152
	James Bohannon		713-824-7888
	Chris Kouska		281-731-9529
	Andrea Petersen		281-703-6233
	J.D. Malek		281-795-6608
	Tina Malek		713-906-0441
	Jeremy Nichols		979-703-5819
	Stephanie Roberts	2835 Brandywine Cr	703-5819
	Patricia Patten		910-987-0322
	Martinez, Crystal		910-987-1495
	Colton Shaw	Bryan TX 77808 11731 Woodley Cr	
	Jay White	C.S. 1102 Hawktree	979-739-5105

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Steve Tenorio	18690 E. OSR Hearne TX 77857	
	Shirley Bilsing	18746 E. OSR Hearne TX 77857	
	Michael Ray	18690 E. OSR HEARNE, TX 77857	
	Don Snook	6852 Jubilee Trail Ida TX 77861	
	Joshua Norris	9834 Hwy 39, N Normangee	
	A. ESCAMILLA	11649 Fm 1940	
	T MOON	11165 C Hopps Rd	
	Roni NOY	Nigee, TX	
	Charles Ford	wheelock, Tx	
	DOUG M ^{SR} BRIDE	C.S., TX 77845	
	W.A. Belsing	Box 159 Nigee Tx 77871	
	FLORA HARDIN	Normangee TX	
	Callie Maxwell	Nigee, TX	
	Damon Swain	Nigee, TX	
	Larry Marks	wheelock Tx	
	Sandra Smith	██████████ Franklin TX 77856	
	C. Scheidemantel		17992 FM 1452 W Normangee TX
	David Brunette	4231 Brunette Lane	
	Eugene Padgett	21492 Old Bundick Rd	
	Courtney Lenz	4628 N. Fm 2038	

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

COURTNEY LENZ 4590 N. FM
2038
Bryan, TX 77808

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Edmund H. Bush</i>	Ed Bush	512 Helena Bryan	
<i>Holly Gillar</i>	Holly Gillar	1418 Bermuda Ct. College Station	doberman456@yahoo.com
<i>John Gillar</i>	John Gillar	3807 Spring Hollow Bryan, TX 77802	—
<i>Mike Green</i>	MIKE GREEN	3111 ROLLING GLEN BRYAN, TX 77802	

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Allen Valente</i>	Allen Valente	7673 Old Reliance Rd BRYAN, TX 77808	
<i>Thomas Swiercz</i>	THOMAS SWIERCZ	2707 PIERRE PL COLL. STATION, 77845	
<i>Bernard F. Whittington</i>	BERNARD F. WHITTINGTON	555 SR CT NAVASOTA TEXAS 77	
<i>Charles A. Wendt</i>	CHARLES WENDT	4705 CR 160 TOLA, TX 77861	charleswendt@hotmail.com
<i>Don Williams</i>	Don Williams	19150 OSP Brazos	823-0878-324-8878
<i>Pat Shields</i>	Pat Shields	7173 FM 974 Bryan TX 77808	brazosvalleypat@yahoo.com
<i>Steven Keulenbrink</i>	Steven Keulenbrink	3883 Cliff Rd Bryan TX 77808	skeulenbrink@rt3vfd.com
<i>Clyde E. Beathard</i>	Clyde Beathard	3605 Shirley Drive Bryan TX, 77808	NONE
<i>Ray Kornhoff</i>	Ray Kornhoff	2200 Colony Circle Bryan TX 77808	
<i>Leslie Kornhoff</i>	Leslie Kornhoff	2200 Colony Cir Bryan TX 77808	
<i>Joe David</i>	Joe David	1758 DAVID HWY NORMANCE TX	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
Melissa Godwin	Melissa Godwin	2021 Symphony Park Bryan, TX 77802	missywells20@yahoo.com
Kristi Gibson	Kristi Gibson	3023 Elaine Dr Bryan, TX 77808	Kristi.Gibson@suddenlink.com
Jean Purhee	Jean Purhee	1201 Spence View Dr. Anderson, TX 77800	fabse@mystblue.net
Jenna Neveu	Jenna Neveu	4715 Huntington Dr. Bryan TX	jenna.neveu@suddenlink.com
Katy Stewart	Katy Stewart	PO Box 4041 Bryan, TX 77805	KatydStewart@hotmail.com
Mary Bergstrom	MARY BERGSTROM	12077 SARAH LN BRYAN TX 77807	Maryb56@gmail.com
Melissa Stricklin	Melissa Stricklin	Bryan, TX 77802	melissa.stricklin@suddenlink.com
Stacey Kussling	Stacey Kussling	4412 Spring Meadows CS 77746	tuffycree@yahoo.com
Darlene Missath	DARLENE MISSATH	P.O. BOX 123 C.S. TX 77841	DARLENE.MISSATH@suddenlink.com
Sara Pina	Sara Pina	4005 Southmont Trace Ct. CS TX 77845	sara.pina@suddenlink.com
Gertrude Wilson	Gertrude Wilson	P.O. Box	
Michael Feist	Michael Feist	3717 Shrinell Dr Bryan	Feist7205@yahoo.com

Petition:

Date: 4-19-2010

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.


Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Angela Bankston</i>	Angela Bankston	10079 CR 173 Ida, TX 77801	dabankston@gmail.com (979) 739-2077
<i>Lauren Liljestrand</i>	Lauren Liljestrand	2100 Windsor Dr. #14 Bryan, TX 77802	(979) 776-3568
<i>Reba Frazier</i>	Reba Frazier	8643 Ada Oaks Ln Anderson, TX 77830	(979) 218-7363
<i>Ruby Dean</i>	Ruby Dean	Bryan, TX 77802	
<i>C. Engleman</i>	C. Engleman	Bryan TX	
<i>A. Osborn</i>	A. Osborn	Bryan TX	
<i>Linda Lambert</i>	Linda Lambert	Bryan TX	979 778-1196
<i>Sterren Van Buren</i>	Sterren Van Buren	45261 Westbend Bryan TX 77803	
<i>Dana Vann</i>	Dana Vann	300 E. Buffalo Caldwell, TX 77836	979-567-1824

Petition:

Date: MAY 15 2010

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

* 

Signature	Printed Name	Address	E-Mail/Phone (optional)
Tom Moore	Tom Moore	1714 SERIAL LN CS 27840	tom@nclt-usa.com
Paula Moore	PAULA MOORE	1714 SERIAL LN COLLEGE STANDBY TX 77840	ralph+moore@yahoo.com
Wanda Steffy	Wanda Steffy	1714 SERIAL LN CS 27840	—

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

* PROPERTY OWNERS IS GRIMES COUNTY - KEITH, TX

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Gene Babendure</i>	ILENE BABENDURE	16132 FM 244 IOLA, TX 77861	ibabendure@yahoo.com
<i>Stuart Babendure</i>	STUART BABENDURE	16132 FM 244 IOLA, TX 77861	stbabendure@yahoo.com
<i>Justin Sloan</i>	Justin Sloan	16132 FM 244 Iola, TX 77861	JSloan64@rocketmail.com
<i>Bruce Wasnecke</i>	Bruce Wasnecke	16132 FM 244 Iola, TX 77861	zickvatt.bruce90@yahoo.com
<i>Melissa Bass</i>	Melissa Bass	13719 Fawn Oaks Trail Iola TX 77861	hauvtedangel_08@yahoo.com
<i>Justin Smith</i>	Justin Smith	3719 Fawn Oaks Trail, Iola, TX 77861	
<i>Joe Snook</i>	Joe Snook	5911 CR 110 Iola	JSnook@tamv.edu
<i>Gail Snook</i>	Gail Snook	5911 CR 110 Iola, TX 77861	gmkomar@aol.com
<i>H.B. Nelson</i>	GILPIN LANE	IOLA, TX 77861	NONE
<i>Don Glass</i>	3861 Co. Rd. 159	Bodias Texas	—
<i>Carolyn Glass</i>	3861 Co. Rd. 159	Bodias TX 77861	—
<i>James Nea</i>	James Nea	10853 Owl Tree Ln. Iola TX 77861	—
<i>Ruth Cunningham</i>	R.F. CUNNINGHAM	11794 ROESE RD, IOLA, TX - 77861	ROTHCUNNINGHAM@AOL.COM
<i>Ruth Cunningham</i>	Ruth Cunningham	11794 Roese Rd Iola, TX 77861	" " "
<i>William DeMarin</i>	WILLIAM DEMARIN	11843 Roese Rd IOLA TX 77861	
<i>Larry Hajewsky</i>	LARRY HAJEWSKY	12756 Smith Fork	
<i>Mike Hajek</i>	mike hajek	11243 Roese Rd 9678 John Rice	
<i>Jule Pecoraro</i>	Jule Pecoraro	9674 JOHN RICE	
<i>Pros Kime</i>	PROS KIME JON	9674 JOHN RICE	
<i>Paul Parker</i>	Paul Parker	3217 Wildlife CR.	

Petition:

Date: 4/16/10

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Stewart Sisco</i>	Stewart Sisco	12753 Sisco Ln, Bryan 77808	ssisco@cmhudsonconstruction.com 979-776-5739
<i>Williamae Sisco</i>	Williamae Sisco	2315 Avon Bryan, TX	979-779-2659
<i>Brenda Watson</i>	Brenda Watson	1511 Fairhaven, College St. 77845	979-890-6662
<i>Janed Wren Sisco</i>	Janed Wren Sisco	1104 Forest Glen Bryan 77803	(979) 218-2894
<i>Becky Sisco</i>	Becky Sisco	1104 Forest Glen Bryan 77803	(979) 218-8733
<i>Ernest Sisco</i>	Ernest Sisco	2465 Windsor Ave Bryan, TX 77802	(979) 776-0447
<i>Paul S Perrone</i>	Paul S Perrone	4208 Carter Creek	979-777-9299
<i>David Kinney</i>	DAVID KINNEY	PO 38 KUA TEX	979 589 3194
<i>Wilburn Coe</i>	WILBURN COE	7486 OLD RELIANCE RD	589-2958
<i>Carl Roesler</i>	CARL ROESLER	3811 WINDRIDGE Bryan Tx 77802	979 846-9013
<i>Lowell Jones</i>	LOWELL JONES	4829 Whispering Oaks College Station, TX 77845	NONE
<i>Edwin Dobbin</i>	Edwin Dobbin	6205 Stratford	NONE
<i>Wayland Vannoy</i>	WAYLAND VANNOY	3204 Woodcrest Dr.	NONE
<i>Kay Dobbin</i>	KAY DOBBINS	6205 Stratford TX 77802	
<i>Carolyn Baur</i>	CAROLYN BAUR	3403 Spring Lane 77802	
<i>James Joseph</i>	James Joseph	2018 Cedarwood 77801	979-823-1686
<i>C.E. Fink</i>	C.E. FINK	1303 Garden Ln Bryan	
<i>Carl Roesler</i>	ROESLER CORNAME	Bryan TX 3811 WINDRIDGE	979 846-9013
<i>Art Herwald</i>	ART HERWALD	2905 RUSTLING OAK BRYAN, TX	979-774-4701
<i>Jason James</i>	JASON JAMES	5720 Timberlon Bryan Tx 77802	
<i>Frankie Schu</i>	Frankie Schu	22050 CHDSO2 Bryan 77802	979-774-7220

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Eddie Sisco	13217 HCM. Cir. ⁷⁷⁸⁴⁵	
	CHRIS HOWARD	512 Bingham Valley ⁷⁷⁸⁰⁴	
	DAVID BEMO	707 E 32nd ⁷⁷⁸⁰⁸	
	Juan Arevalo	208 W. 17.5 ^{51407 TX}	
	JOHN WAIN	7739 W. HEATHY DEWESS ⁷⁷⁸⁰⁵	
	RICHARD JONES	9596 TALON CIR	
	MIKE BROWN	9649 BENSARKING	
	MICHAEL JENSEN	4458 TURK RANCA BL	
	Shannon Miner	6797 Koppe Br.	
	Alisha Minor	6797 Koppe Br.	
	Coley Powers	1136 Lynn Dr Bryon TX	
	Shelley Valerius	3609 Park Meadow ⁷⁷⁸⁰⁷	
	Janis Metcalf	3601 Park Meadow ⁷⁷⁸⁰²	
	Sandra Maddox	7109 Waverald ⁷⁷⁸⁷²	
	JIMMIE GRAY	8802 Denmark Rd	
	ABBY SISCO	2232 Rockingham Ln	
	Lilliana Cangelosi	1501 Copperfield Prwy #852	
	Carol Sisco	2232 Rockingham Ln	
	Betty Gray	8802 Denmark Rd	

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	ROLAND NEUSE	2709 COLONY GLEN BRYAN, TX 77808	RBNEUSE@SUDDENLINK.NET 979-703-5768
	DAE COCHRAN	POB 902 BRYAN TX 77808	ddc3293@PeoplePC.com
	CAROL WINSTAN	10550 OAK LAKE RD BRYAN, TX 77808	mawcatt1@ya.hoo.com 979-229-7941
	RON WINSTAN	10550 OAK LAKE RD BRYAN, TX 77808	BUYENSELL@YA.HOO.COM 979-229-6685
	DONALD WOERZ	8044 SCASTA RD. BRYAN, TX 77808	979-589-2018
	Joyce Snawder	3902 Esquire Ct. Bryan, TX 77808	979-778-0194
	JIM KAZMIERSKI	4104 Coventry Ct. Bryan, TX 77802	jaminsim68@excite.com 979-776-8277
	Stacie DeWitt	11024 Woodglen Cir. Bryan, TX 77808	mommahen1979@aol.com 979-774-0515
	Kevin Buchanan	1806 Hwy 2101 North Zulch, TX	
	Kelley Moore	1806 Hwy 2101 North Zulch, TX	979-492-9153
	Cheryl Hardy-Peaugh	11426 Woodglen Cir Bryan, TX 77808	979)7774476
	Glenn Peaugh	11426 11370 Woodglen Bryan, TX 77808	979)777-4476
	Edward J. White	4040 Danks Lane Bryan, TX 77808	edwardwhite@ymail.com 806-445-2799
	Christae Larned	2102 BIRCHWOOD DR College Station, TX 77845	larned@bellsouth.net 409-345-5528
	Lisa Jones	1206 Broadmoor Bryan, TX 77802	lisa@remaxbcs.com 979-255-7010
	DANNY CROCKER	8592 HWY 393 NORTH ZULCH TX 77572	
	RONNIE WHITE	4742 Johnson Crk. CS, TX 77845 Loop	
	Russell Sisco	2232 Rockingham CS TX 77845	Russisc@AOL.COM
	ANN	8592 HWY 39 NORTH ZULCH TX	
	HOPLY SISCO	505A LOONER COLLEGE STATION, TX	holly@sisco@tamu.edu

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Robert Jackson	3517 C.R. 159 ^{Bedias TX}	936-348-4970
	Debbie Smith	8688 Treebrook Ln. Bryan, TX 77808	979-776-7902
	Alwyn Hargett	6305 Jupiter Hills Court College Station, TX 77845	979 324-5162
	GARY FOSTER	6916 FM 1179 BRYAN, TX 77808	979-219-3119
	Jimmy Anderson	7604 St. Hwy 159 W Fayetteville TX. 78940	979.204-7292
	Alex Sanchez	3903 Elaine Tx	979-220-7385
	H. BATTEN	3105 Rolling Q/An	979-442-8326
	C. Mitchell	8334 Seastaird	
	DAVID TAYLOR	8262 STEEPHOLLOW RD	
	Cori Martin	1405 Stacy Navasota Tx	
	Casey Dacus	1405 Stacy Navasota Tx	
	Melanie Hawthorne	502 Brooks C.S. TX	
	Amanda Herrick	508 Brooks Ave. C.S. TX	979-575-9923
	Alan Field	549 Marino Rd #40	afield689@hotmail.com
	lesa Colson	506 Kyle C.S.	lesa@suddenlink.net
	TERESA COLSON	1501 Lynx Cove CS	
	CRAIG COLSON	1501 Lynx CS TX 77840	
	Sharon Colson	CS	
	Cannon Ray Amos	1116 Neal Pickett 77840	
	Cannon Ray Amos	3313 Westchester College Station TX 77845	ray@hearnesteel.com 979-696-3241

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Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Ruth A Thomas</i>	Ruth THOMAS	PO Box 245	NO FULTX 7330 CARYSIANNA
<i>J. Lacey Adams</i>	J. Lacey Adams	P.O. Box 356 Iola TX 77861	936-394-3661
<i>William J. Kottas</i>	William J. Kottas	4376 Roma 77845 R. Chapel Rd College Station	979-777 1769
<i>Taylor Dudley</i>	Taylor Dudley	8 loci Ln	979-204-2036
<i>Jeff Claudon</i>	Jeff Claudon	1111 S. Dexter College Station	
<i>Rick Rice</i>	Rick, E. Rice	7971 KENDALIA Holt TX 77036	rickerice@hotmail.com
<i>Keith Watson</i>	Keith Watson	1511 Fair Haven College Station TX 77845	kow012478@gmail.com
<i>Gary Zankovic</i>	Gary Zankovic	4112 Coventry Court Bryan, TX	979-255-0236
<i>Jane Dudley</i>	Jane Dudley	2 VISTA COLLEGE STATION TX	979-776-7222
<i>Richard Dudley</i>	Richard Dudley	2 VISTA LANE S. TX 77845	979 777 4464
<i>Brenda Childers</i>	Brenda Childers	3900 Sierra Ct	979-703-6263
<i>Michael Schoel</i>	Michael Schoel	4397 Clearview Trail College Station TX, 77845	
<i>Cody Holland</i>	Cody Holland	500 Brooks Ave	CHOLLAND@RMDUDLEYCONSTRUCTION.com
<i>Mark Ward</i>	Mark Ward	8603 CR 162, Iola, TX	
<i>Clara Ward</i>	Clara Ward	8603 CR 162, Iola, TX	
<i>James Linson</i>	James Linson	9500 White Oak Rd. 77845	
<i>Stan Stephen</i>	Stan Stephen	1630 Wylie Ln Franklin TX 77866	cell 979-820-1698
<i>Stan Stephen</i>	Stan Stephen	2514 Memorial Dr Bryan, TX 77802	
<i>Bruce Ryan</i>	Bruce Ryan	P.O. Box 375 Wellborn TX 77881	

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Petition:

MIKE BROWN, SR.

Date: 4/28/10

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>M Marsh</i>	MIKE MARSH	2310 Oxford Bryan	M MARSH 2310 @ AOL
<i>Glady Marsh</i>	Glady Marsh	2310 Oxford, Bryan	gmmarsh2310@aol.com
<i>Cindy Crawford</i>	Cindy Crawford	1400 DEERTRCT BRYAN,	N/A
<i>Charles Crawford</i>	CHARLES CRAWFORD	SAME AS ABOVE	979-279-0864
<i>Bethyann C. Zito</i>	Bethyann C. Zito	4019 Windswept CS, TX 77845	979-690-7278
<i>Rick Jacobs</i>	Rick Jacobs	9644 TAYLOR Rd BRYAN, TX. 77808	979 279-2218
<i>Jule Sed</i>	J. Sedlachek	2007 Kemmu Bryan TX 77807	9-79-779 0549
<i>Nili Tatchford</i>	Nili Tatchford	5010 Julie Cr. BRYAN, TX. 77807	979-822-4609
<i>Randy Harrison</i>	Randy Harrison	610 Highland St College Station 77840	979 -
<i>Beverly Ellis</i>	Beverly ELLIS		979 774-1549
<i>Jaem Ramirez</i>	Jaem Ramirez	1705 Beck St. BRYAN, TX.	979-229-6483
<i>Peggy Gooden</i>	Peggy Gooden	5409 LAKEVIEW	979 775-0908
<i>Renette Prejzelski</i>	RENETTE PREJZELSKI	APT #7 8807 WILDFLOWER DR	979-450-5917
<i>Heather Metzger</i>	Heather Metzger	3301 Providence Ave #404 Bryan 77803	979-571-7831
<i>Pat Ward</i>	PAT WARD	1701 DILLON AVE BRYAN, TX 77803	NONE
<i>Robert Ward</i>	Robert Ward	1761 DILLON AVE BRYAN, TX 77803	979-229-8532
<i>Mike Bradley</i>	MIKE BRADLEY	5633 MEE LN BOJALI TX.	979-255-2033
<i>Victoria Hunsicker</i>	Victoria Hunsicker	1010 Highland Street College Station 77805	979 574. 0874
<i>Arthur Montoya</i>	Arthur Montoya	PO Box 283	(979) 739-1414

Petition:

MIKE BROWN, SR.

Date: 4/28/10

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Michael E. Brown, SR.</i>	Michael E. BROWN, SR.	1107 ETTIE ST. BRYAN, TX. 77803	Michael.Brown@texmail.tamu.edu/979-402-1838
<i>Jose Labors</i>	JOSE LABORS	1910 BEDSON ST BRYAN TX	979-257-4174
<i>Pat Jacobs</i>	Pat Jacobs	9644 Taylor Rd Bryan TX 77808	
<i>Pedro Garcia, Jr.</i>	PEDRO GARCIA, JR.	399 EMMETT BRYAN TX 77802	
<i>Jim Carroll</i>	J. T. CARROLL	8601 ROLLINGWOOD C.S.T. 77845	
<i>Annita Escobedo</i>	ANNITA ESCOBEDO	9906 Millican Ave 4958 Winding Creek C.S. TX	amta@txcyber.com
<i>Grizelda S. Velasquez</i>	Grizelda Velasquez	4958 Winding Creek C.S. TX	
<i>Dennis Frispa</i>	Dennis FRISPA	4430 LEONARD RD BRYAN TX	
<i>Ricardo Alvarez</i>	Ricardo ALVAREZ	2121 PAINTERS DR BRYAN, TX 77807	
<i>John E. Velasquez</i>	John E. Velasquez	4958 Winding Creek C.S. TX 77845	979-776-1106 amta@txcyber.com
<i>Gary Stephen Munion II</i>	Gary Stephen Munion II	2317 N. East Rudder Hwy. Bryan, TX. 77803	979-255-7433
<i>Robert Beltrand</i>	Robert Beltrand	4762 Leonora Rd Bryan TX. 77807	979-739-0694
<i>Kerry Thomas</i>	Kerry Thomas	1721 Beaver Ford Ct Bryan TX 77807	979-676-3453
<i>William Oliver</i>	WILLIAM OLIVER	867 FAIRWAY BRYAN, TX 77801	
<i>John Parris</i>	John Parris	5540 Lynette Cir Bryan TX 77807	
<i>Jerry Bonadina</i>	Jerry Bonadina	4980 LEONARD RD BRYAN, TX 77807	979-255-0923
<i>Louis Massey</i>	Louis Massey	4065 Brown Ln.	
<i>Stanley Tubbs</i>	STANLEY TUBBS	3030 Rm -	
<i>Bruce Cowley</i>	Bruce Cowley	2710 Hardy Dr EAST	979-778-2328

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	MARTY CARMLINE	22 LA JOLLA MONTGOMERY TX 77856	mcarmline@kmc.net 936-582-4468
	Russ McKinney	3511 WILSPECINE BROOK KINGWOOD, TX 7845	rmckinney@kmc.net
	Lindsey Bottine	18145 Copper River College Station, TX	lindsey@kmc.net
	MELVEN BELT	23232 WINTER OOK S.A. TX 78260	mbelt@kmc.net
	Cerene Wharton	1118 Austin Ave College Station, TX	hewharton@verizon.net
	Harry Wharton	1118 Austin Ave College Stat. TX 77845	hewharton@verizon.net
	TIM KLOVENSKI	5906 Hawkes Bay CT EATON, TX 77494	tklovenski@kmc.net
	MARK SHAVER	21330 PARK ROYALE DR KATY TX 77450	MESHAVERC@GMAIL.COM
	Bill Pierce	4118 Keystone St Garland, TX 75041	bpierce@kmc.net 979-46574-4669
	Michael F. Joiner	5207 Bloomsbury way. Bryan, TX. 77801	mjoiner@kmc.net.
	Denise Joiner	5207 Bloomsbury way Bryan, TX 77802	djoiner@firstvictoria.com (979) 774-1701
	Terrell Sims	210 Aster Dr. Sanger, TX 76266	tsims@cleartrac.net (979) 224-6624
	Shawn Locke	17697 Dakota Ridge College Station TX 77845	(979) 220-3974 slocke@tamv.edu
	Dana Locke	17697 Dakota Ridge College Station, TX 77845	dlocke@kmc.net
	Terese Gallier	12700 WICKSON LAKE RD Bryan, TX 77808	gallier@mssblue.net
	JACK L. MARINO SR	7808 22 HILLS RD GAUSE, TX 77857	jmarino@kmc.net
	TONY SALVAGGIO	2104 Hentley Dr. Round Rock, TX 78681	TSALVAGGIO@KMC.NET
	ERIK J CARTER	5310 Ballybenain Ct College Station, TX 77845	ecarter@kmc.net
	Dale Tolmoff	1203 Esther Blvd Bryan, TX 77802	dtolmoff@kmc.net

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Signature	Printed Name	Address	State	E-Mail/Phone (optional)
<i>John R. Porter</i>	John R. Porter	14102 Long Dr	TX 77861	
<i>Ross A. Jaster</i>	Ross A Jaster	9525 John Rice Dr	Iola, TX 77861	
<i>Logan Halley</i>	Logan Halley	750 9806 Cr 172	Iola TX, 77861	
<i>James DeJin</i>	James DeJin	11026 FM 244	Anderson TX 77830	
<i>Freddie Johnson</i>	Freddie Johnson	7529 Hwy 30	Anderson TX 77830	
<i>Travis Vesper</i>	Travis Vesper	15975 CR 161	Iola TX 77861	
<i>Dave Hostear</i>	Dave Hostear	8892 Co R 192		
<i>Kathy Barfield</i>	Kathy Barfield	13844 Bluebonnet	Iola TX 77861	
<i>R-Todd Barfield</i>	R-Todd Barfield	13844 Bluebonnet	IOLA TX 77861	
<i>Ernie Gibson</i>	Ernie Gibson	Po box 416	IOLA TX 77861	
<i>Fred McDonald</i>	Fred McDonald	13588 FM 244	Iola TX 77861	936-825-5262
<i>John Criz</i>	John Criz	12266 12266 CR 103	IOLA TX 77861	936-344-4512
<i>Willie Wilson</i>	Willie Wilson	13533 Blue Bonnet	Iola TX 77861	979-595-8478
<i>Pat Wilson</i>	Pat Wilson	13533 Blue Bonnet	Iola TX 77861	979-820-2197
<i>Kayla Bell</i>	Kayla Bell	7072 CR 118A	Iola, TX 77861	
<i>Victoria Turkington</i>	Victoria Turkington	24433 Fm 39	Iola, TX 77861	
<i>Terrell Roberts</i>	TERRELL ROBERTSON	11706 John Rice Dr	Iola, Tex	979-436-4560
<i>Patricia Robertson</i>	Patricia Robertson	"	"	979-436-4560
<i>Dexter Lavender</i>	Dexter Lavender	4248 CR 123	Anderson	936-873-2934
<i>Bobby Halley</i>	Bobby Halley	9806 CR 172	Iola, TX 77861	
<i>Tina Miller</i>	Tina Miller	33385 Colorado Ave	Iola TX 77861	Miller6578@yahoo.com
<i>Jasine Korpel</i>	JASINE Korpel	2869 CR 103	Iola TX 77861	512 635 8885

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

Must have by April 20 to take to Waco
 We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Richard Condy</i>	Richard Condy	12326 Woodside Lane Jola TX 77861	
<i>Brandon McClarnon</i>	Brandon McClarnon	6821 Jubilee trail Jola TX 77861	
<i>Betty Hodges</i>	Betty Hodges	3647 Old Barker Rd. C.S., TX 77845	
<i>S. S.</i>	Susan Ybarra	10205 Fm 244 Anderson TX 77830	
<i>Cassie Sims</i>	Cassie Sims	6821 Jubilee Trail Jola TX 77861	
<i>David Gbeyo</i>	David	5311 CR 168 Jola TX	
<i>Shawn Walker</i>	Shawn Walker	3180 C. Ann Rd. CS P.O. Box 542 Anderson TX 77830	
<i>Robert Trim</i>	Robert Trim	6447 Oak Hill Ln	
<i>Myale McQuinn</i>			
<i>Scott Bishop</i>	Scott Bishop	14023 Long Dr	
<i>Mike Duv</i>	Mike Duv	7051 CR 162, Jola	
<i>Paul A. Castle</i>	Paul	13689 Holly Lynn Lane Jola TX 77861	
<i>Trevor F.</i>	Trevor F.	13702 Hwy 244 Jola TX 77861	
<i>Cynthia Stought</i>	Cynthia Stought	7570 Hwy 30 Anderson, TX 77830	
<i>Tara McClarnon</i>	Tara McClarnon	6821 Jubilee Trl Jola TX 77861	
<i>Tambra Wilson</i>	Tambra Wilson	13533B Bluebonnet Ln Jola TX 77861	
<i>David Cook</i>	DAVID COOK	8328 CR 192, ANDERSON TX 77830	
<i>Edith Walpole</i>	Edith Walpole	8353 Gilpin Ln Jola, TX 77861	Edith.Walpole@gmail.com
<i>Rebbie Brooks</i>	Rebbie Brooks	3625 Wellborn #704 Bryan TX 77801	ladybrooks42@yahoo.com
<i>Cliff Diamond</i>	Cliff Diamond	2004 St. 171 Anderson TX 77830	
<i>Bobby Trant</i>	Bobby Trant	13769 Fm 244 Jola, TX 77861	

Petition:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>James Roy Trent</i>	James Roy Trent	17988 ^{Tola} FM 244	(936) 825-5577
<i>Sue Gaylor</i>	Sue Gaylor	13808 Long Drive Tola, TX	936-355-0856
<i>Jud Dyer</i>	JUD Dyer	12748 John Rice Tola	936-394-5204
<i>Jonathan Cohen</i>	Jonathan Cohen	9591 Still Meadow Ln 7927 C.R. 109	979 204 6866
<i>Mitchell C. McCaughey</i>	Mitchell C. McCaughey		936-870-8779
<i>Russell Kline</i>	Russell Kline	12362 John Rice dr	936-394-1826
<i>Mike Wethington</i>	Mike Wethington	702 E. Sublett Dr.	936-394-2911
<i>William H. ...</i>			936 521 9588
<i>Melissa Kay</i>	Melissa Kay	18697 FM 244 ^{Tola,} TX 77861	(979) 229-1775
<i>Jennifer Fisher</i>	Jennifer Fisher	7590 Breeze road	936-394-9066
<i>Jim Fisher</i>	Jim Fisher	7590 Breeze road	979-450-6864
<i>Billy Braaton</i>	Billy Braaton	3638 Clark	979 587-1109
<i>Shawn Dyer</i>	Shawn Dyer	John Rice Rd	936-394-8964
<i>Andrew Dyer</i>	Andrew Dyer	John Rice Rd	936-394-8964
<i>Angel M. Delgado</i>	Angel M. Delgado	FM 944	936-394-2513
<i>Jean Herrera</i>	Jean Herrera	16634 FM 1244	394-2513
<i>Joyce Crump</i>	Joyce Crump	9187 ^{Tola, Texas}	394-1806
<i>Mary Freeman</i>	Mary Freeman	8394 Mendenhall Rd	979-220-9074
<i>James Carroll</i>	James Carroll	11679 John Rice	832-206-1952

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Alice Longley</i>	Alice Longley	9355 Panther CK	979-224-1294
<i>Sandra Kirby</i>	Sandra Kirby	9558 Panther Creek Rd	936-394-2071
<i>Matt Cory</i>	Matt Cory	10417 Cottonker.1 LN.	936-394-3020
<i>Doug Jones</i>	Doug Jones	22531 FM 39, IOLA	936-394-2539
<i>Hollie Roberts</i>	Hollie Roberts	6750 CR-111 IOLA TX	979-219-4002
<i>Linda Terry</i>	Linda Terry	9142 Panther Crk, Iola	936-349-3213
<i>Bill Balange</i>	BILLY BALANGE	7256 RIVER OAK PT	936-394-2205
<i>J.R. Maxwell</i>	J.R. MAXWELL	14306 FM 244 IOLA	936-394-8273
<i>E.E. Mathews</i>	E.E. MATHEWS	17717 FM 39 BEDIAS	936 394 6203
<i>Randy Bishop</i>	Randy Bishop	PO # 157 IOLA	779-220-5831
<i>R. Painter</i>	RAY POINTER	14866 FM 294 IOLA	936-394-2434
<i>Don Gaylor</i>	DON GAYLOR	13868 WOOD DR	936-394-2458
<i>Valerie Pitts</i>	Valerie Pitts	10354 Schn Prof Dr	936-395-2724
<i>Billy Pitts</i>	Billy Pitts	10554 JOHN RICE DR IOLA	210-488-1642
<i>Stevie Poy</i>	Stevie Poy	PO BOX 1184 IOLA TX 77842	979-324-2322
<i>Nikki Williams</i>	NIKKI WILLIAMS	PO BOX 11 IOLA TX	936-714-5198
<i>Will Hayes</i>	Will Hayes	10 Queens Ct Conroe TX 77304	936-539-2833
<i>Pat Hayes</i>	PAT HAYES	10 Queens Ct Conroe TX 77304	713-806-7408
<i>Jean Biggs</i>	Jean Biggs	10015 CR 175 Iola TX Box 416	936-394-2512
<i>Steve Biggs</i>	Steve Biggs	10015 CR 175 Iola, TX	936-394-2512
<i>John Bertling</i>	JOHN BERTLING	14754 FM 39 IOLA	936-394-8981

Petition:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Debra Ames	3313 Westchester C.S. 77845	(979) 696-3241
	Jim Sampson	2909 Bolero Ct., CS 77845	
	Cynde Sampson	2909 Bolero Ct., CS 77845	979-693-4313
	Jonathan Kippel	3406 Wildcove Dr. College Station, TX 77845	
	Manan Marwaha	3033 FM 974 Bryan, TX 77808	
	Scott Sampson	3406 Wildcove Dr. College Station, TX 77845 Bryan TX	
	Olga Villanueva	814 Banks Apt 2880	
	Dirk Seifert	11520 Deer Creek C.S., TX 77845	
	Douglas M. Kingman	4508 Amberstone C.S. Texas 77845	979-690-7570
	Kathryn Wilt	12325 Long Trussel	Kat@bells.com (512) 633-7563
	Kyle D. Smith	7600 Riley Rd	
	Thomas Boyd	City Glass	936-494-9318
	Harold Campbell	5109 Congressional Dr.	979-571-3880
	Robert Holliday	3517 CO RD 159	936-245-9040
	Doyle Evans Jr.	3377 Green Prairie	979 690 3326
	David Wright	13817 Alania Ct	979-690-3717
	TROY LANSTON	4475 CARTER CREEK	
	Sammy Rotello	718 GRIMES NAVASOTA	936-672-2439

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	B.J. Minor	14020 Renneln	minorranch1@netzone.com
	Amanda Putz	3002 Meadowlark Dr. Bryan	aputz@stx.gov
	Shanae Vick	542351 Gussard Rd C.S. TX 77845	shanaevick@yahoo.com
	Margie N. Boyd	5245 Straub C.S. TX 77845	margie@boylreadymif.com
	Stephanie Meek	P.O. Box 283 Wellborn, Tx 77881	Teppy_25@msw.com
	Shannon Minor	6797 Koppe Br.	N/A
	Colton Horn	6817 koppe Br.	
	Marie Anaya	6817 Koppe Br.	
	Kelly Wigginton	1279 Peach Creek Ct Off	NA
	HANK FINN	3135 CLEARSKY CT. LEAGUE CITY, TX 77573	hankfinn@verizon.net
	Clint Ashcraft	301 S. Gordon Bryan Tx 77802	
	Jacob Madala	2403 Longview Apt 1 College Station	
	Gerry Burkhardt	3101 Red Robin Bryan Tx 77806	
	GERRY BURKHARDT	10414 WENDING TRAIL LA PORTE, TX 77571	

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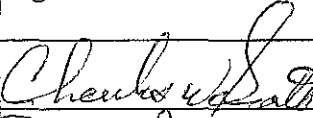
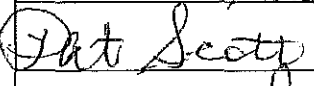
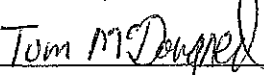
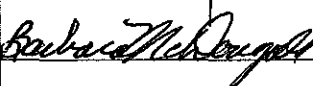
Signature	Printed Name	Address	E-Mail/Phone (optional)
	Ky Brownlee	P.O. Box 279 Iola, TX 77861	
	Hugh Pointer	8795 CR 121 Iola Tx 77867	
	Tony Compian	7679 CR 162 Iola TX 77861	
	Wade House	9075 CR 174 Anderson TX 77833	
	Christie Signell	Iola, TX 77861	
	Kellirine McWhorter	P.O. Box 384 Iola TX 77861	
	DANIEL MUNDY	7235 COMMERCE IOLA TX	
	Justin Fairbanks	13181 Oak Dr. Iola TX	
	Floyd Whitman	1217 Koenigswine Rd, Iola, TX 77861	Floydsshit@live.com
	Cindy Chesnut	6536 Home Ln. Iola TX 77861	
	Winn Murphy	13700 Fm 244 Iola TX 77861	winn-murphy@yahoo.com
	PAULA FISHER	10512 FM 244 IOLA	PAULA KF 8 @HOTMAIL.COM
	HEATHER LAMORE	13114 Fawn Hills IOLA, TX 77861	hlamoresil@aol.com
	Burl Richardson	13228 Oak Drive, Iola, TX Mail Add: 724 Inwood, Bryan, TX 77802	
	Travis Cleere	4359 CR 180 Iola TX 77861	
	Deborah Edge	12906 CR 175 Iola, TX 77861	
	Jesse Edge	12906 CR 175 Iola, TX 77861	
	PAUL TADDER	15412 Fm 244 IOLA TX 77861	FIRE1UP-2000@YAHOO.COM
	GARY SPIVEY	50929 CR 127 IOLA TX 77861	SPIVEYGW@gmail.com
	Tammy Scitbird	10867 Reese Rd Iola, TX 77861	

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	Charles W Scott	19886 Hwy 244 IOLA, TEXAS	CWSCOTT01@gmail.com
	PAT Scott	19886 FM 244 IOLA, TX	poppynavasott@gmail.com
	Tom McDougald	20551 FM 39 Iola, TX 77861	
	Barbara McDougald	20551 FM 39 IOLA, TX 77861	

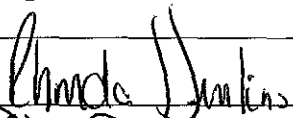

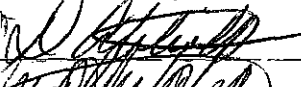


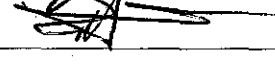
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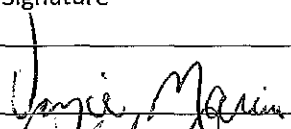



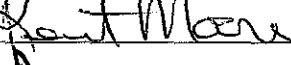


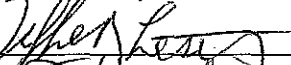
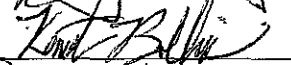

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Rhonda Jenkins	15 Roundbrook	210-954-0173
	Dustin Gallimore	E Nakoma	214-267-3908
	Debbie Abbott	11815 Louise Ave	210-842-0959
	Mary J Gustafson	New Braunfels, TX	830-708-6273
	Bobby Green	Buda	512-704-4806
	Richard Monte	San Antonio	210-859-7504

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	VINIE MARINO	3717 PARK MEADOW LN BRYAN, TX 77802	VMARINO @ KMC.NET
	Deborah Daw	1306 MULLINS LOOP, College Station TX 77845	DDAW@KMC.NET
	Sylvia Dumas	2801 Jennifer Dr College Station TX 77845	sdumas @Kmc.net
	James T. Spencer	2815 MANZANO Cb. PO 77845	JSPENCER@KMC.NET
	KENT MOORE	10831 SANDUST LANCH RD TOLA, TX 77861	KMOORE @ KMC.NET
	James Dixon	9169 CR 121 Tola TX 77861	JDIXON @ Cleartrac.net
	Clark Smith	1001 Krenak Tapra APT 802 @CS, TX 77840	csmith @ cleartrac.net
	JEFF LESTER	227 ELKINS LK HUNTSVILLE, TX 77340	jlester_99@SBCGLOBAL.net
	Kenneth Bolline	18195 Copper River College Station	KBolline@KMC.net
	Debra K Moore	10831 Sandust Lanch Rd Tola TX 77861	debbie@kmc.net

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	SHERLEY L WILCOX	14725 BOGOTA DR. IOLA TX 77861	

	Bruce Gattlin	7729 Hwy 30 Anderson TX 77830	
	Steven Hape	9485 Fm 244 Anderson	
	Earl Swagerd	20947 Fm 2 E.	JBS/A/V/R/Holmes (1.000)
	Daisy Flores	7941 Rambling Ln Anderson	
	Louis Fuller	7941 Rambling Ln Anderson Texas	
	Kelen Evans	18033 CR 164 Iola TX	
	DARREN BLAIR	8838 LAKECREST MONTGOMERY, TX	
	CURTIS BRADFORD	IOLA 14032 BLANNET LN 77861	
	Brian Stagner	Anderson TX 7575 Hwy 30 77830	
	RAY JONES	7721 Jubilee TR	
	Carol Walkovitz	2334 Colorado St	
	K Kelly	7857 SUNBELT RD	
	SHAW NEW STEINER	7294 DREZLEWOOD DR	
	Kenta Kruse	201 Kenta Top Rd #57	
	April Tyler	12717 John Rice Dr. Iola	atylet@Drazosdocs.com
	Sandy Stein	7173 Pawncakes Rd Iola TX 77861	
	CHRIS COULTER	21515 Fm 244 Folo, Tx 77861	Chris-Coulter@yahoo.com
	Gwendolyn Jaster	9525 John Rice Dr. Iola, TX 77861	

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	HEBRON	1210 South ^{South} St	979 823-8714
	Del Rodriguez	400 S. BRAZOS	979-595 75 72
	Paul M Rodriguez	400 S. Brazos	979 595 7572
	Marcia Yon	405 W 27th	979-775-0541
	HARRY YON	405 W 27th	/ /
	Randall Carter	715 Banks Ave	(979) 703-6497
	Jeff Sparks	118 S. Bryan	979 777 4249
	LISA Bailey	1110 Travis St.	(979) 822-2291
	MIKE MUSE	3117 WARDVILLE #C	979-574 7831
	Juan Reyes	1331 Virginia St.	571-1194
	Eduardo Lucio	1211 Hazel	575-4603
MARTIN GUERRA	MARTIN GUERRA	10 10 SOUTH ST.	—
	Cran Bennett	3707 Park Row	—
	Troy U'Brien	14395 Hwy 105	
	Tony Lama	2500 Central Park	
	Lane Bryan	311 Day Bryan	
	Willard Bell	1508 Hollis Hill Dr	979-822 6782
	David Richard	930 Beaver Creek TX Caldwell	—
	Sheila Schulz	9546 Harris Rd Bryan TX 77808	979-777-1589
	Latoshia Hysan	1314 Pecan St Wenatchee	979-739-2141

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Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Bridget Sebasta</i>	Bridget Sebasta	PO Box 2626 Bryan, TX 77805	bsebasta@cvm.tamu.edu 979-220-3634 (cell)
<i>Tricia Maginn</i>	Tricia Maginn	3800 Barnsley Ct Bryan, TX 77802	tmaginn@cvm.tamu.edu (979) 324-7273
<i>Lisa Howe</i>	LISA HOWE	7385 FM 244 Anderson, TX 77830	lhowe@cvm.tamu.edu 979.571.6177
<i>Rusty Ponder</i>	Rusty Ponder	12488 S. Fork Ln. Iola, TX 77861	
<i>Joeri Steiner</i>	JOERI STEINER	13158 VALLEY CTR COLLEGE STATION, TX 77845	JSTEINER@LVA.TAMU.EDU 979-690-0197
<i>Sherril Hermas</i>	Sherril Hermas	P.O. Box 315 Caldwell, TX 77836	
<i>N.H. Hubson</i>	N.H. Hubson	4591 Sandpiper Ave College Station, TX 77845	
<i>Edith A. Chenault</i>	Edith A. Chenault	P.O. Box 474 Millican, TX 77866	936/825-2902
<i>Scottie Flores</i>	Scottie Flores	10211 CR 174 Anderson, TX 77830	sflores@cvm.tamu.edu
<i>Kathleen Conway</i>	KATHLEEN CONWAY	9578 CR 172 IOLA, TX 77861	chaoskcc@txcyber.com
<i>Robert J. Taylor</i>	Robert J. Taylor	9576 Camp Arrowmoor, Hearne 77859	rtaylor@cvm.tamu.edu
<i>Echo Thomson</i>	Echo Thomson	33104 Pleasant Forest Drive College Station, TX 77845	(979) 820-1651 Echo_Thomson@yahoo.com
<i>Janice Coutts</i>	Janice Coutts	2010 CR 339 Caldwell TX 77836	bjcouts09@gmail.com 979.567.0484
<i>Lori Kessler</i>	Lori Kessler	5016 PIPER LANE COLLEGE STATION, TX 77845	
<i>Mary H. Sanders</i>	MARY H SANDERS	1406 Magnolia CS, TX 77840	
<i>Karen Brasley</i>	KAREN BRASLEY	1431 DUNKIN AVE C.S. TX 77845	kegb83@aol.com
<i>Elaine Lippard</i>	Elaine Lippard	9647 Harris Rd Bryan TX 77808	elippard@cvm.tamu.edu
<i>Michael Gilchrist</i>	Michael Gilchrist	4644 Harris Rd Bryan TX 77808	
<i>Lucy Siegel-Wood</i>	Lucy Siegel-Wood	3605 Holly Ln Bryan TX 77802	lwood@cvm.tamu.edu

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	Marcia Zemanek	4944 Cole Lane CS	MZemanek@cvm.tamu.edu
	Dana Cornett	8171 FM 974 Bryan	dcornett@cvm.tamu.edu
	Diane McCleary	3649 Barron Cut-off CS 2906 Briarcreek Ct.	dmcclary@cvm.tamu.edu
	L Zepeda	Bryan, TX 77802	LZepeda@cvm.tamu.edu
	TARA Modisette	2437 Colgate College Station 77840	tmodisette@cvm.tamu.edu
	STEPHANIE BATTEN	1411 Holik Dr College Station, TX 77840	sbatten@cvm.tamu.edu
	Debra D. Turner	77802 3709 Eastshire Ct Bryan	ddturner@cvm.tamu.edu
	Tina Karkoska	2467 Sundance Rd Navasota, TX 77868	tkarkoska@cvm.tamu.edu
	S. Dawn Currin	7931 Shady Lane Bryan TX 77808	dcurrin@cvm.tamu.edu
	SUSAN PAYNE	1606 Blue Quail Ln College Station TX	spayne33@suddenlink.net
	Charlotte A Allen	4504 Sutton Bryan, TX	callen@cvm.tamu.edu
	Catherine Morrill	1506 Bluefield Ct College Station TX 77845	cpfent@cvm.tamu.edu
	E. Welch	405 Leslie Dr Bryan	
	Arline K. Reiter	8787 Runaway Rd. College Station TX 77845	areiter@cvm.tamu.edu
	CHRIS M. SEABURY	8427 Turkkilock loop	CSeabury@cvm.tamu.edu
	SANJAY REDDY	1109 Mission Hills College Station 77845	SREDDY_TX@yahoo.com
	MIKE CRISCITELLO	711 Royal Adelaide College Station TX DR 77845	MCRISCITELLO@cvm.tamu.edu

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	ALBERT ESCAMILLA	11049 Fm 1940 Franklin TX 77856	479-828-5948
	Clifford L. Baggett	6280 CR 165 Tulsa, TX 77861	979-219-2603
	Anthony Dibrell	Norman - Co TX 44 McADOWOOD DRIVE HILLTOPPING TX	936 348 0531
	Kenneth Henderson	13543 E. R. 482 Normangee, TX 77871	936 855 1889
	LARRY HALE	2066 DAVID LN. Normangee TX 77871	936 855 9929
	Tim Tarnewski	10367 CR 495 MARK DIRECT TX	936-396-3904
	RAY SILLS	315 NORTH FIRST STREET (Normangee)	NA
	Coli Sharp	385 FINEST STREET NORMANGEE	NA
	Matt Fish	125 Crete Street Normangee	NA
	JAMES ANNUS	429 7th Street 1169 CR 112	936-396-6463
	Sean Burnett	Centerville, TX 25833	903-536-3976
	Michael Lund	8257 CIL 103 1019 TX 77861	936 870-6620
	Leeland Sanford	4565 CR 157 Bedias TX 77831	936-394-2005
	Chaz Rojas	8831 Cobb Ranch Franklin TX 77856	989-388-1968
	Ed FINSTUN	#76 GOLFVIEW HILLTOPPING TX 77871	936-855-1946
	Jacky Dibrell	125 Crete Street	936-396-1426
	Scheideman	FR 452	936 396 3421
	Kelly Miller	6497 S. Fm 46 Franklin, TX 77856	979-828-2604

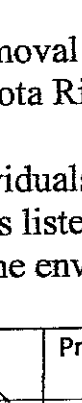
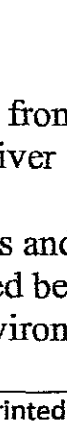
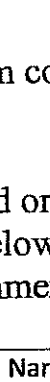
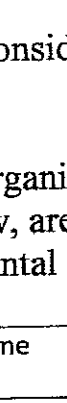
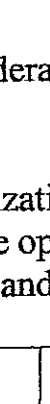
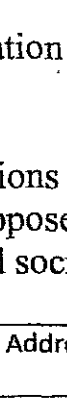
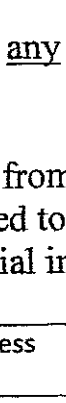
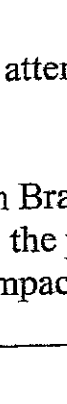
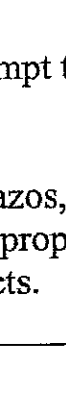
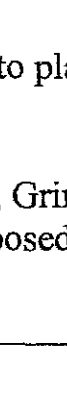
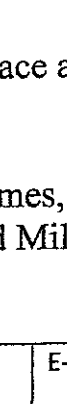
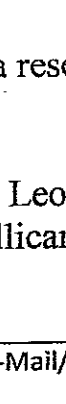
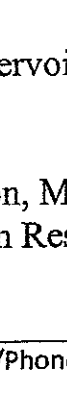
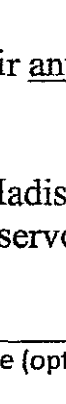
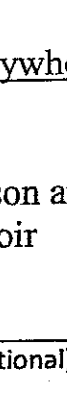
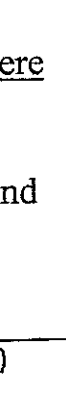
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Signature	Printed Name	Address	E-Mail/Phone (optional)
	GARY BANTA	11137 Fm 943 Livingston TX	
	Kathy Tillis	11111 Fm 943 Liv. TX	
	Ray Dean	11111 Fm 943 Liv. TX	
	SAMUEL D. DEAN	11111 FM 943 Liv. TX	
	Darrell Breazeale	13322 Fm 943 Livingston	
	Betty S. Dean	P.O. Box 166 ^{Dallardsville} TX 77332	
	Samantha ^{Dean}	P.O. Box 116 ^{Dallardsville} TX 77332	
	Brendon Browder	P.O. Box 276 Warren TX 77664	
	TOR LENOX	9948 FM 1376 LIVINGSTON 77351	
	J LENOX	320 DICKEYS LIV TX 77351	
	V LENOX	396 DICKEYS LIV. TX 77351	
	Curtis Dorman	262 ^{Seamless Area Rd} Livingston	
	Michelle Renfro	10436 FM 943 Livingston Tx 77351	
	Auther Renfro	10436 FM 943 Livingston Tx 77351	
	Jimmy Dean	6537 S. 112th E. Ave Tulsa, OK 74133	
	Kirsten Dean	6537 S 112th E Ave Tulsa OK 74133	

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	JEFF McKEOWN	18614 PARTNERS VOICE	JEFF@CHRISBEANCUSTOMPOOLS.NET
	Tim Nichols	1111 GRANT RD #1224	Tim@CARibeansCUSTOMPOOLS.NET
	Joe DITOLLA	14218 BOERNE COUNTRY	-
	Jana Matthews	15439 Baytree	
	KATHERINE Ditolla	14218 BOERNE County	
	Terese McKenzie	18614 Partners Voice	
	Peggy Bray	1815114 Stable Oak Dr	
	Bill Bray	15114 Stable Oak Dr	
	Cynthia Wyman	1719 Southwick St. 22819 Gold Leaf Trl	Cyndi@destincconstruction.com
	Denise Smith	Cypress, TX 77433	denise@destincconstruction.com
	Jonathan Smith	Same as above ↑	Destinpps@yahoo.com
	Sylvia SPEER	1719 Southwick	Sylvia@destincconstruction.com
	Diane Sitsen	36723 S. HOLLYCROFTS C.	
	Jason Brown	15511 Stable Park Ct	JASOUBROWN@ATTN.COM 77429
	Matt Sitsen	7206 BONNINGTON, PINEIS, TX 75214	MATTSITSEN@GMAIL.COM
	Jenn Weathers	15402 Forest Creek Farms Cypress, TX 77429	jweathers125@yahoo.com
	Skip Weathers	Same as above ↑ 5114 WESTWOOD PINES	
	ZACHARY L. DAVIDSON	KATY, TX 77449	XENO333@SBCGLOBAL.NET

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Darlene F. Mawt	13169 FM 244	Jola, TX 77861
	Deborah Kelly	POB 1303 Hilltop	Lakes, TX 77871
	Eli Schott	3391 CR 271	Mico TX 78056
	FRED PEREZ	3132 E 7th St # 17	Bryan TX 77802
	Maria Palomo	2412 Waberson	
	JACQUES FOX	4409 Spring Meadow	Jacques Fox 1 Pyattco-2017
	J. Brewer	8310 Shadow Oaks	CS, TX
	C Oyer	4426 Kirkwood	cooyer@bryantisd.org
	Colby Arwalo		
	Aaron Eike	7745 Hidden Trail	
	Chad Donbrent	4803 Trendy-ld	
	Audrey Ballard	8300 niley rd	
	Cody Meier	1100 Broadmoor	
	Brady Callen		

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Rick Snowden	3602 Holly ^{Bryan} TX 77802	snowden@txcyber.com
	Allison Snowden	3602 Holly ^{Bryan} TX	---
	Garrett Snowden	3602 Holly ^{Bryan} TX	---
	Tucker Hicks	4305 Newcastle ^{Bryan} TX	TS14004@shsu.edu
	Beckie Olexey	1008C Autumn Cir C.S. TX 77840	olexey2a@yahoo.com (979) 777-9508
	Brandon Huns	4115 McFarland CS, TX 77845	bhuns@neo.taw.edu
	Krystal Mugaro	3803 Welbern Rd. Apt 27 Bryan, TX 77801	Blackpeniber0685@aol.com
	Brandon DOREN	1903 Manning Way	
	Drew Congleton	240 Green Cove Montgomery TX 77356	drew@consolidated.net (936) 520-4180
	Judd Peas	3623 Elaine Dr. Bryan, TX 77808	
	Ryan Johnson	1412 Blount D. College St., Tx 77845	
	Ryan Alimon	2910 Woodmeadow BRYAN TX 77802	rma08ufc@gmail.com
	OLIVIA CAVALLAS	2400 WINDSOR DR BRYAN TX 77802	
	David Peave	6516 Waterway Dr. Bryan TX 77802	
	ROSS BELLARD		
	David Beal		
	Chris Biggs	807 Braeswood Cir Bryan 77802	
	Michael Gibson	15300A Silver Springs College St, TX 77805	
	Chris Collins	1511 Kernstown TX College Station 77845	
	Robert Jesurun	2906 Chaparral TX 77802	

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Anna Neff	4800 Red Rock	
	Laura Stephenson	2412 Pleasant	laura2412@suddenlink.net
	Lisa Rothfuss	1303 Norfolk Court ^{Rose}	lrothfuss@yahoo.com
	Graye Kay	19170 FM 244 ^{Fols.} 77861	gbestkids@gmail.com
	David Morles	1000 Balcon D.	dmorles@bryanisd.org
	S. Mondes-Torres	1593 Woodbine Ct 77802	smontestorres@bryanisd.org
	Veronica Lozano	3902 Bridgeberry ⁷⁷⁸⁴⁵ CIS TX 77845	treviso.lozano@gmail.com
	Sherry Gardner	1501 Copperfield Pkwy, Apt 524	
	Mary Saragosa	3500 Oak Hollow ^{C.S.}	
	Barbara Berry	4557 Cynthia ⁷⁷⁸⁴⁵	
	Crystal Martin	4201 Bedford Ct. ^{Bryan} 77802	
	SARAH ADKISON	2417 Windsor ^{Bryan} 77802	sadkison@bryanisd.org
	Carol Happ	1109 Royal Adelaide ^{C.S.} 77802	
	Lois Atkins	2509 Briarwood ^{Bryan} 77802	
	Rada Schultze	3567 High Country 77808	
	Craig G. Anderson	9001 Sandstone Dr.	(979) 645-7870 craiggraydon@gmail.com
	Cheryl Matcek	2703 Hickory Ct Bryan	

Petition:

Date:

Subject Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	SCOTT MAHLE	1510 OAKVIEW	324-3625
	RONNIE HOLDER	5491 MARCIA LN	775-4249
	DON H. WRIGHT	7704 FRANK	825-5217
	DAN G. MASSEY	500 S. TABER BRYAN TX	DGMASSEY@AOL.COM
	BOBBY MARTINEZ	1007 E. 28TH BRYAN, TEXAS	322-1935
	Calisto Vera	2010 Cavitt	779-7659
	VIKI ROSPRIM	5051 SILVER OAK DR BRYAN, TX 77808	VWROSPRIM@yahoo.com
	TERRY NIXON	802 FORE CT College Station TX 77845	979-690-7773
	Robert Kilpatrick	3142 moonlight Dr 77808	979-739-4026

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Paul Robbins	15641 Hwy 421 W North Zucht, TX	
	Holly Sembride	FICKER RD Bryan, TX	
	James Coward	10285 FERRILL CREEK Bryan TX	
	Sam Wigginton	16556 PINETREE RD Bryan, 77808	
	Penny Alexander	8301 Wixon Oaks Bryan, TX 77808	
	Tina L. Niche	4341 Cliff Road Bryan TX 77808	
	Claude Williams	15875 MACEY R.D	
	Jimmy Williams		
	Norman Johnson	1908 WAYSIDE DR Bryan TX 77802	StorminNorman@14msn.com
	James Courtney	Caldwell, TX	
	Jeff Greenberg	19631 Fm 974 Bryan TX 77808	
	Danny Harvell	7916 Welch Rd Bryan, TX 77808	
	Nick Pulicello III	1920 FM 2223 Bryan, TX 77808	
WESLEY KELLER	WESLEY KELLER	10285 MACEY RD HEARNE TX 77859	
MARY C. WYNN	Mary C. Wynn	2355 Megan Drive Bryan, TX 77808	
	Will Cobb	17821 Hwy 21 East Bryan TX, 77808	
	Trey Hancock	15242 MACEY RD HEARNE TX 77859	
	John Telle	1419 River G.	
	Michael Gildea	9245 W... Bryan TX 77808	Jamez316@aol.com

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Brittany Sumner</i>	Brittany Sumner	1809 An 119	ne-ne-key-bag-2008@yahoo.com
<i>Albert T. Hernandez</i>	Albert T. Hernandez	204 S. Randolf ^{Bryan TX}	979-822-0289
<i>Jim Bran</i>	Jim Bran	4625 W. Graham	College Station TX 77805 979-255-415
<i>Alan Shook</i>	Alan Shook	1576 ^{Bryan TX}	Bryan TX 77801 979-224-01
<i>Paul Anderson</i>	Paul Anderson	3201 Coastal	College Station TX 77845 979-204-9160
<i>Mike Anderson</i>	Mike Anderson	3201 Coastal College Station, TX	979-204-9160
<i>Randy</i>	Randy	P.O. Box 3463	979-3244330
<i>Jose Gerardo Lopez</i>	JOSE TABARES	1910 BEASER ST Bryan TX 77801	(979) 5747478
<i>John Williams</i>	John Williams	1613 OAKVIEW	(979) 775-8296
<i>Anthony Baker</i>	Anthony Baker	609 E 24th Bryan TX 77803	(979) 777-0925
<i>Mable Bradley</i>	MABLE BRADLEY	2929 STEVENS DR #20	979-571-7156
<i>Dawne Hicks</i>	Dawne Hicks	1305 HARDWOOD LN ^{ES TX}	979-764-6538
<i>Herbert Hicks</i>	HERBERT HICKS	1305 HARDWOOD LN	979-764-6538
<i>Marsha Puckett</i>	Marsha Puckett	PO Box 4689 Bryan TX 77805	979-846-1765
<i>Laurie Parker</i>	Laurie Parker	3100 Old Hearne ^{Bryan TX}	77803 979-218-0922
<i>Melanie Stone</i>	Melanie Stone	3005 Georgia St	979-52211
<i>Danny Murphy</i>	Danny Murphy	2707 Cliff	979 2185 987
<i>Joseph Procke</i>	Joseph Procke	1903 Mockingbird	979-777-0401
<i>Veronica Turner</i>	Veronica Turner	1923 Mockingbird	979-229-4521

Please Return to: Guardians of the Navasota River PO Box 76 Kurten, Tx 77862

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	John Buckner Jr.	11525 Deer Creek Dr	979-731-8235 jrbucknerjr@earthlink.net
	Gabrielle Davis	11455 Deer Creek	davistfamily22@yahoo.com 7311045
	Terry M. Fry	11703 Australia Lane	terrylori1@verizon.net
	Longayne Fry	11703 Australia Ln	terrylori1@verizon.net
	RUSSEL GOEHL	5121 COLE LN	979-776-8706
	WAMETA GOEHL	5121 COLE LN	979-776-8706
	EUGENE SCHILLER	5032 COLE LN	979-776-8727
	Bernice Schiller	5032 Cole Ln	979-776-8727
	Melody Meyer	5447 Cole Ln.	melody@tamupdx.edu
	Robert Meyer	5447 Cole Lane <small>CS. TX</small>	rmeyer@tamu.edu 979-776-2385
	S. Moreno	5422 Cole Ln, College St	shelainemoreno@earthlink.net
	EARL SMITH	11552 DEER CREEK <small>COLLEGE STATION</small>	EARLDLES@GMAIL.COM
	Ginger Smith	11552 Deer Creek	juju8326@gmail.com
	Larry Piper	5160 Cole Ln	979-774-1337
	Robert D. Ba	5001 Cole Ln	979-776-8674
	Paula Wetters	4954 Cole Lane	979-774-7007
	Chai Entanson	4951 Cole Lane	979-204-3608
	Tiffany Lawson	4687 Cole Ln	979-774-9598
	Mark Lawson	4687 Cole Ln	979-774-9598

ALTON B. MEYER

5445 COLE LANE

COLLEGE STATION, TX 77845

979-776-8201

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
Joyce Bell	Joyce Bell	9600 FM 1587 TX 77845	
Cosy Hamilton	Cosy Hamilton	9139 WARRIARDE RD BRYAN, TX	595-5988
Tracy Welch	Tracy Welch	4517 Elmo Weedan	Bryan, TX 77808
Mollie Peters	Mollie Peters	8590 Elmo Weedan Rd	BRYAN, TX 77808
Clyde Strong	Clyde Strong	20100 Woodhaven Cr College Station, TX 77840	cbstrongjre@yahoo.com
Matt Medlock	Matt Medlock	15632 Whites Creek LN College Station, TX	mtmedlock@hotmail.com
Patricia Willey	Patricia Willey	4501 Bunny Ln. College Station, TX 77845	booma60@juno.com
Sandra Strong	Sandra Strong	1000 Woodhaven College Station, TX 77840	strongedures@yahoo.com
Edgar E. Jones	Edgar E. Jones	2805 Burr Oaks Cir BRYAN, TX 77802	(979) 229-3750
Steve Lovett	Steve Lovett	3600 Lovett Ln College Station, TX 77845	979-774-4339
Candice K. Lyon	Candice Lyon	10090 Nubbin Trd. Bryan, TX 77808	clyon06@gmail.com
Justin Bell	Justin Bell	9824 Elmo Weedan Rd. Bryan Tx, 77808	justinbell311@mail.com
Tracy R. Peters	Tracy R. Peters	8590 Elmo Weedan Rd BRYAN, TX 77808	979-776-8048
Harold M. Brown	HAROLD M. BROWN	9160 TIMBERWILDEPR BAYAN TX.	
Stanley Sommers	Stanley Sommers	9560 Weedanhoop Bryan, TX. 77808	979-774-6674
Nelda P. Sommers	Nelda P. Sommers	9560 Weedan Loop Bryan, TX 77808	(979) 774-6674
John Bond	John Bond	1016 Green Valley Bryan, TX 77802	979 7744681
Bobby McDonald	Bobby McDonald	4150 DOE Circle College Station, TX	979-774-1103
Josh Havens	Josh Havens	8555 Treebrook Ln Bryan Tx	979-739-6909
Ray Havens	Ray Havens	8555 Treebrook Ln	979-776-4434
Katie Stroud	Katie Stroud	4732 Weedan Loop	979-219-6306
W.D. Williams	4842	Weedan Loop	979 820 0218

Signature	Printed Name	Address	email/Phone
Ronald R. Hall	RONALD R. HALL	9325 Timberwilde Bryan, TX 77808	Herndon1488@aol.com
Edwin E. Eyre (S)	EDWIN J. EYRE	9215 HENSARRLING LN Bryan, TX 77808	EJEYR@TXCYBER.CO
Kayce Herndon	Kayce Herndon	9325 Timberwilde	Herndon1488@aol.com
Steve Herndon	Steve Herndon	"	"
CM Dewett	CM DEWETT	THE WOODGLEN CR	
Charles Richter	Charles Richter	11411 Woodglen, Bryan, TX 77808	Rchad1217@aol.com
Randall Hammond	Randall Hammond	9535 Timberwilde	randallhammond@peoplepc.com
Chippy V. Carter	Chippy Carter	9503 Timberwilde Dr 3607 B	979-774-7148
Chris Richard	Chris Richard	ELLIOTT ST	erichard@8369@yahoo.com
Richard Jones	Richard Jones	9596 TALON CIR	979-204-1683
Dustin Havens	Dustin Havens	8555 Treabrook Ln	979-292-0036
Ashley Garcia	Ashley Garcia	9507 Elmo Weeden	979-450-6409
Chris Garcia	Chris Garcia	9567 Elmo Weeden	979-450-9700
Melissa Naibert	Melissa Naibert	9375 Elmo Weeden Rd	979-776-8952

Petition

Petition: FRONT & BACK

March 2008

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Diana Durham	210 Ehlinger Dr, Bryan	didurham@hotmail.com
	Lisabeth Robertson	7786 Riley Rd, Bryan	979-589-1638
	Katie Comerford	803 Mary Lake Dr Bryan	Katiecomerford@hotmail.com
	Robert Robertson	7786 Riley Rd, Bryan	
	Ron Robertson	7786 Riley Rd Bryan	TAMURON@GMAIL.COM
	Jonathan Roberton	7786 Riley Rd, Bryan	
	Katie Clancey	College Station TX	
	Trenton Jackson	Bryan, TX	
	Kelly Riccitelli	Bryan, TX	
	Snyder Mikeste	Bryan, TX	
	Randall Riccitelli	Bryan, TX	
	Sharlene Hendrix	Kingwood, TX	
	Debbie Biggs	Bryan TX	debbie@bryan3d.com
	Rob Riccitelli	Bryan TX	
	Sandy Walthall	Bryan, TX	
	Tim Sheffield	Angleton Tx	
	Rebecca Van Gortem	2012 Brandon Ave, Bryan	rebecca@vongortem.com
	Linda Thurman	Bryan TX	
	Weston Shelsik	Snoek, TX	
	Laurine Martow	College Station TX	

4247614099

Signature	Printed Name	Address	Phone/E-mail
<i>Cynthia Whittington-Smith</i>	Cynthia Whittington-Smith	6215 Hearner Rd Bryan, TX 77808	CindySmith.tx@gmail.com
<i>Phyllis Riddle</i>	Phyllis Riddle	310 Sapphire OK	phillr@suddenlink.net
<i>Joanne & Lamar</i>	7 McNew	9430 El Campo Tr. CS.	(979) 774. 8977
<i>Elaine Krol</i>	ELAINE S. KROL	8700 Brookthampton Bryan, TX 77802	es.krol@yahoo.com
<i>Nancy Henderson</i>	Nancy Henderson	2504 Pecan Ridge Bryan TX	
<i>Betty Reeves</i>	Betty Reeves	3968 Windfree Dr. College St	
<i>Jennifer Dickerson</i>	Jennifer Dickerson	6441 Hollow Heights Dr Bryan	(979) 776-285
<i>Kenneth Dickerson</i>	Kenneth Dickerson	6441 Hollow Hts Bryan TX 77808	979-776-285
<i>Betsy Anthony</i>	Rene Gonzalez	P.O. BOX 5565 18505 FM 974 Bryan TX 77808	862-834 979 559 1192
<i>Jan E. Eaton</i>	3910 Parkhurst	Bryan TX 77802	979 218 883
<i>Della Nichols</i>	Della Nichols	9423 Escandido CS	979-774-294
<i>Inene Livingston</i>	Inene Livingston	1105 Anderson	643-74
<i>Jennifer Henderson</i>	Jennifer Henderson	7849 Elmo Weadon	776-23
<i>Debra Vitanza</i>	Debra Vitanza	9075 Green Branch Loop	776-8188
<i>Anthony Vitanza</i>	ANTHONY VITANZA	9075 Green Branch Loop	776-8188
<i>Barbara Symons</i>	Barbara Symons	8402 Whiteoak Ct CS/77808	
<i>Nancy Kemler</i>	Diane Kemler	15772 FM 974 Bryan, TX 77808	

Petition:

Date:

Subject: Removal from consideration any attempt to place a reservoir anywhere on the Navasota River

We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

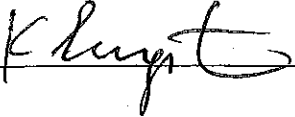
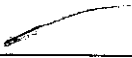
Signature	Printed Name	Address	E-Mail/Phone (optional)
<i>Lavada Edwards</i>	Lavada Edwards	9873 CR 179 Bedias TX 77831	
<i>Jill Lyster</i>	Jill Lyster	4603 Locksford Bryan, TX 77802	
<i>Lorraine Heermann</i>	LORRAINE HEERMANN	LL, TX 77845	
<i>Carol Roach</i>	Carol Roach	8M Williams Rd. 773 Huntsville, TX 77040	
<i>Ryan Womack</i>	Ryan Womack	7455 Drummer Cmn C.S. TX 77845	
<i>Daniel Guerra</i>	Daniel Guerra	921 Windmeadows College Station, TX 77845	
<i>Linda Lewis</i>	Linda Lewis	10993 Clyde Acord Rd. FRANKLIN, TX 77856	
<i>Jeff Carroll</i>	Jeff Carroll	309 N. Hutchins St Bryan, TX 77803	
<i>Julie Colichio</i>	Julie Colichio	1700 SW Hwy. #102 College Station, TX 77840	
<i>Richard Manley</i>	Richard Manley	3977 Greener Bryan TX 77804	
<i>Rebecca Brown</i>	Rebecca Brown	1503 maglathin Bryan TX 77802	
<i>K. Budzisz</i>	K. Budzisz	732 A Meadow Ln. Bryan TX 77802	
<i>Vicky Ferguson</i>	Vicky B Ferguson	10555 John Ria Dr DOLA, TX 77961	
<i>David Shumate</i>	David Shumate	9485 Barrow Ct College Station TX 77845	
<i>Vanessa Shumate</i>	Vanessa Shumate	9485 Barrow Ct College Station, TX 77845	
<i>Al Schultz</i>	AL SCHULTZ	7198 E/mo Warden BRYAN TX 77808	
<i>Audra Sanchez</i>	AUDRA SANCHEZ	1907 Dartmouth #510 C.S TX 77840	
<i>Fotner Lettetter</i>	Fotner Lettetter	413 Coventry Ct Bryan TX 77802	
<i>Bill Binford</i>	BILL BINFORD	2908 Hillside Dr BRYAN	

Petition:

Date:

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Signature	Printed Name	Address	E-Mail/Phone (optional)
	K. EUGSTER	12 Vista Ln CS	

Petition:

Date:

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We, the individuals and organizations from Brazos, Grimes, Leon, Madison and other counties listed below, are opposed to the proposed Millican Reservoir because of the environmental and social impacts.

Signature	Printed Name	Address	E-Mail/Phone (optional)
	Amy Franklin	11990 Old Woodborn ^{CS, TX 77845}	Angeleyes992001@yahoo.com
	Lanny Nowak	110024 CR 446 Navasota, Texas 77860	cell ph# (979) 676 0825
	Jessica Nalkonia	2323 Dedee St. ^{Apt #32 Bryan TX 77802}	jkduval2@yahoo.com
	Kalin Hill	702 East N. Ave ^{Bryan TX 77802}	hollatchakk@yahoo.com
	Ron Pinter	2107 CR 376 ^{Caldwell TX 77836}	ron.pinter@yahoo.com
	Bob Allen	4700 West Windsor ^{Bryan TX}	
	Joann Wimbish	410 E. Brookside ^{Bryan}	
	James Hutto	820 Vme. St. ^{Bryan TX}	jbhutto@hotmail.com
	William H. Hutto	820 Vine, Bryan, Tx. ⁷⁷⁸⁰²	mjhutto@hotmail.com
	Robert P. Vernon	5016 Augusta Cir College Sta., TX 77845	
	Rick Pilger	3619 Sweetbriar ^{Bryan 77882}	
	Ryan Weldon	20408 Rita Blanca Cir Pflugerville, TX 78660 3400 Timmons Ln.	RLW911@gmail.com
	Sean Lutz	Houston, TX 77095	Sean.Lutz@Houston.Sciencenot
	Melissa Coker	15602 Whitewater Houston TX 77097	melissacoker281@gmail.com melissacoker281@gmail.com
	VIRGINIA BARNETT	4936 CORA 225 Caldwell, TX 77836	979-272-3886
	Celeste Weldon	20408 Rita Blanca Cir Pflugerville, TX 78660	512-990-0211
	James R. Barnett	4936 CR 225 Caldwell, TX 77836	
	Aslam Akhbar	2901. Preble Ct. S. CS TX 77845	

Steven L. Hanson
4706 Hunington Dr.
Bryan, TX 77802

April 14, 2010

Hon. Mark Evans
Chair, RHWPG
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

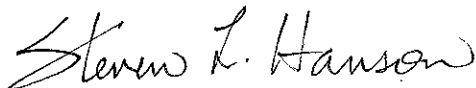
Dear Hon. Mark Evans;

I am dismayed that the Region H WPG is recommending that the Millican site be designated a unique reservoir site. Please enlighten me on this process. What are the requirements that must be met before this request becomes a reality? Was there any consideration of the economic harm in Brazos County by making this recommendation? Where can I find the assumptions used in determining the appropriateness of including this site in the recommendation?

The reports I have found do not include any consideration for the economic toll placed on this county just by making the recommendation. Making this sort of "premature" recommendation shows a degree of shortsightedness not well suited to those assigned to prepare a long range outlook into the long term water needs of Texas citizens.

Please count me as opposed to this reckless premature recommendation that will hopefully be disregarded by the state legislature.

Sincerely disgusted at the reckless waste,



Steven L. Hanson

Copy
State Representative Fred Brown
State Senator Steve Ogden
Governor Rick Perry

Steven L. Hanson
4706 Hunington Dr.
Bryan, TX 77802

May 13, 2010

Re: My letter April 14, 2010
Your letter May 5, 2010

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

Dear Mr. J. Kevin Ward;

I appreciate that you would like to pass this on to the Regional Authorities, but there is a serious problem with a process that allows a Regional Authority to recommend a site be declared a unique reservoir without any consideration being given to the economic harm the recommendation can cause. This is a condition that your administrative position should address and I would like to know if you have or intend to have any guidelines for all Regional Authorities to remedy this obvious oversight. I understand that the process is long and there is much still to be done, but the economic harm is immediate. They can consider anything all they want, but once the Regional Authority votes to recommend, the economic harm starts. I see nothing to indicate that this economic harm was considered before the recommendation was made.

Please directly address this issue.

Sincerely



Steven L. Hanson

Copy
State Representative Fred Brown
State Senator Steve Ogden
Governor Rick Perry
Jace Houston, San Jacinto River Authority
Trey Buzbee, Brazos River Authority

Steven L. Hanson
4706 Hunington Dr.
Bryan, TX 77802

May 19, 2010

Re: My letter April 14, 2010
Your letter May 5, 2010
My response May 13, 2010

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

Dear Mr. J. Kevin Ward;

In the 2010 recommendation report (below) it states that the TDWB provided detailed guidance for socioeconomic impact of proposed supply sources. Does this guidance include the socioeconomic impact on Brazos County, Bryan/College Station for the Millican Reservoir? Does it require that the board consider the economic harm the recommendation can cause by making the recommendation before they make the recommendation? I have not been able to find anywhere that the report has addressed socioeconomic impact. Have you reviewed the report to see if TDWB guidance was followed? Was this done before the recommendation was made? Any guidance on where I can get answers to these questions before the comment period is closed would be appreciated.

Chapter 8 – Ecologically Unique Stream Segments, Unique Initially Prepared Plan

Reservoir Sites and Legislative Recommendations February 2010

8-18

Quantitative Environmental Analysis

Discussion: The Regional Water Planning Guidelines require that the evaluation of potentially

feasible water management strategies include a quantitative analysis of environmental factors

including effects on environmental water needs, wildlife habitat, cultural resources, and effect of

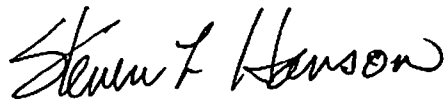
upstream development on bays, estuaries, and arms of the Gulf of Mexico (31TAC357.7.(a)(8)(A)).

The TWDB has provided detailed guidance on specific study methods to be used in determining population, water demand, socioeconomic impacts and yield from current and proposed supply sources, but it has not provided similar guidance in the area of environmental impacts. This lack of specificity is resulting in different methods being used in different regions. Additionally, it places the planning groups at risk of needing to conduct additional

analysis after state agencies review the Initially Prepared Plans, and add those results to the report after the public review period has closed.

Please include this correspondence in the public comment for proposed recommended Millican reservoir.

Sincerely

A handwritten signature in black ink that reads "Steven L. Hanson". The signature is written in a cursive style with a large initial 'S'.

Steven L. Hanson

Copy

State Representative Fred Brown
State Senator Steve Ogden
Governor Rick Perry
Jace Houston, San Jacinto River Authority
Trey Buzbee, Brazos River Authority

WRITTEN COMMENTS ON THE INITIALLY PREPARED PLAN
SUBMITTED TO THE REGION H WATER PLANNING GROUP

The Region H Water Planning Group welcomes public comment. If you wish to submit written comments, please provide the information requested below and return this form to a consulting team member.

Name: Elaine Sheffield
Affiliation: Iola Cemetery Association
Address: P O Box 374, Iola Texas 77861

713.542.4651 Telephone ----- Fax Elaine.sheffield@exterran.com E-Mail

Comments: The Iola Cemetery Association held an annual membership meeting on May 1, 2010 and voted to send a letter of opposition to the proposed Region H. Millican Reservoir. Enon and Zion Cemeteries have gravesites with tombstones that are dated 1857 forward and many with faded dates are suspected to be dated prior to 1857. This area was populated prior to the 1850's and to erase the memories of loved ones is unforgivable. This area was chosen to be their home through eternity. To move the cemeteries would place an burden on living family members in visiting their loved one's final resting place.

The Iola Cemetery Association opposes the proposed Region H Millican Reservoir.

Date: May 20, 2010

Signed

Elaine Sheffield

President, Iola Cemetery Association (Zion & Enon Cemeteries)

WRITTEN COMMENTS ON THE INITIALLY PREPARED PLAN
SUBMITTED TO THE REGION H WATER PLANNING GROUP

The Region H Water Planning Group welcomes public comment. If you wish to submit written comments, please provide the information requested below and return this form to a consulting team member.

NAME: MARSHALL Jones
AFFILIATION: Landowner
ADDRESS: 10802 Nunn Jones College Station Tx 77845
City State Zip
979-204-6276 | marshallbjones@gmail.com
Telephone Fax E-Mail

COMMENTS:

My family has owned property on Weeden loop for 3 generations. The Proposed Milliken Dam will completely cover our property.

We have invested all of our savings to purchase, upgrade + maintain the property.

No one should have the right to force us to give up our land.

As a landowner - I pay taxes every year on my land investment - No other ASSET purchased by individuals with after tax money is SUBJECTED TO Such taxation.

Now folks that have not paid ANY tax in our area to support our community + schools are attempting to take away our land.

If we had invested in gold rather than land would you force us to sell it at a price you set so people in Houston can get water.

Date: 4/1/10

Signed: MB Jones

To: Texas Water Board / Region H.

From: John Crise Knotts.

I am writing in regard to the Millican Reservoir as proposed by Region H and its consultants. On behalf of my extended family of four generations, all other Landowners in the flood zone and the businesses in the area

We oppose the Millican Reservoir.

as you have heard at the public meetings on this issue there are thousands of individuals, families, Landowners, business owners etc that will be negatively affected by this reservoir. Even though this dam and the flooding of the Navasota River (our west property line) would not happen for some time. 20-30 yrs. We have enough experience with projects like this one to know that our property value, all future construction plans, & future livelihoods will be affected now. We also know there will not be any lake front property to look forward to. Those who have any land left after the water rises to its pool level. of approx. 280 ft. above sea level. Will not have direct access to the water for any private development. The flood easement and other issues will rob us of lake front property. on an engineering level, the Navasota River is a bad idea. Wide, Flat and silt filled. The reservoir would have a short life and destroy too much for too little. I will be writing more on this issue soon.

John C. Knotts,

STATE OF TEXAS
HOUSE OF REPRESENTATIVES



P.O. BOX 2910
AUSTIN, TEXAS 78768-2910
(512) 463-0600
Fax: (512) 463-5240
E-mail: lois.kolkhorst@house.state.tx.us

P.O. BOX 1867
BRENHAM, TEXAS 77834
(979) 251-7888
FAX: (979) 251-7968

LOIS W. KOLKHORST
DISTRICT 13

June 1, 2010

Honorable Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P O Box 329
Conroe, TX 77305-0329

Dear Honorable Chair Evans:

Please allow this letter to serve as my formal notice of grave concern regarding the proposed Region H plan to designate areas of Grimes, Madison and Brazos Counties for use as a "unique reservoir site" in your 2011 Initially Prepared Plan. While Texas faces great challenges in meeting our water needs, the plan to damn the Navasota River in the area being discussed is not a viable option.

The projections I have seen would result in a significant number of impacted population centers in the Brazos Valley. For instance, as cited in the Initially Prepared 2011 Brazos G Regional Water Plan, the proposed per-acre upper limit appraisal of \$1,271 (as cited on page 4B.12-154) is grossly underestimated and such seizure of land at this cost would result in a massive loss to Brazos County's appraisal roll, not to mention the loss in valuable revenue from lignite, oil and gas. The benefits of this reservoir simply do not outweigh the massive loss in both land and liberty. There must be more suitable sites or solutions that we can consider as Texans.

It is particularly noteworthy that a proposed reservoir of this scope and size would be proposed to be built in Region G, while the available water would be dedicated to Region H. Your planning group would be well-served to solicit additional input from the various stakeholders in the affected Region G area. The Texas of tomorrow will certainly need more water, but we will also need to respect property rights and our longtime spirit of friendship and cooperation.

Sincerely,

A handwritten signature in black ink that reads "Lois W. Kolkhorst". The signature is written in a cursive style with a long horizontal stroke at the end.

Lois W. Kolkhorst

LWK/tp

cc: Mr. Trey Buzbee
Region G c/o Brazos River Authority



RESOLUTION

WHEREAS, Leon County recognizes the importance of the need to plan for future water requirements to meet the projected growth within Region H and throughout the State of Texas;

WHEREAS, Leon County recognizes the many factors and challenges involved in developing a comprehensive water plan to provide for future water requirements;

WHEREAS, Leon County supports many of the recommendations contained in the proposed 2011 Region H Water plan that if implemented will materially increase the future water supply in the Region;

WHEREAS, the proposed Region H Water Plan includes the proposed Millican Reservoir and recommends it's designation as a unique reservoir site by the Texas Legislature;


WHEREAS, the designation of the Millican Reservoir as a unique reservoir site most likely will have a negative impact on land values, farming/ranching operations, wild life habitat/management, minerals, public facilities, state and county highways and roads and the tax base of Leon and surrounding counties;

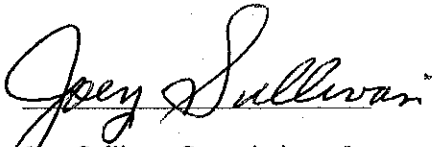
WHEREAS, the location of the proposed reservoir dam has not been identified and no in depth study has been conducted to assess the total impact the designation/construction of Millican Reservoir would inflict on the affected areas;

WHEREAS, the proposed Millican Reservoir would have no economic value to Leon County as under the proposed plan it would act as a holding reservoir to supply projected water requirements for the Gulf Coast Area and not suitable for recreational use;

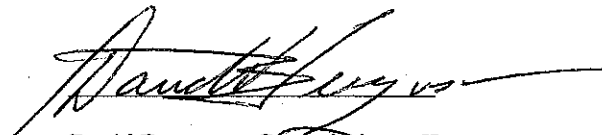
NOW THEREFORE, BE IT RESOLVED BY THE COMMISSIONERS COURT OF THE COUNTY OF LEON, TEXAS that it is the opinion of the Court that, sufficient information has not been developed to determine the total impact the designation of the proposed Millican Reservoir as a unique site will have on the affected areas and BE IT FURTHER RESOLVED THAT by adoption of this resolution COMMISSIONERS COURT OF LEON COUNTY, TEXAS opposes the inclusion of a recommendation in the Region H Water Plans that the proposed Millican Reservoir be designated as a unique reservoir site by the Texas Legislature and be removed from the Region H Plan and replaced with an alternative recommendation

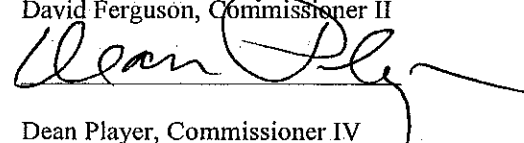
PASSED and APPROVED this 10th day of May, 2010.


Byron Ryder, County Judge


Joey Sullivan, Commissioner I


Mark Ivey, Commissioner III


David Ferguson, Commissioner II


Dean Player, Commissioner IV

April 7, 2010

Dear Mr. Evans,

I am a frustrated land owner in Iola, Grimes County, Texas. I recently purchased a lot in the King Oaks community in hopes of building a home for my family. We were in the beginning stages of building but as of last week everything has come to a halt. We were hoping to have the house completed in time for the arrival of our second child but now that won't happen. I cannot get the answers I need to proceed with the building of my home because there is a lack of direction and communication by the Region H Water Planning Group. No one can tell me how the King Oaks community will be affected by the proposed Millican Reservoir. There are no maps that show the exact location of the shoreline, boundaries of no building zones, or any other structural information of where the dam will be built. No one can tell me that if this proposal is shot down this go around, how long it will be before it is brought up again.

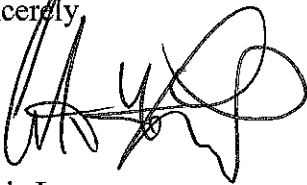
I understand Region H is only looking out for the needs of the future and it is no easy task; but there are certainly other ways to supply water to the masses rather than this reservoir project. Can't potable water be obtained from the Gulf through desalination? I understand that type of process is expensive but surely not as expensive as building multiple reservoirs. That will cost billions of dollars!

I am also concerned on the environmental impact this reservoir will pose on the already endangered species that inhabit the Brazos River bottom. I'm not a tree hugger by any means, but I hate to see a species of animal wiped out by this project. I don't like the fact that despite other options of obtaining water in the future, we would rather wipe out a species of animal instead of finding other means of water production. To me, it sounds like Region H is grasping at finding a solution fast, but no one is really taking the time to closely weigh all the options.

There are many people just like me who are frustrated with this proposal. There seems to be a great lack of communication to the public, but a steam rolling effort to get this reservoir built. If the land is taken from me, how will I be compensated? Will I get anything near what I paid for it or will it be stolen from me by the government? There is rumor that the government can step in and deem the area as a future water preserve therefore devaluing my property. I won't be able to sell it for anything near what I paid to build it.

Please stop the proposal for the Millican Reservoir once and for all. Thank you for your time.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Loup', written in a cursive style.

Chris Loup
PO BOX 1542
Montgomery, TX 77356

April 5, 2010

Ms. Temple McKinnon
Texas Water Development Board
Region H
P.O. Box 13231
Austin, Texas 78711

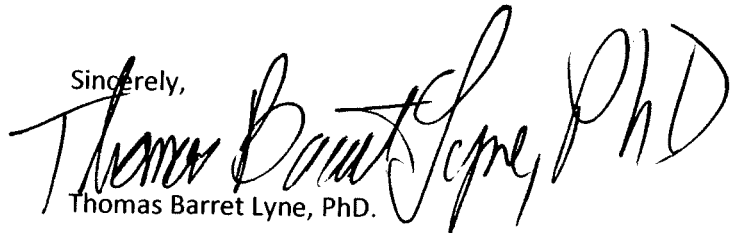
Dear Ms. McKinnon:

In continued opposition to the proposed Millican Dam Project, please consider another adverse impact of the condemnation of the 100 square miles of Hardwood Forest of the Navasota River Bottom. That of the **transfer of wealth** from Brazos, Robertson, Madison, and Grimes counties to the Houston metropolis. The depredation of land values and confiscation of land by the labeling of Brazos, Robertson, Madison, and Grimes county lands as a "Unique Site" for dam construction and water impoundment will result in a huge transfer of wealth. This labeling and the implied confiscation of local lands leaves local landowners of Brazos county with pennies on the dollar for the value of their land while it adds value to the lands of the Houston metropolis by providing the necessary water for suburban developments by developers in the Houston metropolis.

Consequently, many Brazos county landowners will be stripped of their assets and wealth while Houston developers create new wealth at our expense by developing suburbs with our water from the devaluation and confiscation of over one hundred square miles of our land.

Another consideration is the loss of county tax revenues. This confiscated land will be removed from the tax rolls and will no longer provide county and school tax revenues.

Sincerely,

A handwritten signature in black ink that reads "Thomas Barret Lyne, PhD". The signature is written in a cursive, flowing style. The letters "T", "B", and "L" are particularly large and prominent. The "PHD" is written in a slightly larger, more formal font at the end of the signature.

Thomas Barret Lyne, PhD.

18075 FM 974
Bryan, Texas 77808
cell: 979-255-5237

April 5, 2010

Ms Temple McKinnon
Region H
TWDB
P.O. Box 13231
Austin, Texas 78711

Dear Ms. McKinnon:

In regards to the Texas Water Development Board and the Army Corps of Engineers once again proposing to build a dam on the Navasota River in Brazos County for the purpose of impounding water for a future water supply for the Houston metropolis, please be advised that I, Thomas Barret Lyne, PhD., as a landowner that would be negatively impacted by the lake, do hereby protest the construction of such a dam and lake for the following twelve (12) reasons:

1. Flooding of historical artifacts of the Old San Antonio Trails, El Camino Real, including but not limited to;
 - a. Madison County Swales,
 - b. Navasota River Swales at OSR,
 - c. Bundick Crossing,
 - d. Bundick Swales,
 - e. Tinnan Crossing,
 - f. Tinnan Swales,
 - g. Democrat Crossing,
 - h. Undiscovered OSR crossings, swales, and other artifacts,
 - i. Brazos, Robertson, and Madison Counties are the Significant Location for the Converging of numerous trails of the El Camino Real.
2. Flooding of significant Oil, gas and lignite mineral resources;
 - a. Kurten oil and gas field,
 - b. Yegua formation lignite field.
3. Silting half life of a lake on the Navasota River is less than 30 years.
4. negative impact on 49 Threatened and Endangered Species currently living in the majestic hardwood forest of the Navasota River Bottom.
5. Destruction of 100 square miles of native Hardwood Forest Wilderness of the Navasota River Bottom.

6. Before spending 4 billion dollars to take our land and water, the Houston metropolis should spend 4 billion dollars to catch their own runoff. For 4 billion dollars Houston could build its own water recovery system. It gets far more rainfall a year than the Navasota River watershed does, and it all just washes down the bayous into the Gulf of Mexico. They could integrate it with their own regional flood control and protect the properties of their own constituents.
7. Houston should develop better and more strict water conservation and rationing before they come take our water.
8. We should keep our own water, we are going to need it in the future for ourselves and agriculture.
9. Before Houston comes and takes our water, they can do away with their big green grassy yards, and golf courses. If they want to play golf, they can come buy memberships in ours. That would stimulate the economy and real estate between here and Houston.
10. Lets develop the desalination technology for the Gulf of Mexico. In the future, we may need to buy water from ocean front properties rather than them stealing land and water from inland now.
11. Destruction of the lively hood and heritage of hundreds of residents and landowners in Brazos, Madison, Robertson, and Grimes counties.
12. The Hill Country has been battling San Antonio for over 20 years about taking their water and over the Edwards Aquifer Recovery System. San Antonio wants to cut off water in all the small towns around them.

I urge you to consider these and other negative impacts on your constituents and the lands of the Great Brazos and Navasota River Valleys. The Houston Metropolis has a lot of progress to make on their own turf and with their own constituents before they ever come take our land, water, heritage, natural history and resources. They need to adversely impact their own constituents before they ever come destroy the lives of our local and native people. We do not want our people and our lands to simply be remembered with a commemorative display in the Houston Museum of Natural Science and History as "The Natives of the Navasota Hardwood Wilderness that once was."

Sincerely,

Thomas Barret Lyne, PhD.

18075 FM 974
Bryan, Texas 77808
cell: 979-255-5237

April 8, 2010

The Honorable Mark Evans
Chair, Regional H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Judge Evans:

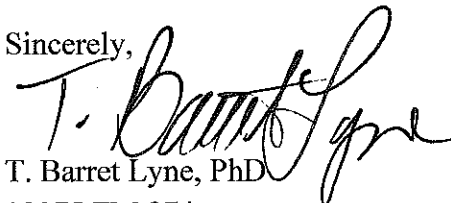
Thank you for your public service and for serving the Region H Water Planning Group in the Great State of Texas.

Please do not support the Millican Dam (Panther Creek) project. The proposed inundated lands are rich in history and historical heritage. One such asset is the El Camino Real de los Tejas or the Old San Antonio Road. This historical asset is over 300 years old and 1,000 miles long. The trails were first surveyed in 1915 when the state of Texas commissioned by Mr. Zivley and the survey was permanently marked with granite monuments provided Mrs. Ferguson, Governor Ferguson's wife, and the Daughters of the American Revolution (DAR). Some of these historical markers and trails will be obliterated by the Millican Reservoir. In 1982, the Texas Legislature designated the OSR as a Texas Trail and the Texas DOT took over its maintenance. In 2000, Kay Bailey Hutchison toured the entire trail from Louisiana to Mexico for Legislative recommendations. For lack of road, Senator Hutchison had to tour the southernmost part of the OSR through the Dolph Briscoe Ranch on horseback. In 2004 the OSR was designated a National Historical Trail by President George Bush. This national designation placed the El Camino Real de los Tejas in the National Park Service Trails System. This is the only such designated national trail in the state of Texas and the entire south central United States.

The El Camino Real de los Tejas trails of the National Park Service Trails System is of significant historical importance to all Texans and to the Nation as a whole. It is imperative that we preserve this asset as a commemorative to our nations heritage and rich diversity. Please do not flood any portion of this National Park Service Trail.

Thank you for opposing the Millican Dam (Panther Creek).

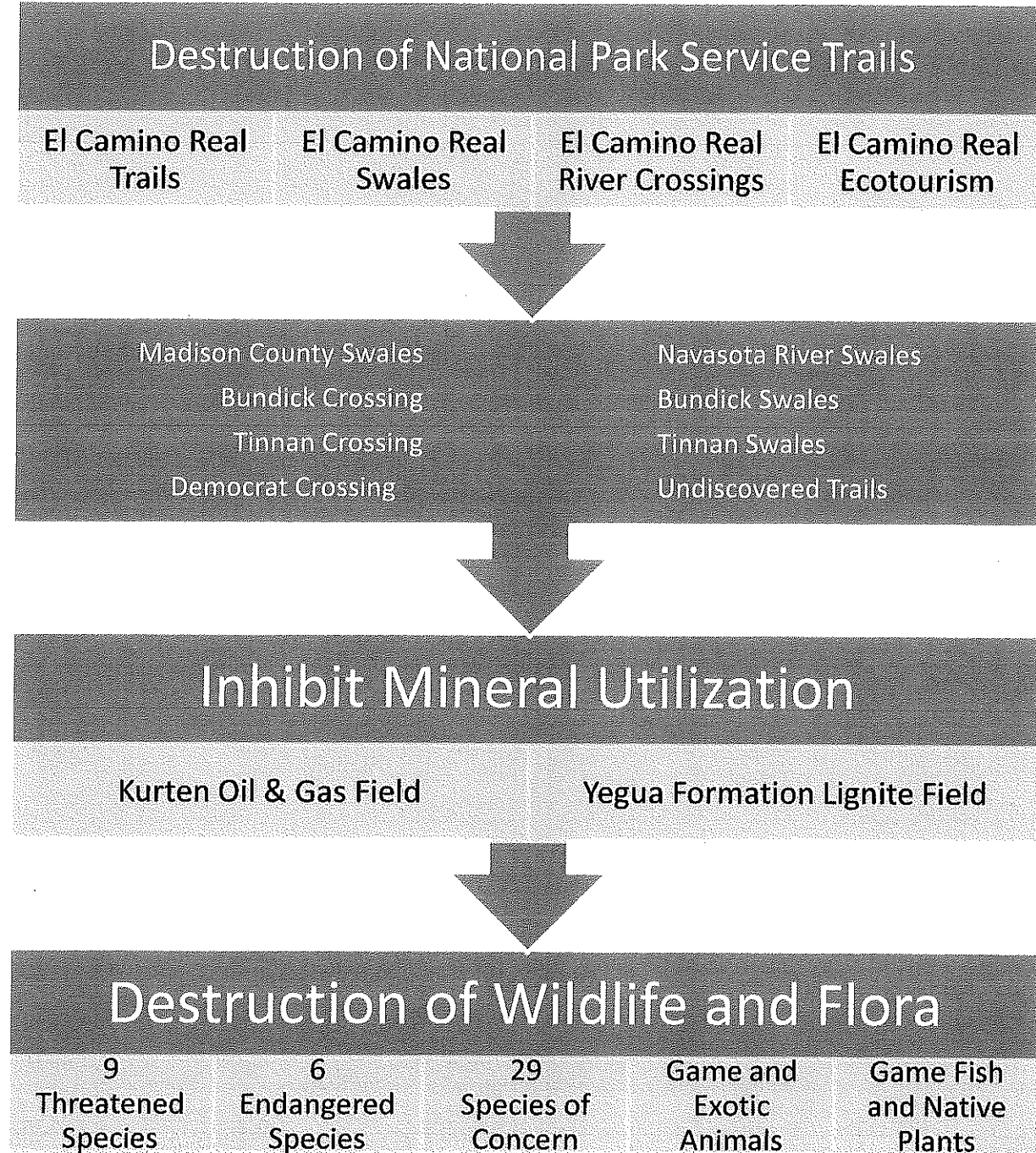
Sincerely,

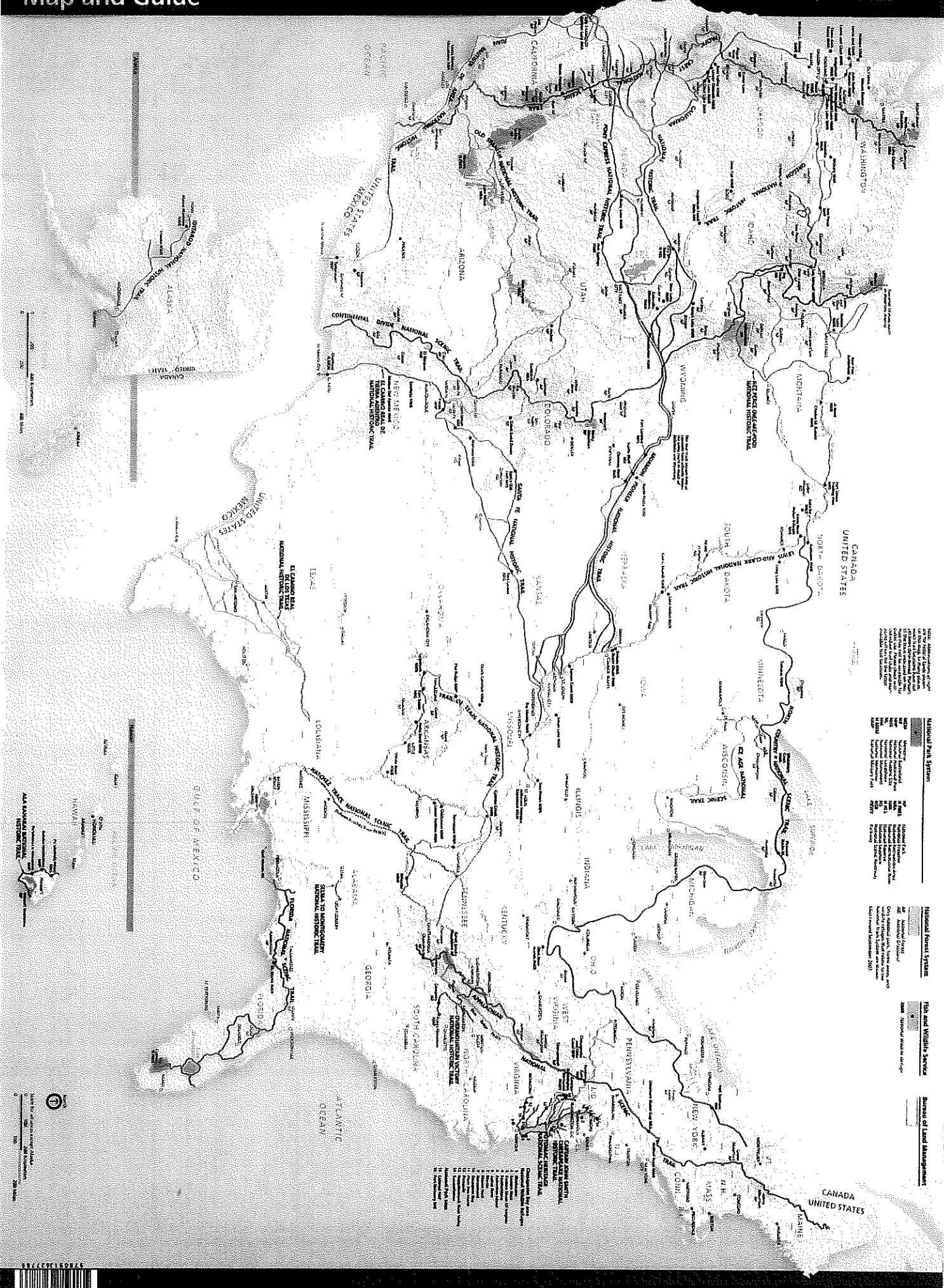


T. Barret Lyne, PhD
18075 FM 974
Bryan, Texas 77808
979-255-5237

Impact of the Millican Dam and Reservoir (Panther Creek) on the Navasota River Valley

T. Barret Lyne, PhD.



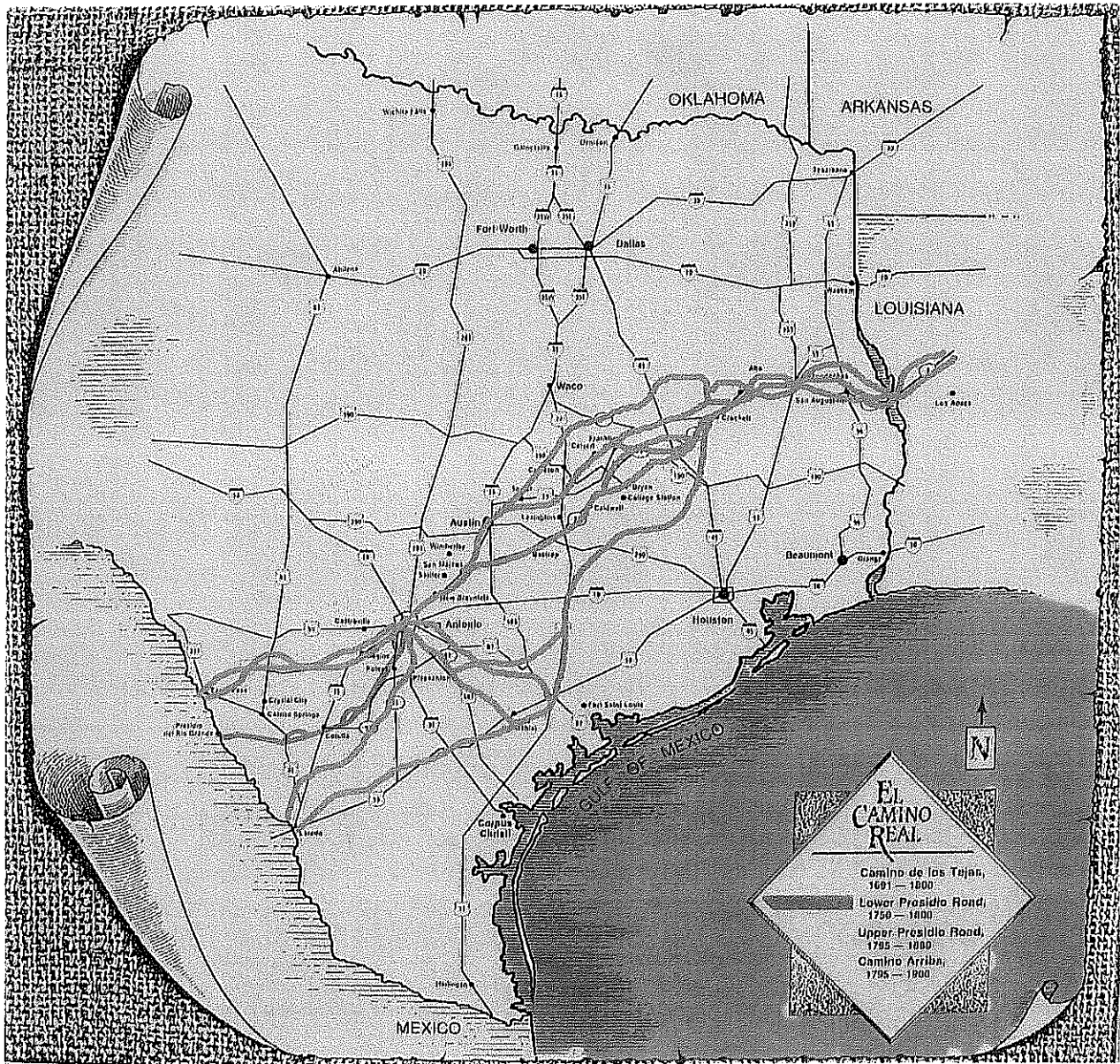


Scale: 0 100 200 Miles

Scale: 0 100 200 Kilometers

North Arrow





Refurbished photograph of faded original drawing. Trails are not original, they were added to photograph, and may not be accurate. Photograph and photographic editing by T. Barret Lyne, PhD.

El Camino Real de los Tejas

Also known as the Old San Antonio Trail, Kings Highway, and the San Antonio-Nacogdoches Road, is one of the oldest and most significant pioneer routes across Texas. For three-hundred years, it has been a great thoroughfare that stretched over 1,000 miles from Saltillo, Mexico to Louisiana. However, El Camino Real has never been a single fixed road. Quite the contrary, it began as a nonrandom network of Indian and buffalo trails, natural stream crossings, and exploration routes,

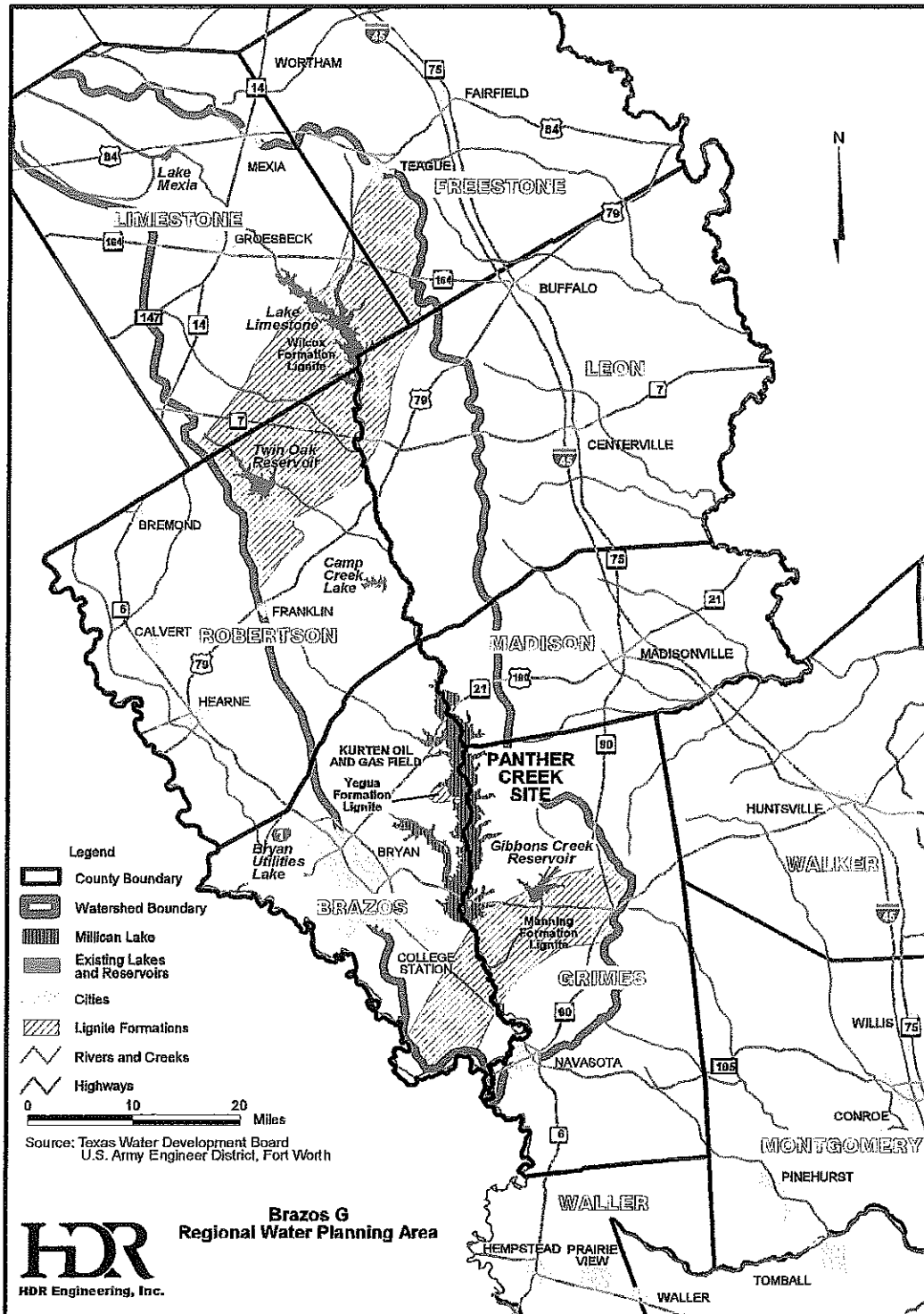


Figure 4B.12.8.1-1. Millican Reservoir — Panther Creek Site

5 E
9 T

Table 4B.12.8.3-2.
Potentially Occurring Species that are Rare or Federal- and State-Listed in Brazos, Grimes, Leon, Madison and Robertson Counties

E-6
T-39
SOC-29

Scientific Name	Common Name	Federal/State Status	Potential Occurrence
Amphibians			
<i>Bufo houstonensis</i>	Houston Toad	LE/E E	X
Birds			
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	DL/T	Migrant
<i>Falco peregrinus tundrius</i>	Arctic Peregrine Falcon	DL/SOC	Migrant
<i>Amphiphila aestivalis</i>	Bachman's Sparrow	T T ✓	Resident
<i>Haliaeetus leucocephalus</i>	Bald Eagle	DL/T	Resident
<i>Ammodramus henslowii</i>	Henslow's Sparrow	SOC	Resident
<i>Sterna antillarum</i>	Least Tern	LE/E E ✓	Resident Breeder
<i>Falco peregrinus</i>	Peregrine Falcon	DL/T	Migrant
<i>Picoides borealis</i>	Red-Cockaded Woodpecker	LE/E E ✓	Resident
<i>Plegadis chihi</i>	White-Faced Ibis	T T	Resident
<i>Grus Americana</i>	Whooping Crane	LE/E ✓	Migrant
<i>Mycteria americana</i>	Wood Stork	T T ✓	Migrant
Fishes			
<i>Cycleptus elongates</i>	Blue Sucker	T T ✓	X
<i>Notropis oxyrinchus</i>	Sharptnose Shiner	C/SOC	X
<i>Notropis buccula</i>	Smalleye Shiner	C/SOC	X
Insects			
<i>Proclotron texanum</i>	A Mayfly	SOC	X
<i>Gomphus modestus</i>	Gulf Coast Clubtail	SOC	X
<i>Neurocordulia molesta</i>	Smoky Shadowfly	SOC	X
Mammals			
<i>Ursus americanus luteolus</i>	Louisiana Black Bear	LT/T T	Transient
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	SOC	X
<i>Canis rufus</i>	Red Wolf	LE/E E	Extirpated
<i>Myotis austroriparius</i>	Southeastern Myotis Bat	SOC	X
Mollusks			
<i>Strophitus undulates</i>	Creeper (Squawfoot)	SOC	X
<i>Quincuncina mitchelli</i>	False Spike Mussel	SOC	X
<i>Truncilla donaciformis</i>	Fawnsfoot	SOC	X
<i>Villosa lienosa</i>	Little Spectaclecase	SOC	X

<i>Pleurobema riddellii</i>	Louisiana Pigtoe	SOC	X
<i>Tritogonia verrucosa</i>	Pistolgrip	SOC	X
<i>Arcidens confragosus</i>	Rock Pocketbook	SOC	X
<i>Lampsilis satura</i>	Sandbank Pocketbook	SOC	X
<i>Quadrula houstonensis</i>	Smooth Pimpleback	SOC	X
<i>Truncilla macrodon</i>	Texas Fawnsfoot	SOC	X
<i>Potamilus amphichaenus</i>	Texas Heelsplitter	SOC	X
<i>Fusconaia askewi</i>	Texas Pigtoe	SOC	X
<i>Fusconaia flava</i>	Wabash Pigtoe	SOC	X
Reptiles			
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	T	T ✓ X
<i>Pituophis ruthveni</i>	Louisiana Pine Snake	C/IT	X
<i>Phrynosoma comutum</i>	Texas Horned Lizard	SOC/T	T ✓ X
<i>Crotalus horridus</i>	Timber/ Canebrake Rattlesnake	SOC/T	T ✓ X
Plants			
<i>Liatris cymosa</i>	Branched Gay-Feather	SOC	X
<i>Xyris chapmanii</i>	Chapman's Yellow-Eyed Grass	SOC	X
<i>Abronia macrocarpa</i>	Large-Fruited Sand-Verbena	LE/E	E ✓ X
<i>Agalinis navasotensis</i>	Navasota False Foxglove	SOC	X
<i>Spiranthes parksii</i>	Navasota Ladies'-Tresses	LE/E	E ✓ X
<i>Polygonella parksii</i>	Parks' Jointweed	SOC	X
<i>Hymenopappus carrizoanus</i>	Sandhill Woollywhite	SOC	X
<i>Eriocaulon koernickianum</i>	Small-Headed Pipewort	SOC	X
<i>Thalictrum texanum</i>	Texas Meadow-Rue	SOC	X
<i>Chloris texensis</i>	Texas Windmill-Grass	SOC	X
<p>X = Occurs in county; * Nesting migrant; may nest in the county.</p> <p>Federal Status: LE-Listed Endangered; LT-Listed Threatened; w/CH-with critical habitat in the state of Texas; PE-Proposed to Be Listed Endangered; PT-Proposed to Be Listed Threatened; PDL-Proposed to Be Delisted (Note: Listing status retained while proposed); E/SA T/SA-Listed Endangered on Basis of Similarity of Appearance, Listed Threatened on Basis of Similarity of Appearance; DL-Delisted Endangered/Threatened; C-Candidate (USFWS has substantial information on biological vulnerability and threats to support proposing to list as endangered or threatened. Data are being gathered on habitat needs and/or critical habitat designations); SOC-Species of Concern (some information exists showing evidence of vulnerability, but is not listed).</p> <p>State Status: E-Listed as Endangered by the State of Texas; T-Listed as Threatened by the State of Texas; SOC-Species of Concern (some information exists showing evidence of vulnerability, but is not listed).</p> <p>Sources: TPWD, <i>Annotated County List of Rare Species for Brazos County</i>, 2009. TPWD, <i>Annotated County List of Rare Species for Leon County</i>, 2009. TPWD, <i>Annotated County List of Rare Species for Grimes County</i>, 2009. TPWD, <i>Annotated County List of Rare Species for Madison County</i>, 2009. TPWD, <i>Annotated County List of Rare Species for Robertson County</i>, 2009. TPWD Texas Wildlife Diversity Database (2009), United States Fish and Wildlife Service (USFWS), <i>Federally-listed as Threatened and Endangered Species of Texas</i>, November 30, 2009.</p>			



Bachman's Sparrow (*Almophila aestivalis*) Threatened, Resident



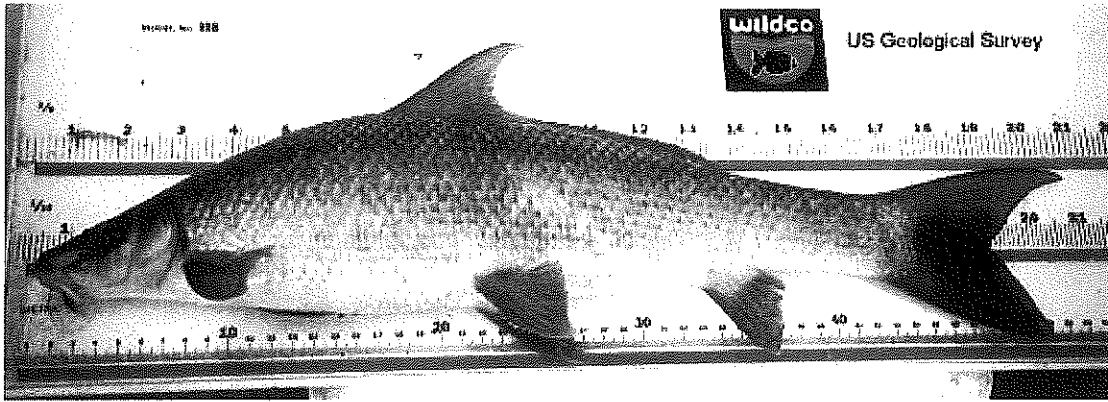
Whooping Crane (*Grus americana*) Endangered, Migrant



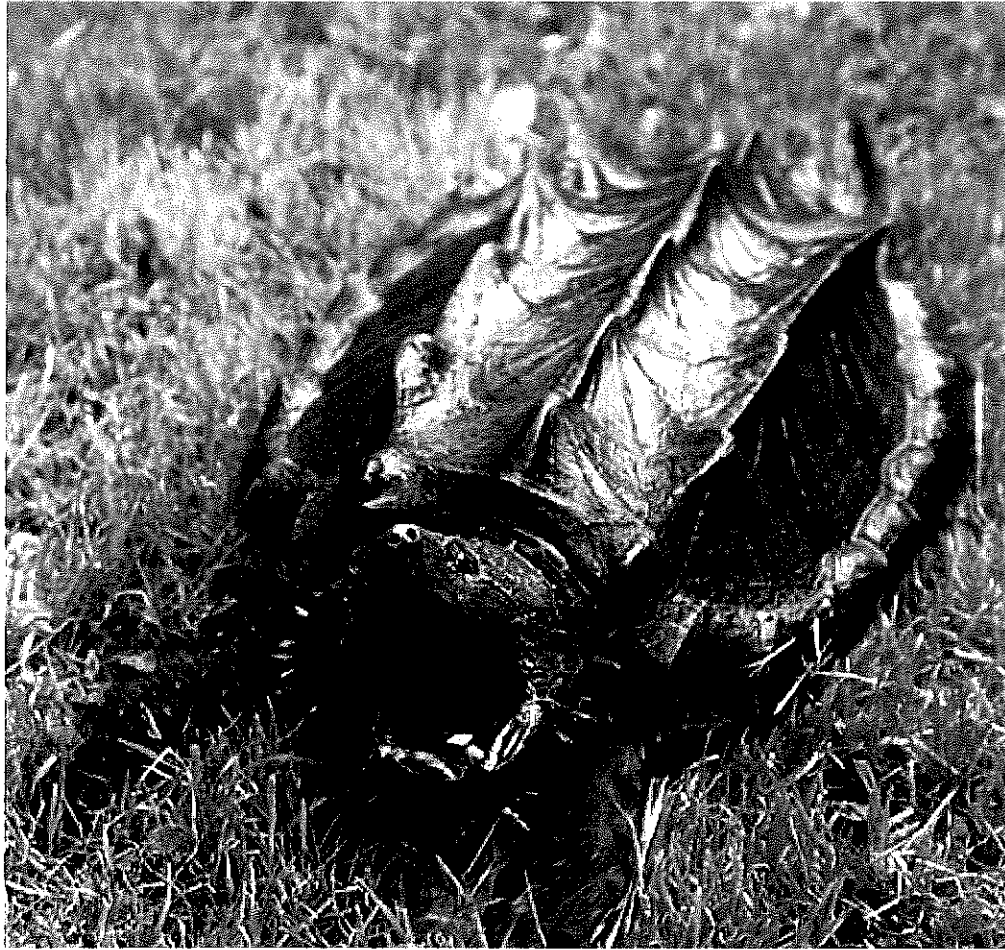
Least Tern (*Sterna antillarum*) Endangered, Resident Breeder



Wood Stork (*Mycteria americana*) Threatened Species, Migrant



Blue Sucker (*Cycleptus elongates*) Threatened, Resident, Occurs in county



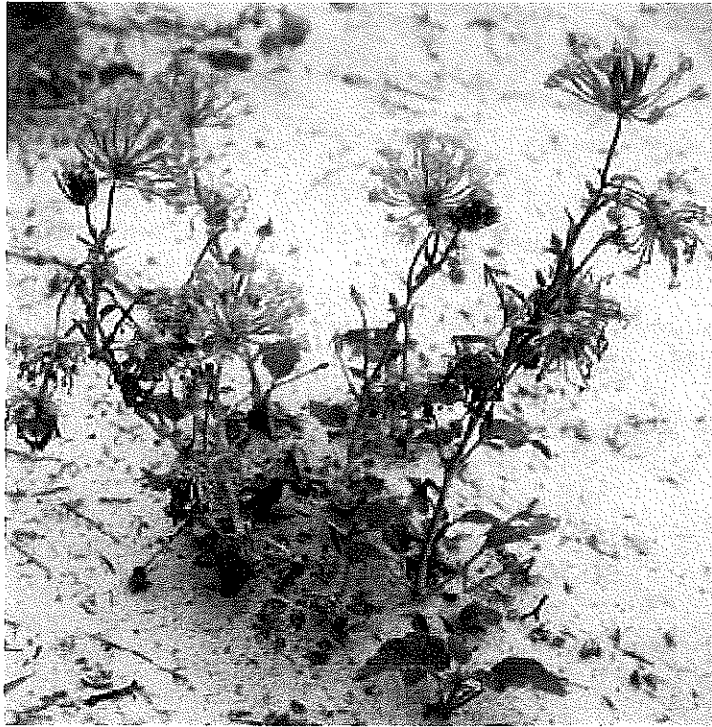
Alligator Snapping Turtle (*Macrochelys temminckii*) Threatened, Occurs in County



Texas Horned Lizard (*Phrynosoma cornutum*) SOC Threatened, Occurs in county

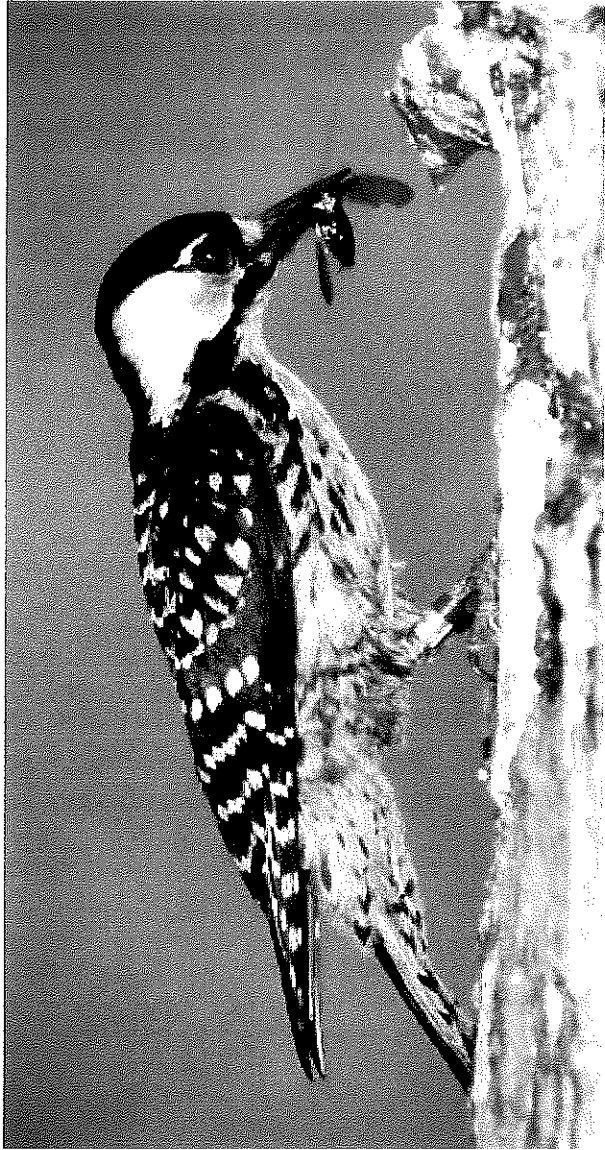


Timber Rattlesnake (*Crotalus horridus*) SOC Threatened, Occurs in county



© Photo courtesy Paul M. Montgomery

Large-Fruited Sand Verbena (*Abronia macrocarpa*) Endangered, Occurs in county



Male



Female

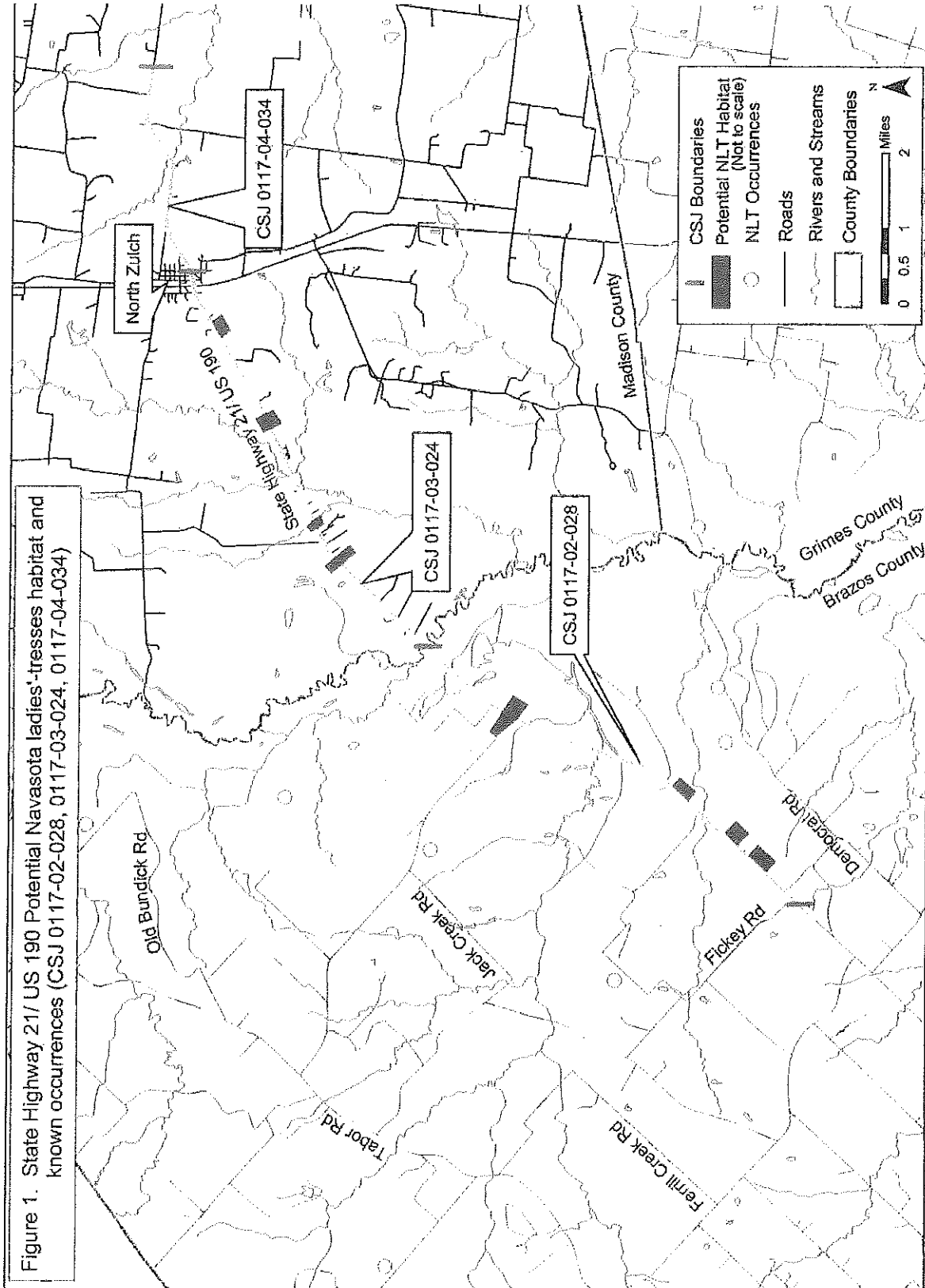
Red-Cockaded Woodpecker (*Picoides borealis*) Endangered, Resident



Houston Toad (*Bufo houstonensis*) Endangered, Occurs in county



Navasota Ladies'-Tresses (*Spiranthes parksii*) Endangered, Occurs in county



- Navasota Ladies' Tresses Federally listed endangered on May 6, 1982 (47 FR 19539)
- Occurs in Brazos, Madison, Robertson and Grimes County
- Navasota Ladies'-Tresses occur in a variety of moist sandy soils near drainages, typically from the upper erodible drainage head, extending along edges of temporary streams to the floodplain of permanent streams. Typical habitat consists of natural openings in upland Post Oak Savanna vegetation (Poole and Riskind 1987, Service 1984, Wilson 1993). Plants are believed to be situated where subsurface flow or seepage of water occurs seasonally, a common feature in other species of the genus (Arft and Ranker 1995, Kathy Parker, Tejas Environmental Services, pers. comm.). It is known that the occurrence of claypans beneath sandy or loamy soils in this area makes these subsurface areas resistant to vertical water percolation, and hence, water tends to travel along these subsurface features toward the dissected drainages typical of the area, providing a relatively dependable moisture source for the orchids.
- 2001 USGS Conducted a Preserve Design Exercise in Brazos County
- 2002 US FWS Biological Assessment of Hwy 21 from Kurten to North Zulch
- 2003 US FWS rendered a Biological Opinion for State Hwy 21 Improvements
- 301 acres of new right of way were acquired for Highway 21
- 29 acres of new ROW were habitat for Navasota Ladies'-Tresses on Highway 21
- Habitat occurs on both sides of highway 21
- TxDOT Proposes to preserve as much NLT habitat as possible on Highway 21
- TxDOT Proposed avoidance measures on High 21
- TxDOT Proposed cutting back slopes of barrow ditches to create critical habitat of drainage and seepage factors potentially conducive to Navasota Ladies'-Tresses habitation on Highway 21.
- TXDOT Proposes to compensate for the loss of NLT habitat on Highway 21 through a monetary contribution to the Navasota Ladies'-Tresses fund administered by the National Fish and Wildlife Foundation (NFWF).
- The primary threat to NLT is destruction or modification of habitat.
- Sections 7(b)(4) and 7(0)(2) of the Endangered Species Act of 1973, as amended (Act) (16 U.S.C. 1531 et seq.) provides limited protection of listed plants to the extent that the ACT prohibits the removal and possession of Federal listed endangered plants or the malicious damage of such plants on areas under Federal jurisdiction, or the removal, cutting, digging, or destruction of endangered plants on non-Federal areas in violation of any State law or regulation or in the course of any violation of a State criminal trespass law.

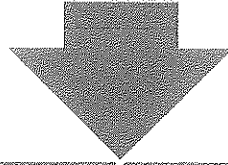
Habitat Destruction

River Bottom
Hardwood Forest

Post Oak Savanah

Perched Water
Tables, Springs,
Bogs and Sloughs

Wetlands



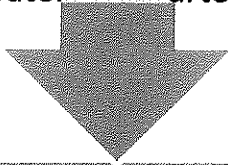
Hydrogeology Damages

Alluvial deposits,
strata and clay
pans

Vertical
percolation of
water and
artesian water

Horrorizontal
movement of
water and
artesian water

Perched Water
Tables, Springs,
Bogs and Sloughs



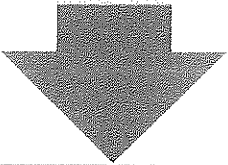
Wetlands Destruction

Filtering of silt
and pollution
laden river water

Riparian
Sedimentation

Replenishes Rich
Fertile soils

Prevents a short
half life lake from
silt sedimentation



Depress Agribusiness

Farming
and
Vinyards

Ranching

Hunting
and
Exotics

Small
Businesses

Land
Ownership

Land
Steward-
ship

Alternative to Millican Dam (Panther Creek) is to Improve and Apply Technology to Metropolitan Areas

**Desalination
of Sea Water**

**Water
Conservation**

**Water
Recovery
and Reuse**

**Storm Water
Collection
and Storage**

T. Barret Lyne, PhD.

18075 FM 974

Bryan, Texas 77808

979-255-5237

April 8, 2010

The Honorable Mark Evans
Chair, Regional H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Judge Evans:

Thank you for your public service and for supporting the United States Fish and Wildlife Service, in the Department of Interior, the National Marine Fisheries Service (NMFS), in the Department of Commerce and the Texas Parks and Wildlife Department in the Great State of Texas. These agencies share in the responsibility for administration of the Endangered Species Act (ESA) in Texas.

Please do not support the Millican Dam (Panther Creek) Reservoir. The proposed inundated lands are potential habitat for 49 species-at-risk listed on the Threatened and Endangered Species List in the Endangered Species Act of 1966. The 49 species-at-risk of the Navasota River Valley that are listed in the Threatened and Endangered Species List are grouped into 6 Endangered Species, 9 Threatened Species, 29 Species of Concern, and 5 Delisted Species. All of these species need to have this habitat preserved for their potential recovery and continued survival. The 5 Delisted Species are proof that wildlife can recover with protection and habitat preservation.

It is imperative that we preserve the Navasota River Valley. It is one of the few remaining hardwood forest river bottoms in the state of Texas. It has a unique clay pan soil systems with perched water tables, bogs, sloughs, and springs that provide the required moisture in a manner uniquely conducive to the subsistence of many of these species-at-risk. This unique asset is a commemorative to our nations natural science, history and rich diversity. Please do not flood any portion of the Navasota River Valley with the Millican Dam (Panther Creek) Reservoir. It would go against all we have accomplished with the United States Fish and Wildlife Service, in the Department of Interior, the National Marine Fisheries Service (NMFS), in the Department of Commerce and the Texas Parks and Wildlife Department in the Great State of Texas.

Thank you for opposing the Millican Dam (Panther Creek) Reservoir and for protecting our state and national natural resources.

Sincerely,



T. Barret Lyne, PhD

18075 FM 974

Bryan, Texas 77808

979-255-5237

birdtrapper1@aol.com

April 8, 2010

RECEIVED

APR 09 2010

TWDB

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

Dear Mr. Ward:

Thank you for your public service and for serving the Region H Water Planning Group in the Great State of Texas.

Please do not support the Millican Dam (Panther Creek) project. The proposed inundated lands are rich in history and historical heritage. One such asset is the El Camino Real de los Tejas or the Old San Antonio Road. This historical asset is over 300 years old and 1,000 miles long. The trails were first surveyed in 1915 when the state of Texas commissioned Mr. Zivley and the survey was permanently marked with granite monuments provided by Mrs. Ferguson, Governor Ferguson's wife, and the Daughters of the American Revolution (DAR). Some of these historical markers and trails will be obliterated by the Millican Reservoir. In 1982, the Texas Legislature designated the OSR as a Texas Trail and the Texas DOT took over its maintenance. In 2000, Kay Bailey Hutchison toured the entire trail from Louisiana to Mexico for Legislative recommendations. For lack of road, Senator Hutchison had to tour the southernmost part of the OSR through the Dolph Briscoe Ranch on horseback. In 2004 the OSR was designated a National Historical Trail by President George Bush. This national designation placed the El Camino Real de los Tejas in the National Park Service Trails System. This is the only such designated trail in the state of Texas and the southern central United States.

The El Camino Real de los Tejas trails of the National Park Service Trails System is of significant historical importance to all Texans and to the Nation as a whole. It is imperative that we preserve this asset as a commemorative to our nations heritage and rich diversity. Please do not flood any portion of this National Park Service Trail.

Thank you for opposing the Millican Dam (Panther Creek).

Sincerely,



T. Barret Lyne, PhD

18075 FM 974

Bryan, Texas 77808

979-255-5237

April 17, 2010

The Honorable Mark Evans
Chair, Regional H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Judge Evans:

Thank you for your public service on the TWDB and for protecting public health and the environment while serving under the regulatory environment of the multinational North Atlantic Free Trade Agreement (NAFTA).

Please do not support the Millican Dam (Panther Creek) reservoir project in Texas. The proposed inundated lands are used for agricultural, recreational, residential, industrial and commercial activities. All of these activities routinely or have at some time utilized and applied chemicals for a variety of reasons including pesticides, herbicides, janitorial, and industrial or municipal disposal in compliance with the applicable federal, state, and local regulatory requirements for a vegetated terrestrial system.

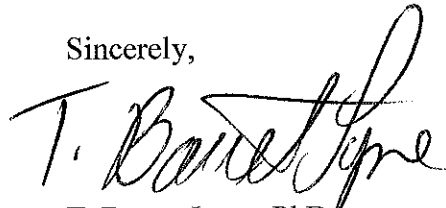
However, these best management chemical application practices, currently in harmony with the environment, may be threatened by the waters of the Millican Dam (Panther Creek) reservoir. The flooding of this land would drastically change the environmental compartment where these regulated conventional chemical practices have been applied for decades. The waters of the proposed Millican Dam (Panther Creek) reservoir would change the one hundred square mile area from a terrestrial based environmental compartment to a freshwater aquatic environmental compartment. The resulting perturbations to the environmental chemistry and degradation of applied conventional chemicals would inherently affect the harmonization of environmental chemistry and chemical fate requirements defined under the North Atlantic Free Trade Agreement (NAFTA) in *Harmonization of environmental chemistry and fate data requirements under NAFTA* by the U.S. Environmental Protection Agency and the Pest Management Regulatory Agency of Canada in Regulatory Proposal PR02001-2, October 5, 2001 and promulgated January 1, 2003.

Chemicals and chemical applications are researched, developed and applied under very strict environmental and public health regulations. To diligently develop, manufacture, and apply chemicals and waste materials for decades under one set of regulatory requirements for a particular environmental compartment and then to suddenly change the whole environment

where the mixture of these conventional chemicals and their metabolites are safely compartmentalized is ludicrous and is a deliberate assault on the environment and public health.

Thank you for opposing the Millican Dam (Panther Creek) reservoir in Texas and for upholding the environmental chemistry, chemical degradation, and chemical fate regulations of NAFTA and other applicable federal, state, and local regulatory agencies for the protection of public health, water and the environment.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Barret Lyne". The signature is fluid and cursive, with a large, sweeping flourish at the end.

T. Barret Lyne, PhD

18075 FM 974

Bryan, Texas 77808

979-255-5237



ARTHUR M. HENSON

MADISON COUNTY JUDGE

101 West Main • Suite 110 • Madisonville, Texas 77864-1990
(936) 348-2670 • FAX (936) 348-2690 • art.henson@madisoncountytexas.org



April 29, 2010

Honorable Mark Evans
Trinity County Judge
Chairman Region H Water Planning Group
San Jacinto River Authority Office
1577 Dam Site Rd.
Conroe, Texas 77304

Dear Judge Evans,

Attached is a Resolution adopted in Commissioners' Court, Monday, April 26th, 2010 opposing Region H Water Plan Group's recommendation to designate the proposed Mullican Reservoir Site as a unique Reservoir Site. The Planning Group (including myself) voted to advance the initial plan to the next step which was to conduct public hearings and receive comments from the public concerning the proposed plan. Public hearings were conducted within the Region at Houston, Madisonville and Conroe.

I attended the meetings in Madisonville and Conroe as did many of the board members and consultants, and there was no shortage of opposition and frustration displayed at these meetings. Many questions were asked for which no answers can currently be provided as no comprehensive study has been conducted to determine the total impact the designation of Mullican Reservoir as a unique reservoir site would have on the area. About all we know about the proposed Mullican Reservoir is that based on current calculations that if Mullican Reservoir was built it would provide sufficient water to meet the projected water requirement in Region H in 2040 and beyond. I think that many of the questions raised during the hearing need to be addressed before a rational decision can be made to designate Mullican Reservoir as a unique site.

Other options have been considered to meet the projected demand in 2040 and beyond, including desalination which has been deemed too expensive. The technology of desalination currently exist and is in use in several places around the world and seems to be working pretty well. More emphasis and resources needs to be devoted to improving this technology and reducing the cost of production of desalinated water.

In view of the unknown impact that the designation of Mullican Reservoir as a unique reservoir site will have on the area, I think that the Planning Group should remove this recommendation from the Plan and place more emphasis on developing desalination technology and explore other opportunities that will meet the projected shortages and reduce the cost of providing clean water beyond 2040.

Sincerely,

A handwritten signature in black ink, appearing to read "Arthur M. Henson".

Arthur M. Henson
Madison County Judge

RESOLUTION

WHEREAS, Madison County recognizes the importance of the need to plan for future water requirements to meet the projected growth within Region H and throughout the State of Texas;

WHEREAS, Madison County recognizes the many factors and challenges involved in developing a comprehensive water plan to provide for future water requirements;

WHEREAS, Madison County supports many of the recommendations contained in the proposed 2011 Region H Water plan that if implemented will materially increase the future water supply in the Region;

WHEREAS, the proposed Region H Water Plan includes the proposed Millican Reservoir and recommends it's designation as a unique reservoir site by the Texas Legislature;

WHEREAS, the designation of the Millican Reservoir as a unique reservoir site most likely will have a negative impact on land values, farming/ranching operations, wild life habitat/management, minerals, public facilities, state and county highways and roads and the tax base of Madison and surrounding counties;

WHEREAS, the location of the proposed reservoir dam has not been identified and no in depth study has been conducted to assess the total impact the designation/construction of Millican Reservoir would inflict on the affected area;

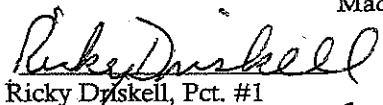
WHEREAS, the proposed Millican Reservoir would have no economic value to Madison County as under the proposed plan it would act as a holding reservoir to supply projected water requirements for the Gulf Coast Area and not suitable for recreational use;

NOW THEREFORE, BE IT RESOLVED BY THE COMMISSIONERS COURT OF THE COUNTY OF MADISON, TEXAS that it is the opinion of this Court that, sufficient information has not been developed to determine the total impact the designation of the proposed Millican Reservoir as a unique site will have on the affected areas and BE IT FURTHER RESOLVED THAT by adoption of this resolution COMMISSIONERS COURT OF MADISON COUNTY, TEXAS opposes the inclusion of a recommendation in the Region H Water Plans that the proposed Millican Reservoir be designated as a unique reservoir site by the Texas Legislature and be removed from the Region H Plan and replaced with an alternative recommendation.

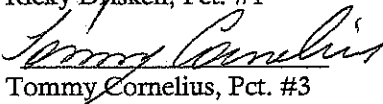
Passed and approved this 26th day of April, 2010.



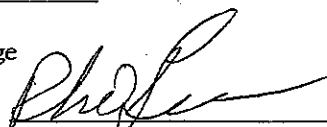
Arthur M. Henson
Madison County Judge



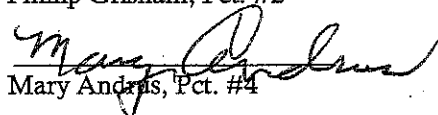
Ricky Driskell, Pct. #1



Tommy Cornelius, Pct. #3



Phillip Grisham, Pct. #2



Mary Andrus, Pct. #4

ATTEST:


Charlotte Barrett

May 23, 2010

Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

We are writing this letter in protest of the Millican Reservoir Project. The proposed reservoir appears to be an easy choice for Fort Bend and Harris County to look to the North for future water supply. Unfortunately, this property under consideration is fertile ranch/farming land and represents residents' livelihoods. We presently own acreage in Keith, TX, Grimes County that has been in my (Paula Moore) family since the early 1900's (over a hundred years).

Fortunately, Texas is not a land locked State. The Gulf of Mexico is at Fort Bend and Harris County's back door. With the advancement of technology and the Reservoir Project slated for forty years out, the most practical solution would be desalinization of the Gulf of Mexico. Using the Gulf as the water supply, would be a 'win, win' solution for all parties involved.

The Millican Reservoir Project is a bad idea and needs to be withdrawn from consideration immediately. The answer is the Gulf Of Mexico.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom + Paula Moore". The signature is fluid and cursive, with a large loop for the letter 'P' in Paula.

Tom and Paula Moore
1714 Serval Lane
College Station, TX 77840
Email: ralphtmoore@yahoo.com

RECEIVED

MAY 27 2010

TWDE

Catherine Payne
1800 Holleman Drive, Apt. #1515
College Station, TX 77840

May 25, 2010

Temple McKinnon
Water Resource Planning and Information
Texas Water Development Board, P.O. Box 13231
Capitol Station, Austin, Texas 78711

Dear Ms. McKinnon:

I am 26 years old and own no land that may be condemned by the proposed Millican Reservoir, but I wish to express my fears for the future. I am concerned the following may occur in my lifetime if reservoir creation rates escalate:

1. Displaced ranchers and farmers sell their capital and abandon their trade
2. Land prices and costs increase
3. Ranchers and farmers fragment and sell their property, abandoning their trade
4. Tourism further inflates land values that surround the lake
5. More ranchers and farmers abandon their trade
6. Less food is produced domestically
7. More (unregulated) food is imported
8. National security is compromised via reduced agricultural self-sufficiency

I oppose a plan that reacts to licentious public water use for a city that receives an uncaptured 50 inches of rain annually. Rural producers of city-dweller food and inter-generational stewards of natural resources will unfairly bear the cost of continuous cheap water for Houstonians. Please consider alternative, proactive solutions (rainwater collection, choosing a deep-valleyed river, desalination, education, regulation, taxation for landscaping.....) so that urbanites will pay a truer, fair cost for their water. As you know well, these drowning lands have been purchased with lives, not with the fair market price. Let the legacy of safe and effective food production thrive in the Navasota valley. Do not allow thirst to be irreversibly traded for hunger.

Sincerely Yours,



Catherine Payne

4-8-10

HON. MARK EVANS

I AM A 58 year old soon to be retired Carpenter that has my home and 71 ACRES in Walker County, that would be submerged by the proposed Bedias Reservoir. My Land and Family are my life, I have worked and saved and worked some more to be able to live in such a beautiful place. A lot of blood, sweat & tears not to mention money has been poured into this land. My children have learned the cycles of life and nature gardening, hunting, fishing learning to appreciate and respect the natural world. I was planning on my grandkids having that opportunity someday along Bedias Creek and this 71 ACRES.

Surely there is a better way to provide the people of Houston with water, than to take peoples land that they love and is home. Please find another way and do not build Bedias Reservoir!

Sincerely,
Glen Roe
97 S.C. Walker Loop
Bedias, TX. 77831

April 27, 2010

Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

Mr. Evans,

I have attended all the public meetings and at each meeting numerous things come to light about the proposed Milican dam reservoir that make it a ridiculous plan.

It appears that after you get the land for the reservoir (72,000 acres) there will be additional land condemned around the reservoir (64,000 acres) and also wetlands that the reservoir destroys will have to be replaced which comes to about 150,000 acres of land you are proposing to take from families that have lived there for generations. In some cases where people have just gone to the country and bought land, built their homes for the freedom that country life offers, our piece of the American dream. We were living that American dream and woke up one morning to face our land being taken away, our freedoms lost! This is just not right.

Houston has other avenues to procure water for 2040 without destroying the lives of so many people in the process. Is the greed of a city worth what you are planning? This is our land. I have built a home, worked, cleared brush, planted and buried loved ones in the Brazos Valley which now because of your plan stands to be destroyed and I am too old to start over.

Please, take another look at desalinization. Even if it costs more, which it doesn't, at least it doesn't destroy families, homes, wild life, endangered species and LAND. As intelligent as we all are, we can find ways to conserve water. We can't make more land.

Thank you for taking the time to consider what is so important to so many.

Sincerely,



Margie Rogers
9695 Timberwilde
Bryan, Texas, 77808
979 229 6323

WRITTEN COMMENTS ON THE INITIALLY PREPARED PLAN
SUBMITTED TO THE REGION H WATER PLANNING GROUP

The Region H Water Planning Group welcomes public comment. If you wish to submit written comments, please provide the information requested below and return this form to a consulting team member.

Name: Elaine Sheffield
Affiliation: Homeowner of Historical Farm & Ranch Land
Address: CR 103, Iola Texas 77861

713.542.4651 Telephone ----- Fax Elaine.sheffield@exterran.com E-Mail

Comments: **The Family of Robert & Elaine Sheffield, owners of 50 acres on CR 103, (near intersection of CR 109) oppose the proposed Region H Millican Reservoir.** As the current plan stands our property would be condemned for maintenance use ~ which is a nice way of saying it will be sold to a developer at a later date for water front property – i.e. Lake Conroe, etc.... which would be theft at the state level. This property has been in the family (with documentation of annual property tax receipts from 1850 forward) the log cabin (reported to have been built during the 1840's) still stands. Do we really want to destroy precious Texas history? The land has been held under the Davis – Stover – Hammond – Sheffield names – all family!

The Millican Reservoir would also encompass areas where the endangered wildflower exist in limited quantities – bitter weed and the very endangered Navasota Ladies Tress found at Panther Creek and other areas in the proposed Millican Reservoir...

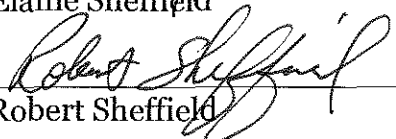
The Millican Reservoir would encompass existing and aged well heads that would possible lead to leaks into the water supply and endanger – fish, wildlife, wetlands and humans.

The Millican Reservoir would encompass the “dump” as located on Hwy. 30 between Carlos, Panther Creek and Bryan. Can you just image the toxins in the water supply from that source?

The Millican Reservoir would make it difficult to travel ~ if not economically and time wise unfeasible ~ to reach the Bryan College station for work, for shopping, for school and medical assistance. Who will pay for the new roads required after the existing roads are flooded out? How long will it take and how many lives will be lost due to the change?

Quality common sense indicates that existing structures, wildlife, environmental issues and potential injury to humans make the proposed Millican Reservoir economically unfeasible.

Date: May 7, 2010 Signed 
Elaine Sheffield

Date: May 7, 2010 Signed 
Robert Sheffield

May 12, 2010

Honorable Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P O Box 329
Conroe, TX 77305-0329

SUBJECT: MILLICAN RESERVOIR PROJECT & UNIQUE RESERVOIR SITE DESIGNATION

Dear Honorable Evans,

I am a resident in the area which Regions G and H are proposing to included in the Millican Reservoir Project, and therefore, to be designated as "unique reservoir site". I strongly oppose any attempt of the two Regions' proposals of a reservoir to be built anywhere along the Navasota River. Also, I believe that Texas Water Development Board's attempt to have the property located in the proposed Millican Reservoir area to be designated as "unique reservoir site" is extremely premature in nature and would only serve to devalue our property that we have worked hard for and paid for! Our property which includes our homes, cattle, deer, owls, hawks, and other wildlife of all kinds is as important to us as someone in Houston's concrete and pollution! Your plans to have our property designated as "unique reservoir site" should stop immediately!

In the opinions of many researchers, including those from Texas A&M University, the proposed Millican Reservoir Project is definitely not the best solution for Harris, Brazoria, Ford Bend, and any other counties future water shortages. Instead of planning for new reservoirs in the future, why not plan to build more seawater desalination plants? Research indicates that seawater desalination is more cost effective than the reservoir route. As for back as 1966, researchers have reported that retaining water in reservoirs and/or lakes cause the acceleration of water evaporation and that the advanced evaporation causes devastating ecological impact to our climate.

An Outraged Citizen,



Cheryl Wells
14120 Starview Ln
North Zulch, TX 77872

May 15, 2010

Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

Re: Panther Creek Millican Dam

Hon. Mark Evans:
I am writing to oppose the Panther Creek Millican Dam.

As a property owner in Brazos County, I can attest that such a proposed dam would alter the lives and livelihoods of many of my neighbors. There are many scientific and ecological reasons to oppose such a project and I will leave that to others. My protest arises from the history of the Navasota River land owners and their lineage. The Navasota runs high with the sweat and tears of folks living along the river for many years. The Navasota bottom land is brown with their blood and toil striving for their hopes and dreams for themselves and their progeny. Many of my neighbors are five generation land owners. This kind of commitment to the land binds families, creates communities and memories for generations. It is unconscionable to visit this dam and its destruction to the people of the Navasota River Bottom.

I hope that among the Region H Water Planning Group there are but a handful of members that will hear the cry to seek other alternatives, and there are many, to the water needs of Region H.

Respectfully,

A handwritten signature in black ink, appearing to be 'C. Leon Williamson', followed by a long horizontal line extending to the right.

C. Leon Williamson
106 East 26th
Bryan, Texas 77803

WRITTEN COMMENTS ON THE INITIALLY PREPARED PLAN
SUBMITTED TO THE REGION H WATER PLANNING GROUP

The Region H Water Planning Group welcomes public comment. If you wish to submit written comments, please provide the information requested below and return this form to a consulting team member.

NAME: Ben Windsor

AFFILIATION: _____

ADDRESS: Navasota TX 77868
City State Zip

Telephone _____ Fax _____ E-Mail _____

COMMENTS: How is it that the Navasota River will be
cut off from Navasota? What are we gonna
call the tiny creek left in Grimes County?
The millican Resivor stream? Let them dam
up their own backyards!

Date: [Signature] Signed: Ben Windsor

Comments on New or Updated WMS

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The Dow Chemical Company
2301 N. Brazosport Blvd.
Freeport, Texas 77541-3257
USA

June 4, 2010

Hon. Mark Evans
Chair, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, TX 77305-0329

Dear Judge Evans:

Dow Chemical Texas Operations respectfully submits the attached Region H Water Management Strategy Analysis Technical Memorandum: Off-Channel Reservoir and Pump Station Expansion. Please accept this as a formal comment requesting this strategy to be added to the 2011 Region H Plan.

Sincerely,

A handwritten signature in black ink, appearing to read "Gená Leathers".

Gená Leathers
Global Technology Leader – Water
Environmental Technology Center

REGION H WATER MANAGEMENT STRATEGY ANALYSIS TECHNICAL MEMORANDUM

STRATEGY TITLE: Off-Channel Reservoir and Pump Station Expansion

DATE: June 4, 2010

SUMMARY

STRATEGY DESCRIPTION: The Dow Chemical Company – Texas Operations is considering increasing the total raw water pumping and storage capacity available for use at their industrial plant in Freeport, Texas. Increasing the site's reservoir storage capacity and building a new river intake and pump station would give Dow more flexibility in managing their raw water resources and provide protection during drought conditions, when pumping from the Brazos River is limited or curtailed. This project would firm up existing water rights held by Dow and would be used to meet manufacturing and municipal shortages in Brazoria County. The supply quantity indicated is very conservative with respect to the impact on existing and future firm yield. The proposed reservoir is needed to improve reliability of existing firm yield and provide an additional firm yield supply quantity of 21,800 acre-feet/year.

SUPPLY QUANTITY: 21,800 acre-feet/year

SUPPLY SOURCE: Brazos River

IMPLEMENTATION DECADE: 2020

TOTAL STRATEGY COST: \$124,468,000

ANNUAL UNIT WATER COST: \$481 per acre-foot

Water Management Strategy Analysis Description

Introduction:

The current supply available from Dow's water rights is 137,475 acre-feet per year. During the drought in the summer of 2009, extremely low flows caused Dow to cease pumping from the Brazos River into their raw water storage reservoirs. The construction of a new, larger reservoir will increase reservoir storage by an additional 44,000 acre-feet to establish a 4- to 8-month supply, bridging the driest months of the critical drought and meet more of Dow's current raw water demand. A new raw water intake and pump station, with a pumping capacity of 201,000 gpm, will make efficient use of the additional storage capacity, and allow Dow to achieve a total reliable supply of 220 cubic feet per second (cfs), equivalent to an annual supply of 159,275 acre-feet per year. Construction of the project would therefore provide an additional 21,800 acre-feet per year of supply.

Analysis:

The new reservoir will have a water depth of 25 feet which will necessitate an embankment height of approximately 32 feet. A major underlying assumption of this conceptual-level study is that geologic conditions would be suitable for constructing an earthen embankment. For the new reservoir, a homogeneous embankment with a vertical chimney filter/drain was assumed for cost estimating purposes. The embankment crest would be 6 feet above the conservation storage level. The outlet works system and spillway would be located adjacent to each other and discharge into Oyster Creek.

Water User Group Application:

**Region H Water Planning Group
2011 Regional Water Plan**

The supply developed by the project would be used to better meet projected manufacturing and municipal supply shortages in Brazoria County during drought conditions, based on current demand. Historical use from the Dow reservoir systems has been 80% for Dow's benefit and 20% for non-Dow benefit which includes municipal and other industrial. The municipal beneficiaries of Dow's reservoir systems is through Brazosport Water Authority (BWA) which supplies surface water needs for 7 member cities in southern Brazoria County.

Environmental Impact:

While the specific location of the reservoir expansion is not identified, the project would impact approximately 2,000 acres of land, which is likely currently used for agricultural production and grazing.

Although a number of federal and state endangered and threatened species are listed for Brazoria County, the existing disturbed condition of the proposed sites suggests that any impacts to listed species will be moderate to low.

Large changes in nearby property values are not anticipated due to the rural nature of the existing area. Recreational use of the reservoir is anticipated to include fishing and bird watching.

Issues and Considerations:

The development of a project of this nature will require the study and consideration of many issues. These will include, but are not necessarily limited to: TCEQ water rights permitting for additional off-channel storage capacity, U.S. Army Corps of Engineers Section 404 permitting, environmental assessments of the intake and pump station and reservoir sites, Sand, Gravel and Marl permit from the Texas Parks and Wildlife Department, compliance with TCEQ dam safety regulations including reviews and construction approvals, revisions to FEMA floodplain mapping for the Oyster Creek and Brazos River floodplain, utility relocations, new electrical power supply to the pump station site, road relocations, sediment removal (permitting and facility design), Storm Water Pollution Prevention Plans for construction operations, and site security.

**Appendix B to Chapter 4 –
Water Management Strategies**

**Table 1
Off-Channel Reservoir Expansion Cost Summary**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
PROJECT COST SUMMARY					
1	CONSTRUCTION (CAPITAL) COST	1	LS	\$78,490,000	\$ 78,490,000
2	ENGINEERING, FINANCIAL & LEGAL SERVICES, AND CONTINGENCIES	1	LS	\$27,472,000	\$ 27,472,000
3	LAND & EASEMENTS & SURVEYING	1	LS	\$ 8,100,000	\$ 8,100,000
4	ENVIRONMENTAL - STUDIES & MITIGATION	1	LS	\$ 2,000,000	\$ 2,000,000
5	INTEREST DURING CONSTRUCTION	1	LS	\$ 8,406,000	\$ 8,406,000
PROJECT COST					

ITEM	DESCRIPTION	ANNUAL TOTAL					
		2010	2020	2030	2040	2050	2060
ANNUAL COST SUMMARY							
1	DEBT SERVICE (Off-Channel Reservoir)	\$ -	\$ 6,753,000	\$ 6,753,000	\$ 6,753,000	\$ 6,753,000	\$ 6,753,000
2	DEBT SERVICE (Intake and Pump Station)	\$ -	\$ 1,994,000	\$ 1,994,000	\$ 1,994,000	\$ -	\$ -
3	OPERATION & MAINTENANCE (O&M)	\$ -	\$ 1,340,000	\$ 1,340,000	\$ 1,340,000	\$ 1,340,000	\$ 1,340,000
4	PUMPING ENERGY COSTS	\$ -	\$ 397,000	\$ 397,000	\$ 397,000	\$ 397,000	\$ 397,000
5	PURCHASE OF WATER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL ANNUAL COST							

ALL FACILITIES

CONSTRUCTION COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
CONSTRUCTION COST SUMMARY					
1	PUMP STATIONS	1	LS	\$16,287,000	\$ 16,287,000
2a	PIPELINES	0	LS	\$ -	\$ -
2b	PIPELINE CROSSINGS	0	LS	\$ -	\$ -
3	WATER TREATMENT PLANTS	0	LS	\$ -	\$ -
4	WATER STORAGE TANKS	0	LS	\$ -	\$ -
5	OFF-CHANNEL RESERVOIRS	1	LS	\$62,203,000	\$ 62,203,000
6	WELL FIELDS	0	LS	\$ -	\$ -
7	DAMS & RESERVOIRS	1	LS	\$ -	\$ -
8	RELOCATIONS	0	LS	\$ -	\$ -
9	WATER DISTRIBUTION SYSTEM IMPROVEMENTS	0	LS	\$ -	\$ -
10	STILLING BASINS	0	LS	\$ -	\$ -
11	WASTEWATER RECLAMATION PLANTS	0	LS	\$ -	\$ -
12	OTHER ITEMS	0	LS	\$ -	\$ -
PROJECT COST					

Table 1 (cont'd)
 Off-Channel Reservoir Expansion Cost Summary

ALL FACILITIES

OPERATIONS & MAINTENANCE (O&M) COSTS

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
OPERATION & MAINTENANCE (O&M) COST SUMMARY					
1	PUMP STATIONS	2.5%	%	\$16,287,000	\$ 407,000
2a	PIPELINES	1.0%	%	\$ -	\$ -
2b	PIPELINE CROSSINGS	1.0%	%	\$ -	\$ -
3	WATER TREATMENT PLANTS	1	LS	\$ -	\$ -
4	WATER STORAGE TANKS	1.0%	%	\$ -	\$ -
5	OFF-CHANNEL RESERVOIRS	1.5%	%	\$62,203,000	\$ 933,000
6	WELL FIELDS	1.0%	%	\$ -	\$ -
7	DAMS & RESERVOIRS	2.5%	%	\$ -	\$ -
8	RELOCATIONS	1.0%	%	\$ -	\$ -
9	WATER DISTRIBUTION SYSTEM IMPROVEMENTS	1.0%	%	\$ -	\$ -
10	STILLING BASINS	1.0%	%	\$ -	\$ -
11	WASTEWATER RECLAMATION PLANTS (see previous	1	LS	\$ -	\$ -
12	OTHER ITEMS	1.0%	%	\$ -	\$ -
ANNUAL OPERATION & MAINTENANCE COST					

L A W O F F I C E S O F
BOOTH, AHRENS & WERKENTHIN, P.C.

A PROFESSIONAL CORPORATION
515 CONGRESS AVENUE, SUITE 1515
AUSTIN, TEXAS 78701-3503
512/472-3263 • 512/473-2609

MICHAEL J. BOOTH
FRED B. WERKENTHIN, JR.
WIL GALLOWAY
TREY NESLONEY

CAROLYN AHRENS
OF COUNSEL

JOSEPH S. BABB
OF COUNSEL

June 8, 2010

Via Email and Regular Mail

Mr. Jason Afinowicz (Jason.Afinowicz@aecom.com)
AECOM
5757 Woodway
Suite 101
Houston Texas 77057-1599

Mr. Jace Houston (jhouston@sjra.net)
San Jacinto River Authority
1577 Damsite Road
Conroe, Texas 77304

Dear Jason and Jace:

Thank you for the opportunity to provide public comment, on behalf of Montgomery County MUDs 8&9 (“MUDs 8&9”), regarding the Region H Initially Prepared Plan.

The Initially Prepared Plan includes a recommended alternative strategy for MUDs 8&9 that is based on desalination of groundwater. (See Table 4-5, etc.). Since the time that the technical memorandum for this alternative strategy was commenced, MUDs 8&9 worked successfully toward changes in the Lone Star Groundwater Conservation District’s rules and district regulatory plan that will facilitate development of the anticipated project. For example, the rules and plan now recognize all water that is produced from below the base of the Jasper aquifer as described in USGS Open File Report 03-299 as an acceptable water supply for meeting the district’s groundwater conversion requirements. The expectation of reaching water at a favorable depth and with favorable salinity levels presented cost-savings for production and for treatment of produced water at a desalination facility. Such wells are now addressed in Section 3A of the district’s rules and are referred to as Alternative Water Supply (“AWS”) wells. The district’s rules also recognize that production from these deeper formation wells is not anticipated to cause concern with regard to subsidence. Lone Star GCD’s new rules were adopted on April 22, 2010, and are available on that district’s web page.

Mr. Jason Afinowicz / Mr. Jace Houston
June 8, 2010
Page 2 of 3

MUDs 8&9 are pleased to provide more detailed cost information for your use in the Region H plan. NRS Consulting Engineers prepared this information for MUDs 8&9 using conservative cost estimation principles such that actual costs may be less.

Source of Supply: Water-bearing formations below the base of the Jasper aquifer as described in USGS Open File Report 03-299
Groundwater Production: 3 MGD (average)
Plant Capacity and Total Supply: 2 MGD (average)
Disposal: Assumes disposal of municipal waste in a deep-formation injection facility suitable for such non-hazardous waste streams.
Total Project Infrastructure Costs: \$12,000,000
Total Project Annual O&M: \$890,000
Unit Water Cost: \$2.66/kgal

An updated technical memorandum that incorporates this information is attached. We anticipate supplementing the MUDs' cost information further, after the MUDs receive a formal cost analysis at a joint board meeting scheduled later this month, and again as new information becomes available.

In addition to the revised memorandum, the following information may be helpful in populating the tables in the IPP and adjusting other language that addresses MUDs 8&9's desalination strategy.

1. Pg. 4-18, Table 4-5: MUDs Desal Strategy Yield ac-ft/yr is 2,240
2. Pg. 5-7, (above section 5.3): Should read "Montgomery County MUD 8/9 Brackish Groundwater Desalination will not affect other water management strategies. Based on an assessment of the local geology and injection well permitting requirements, a concentrate disposal well is determined feasible."
3. Pg 9-3, (AWMS table, line #4):
Start decade: 2010 (2014)
Project volume: 2,240
WWP Capital cost: \$12,000,000

On another matter, and with regard to the Technical Memoranda for indirect reuse, we note that the last two sentences in the Issues and Considerations section assumes legal issues that may be controverted in the permitting process. It is factually correct to say, as the technical memorandum does, that the WMS is "contingent on TCEQ granting a bed-and-banks permit for the groundwater-based WWTP discharge." However, we ask that you strike the last two sentences of the section. The standards for permitting are those stated in Chapter 11 of the Water Code, and Chapter 11 could be cited if additional support for the section is necessary.

Mr. Jason Afinowicz / Mr. Jace Houston
June 8, 2010
Page 3 of 3

Thank you for consideration of MUDs 8&9's comments. As always, we appreciate your assistance. If you need additional information, please do not hesitate to call us.

Regards,

A handwritten signature in black ink, appearing to read 'Carolyn Ahrens', with a long horizontal flourish extending to the right.

Carolyn Ahrens

CC via Email:

Ms. Temple McKinnon, TWDB
Mr. Roy McCoy, President, MUD 8
Mr. James Bustin, President, MUD 9
Mr. Ross Radcliffe, General Counsel for MUD 8
Mr. Clark Lord, General Counsel for MUD 9
Mr. Michael Irlbeck, NRS Consulting Engineers
Mr. Bill Norris, NRS Consulting Engineers
Ms. Maegan Ellis, NRS Consulting Engineers

**REGION H WATER MANAGEMENT STRATEGY ANALYSIS
TECHNICAL MEMORANDUM**

STRATEGY TITLE: Montgomery County MUDs 8 and 9 Brackish Groundwater Desalination

DATE: June 7, 2010

SUMMARY:

STRATEGY DESCRIPTION: Development of a brackish groundwater desalination facility that would supplement existing wells, reducing dependence on fresh water formations of the Gulf Coast Aquifer.

SUPPLY QUANTITY: Up to 2,240 acre-feet per year (average 2.0 MGD)

SUPPLY SOURCE: Brackish groundwater from below the base of the Jasper aquifer as described in USGS Open File Report 03-299, in Montgomery County.

IMPLEMENTATION DECADE: 2010 (2014) – All groundwater production and treatment infrastructure.

TOTAL STRATEGY COST:

Infrastructure costs: \$12,000,000
Annual operation cost: \$890,000

UNIT WATER COST: \$2.66/kgal

Water Management Strategy Analysis Description

Introduction:

The Lone Star Groundwater Conservation District (LSGCD) has mandated a county-wide reduction in groundwater pumping, limiting groundwater to 70 percent of total county demands, to be met by 2016. A preliminary evaluation of existing groundwater data conducted by the MUDs concluded that a suitable quantity and quality of water exists in the study area in three sand zones ranging from 1,700 to 2,800 feet below msl in depth. Water quality in each of these potential production zones is estimated to be brackish (1,000 to 5,000 milligrams per liter [mg/L] Total Dissolved Solids [TDS]) within the study area. LSGCD has defined acceptable "Alternative Water Sources" to include groundwater produced from geologic formations underlying the lowest boundary of the GAM, but only to the extent that any such production will not threaten the quality or the quantity of fresh water supplies within the Gulf Coast Aquifer within the District.

Analysis:

Montgomery County MUDs 8 and 9 have commissioned a study of the engineering and permitting feasibility of developing and treating this brackish groundwater as an alternate means to meet the mandated groundwater reduction. Based on current LSGCD regulations, the MUDs combined groundwater pumping limit (70% of the total permitted pumping amount in 2009) will be approximately 1.16 MGD beginning in 2016. Based on projected demands, the MUDs' maximum unmet demand, or conversion requirement, would begin in 2016 at 0.61 MGD and reaches a maximum of 1.55 MGD in 2035 and after. Therefore, a brackish desalination facility of 2.0 MGD capacity is presently envisioned. If determined feasible, the ongoing analysis will also estimate the implementation and operational costs of such a project.

Water User Group Application:

Treated water would meet shortages for the Montgomery County MUD 8 and 9 WUGs and increase the amount of ground-water derived return flow.

Issues and Considerations:

The key permitting consideration is concentrate disposal. TCEQ has undergone rulemaking to develop a general permit for injection wells for reverse osmosis (RO) concentrate disposal. There is precedent for both surface and injection well disposal of RO concentrate in Texas (over 30 facilities with capacity greater than 0.25 MGD).

References:

Texas Water Development Board. 2006. A Desalination Database for Texas. Revised October 2006. Prepared by Jean-Philippe Nicot, Steven Walden, Lauren Greenlee, and John Els. Texas Water Development Board, Austin, Texas.

www.twdb.state.tx.us/RWPG/rpqm_rpts/2004483021_Desal_Database_Texas_Rev.pdf

R.W. Beck, Inc. 2004. Guidance Manual for Permitting Requirements in Texas for Desalination Facilities Using Reverse Osmosis Processes. Prepared for the Texas Water Development Board by R.W. Beck, Inc.

www.twdb.state.tx.us/RWPG/rpqm_rpts/2003483509.pdf

LSGCD Regulations.

<http://www.lonestarqcd.org/>

Other Comments

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June 8, 2010

Honorable Mark Evans, Chair
Region H Water Planning Group
c/o Reed Eichelberger
San Jacinto River Authority
P.O. Box 329
Conroe TX 77305-0329

Subject: 2011 Region H Water Plan

Dear Judge Evans:

The Galveston Bay Foundation would like to thank the Region H Water Planning Group for its efforts in seeking solutions to provide water for people and the environment in this region. On behalf of the Galveston Bay Foundation Board of Trustees and members, we are providing comments on the *2011 Initially Prepared Plan*.

The mission of the Galveston Bay Foundation, a 501(c)(3) non-profit organization founded in 1987, is to preserve, protect, and enhance the natural resources of the Galveston Bay estuarine system and its tributaries for present users and for posterity.

Not only does Galveston Bay produce more oysters than any other single water body in the country, as well as a third of the recreational and commercial fishing revenues in the state, it is also important for local jobs and for our quality of life. Our bay provides immense recreational and ecotourism opportunities such as birding, kayaking, and canoeing. Protecting vital freshwater inflows to Galveston Bay, as well as protecting instream flows in its tributaries is key to the continued health and productivity of Galveston Bay. These inflows help produce a range of salinities in the bay that is unique and characteristic to Galveston Bay and provide inputs of beneficial nutrients and sediments. In short, freshwater inflows are the life blood of our estuary.

We acknowledge the planning group's challenging mission to balance future water demands and its efforts to identify major water strategies to meet those demands. We offer the following comments in the spirit of improving the plan's ability to provide for the environmental needs of Galveston Bay and its tributaries while still providing for human needs:

1. The Galveston Bay Foundation commends the efforts of the planning group to preserve freshwater inflows into Galveston Bay by adopting the work of the Galveston Bay Freshwater Inflows Group (GBFIG). However, we believe that the Region H Water Plan should consider taking its freshwater inflow targets from the freshwater inflows standards to be developed by June 2011 by the Texas Commission on Environmental Quality as mandated by Senate Bill 3. The expert science and

stakeholder-driven Senate Bill 3 effort began in 2008 and built upon the work of the GBFIG by using more recent best available science. The Senate Bill 3 environmental flows allocation process may produce more protective standards than the GBFIG recommendations. The effort to develop environmental flows standards for Trinity and San Jacinto Rivers and Galveston Bay is in the end phase and, pending rule-making action by the TCEQ, we feel it would be an opportunity lost to not consider utilization of the Senate Bill 3 process results and instead wait another five years for the next water planning cycle to consider them.

The Galveston Bay Foundation must include the caveat that Region H take this course of action only if the resulting standards are based on the environmental flows developed from the recommendation of the “Regime Group” of the Trinity and San Jacinto Rivers and Galveston Bay Area Stakeholder Committee (BBASC). The Galveston Bay Foundation feels these recommendations meet the minimum requirements of an environmental flow regime as defined by Senate Bill 3.

2. Water conservation goals and their implementation should be greatly increased in our region. The Galveston Bay Foundation is particularly concerned that water conservation goals for municipal water use in the Houston and Dallas metropolitan areas are inadequate. Robust municipal water conservation initiatives (more aptly named water efficiency initiatives), such as those that have been successfully implemented in the City of San Antonio – reducing per capita use of water use by 30% from 213 gallons per day in 1984 to 149 gallons per day in 2000 – could postpone or eliminate the need for costly and potentially environmentally damaging strategies such as reservoir construction and interbasin transfers of water.

Construction of reservoirs results in the destruction of our quickly disappearing riparian habitat. Interbasin transfers harm donor basin environmental flows and results in the destruction of habitat in both donor and recipient basins as a result of conveyance construction. Aggressive water conservation efforts could result in an adequate supply of water for people and environmental flows that maintain a sound ecological environment in Galveston Bay, the Trinity River, and the San Jacinto River.

3. We commend the planning group’s efforts to designate eight streams in the region as ecologically significant. We encourage the inclusion of additional appropriate streams and stream segments in the future.

Thank you for the opportunity to provide comments. Please contact me at (281) 332-3381 x209 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott A. Jones". The signature is written in a cursive style with a large initial "S".

Scott A. Jones
Environmental Policy and Outreach Specialist
The Galveston Bay Foundation

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



May 27, 2010

Judge Mark Evans, Chair
Region H Water Planning Group
c/o Reed Eichelberger
San Jacinto River Authority
PO Box 329
Conroe TX 77305-0329

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Lettalou Whittington

Gina Donovan

Executive Director

Subject: 2011 Region H Water Plan

Dear Judge Evans,

Thank you to you and the members of the Region H Water Planning Group for your efforts to make sure that we have water for people and the environment in this region for the future. On behalf of Houston Audubon and its many members we would like to make some comments about the Draft Plan for 2011.

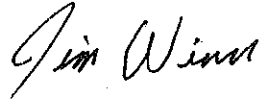
Houston Audubon is a chapter of National Audubon Society in an assigned 11-county area surrounding and including Houston. Its mission is to promote the conservation and appreciation of birds and wildlife habitat, which it accomplishes through acquiring and maintaining critical habitat as bird sanctuaries, education programs, advocacy efforts, and land conservation projects. Its activities extend beyond Houston and its surrounding counties when necessary to accomplish a conservation purpose.

1. We commend the work to declare a number of ecologically significant streams in the region and encourage adding additional appropriate streams in the future.
2. We support the efforts of the planning group to preserve freshwater inflows into Galveston Bay. This bay is not only vitally important for the quality of life of the millions of people living in close proximity to it, its preservation is mandatory for wildlife including marine species and birds. Having adequate freshwater inflows help to maintain the quality of the habitat around the bay.
3. We are concerned about the management strategy of Millican Reservoir on the Navasota River. This proposed impoundment will inundate over 14,000 acres of land including bottomland hardwoods and cost over \$777 million dollars. We are concerned about a reservoir project of this size being placed into the plan without adequate environmental and economic assessment. We feel that alternatives including expanded conservation techniques need to be fully utilized before a project of this type is included in the plan. We urge you to remove the Millican strategy from the plan.
4. Water conservation goals should be increased in our region. We could be doing much more in municipal conservation which would delay the need for reservoirs and increase the availability for water for the environment.



Thank you for considering our organization's comments.

Sincerely,

A handwritten signature in black ink that reads "Jim Winn". The signature is written in a cursive style with a large, stylized "J" and "W".

Jim Winn
President, Houston Audubon

Cc: J. Kevin Ward
Executive Administrator
Texas Water Development Board
PO Box 13231
Austin TX 78711-3231

April 1, 2010

Judge Mark Evans
c/o Mr. Reed Eichelberger, PE
General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Dear Mr. Eichelberger,

Please accept my comments on the Initial 2011 Region H Water Plan (RHWP) as prepared by the Region H Water Planning Group (RHWPG). My concerns and comments are as follows:

1. Regarding the future steam electric water demand for Madison County. The IPP shows no water demand from the Madison Bell power plant project. Please include this demand of 3 million gallons a water a day in the regional plan. If this project fails to materialize this demand could be easily amended in the 2016 plan.
2. All surface water rights in our county are owned by other entities and our groundwater must be protected to the fullest. In the regulatory and legislative recommendations it should state that all future power plants in Madison County must use surface water.
3. The management strategy of the Millican Reservoir needs to be eliminated from the IPP. The lost of wildlife habitat and bottomland forest will greatly impact our area.
4. Remove Bedias Creek Reservoir out of the IPP as a viable alternative strategy. With Bedias removed from the plan, Bedias will immediately lose its unique reservoir site designation.

5. Bédias Creek Reservoir is the only Region H reservoir site listed in both the 2008 Reservoir Protection/Acquisition Study and in the 2007 State Water Plan 80th Legislature as a recommended reservoir site. This is a concern as Bédias is ranked 3rd on a list of 220 studied sites. If Bédias is eliminated out of the plan and it would lose its unique site designation, then its ranking would drop to the middle of the list.

6. The 2008 Acquisition Reservoir Study is a concern as it recommends that land be bought up in advance of the Bédias Reservoir construction and put in a public trust. This kind of discussion has no merit and this study puts fear among the tax paying public by trying to make the site a temporary park. Our tax dollars shouldn't be spent studying alternative strategies, if in fact Bédias just a backup source?

7. In the regulatory and legislative recommendations, all discussions of ways to implement and encourage alternative reservoir strategies (Bédias) needs to be eliminated.

8. Interbasin water transfers should remain as they are today, not allowed. Water from one river basin should not be transferred to another river basin. Examples would be BédiasRes./Trinity to LkConroe/San Jacinto or LkLivingston/Trinity to LkHouston/San Jacinto. We don't need legislative action to amend this law, water in the Trinity river basin should stay in that basin.

9. In the Financing policy it says Bédias should try to obtain State participation funds to help pay for the water transmission lines to Montgomery County. This type of help to assist water users only encourages Bédias to be built. This project should be able stand on its own without state bonds being sold.

10. In the policy items, it says the U.S. Army Corps of Engineers could help fund part of the Bédias project because it is partly flood control. Again, Bédias should be a stand alone project, with no State, Federal or Texas Water Development funds used to build it. All these other recommended financing avenues in the IPP only encourages reservoir construction.

11. Bédias Creek deserves the Ecologically Unique Stream Site designation. It is one of the last major streams that runs from start to finish without having a dam on it. Bédias is unique in the sense it the last major stream in our county untouched by the government. Please consider it for protection as a sensitive stream site for the 2016 IPP.

12. Region H needs to reach out to the residents of Madison County for more public participation. We have 2 reservoirs in the plan, more than any other county, but we lack timely information. By the time we heard of Millican, you already voted on it. Region H should have done a press release on Millican before you voted on chapter 4 individually. Then a press release before the final IPP vote, if you truly want public participation.

Please include these comments in the 2011 IPP. I appreciate the opportunity to comment on the plan.

Sincerely,

Gerald Jozwiak
1940 Derby Lane
Madisonville, Texas 77864



SIERRA
CLUB
FOUNDED 1892

Houston Regional Group
P. O. Box 3021
Houston, Texas 77253-3021
713-895-9309
<http://texas.sierraclub.org/houston/>

March 30, 2010

Judge Mark Evans
c/o Mr. Reed Eichelberger, PE
General Manager
San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Dear Mr. Eichelberger,

Enclosed are the comments of the Houston Regional Group of the Sierra Club (Sierra Club) regarding the Initial 2011 Region H Water Plan (RHWP) as prepared by the Region H Water Planning Group (RHWPG). The Sierra Club comments are as follows:

1) The Sierra Club supports the RHWPG decision to exclude two proposed dams (Little Lake Creek Dam – Sam Houston Dam and Upper Lake Creek Dam – Lone Star Dam) that are proposed for construction in the western part of Montgomery County.

a. Little Lake Creek Dam would flood wildlife habitat in Sam Houston National Forest (SHNF), Little Lake Creek Wilderness Area (LLCWA) the Lone Star Hiking Trail (LSHT), and federally endangered Red-cockaded Woodpecker (RCW) forest habitat. As the Sierra Club stated in past correspondence:

The Sierra Club is unalterably opposed to construction of another dam in SHNF. When Lake Conroe was constructed and filled in the late 1960's and early 1970's 1,000s of acres of SHNF, including important upland, slope, and bottomland hardwood forests were flooded. No land mitigation was ever provided to United States citizens and the U.S. Forest Service (FS) by the sponsors of Lake Conroe for the wetlands and other important wildlife habitats that were permanently lost due to the construction of Lake Conroe. The Sierra Club considers this lack of land mitigation a debt that is still owed and should be paid.

The Sierra Club worked for 12 years to win approval in the U.S. Congress for the designation of the LLCWA, the only wilderness in SHNF. The nationally significant LSHT runs through LLCWA and provides an important nexus of recreation for those who enjoy hiking, birding, environmental education, photography, and other low impact recreation activities. Destroying LLCWA due to flooding from the proposed dam would require congressional de-authorization of LLCWA and Presidential authorization. Such an action would harm the

"When we try to pick out anything by itself, we find it hitched to everything else in the universe." John Muir

National Wilderness System; set a harmful national precedent; and send a signal that all wilderness is open for development. The Sierra Club opposes any proposed water project that will harm LLCWA.

The Sierra Club also spent over 20 years in federal court to ensure that the federally endangered RCW would be protected and managed appropriately by the FS in the National Forests and Grasslands in Texas including SHNF. The Sierra Club opposes any attempt to degrade or destroy RCW habitat in SHNF via a proposed dam.

A proposed dam on the Upper Little Lake Creek Watershed has very little drainage area and certainly would not collect much water. From an economic point-of-view building a dam on the Upper Little Lake Creek Watershed does not make sense. This proposed dam is deficient because:

1. The proposed dam is not needed. There are other water management strategies (WMS) in the RHWP that will provide sufficient water for Montgomery County until 2060.
 2. The proposed dam is on the Upper Little Lake Creek Watershed and has a small drainage area.
 3. Thousands of acres of SHNF were flooded in the early 1970's for the construction of Lake Conroe. SHNF has already paid its debt in public land lost to provide water for Montgomery County.
 4. LLCWA is the only wilderness that exists in SHNF. Flooding LLCWA with the proposal dam will result in a precedent-setting dismantlement of part of the National Wilderness System. Such a precedent endangers the entire National Wilderness System which exists as a whole for the benefit of all Americans to protect an "enduring resource of wilderness."
 5. The LSHT is over 43 years old and is the longest, continuous, hiking trail in the State of Texas. The dam will flood many miles of the LSHT and destroy its ability to provide recreation for many people every year in this part of SHNF.
 6. SHNF is the home of the largest and healthiest population of the federally endangered RCW in the State of Texas. The loss of many acres of RCW habitat is not acceptable for this critically endangered bird.
 7. This proposal would begin a political fight that would use up valuable resources from those who look at this issue from both sides and take years to settle.
- b. A proposed dam that would be built on Lake Creek. This dam would inundate thousands of acres of private homes, farmland, ranchland, wetland, bottomland,

slope, and upland forest, impinge on many communities, and affect conservation easements that Legacy Land Trust has on lands downstream.

A dam was proposed on Lower Lake Creek Dam in the past for construction. However, that dam's financial cost was over \$500 million and was not worth the environmental damage and social and economic havoc. This proposed dam would cause problems for communities and individuals that live in the area that would be flooded or acquired for the maximum flood pool elevation. In addition, water is available and the need for this dam or the Little Lake Creek Dam is not needed.

c. Since 2001, about nine years now, the RHWPG has walked a very straight path along a very crooked line. Some of the members of the RHWPG desire the construction of more water projects. Some of the members of the RHWPG desire more water conservation and environmental protection. Both viewpoints have made way for each other, been considerate, and provided a mix which has allowed the RHWPG to declare that a consensus has been reached.

However, this consensus has been threatened by this proposed dam. The RHWPG has always operated using a consistent and fair process. These two dams have come so late to the process that they would not be vetted as others have and therefore are not consistent with regard to the process. If approved these dams would not meet the spirit that allows for full discussion, analysis, and adequate time to think about what should be.

The Sierra Club **opposes these two dams and we do not support bringing them before the RHWPG again.** We are glad that the RHWPG has not included these two dams in the RHWP. We urge the RHWPG to reject these dams in the future for procedural, need, economic, social, and environmental reasons.

2) The Sierra Club supports retention of the eight existing recommended ecologically unique stream segments (Armand Bayou, Austin, Bayou, Bastrop Bayou, Big Creek in Fort Bend County, Big Creek in San Jacinto County, Cedar Lake Creek, Menard Creek, and Oyster Bayou).

The Sierra Club also proposes the addition of four streams as ecologically unique stream segments for the RHWP for this planning cycle. All four streams are in SHNF and our proposal consists only of those portions of the streams that exist within federal lands inside of SHNF. Because "The RHWPG believes that stewardship of the environment can be coupled with water supply development" the Sierra Club recommends the addition of Caney Creek, Little Lake Creek, Winters Bayou, and West Fork of the San Jacinto River, all located in SHNF, as ecologically unique stream segments.

It is the Sierra Club's belief that the criteria found in the Texas Water Development Board (TWDB) guidelines for ecologically unique stream segments, namely, biological function; hydrologic function; riparian conservation areas; high water quality/exceptional aquatic life/high aesthetic value; and threatened or endangered species/unique communities are all met by the four candidate streams that we have submitted to the RHWPG for inclusion in the RHWPG.

All four streams have biological function with bottomland hardwood forested wetlands and a diversity of plant and animal species (American Beaver, Wood Duck, Pileated Woodpecker, etc.); all four streams have hydrologic function because they are vegetated so they cleanse water, attenuate stream flood flows, and recharge groundwater (they all exist in the recharge area of the Gulf Coast Aquifer – Evangeline and Chicot Aquifers); all four are riparian conservation areas since they are fringed by significant areas in public ownership (SHNF) for conservation with an approved conservation plan (1996 Revised Land and Resource Management Plan – LRMP); all four have high water quality/exceptional aquatic life/high aesthetic value because they have disappearing bottomland hardwood forested wetlands (unique and critical habitats) which allow for exceptional and diverse aquatic life; and all four have threatened or endangered species/unique communities because of the important and vanishing bottomland hardwood forested wetlands they contain; protect Wood Ducks and other important sensitive species; and these communities are natural, extensive, exemplary, and significant.

The Sierra Club urges the RHWPG to add these four stream segments, which are all within SHNF and affect only the federally owned portions of these streams and their stream-sides, to the RHWPG. The four proposed ecologically unique stream segments are:

a. **Winters Bayou** – There are about 8-9 miles of Winters Bayou found in SHNF. Winters Bayou is one of the primary tributaries of the East Fork of the San Jacinto River and drains a considerable portion of SHNF on its east side. A significant part of Winters Bayou goes through the Winters Bayou Scenic Area. The FS, in its 1996 LRMP and environmental impact statement, **found that Winters Bayou is eligible for designation under the National Wild and Scenic Rivers Act as a recreational river.**

b. **West Fork of the San Jacinto River** – There are about 3-4 miles of the West Fork of the San Jacinto River that are found within SHNF. Some of the most extensive areas of palmetto – oak flats in SHNF are found here with Dwarf Palmetto, Green Ash, Cedar Elm, Water Oak, and other bottomland tree species. This portion of the West Fork is a good place to canoe, kayak, fish, bird, or observe wildlife.

c. **Caney Creek** – There are about 10-12 miles of Caney Creek that meander through SHNF. Caney Creek drains much of the northwest part of SHNF.

Especially just north of FM 1375 and south to Lake Conroe, which Caney Creek empties into on SHNF, there are very good bottomlands with White Oak, Cedar Elm, Sugarberry, Water Oak, and many other bottomland hardwood tree species. Caney Creek is a good place to bird and observe wildlife.

d. **Little Lake Creek** – There are about 6 miles of Little Lake Creek that course through SHNF. Little Lake Creek drains much of the southwestern part of SHNF. Except for about one mile that exists outside SHNF most of the entire upper watershed of Little Lake Creek is found in SHNF. Most of the length of Little Lake Creek is located within LLCWA, the only congressionally designated wilderness area in SHNF. The area is popular for hiking and includes the LSHT, photography, wildlife observation, nature study, and has some fine bottomland hardwood forested wetlands and beaver ponds.

3) The Sierra Club support freshwater flows for optimal year-round habitat and protection for rivers/streams and Galveston Bay/other bays/estuaries to ensure that fish, wildlife, riparian woodlands (streamside vegetation), bottomland hardwood forested wetlands, and other sensitive areas are healthy.

The Sierra Club does not support the Science Based Conditional Phased Approach that has been endorsed by a minority report of seven members of the Basin and Bay Expert Science Team (BBEST). The Sierra Club believes that the minority report does not get us where we need to be. Senate Bill 3 (SB) requires that we finally, after over 30 years, put a number to the environmental flows that are needed. Delay is not what is required by the law. Galveston Bay Freshwater Inflows Group (GBFIG) information is no longer the best available science. GBFIG was a good 10-year effort that produced solid information and got various stakeholders to talk and agree but it is no longer is the scientific standard.

The Sierra Club supports the Science Based Environmental Flow Regime for the Trinity River, San Jacinto River, and Galveston Bay and the Freshwater Inflow Recommendations for Galveston Bay as supported by the majority report of eight members of the BBEST. Although there is much left to do, regarding research and its use via adaptive management, we believe these recommendations are the best available science today and put future refinements on a solid scientific foundation. There is the need for nutrient, sediment, and more recent biological, ecological, and geo-morphological data. But SB 3 does not give us the option of waiting 10-20 years to acquire information. It says do this now and then refine in the future. That is what we need to do and what the Sierra Club supports.

The Sierra Club continues to be concerned about the massive shift of freshwater inflow from the Trinity River and Bay to the San Jacinto River and its Galveston Bay entrance. A report on freshwater inflows by RHWPG stated that this shift could be 25-49%. There are many critical wetlands in the Trinity River Delta and Trinity Bay is crucial for oyster production. The Sierra Club is concerned that

such a shift in water flow from the Trinity River to the San Jacinto River will disrupt and harm the overall productivity of Galveston Bay.

4) The Sierra Club continues to be concerned about the environmental impacts of the Bédias Reservoir unique reservoir site and its potential impacts on environmental flows (freshwater in-stream flows and inflows to bays and estuaries). The Sierra Club is also very concerned about impacts on SHNF, the West Fork of the San Jacinto River, and important bottomland hardwood forested wetlands. The proposal would use the West Fork as the conveyance system for water from the proposed Bédias Reservoir to Lake Conroe. The Sierra Club greatly fears the negative environmental impacts that such a proposal could have.

5) Climate change and its impacts have not been estimated in the RHWP. The impacts of climate change could make the traditional solutions, like storage of water in reservoirs, less viable. Climate change will alter existing ecosystems and make it more difficult for plants and animals to adapt successfully to these changed ecosystems. The RHWP should address questions like:

1. How will the RHWP be affected by climate change?
2. What can be done to create more resilient and resistant habitats and ecosystems within the concepts of the RHWP?
3. What can the RHWP do to reduce CO₂ or other greenhouse gas emissions?
4. What can be done to assist plants/animals so they can adapt to climate change?

In essence, climate change will affect how well the RHWP can address the environmental concerns that it has. The RHWPG should prepare and include in this RHWP an analysis on climate change and its effects on ecological resilience and resistance. Or the RHWPG should request that the TWDB, with assistance from other state or federal agencies (for instance, Texas Parks and Wildlife Department – TPWD and U.S. Fish and Wildlife Service – FWS) conduct such an analysis for the RHWP.

Such an analysis would assess the biological and ecological elements in RHWP and the effects that climate change has had and will have on them. The analysis would also discuss how to assist plants, animals, and ecosystems in adapting to climate change and would require monitoring of changes and mitigation measure effectiveness. The analysis would tell how the State of Texas could:

1. Protect existing functioning ecosystems in Region H.
2. Reduce stressors on the ecosystems in Region H.

3. Restore natural functioning ecological processes in Region H.
4. Use natural recovery in Region H, in most instances.
5. Acquire buffers and corridors to expand and ensure connectivity of ecosystems in Region H.
6. Intervene to manipulate (manage) ecosystems in Region H only as a last resort.
7. Reduce greenhouse gas emissions in Region H.

6) In **Chapter 4**, the Sierra Club is concerned about preordaining population growth and thus water demands. Population projections are the very foundation of all planning, including water use, in Texas. The very demands that we associate with population growth will affect environmental flows and the severity of the impacts that they bear. The RHWP should ask Houstonians what they want. The RHWP should tell our citizens what more than doubling the population will mean for them, their children, and grandchildren regarding air quality, water quality, noise, light pollution, traffic congestion, green space and parks, farmland, social services, quality of life, etc.

There in essence is no public policy debate on population in the RHWP. This lack of debate and de facto policy decision determines what the population growth target will be and which Houstonians will endure but does not determine what population growth Houstonians want. There are many public policy questions that should be answered by Houstonians before population projections are made. Some of these include:

- a. What population does Region H want?
- b. What population can Region H handle (so we do not exceed natural carrying capacities)?
- c. Is growth in population in Region H good or bad?
- d. Do we need growth in population in Region H?
- e. Why do we need growth in population in Region H?
- f. How much population growth should we have in Region H?
- g. What quality of population growth do we want in Region H?
- h. What can we do to reduce population growth in Region H?
- i. Why don't we reduce population growth in Region H?
- j. How much immigration is good or bad in Region H?
- k. How can we guide population growth Region H?
- l. How can we implement strategies to guide population growth in Region H?
- m. What level of economic growth do we want in Region H?
- n. What level of economic growth do we need in Region H?

Without conducting a public policy debate on these and other questions first, we accept a **fait accompli** and Houstonians are not allowed a fair opportunity to voice what they want. Houstonians are locked out of the process that determines overall development growth, population growth, and growth in water use.

The fact that there are existing inter-basin water transfers between the San Jacinto, Brazos, and Trinity Rivers does not mean that this strategy should continue. When a population seeks water outside of the watershed it lives in then it already exceeds the carrying capacity of that watershed and the population is already greater than it should be. The present economic situation will affect population and water use.

Chapter 2, states, "Water resource planning and management in Texas is a shared responsibility of local utilities, regional special purpose districts, and state agencies. Local and regional water development authorities, as well as municipalities, have had primary responsibility for planning, developing, financing, and constructing new water resource projects. **The State's primary historical role has been providing guidance, regulatory governance, and limited financial assistance when possible.**" **The Sierra Club believes that we are masters of our own future.**

The Sierra Club urges the RHWPG to do two things. The RHWP should result in reduced water demand and should determine what population is sustainable and work with all affected parties so we plan to provide water for that sustainable population within the carrying capacity of our watersheds and also supply the water needs of wildlife and ecosystems, instream flows, inflow to bays and estuaries, and take into account the effects of climate change.

The RHWP shows a continuing increase in water demand for municipal, manufacturing, and steam electric power generation. **Pages 2-16 through 2-19**, show that most counties in Region H have increasing municipal water demands: Austin County (Co.) 1% increase/decade; Brazoria Co., 1% increase/decade; Fort Bend Co., 174% increase; Galveston Co., 18% increase; Harris Co., 2-3% increase/decade; Liberty Co., 1% increase/for three decades; Madison Co., 15% increase; Montgomery Co., 8-9% increase/decade; Polk Co., 4-14% increase/decade; San Jacinto Co., 14-21% increase/decade; Walker Co., 6% increase; and Waller Co., 2-9% increase/decade.

The assumption that growth and development will continue indefinitely (at least for the next 51 years) is not a conservative and likely scenario upon which to base sustainable water use. This is particularly true when taking into account the changed local, state, national and international economic circumstances that we face now and in the future, climate change, wildlife and ecosystem needs, instream flows, and inflow into bays and estuaries.

Often population projections "Instead of being a means to implement basic public decisions about population and growth projects are often used in place of those decisions. Once the growth "infrastructure" is installed, growth continues, based on expectations generated by the projections and real obligations of communities to pay for the services in which they have invested." (page 135, Handbook on Population Projections, Judith Konofsky, Sierra Club, January 1982)

We as a region must begin to develop and articulate clearly our regional population and development goals or a de facto growth policy will continue to reflect past trends or the wishes of those who are best able to express their views.

It seems obvious that the long planning time frame for water projects will cause projects to be built on speculation. This speculation in population growth and water use will then become fact. The existence of inter-basin water transfers between the San Jacinto, Brazos, and Trinity Rivers does not mean that this strategy should continue. When a population seeks water outside of the watershed it lives in then it has already exceeded the carrying capacity of that watershed and that population is already greater than it should be.

The **human population carrying capacity of each river basin** needs to be determined, taking into account protecting sensitive areas and ecosystem needs, and then we need to plan so we do not exceed this population projection. This should be the goal of every water plan. We need a steady-state economy.

We need a full, public, debate to ensure that we get it right. By getting it wrong we ensure that we will degrade the environment that we rely on for all of our needs which means we will degrade our quality of life and reduce the carrying capacity for humans and especially for those who live after us. We reduce their options as we mandate water use now. We bring ourselves closer to ecological overshoot or collapse by not recognizing that humans are animals too and we are dependent on the same ecological principles as every other living organism. We cannot avoid the bullet.

The question needs to be asked: Do Texans and Houstonians want 45 million and almost 11 million people, respectively? **The Houston area is above its carrying capacity. This is reflected individually and cumulatively by the following:**

1. For air quality, the Houston area exceeds the ozone National Ambient Air Quality Standard.
2. For water quality, many bayous and other streams exceed their water quality standards for bacteria and other water pollutants.
3. For water absorption capacity, major floods occur every year

4. For transportation, congestion is found on most major roads.
5. For groundwater capacity, there are falling groundwater levels in many places, activated faults, and subsidence.
6. For surface water capacity, overuse of surface water has led to importation of surface water across river basins.
7. For protected park and ecological lands, Houston is far below standards for park acreage/1,000 people.
8. For farmland, farmland use and acreage is decreasing in most counties.
9. For quiet, noise barriers are being erected on many highways.
10. For wildlife habitat, wetlands acreage is decreasing.

When will the RHWPG and the TWDB address the problem of exceeding carrying capacity?

The Sierra Club is particularly concerned about the impacts that population projections and associated water use will have on SHNF and other sensitive ecological and wildlife areas. We are concerned that shallow-water aquifers will dry up and that unique, seep, spring, moisture-loving, and stream-based plant and animal communities will suffer or be destroyed. We are concerned that groundwater recharge areas will be paved over or contaminated.

There is no recognition in these population projections about what they will mean, in terms of impacts, to natural areas, for example, SHNF and other private and public protected or ecologically sensitive areas. Without giving Texans and Houstonians this information how can they agree or disagree with any population projections.

7) **Page 4-7, 4.3.1 Studies by the RHWPG**, the Sierra Club supports RHWPG in electing not to “consider strategies that move groundwater out of the county of origin.” This will keep groundwater within its appropriate location; not outside of its recharge area; and will help ensure that carrying capacity is not overshoot.

3) **Page 4-8, 4.3.3 Need for Interbasin Transfers and page 4-15, 4.4.3 Selection of Water Management Strategies**, the RHWP states “As can be seen by reviewing the current water supplies and potential water management strategies, Region H is highly dependent upon the interbasin transfer of water ... Future strategies recommend fully utilizing existing supplies in all basins, which will require transferring additional water from the Trinity Basin to the San Jacinto Basin for Harris and Montgomery Counties ... An additional interbasin

conveyance may be required in order to facilitate the transfer of water from the Trinity Basin to SJRA customers in Montgomery County ... In Montgomery County, the transfer of Trinity Basin supply facilitated the full use of existing supplies.”

The Sierra Club is concerned about the effects the transfer of Trinity River water to Montgomery County will have on SHNF, the West Fork of the San Jacinto River, and bottomland hardwood forested wetlands.

The question should be asked, “Should we continue on this path and make ourselves more vulnerable to system breakdown; further exceed our carrying capacity; and rely on water from other watersheds where people and ecosystems from those watersheds may need that water?”

Re-plumbing Nature does not make us safer but pushes us closer to the brink when a system breakdown occurs. If we know anything about complex systems it is that they can and over time will breakdown. When a breakdown occurs what do we do then? Do we want to leave ourselves more vulnerable by almost doubling our population and water use? RHWPG owes it to those who come after us and who will face future conditions to decide how we can avoid such vulnerability or we simply transfer and subsidize our actions, responsibilities, and problems to those in the future who will have fewer options to successfully deal with critical natural resource issues.

The law of the State of Texas has consistently required the need for analysis to document that water removed from one watershed to another watershed will not be needed in the watershed of origin and that the water removed is not guaranteed in perpetuity for those who remove that water. Yet we operate and act as if that law does not exist by signing contractual obligations that bind us to a certain water use and population level. This does not appear to be the best way to plan for not just our future but for the future of those people who come after us who will have to resolve what we do today so that they can live.

8) **Page 4-9, 4.3.4 Drought Management**, the RHWP states “The shortages identified in the plan are based on future demands (based on projected growth).” What is the accuracy of future growth projections? What is the percent error of the models used to predict population and water use? How accurate have the models been in the past in projecting growth? What were the reasons for the inaccuracies? What present day events, like less money available for loans; home mortgage failures; people driving less; people consuming less; loss of blue and white collar jobs; loss of chemical manufacturing jobs; the recession; climate change; and other factors will play a role in population and water use growth? What will be the possible impacts of these factors on population and water use growth? Who will benefit and who will not?

9) **Pages 4B31-9, Tennessee Colony Dam, page 4B31-11, Cleveland Reservoir, page 4B31-12, Harmons Reservoir, page 4B31-13, Humble Reservoir, page 4B31-20, and Spring Creek Reservoir,** the Sierra Club does not support the construction of any of these projects due to the severe environmental impacts they will have on the Trinity River, SHNF, West Fork of the San Jacinto River, Harmons Creek, and bottomland hardwood forested wetlands.

10) **Page 4B1-1, Industrial Conservation,** the Sierra Club urges RHWPG recommend that an industrial water conservation plan be required so that the industry sector of Region H does its share and assumes its responsibility to minimize water used and maximize its' efficiency of water used.

11) **Page 4B2-2, Irrigation Conservation,** the RHWP states "Specifically covered are the benefits of land leveling to reduce the water required for each flush ... However, the use of conservation as opposed to interruptible supplies has positive environmental impacts. Although there are no quantifiable negative environmental impacts, it is difficult to estimate the potential beneficial environmental impacts."

This technical memorandum and the matrix to compare the environmental effects of each water management strategy ignores the negative environmental impact of land leveling which leads to the loss of depression or prairie pothole wetlands.

12) **Page 4B30-1, Millican Reservoir,** the Sierra Club does not support the construction of Millican Dam based on the harmful environmental impacts it will have.

13) **Pages 4B31-1 – 4B31-8, Potential Reservoir Sties,** the Sierra Club does not support the construction of Bedias, Little River, Lower Lake Creek, Millican, and Tehuacana Dams based on the harmful environmental impacts they will have.

14) **Page 4B36-3, Municipal Wastewater Reclamation for Manufacturing Use,** it is of concern that "A discharge of brine concentrate from the IMTF into the Houston Ship Channel could affect water quality, although the proposed discharge would be into the dredged channel below the saline elevation ... This strategy will treat 83 mgd of effluent to produce 60 mgd of delivered high-quality water (the other 23 mgd being brine discharge)." That 23 mgd of brine will be discharged in the Houston Ship Channel (Buffalo Bayou/San Jacinto River) is a concern since we do not know what the effects of this will have on water quality, Galveston Bay, and aquatic organisms and ecosystems.

15) **Page 4B37-1, Wastewater Reclamation for Municipal Irrigation,** what is the future possibility that there will be fewer golf courses than presently exist due

to the past trend for golf courses to disappear in areas where density of population increases and the golf courses are turned into residential housing? In addition, what supports the statement that “the increased use of water due to overall growth will most likely offset the impact of reuse as a municipal irrigation water supply strategy? Therefore, the overall reduction in instream flows is not expected to be significant.”?

16) **Pages 4B45-1 – 4B45-5, East Texas Water Transfer**, the Sierra Club remains very concerned about this proposal which will further take Region H in the direction of exceeding its carrying capacity for water and increase our vulnerability to system breakdown; environmental impacts; and competition from the watershed of origin for water for people and ecosystems. In addition, this alternative could have a negative effects on the Big Thicket National Preserve.

17) **Pages 4B4-1 – 4B4-2, TRA to SJRA Contract**, the RHWP states “a new conveyance would need to be constructed from the Trinity Basin to Montgomery County. There is the potential for alternate routes pass through the SHNF which increases the risk of adverse environmental impacts due to construction and maintenance activities.” In addition, there is the potential impact to the West Fork of the San Jacinto River, SHNF, and bottomland hardwood forested wetlands from the conveyance structure that this proposal could use.

18) **Table 4A-2 Water Management Strategy Screening**, irrigation for Brazoria, Chambers, Galveston, Liberty, and Waller Counties are listed as having no (zero) environmental effects. This is incorrect. Depressional or prairie pothole wetlands will be destroyed or degraded by laser land leveling activities. Therefore the score should be at least 1 if not greater than 1.

For the Beidas Dam, Interbasin Transfer is answered in the matrix with a “No.” This is an incorrect statement. For Bedias Dam to fulfill its purpose it will have to have interbasin transfer and the conveyance system used should not be separated from the construction of the dam. The discussion has been to use local streams and the West Fork of the San Jacinto River as the conveyance system and channelize or dredge these for increase water flows.

19) **Page 4D-3, 2.2 Strategy Coding, 1. Municipal Conservation and 2. Irrigation Conservation**, the Sierra Club finds the explanation for not modeling conservation strategies, that these strategies do not create new water supplies or their return flows, simply untrue. Water not wasted, water used efficiently, water used effectively does create new water because otherwise this water would not be available for use for more human or other activities and actions.

20) **Page 4D-3, 2.2 Strategy Coding, 7. BRA System Operations Permit, 8. Allens Creek Reservoir and 9. Little River Off-Channel Reservoir**, the importance of the Brazos River and the surrounding area, whether in Region H or Region K, for estuary habitats must be analyzed and provided in the RHWP. The

incorrect assumption is that these areas have little estuary habitat and therefore the inflow needs are not discussed with the same level of effort that Galveston Bay Estuary needs are discussed. In addition, there is no discussion about how flows into the Columbia Bottomlands habitat that has been acquired along the Brazos River by FWS and placed in the SBNWR will be affected.

21) **Page 4D-7, 3.1 Annual B&E Inflows**, it is of concern that climate change has not been factored into the Bay and Estuary analysis. If climate change has been factored into the analysis there is no mention of this in the appendix.

22) **Page 4D-8, 3.1 Annual B&E Inflows**, it is of great concern that the analysis states "General similarities between the patterns of Region C return flow and Trinity Bay inflow indicate that upstream reuse will have a substantial impact on Galveston Bay inflow ... Trinity Bay inflows do not fully return to 2010 levels by the end of the planning period. The likely cause of this is increasing demand on interbasin transfers in the Trinity River to the San Jacinto River Basin, including the TRA to Houston and TRA to SJRA management strategies. Demand for these two strategies alone increased by 200,000 acre-feet across the planning window ... suggesting that while flows in the Trinity and San Jacinto Rivers may change over time, the additional net effect of Region H WMS on total B&E flow after 2010 will be minor; changes appear to involve relocation of inflow to a greater extent than alteration in total volume."

This suggests that the TRNWR, Trinity River Delta, and oyster beds in Trinity Bay and more central or eastern portions of Galveston Bay will have less sediments, nutrients, and water which will affect their health and productivity.

23) **Page 5-2, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality**, the RHWP talks about nutrient loads in this chapter. This chapter should also talk about the water quality problems that sand mining and the formation of blue-green algae cause. Sand mining provides particulate matter that bacteria (or blue-green algae) can grow on as well as nutrient transport.

Blue-green algae (cyanobacteria) exude cyanotoxins which have been suggested as a health risk to humans. One study stated "Cyanobacteria can generate molecules hazardous to human health ... The ubiquity of cyanobacteria in terrestrial, as well as freshwater, brackish, and marine environments suggests a potential for wide-spread human exposure ... The recent hypothesis that BMAA (beta-N-methylamino-L-alanine) accumulates in proteins, which collectively functions as an endogenous neurotoxic reservoir within the human body, and then is slowly released through time as these proteins are metabolized suggests that possible health consequences of chronic exposure to low doses of BMAA deserve further investigation, " from "Diverse taxa of cyanobacteria produce B-N-methylamino-L-alanine, a neurotoxic amino

acid," Paul Alan Cox, et. al., April 5, 2005, Volume 102, Number 14, Proceedings of the National Academy of Sciences.

Other documents that refer to blue-green algae problems include:

1. "Co-occurrence of B-N-methylamino-L-alanine, a neurotoxic amino acid with other cyanobacterial toxins in British waterbodies," 1990-2001, James S. Metcalf et. al., Environmental Microbiology, pp 702-708, Volume 10, No. 3, 2008.
2. "A Nonprotein Amino Acid and Neurodegeneration," Paul A. Cox and Sandra A. Banack, Letters, Science, Volume 314, November 24, 2006.
3. "Lake Houston SolarBee Project Report, Joel Bleth, SolarBee, February 26, 2007.
4. "Lake Houston "SolarBee" Project," City of Houston, Mayor's Office – Environmental Programming, undated.

The RHWP should acknowledge this potential environmental effect and determine if the implementation of the draft RHWP affects positively or negatively the likelihood that human exposure to cyanobacteria cyanotoxins will occur.

In addition, this chapter should also state that oil/gas exploitation activities may also affect water quality via increased conductivity. This chapter should mention that there is shallow water aquifer contamination from refinery spills along the Houston Ship Channel that does affect groundwater and may affect surface or Galveston Bay water quality.

24) Page 5-4, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality, BRA System Operations, it is not clear how the "impaired segments within the Brazos Basin are located above system reservoirs" affect the water quality of those reservoirs. This should be analyzed and reported.

In addition, while "the Brazos River empties directly into the Gulf of Mexico, operational changes do not affect a large bay system" the Brazos River does have an in-river estuary that will be affected. How will this in-river estuary be affected and how much will it be affected environmentally? Will its' productivity be affected and if so by how much? In addition, there is no discussion about how flows into the Columbia Bottomlands habitat that has been acquired along the Brazos River by FWS and placed in the San Bernard National Wildlife Refuge (SBNWR) will be affected.

25) Page 5-5, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality, Freeport Desalination, the Sierra Club would prefer a discharge of brine into the Gulf of Mexico rather than one that empties

into a canal and then the Brazos River so the potential environmental impacts are reduced.

26) **Page 5-5, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality, Allens Creek Reservoir and Millican Lake/Reservoir**, there is no discussion about the potential for increased exotic aquatic plant, nutrients, and sediment build-up due to construction of these two proposed dams and what these mean to water quality.

27) **Page 5-5, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality, New Contracts from Existing Supplies and The Luce Bayou Interbasin Transfer**, the RHWP states "Typical municipal return flows are 60% of the total quantity diverted for use ... However, transfers such as this allow an increased opportunity for invasive species migration from the source to receiving waters. Additionally, the transfer will potentially reduce flow in the Trinity River below Dayton." It is of concern that this scenario will reduce inflows to the Trinity River National Wildlife Refuge (TRNWR), Trinity River Delta, and oyster beds in Trinity and Galveston Bays.

28) **Page 5-5, 5.2 Impacts of Water Management Strategies on Key Parameters of Water Quality, Wastewater Reuse by Houston, etc.**, the RHWP states "will potentially reduce in-stream flows, thus concentrating any in-stream contaminants ... In the case of industrial reuse, the reverse-osmosis discharge water would be injected into the bottom of the Houston Ship Channel, into an already brackish zone ... The reverse-osmosis discharge and resulting mixing would be in the salt water layer at the bottom of this channel."

What is not said is increasing the salinity in the Houston Ship Channel makes the channel a migratory path for oyster predators like oyster drills and reduces the habitat for some freshwater or brackish water fish in the channel. In addition, transmission lines create water quality issues when they use streams for diverted water. This causes increased erosion, inundation of wetlands, and reduced fluctuation of water levels (flooding) which are important for bottomland hardwood forested wetland functioning.

29) **Page 5-7, 5.3 Evaluation of Third-Party Impacts of Reduce Levels in Water Supply Reservoirs**, the RHWP states "the collective affects of strategies on anticipated lake levels during historical meteorological conditions were analyzed and some conclusions may be inferred on the impacts to recreation and economics." This analysis only looks at lake recreation and ignores and does not assess river and stream recreation that will be lost due to the construction of water projects. This analysis is therefore biased and not balanced and must look at river and stream recreation and the impacts that will occur if dams are constructed.

30) **Page 5-11, 5.3 Evaluation of Third-Party Impacts of Reduce Levels in Water Supply Reservoirs**, the RHWP states "The potential impacts of moving water from rural and agricultural areas are mainly associated with socio-economic impacts to third parties." The Sierra Club does not agree. Depending on how water is moved, if streams are used as part of the conveyance system then as mentioned previously in this letter there could be erosion, inundation of wetlands, and reduced fluctuation of water levels (flooding) which are important for bottomland hardwood forested wetland functioning.

31) **Page 7-1**, it continues to be of concern that RHWPG does not address carrying capacity of each watershed and how we have exceeded carrying capacity and what we will do to address this imbalance. Continuing to rely on water from other basins ensures that at some point there will be problems if that water is affected by drought, system breakdown, or other original basin needs and considerations.

32) **Page 7-2, 7.1.4 San Jacinto River Basin and page 7-7, 7.3.4 Impacts of Water Management Strategies on Galveston Bay**, the picture painted about water flows here is of great concern. The RHWP states "Wastewater Reuse for Industry is recommended to begin by year 2060. This will consume all new return flows, holding flows into the San Jacinto River and Upper Galveston Bay at the year 2000 level. The impact of initially diverting this reuse supply will be mitigated by tidal effects in the stream segment where the water is currently discharged. Additionally, the brine produced by the additional treatment process will be discharged into the Houston Ship Channel ... Municipal water demand in Harris County is expected to almost double during the planning period, and the recommended reuse volume from the San Jacinto Basin is projected to be approximately 40% of the potential available municipal discharge. This indirect reuse is not expected to be implemented all at once, but rather as a series of small project over several decades. Therefore, no shock affect of a new large diversion will be realized, and return flows in the San Jacinto Basin will again remain near the 2010 levels ... While the table indicates that the combined plans will maintain overall flows into Galveston Bay, it does not reflect the change in inflow locations. The transfer of water from the Trinity River Basin into the San Jacinto Basin will relocate return flows from Trinity Bay to Upper Galveston Bay. This many have some impact on the oyster beds located within Trinity Bay. The increase of flows into Upper Galveston Bay should not be of concern, because that flow will occur in the Houston Ship Channel."

This scenario is not reassuring. Increased salinity levels, whether in the Houston Ship Channel or elsewhere in Galveston Bay will cause an increase in the penetration of oyster predators like oyster drills (Thais). In addition, by changing the location where most of the water will enter Galveston Bay, from the Trinity River to the San Jacinto River, the very fecund Trinity River Delta, oyster beds, and TRNWR could be harmed which would reduce the productivity of Galveston Bay. The Trinity River Delta is relatively natural and undeveloped while the San

Jacinto River entrance into Galveston Bay is very developed and a natural wetland delta and oyster beds will not be created here that duplicate in this new majority water flow location what exists in the Trinity River Delta.

33) **Page 7-4, 7.1.6 Brazos River Basin**, the Brazos River does not have an estuary like Galveston Bay. However, the river channel serves as an estuarine system. In addition, there is no discussion about how flows into the Columbia Bottomlands habitat that has been acquired along the Brazos River by FWS and placed in the SBNWR. There has been no discussion about what will happen to this estuarine mouth of the river if more inflows are held back by the Millican Dam and other proposed projects like the Allens Creek Dam.

34) **Page 7-5, 7.1.6 Brazos River Basin**, the Sierra Club agrees that the export of groundwater from its source should not be recommended in the RHWP.

35) **Page 7-6, 7.3.1 Threatened and Endangered Species**, the RHWP states that "Adding flow to Luce Bayou many inundate seasonal wetlands, and has the potential to cause backwater effects in Creek Chubsucker habitats ... As these flows are increased over time, the peripheral wetlands should naturally migrate with the water's edge." There is nothing that protects and allows the lands indicated to act as places where peripheral wetlands migrate. If this assertion is going to be made then the RHWP must have commitments that guarantee that this mitigation will occur.

36) **Page 7-6, 7.3.2 Parks and Public Lands**, the Sierra Club is concerned when the RHWP states "The transfer of supply from Lake Livingston into the San Jacinto Basin has the potential to reduce flows through the TRNWR during drought periods." This is a serious environmental impact and the RHWP should address what will be done to ensure that instream flows are mitigated and maintained in the TRNWR. In addition, the transfer of water from Lake Livingston to Lake Conroe may impact lands in SHNF along Highway 190 and on the West Fork of the San Jacinto River including bottomland hardwood forested wetlands. These potential impacts should be analyzed and mitigated.

37) **Page 7-7, 7.3.3 Impacts of Water Management of Strategies on Unique Stream Segments**, as mentioned elsewhere in these comments (Chapter 8) the Sierra Club supports adding four streams, all within SHNF and affecting only federal lands (Caney Creek, Winters Bayou, West Fork of the San Jacinto River, and Little Lake Creek).

38) **Page 7C-1 and TPWD Region H Strategies – Preliminary Assessment Internal Working Memorandum 2001 pages 1-6, pages 7-10, pages 15-19, pages 20-24, pages 27-29, pages 30-31, and pages 32-34**, the Sierra Club is pleased that Bedias Dam and its conveyance structure has been deferred at this time. However, our concerns for damage to the West Fork of the San Jacinto River, SHNF, and important bottomland hardwood forested wetlands in SHNF

remain. Channelization, too much water, and a reduction in the oscillation of flood flows would destroy and or drown important forested wetlands on public lands.

There is no real assessment of Millican Dam and the environmental damage it can do. There is no mention of the estuary that exists in the Brazos River Channel just upstream of its entrance into the Gulf of Mexico, the surrounding area (whether in Region H or not), and the effects that Millican, Allens Creek, and Little River Dam or Off-Channel Dam can have synergistically on this ecosystem. The Brazos River has value with regard to estuary species and this should be acknowledged and analyzed. In addition, there is no discussion about how flows into the Columbia Bottomlands habitat that has been acquired along the Brazos River by FWS and placed in the SBNWR.

The description of the Luce Bayou Transfer alternative is not the same that was provided to the RHWPG about two years ago by the City of Houston. In that description most of Luce Bayou will be avoided and the pipeline/canal will enter Luce Bayou very close to its entrance to Lake Houston. This was being done, in part, to avoid environmental damages which would include destruction of important bottomland hardwood forested wetlands and bald cypress swamps.

The San Jacinto River Authority/Lake Livingston Diversion would have negative impacts on SHNF, West Fork of the San Jacinto River, and bottomland hardwood forested wetlands in SHNF. The Sierra Club does not support such environmental impacts in SHNF.

The Gulf Coast Water Authority/City of Houston Contract will create addition change where water enters Galveston Bay by removing flows that enter Galveston Bay via the Trinity River and moving those flows to West Galveston Bay, which traditionally is more salty and will be impacted by this shift in flows.

The Sabine River to Region H Interbasin Transfer is of great concern for several reasons. One concern is this makes the Houston area more dependent on other areas that also want the water Houston wants, so this makes us more vulnerable to water conflict. This proposal also adds to the imbalance in carrying capacity for each watershed. Finally, this proposal takes water from areas that need this water, bottomland hardwood forested wetlands, bald cypress swamps, and the Sabine Estuary.

This proposal will also affect SHNF via the conveyance connection between Lake Livingston and Rocky Creek via SHNF public lands that exist on Highway 190 and the channelization and flow impacts on the West Fork of the San Jacinto River. This proposal will have negative impacts on SHNF, West Fork of the San Jacinto River, and bottomland hardwood forested wetlands in SHNF. The Sierra Club does not support such environmental impacts in SHNF.

39) It is of concern that the RHWP has many statements which support additional growth when the carrying capacity has been exceeded in watersheds where we get our water supplies.

Page 8-18, 8.4.2, Recommendations Specific to Infrastructure Financing, page 8-26, State Participation Program for Regional Water and Wastewater Projects, page 8-27, State Resolving Fund Programs (Drinking Water State Resolving Fund and Clean Water State Resolving Fund), page 8-28, State Loan Program, and page 8-29, Regional Water Supply and Wastewater Facilities Planning Program, the RHWP states "expand the program to included coverage for system capacity increases to meet projected growth for communities ... **in anticipation of upcoming development** throughout the state ... deferred until a customer base grows into the capacity it funded ... Large projects, particularly reservoirs, **must be developed in anticipation of future demands** due to the long periods of time required for planning, permitting, and property acquisition and construction. For example, Bedias Reservoir, which will require a transmission system as well as the reservoir itself, is estimated to cost \$194.3 million ... State participation in these facilities will allow them to be optimally sized at their inception. The State participation program offers the important advantage of reducing the unit costs for water service for both existing and future water users of the optimally sized facility ... but they are not intended to fund system expansions due to projected growth ... Increase the funding of this program in **future decades, and expand the program to include coverage for system capacity increases to meet projected growth for communities** ... The ready availability of groundwater across the region has **allowed development to occur outside existing surface water service areas** ... Increase funding of this program to meet near-term infrastructure cost projections ... **Increase funding of this program in anticipation of upcoming development** throughout the state, and expand the program to include preliminary engineering design costs for recommended facilities."

The December 2, 2009, RHWPG meeting had some of the best discussion we have heard about what may and may not be possible. The discussion included whether we can finance the water projects in the RHWP (an estimated \$20 billion may be needed); who benefits and who does not from most water projects; and whether all growth is for the best. It is of concern that the RHWP advocates building to meet growth instead of education, living within our means (watershed carrying capacity), and growing not just in numbers but quality of life. Does anyone really believe that if another 4-5 million people come to the Houston area that traffic congestion, water quality, water supply, air quality, quality of life, etc. will really be better?

The public needs to be provided honest information about what they will face and how their lives and those of their children, grandchildren and great grandchildren will be, using certain assumptions and then be asked to comment and provide input. Simply assuming that projected population will occur and you must build

for it assumes that that population and growth will occur. This way of planning assume that "trend is destiny" and that we should do all we can to build for that "estimate or projected future" instead of deciding what our future should be and look like and then working to implement that vision.

40) **Page 8-19, 8.4.2, Recommendations Specific to Infrastructure Financing and pages 8-31 and 8-32, Regionalization**, there is a suggestion to remove restrictions that limit public/private partnerships. On **pages 8-31 and 8-32** the RHWP states "partnerships with private investors through public-private partnerships and direct contracting with privately-owned facilities offer an advantage of using private financing to meet part of the initial planning construction costs ... existing assistance programs should remain available when political subdivisions enter into public/public or public/private partnerships ... the State Participation Program should be made available to these public/private partnerships and to private nonprofit water supply corporations."

The Sierra Club reminds RHWPG that this type of privatization of public resources and responsibilities can result in a public resource, water, becoming a commodity that private entities control and earn money off of. We are concerned that this could result in the use of financial instruments that are as shaky and ill-advised as the ones that have brought on our current recession. Why should the public give-up its control of its natural resource, water, while at the same time subsidizing a private for profit entity to make profits from this public resource? Quite frequently the profit motive overrides the public interest.

41) **Page 8-19, 8.4.3, Consistency with the Regional Water Plans**, the suggestion that a water right application is automatically consistent with the RHWP is a slippery slope. Just what does automatically consistent with the RHWP mean? Will this not act as an incentive to stretch this definition and try to shoehorn in more and more exceptions? Who will decide whether a proposal is consistent? Someone should decide in an open public forum and the sponsors should have to document and prove in public that the proposal is consistent with the RHWP.

42) **Page 8-19, 8.4.3, Water Management Strategy Flexibility**, RHWPG never states what the cost is of amending the RHWP? Is it exorbitant to amend the RHWP to correct what WUG will implement a WMA? RHWPG has not made a case to show this to be true. It seems as if this would make it easier to build dams if you do not have to commit to who will be the responsible party or parties.

43) **Page 8-20, Notification Procedures for Regional Plan Amendments**, the RHWPG states that "current notification requirements for the entire plan are expensive." There is no definition of expensive and what would be considered an appropriate amount of money to spend.

44) **Page 8-20, Quantitative Environmental Analysis**, the Sierra Club would like to see specific environmental analyses required including instream flow and inflows impacts as well as impacts on terrestrial and aquatic ecosystems. The lack of quantitative data hampers the public and decision-makers in reviewing, commenting, and understanding the RHWP.

45) **Page 8-21, 8.4.4, Interbasin Transfers**, the Sierra Club continues to be concerned about massive proposed interbasin transfers since they ensure that we continue to live outside of our means (beyond a watershed carrying capacity); potentially have huge environmental impacts; and ensure that areas that presently have more water will not be able to use that water for their needs in the future.

46) **Page 8-23, Water Supply Project Financing Mechanism**, the Sierra Club continues to be concerned that so much effort is being made to emphasize large water projects instead of educating people about their financial options and what different growth scenarios mean to them. If we get too much of the wrong kind of financing we may not be able to pay for it and then public water may then be controlled as a private and not a public natural resource.

47) **Page 8-31, Federal Civil Work Projects**, the Sierra Club is concerned about any recommendations that allow "potential modifications to existing reservoirs to increase water supply yields (these modifications are generally limited to a 15% increase in storage) ... USACE to increase water supply storage in new reservoirs which they construct and manage, and investigate other alternative for increased involvement by USACE in funding water supply projects" and which allow the Corps to participate in a "single purpose water supply project."

The Sierra Club understands that raising a dam can flood more area and in some cases this additional area includes important natural areas that should be protected and not destroyed as well as people's homes. Raising dams should have to go through the normal regional water planning process or amendment to the plan. Additional USACE involvement is not necessarily good since in the past some of the USACE projects have had the most devastating environmental impacts.

48) **Page 9-1, Capital Costs for the 2006 Region H Water Plan**, in the draft RHWP the presentation of the full costs, construction, maintenance, operation, and financing, should be emphasized for each water project so that the public can understand the full costs and not just the construction cost. It is the full costs that should be discussed and visibly displayed to the public.

49) **Page 9-4, Costs by Decade and Category**, the Sierra Club supports the lining of irrigation canals and the use of other conveyance methods, like pipelines, to reduce losses of water due to leaks and to prevent habitat losses.

The Sierra Club appreciates this opportunity to comment. Thank you.

Sincerely,

Brandt Mannchen
Chair, Forestry Subcommittee
Houston Regional Group of the Sierra Club
5431 Carew
Houston, Texas 77096
713-664-5962
brandtshnfbt@juno.com

A handwritten signature in black ink that reads "Brandt Mannchen". The signature is written in a cursive style with a large, prominent initial "B".



June 3, 2010

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Executive Director

The Honorable Mark Evans
Chairman, Region H Water Planning Group
c/o San Jacinto River Authority
P.O. Box 329
Conroe, Texas 77305-0329

Re: 2010 Region H Initially Prepared Plan

Dear Chairman Evans:

Thank you for the opportunity to review and comment on the 2010 Initially Prepared Regional Water Plan (IPP) for Region H. Texas Parks and Wildlife (TPW) acknowledges the time, money and effort required to produce the regional water plan as mandated by Senate Bill 1 of the 75th Legislature. A number of positive steps have been taken since the first planning cycle to advance the issue of environmental protection. For example, the regional water planning groups are required by TAC §357.7(a)(8)(A), to perform a "quantitative reporting of environmental factors including effects on environmental water needs, wildlife habitat, cultural resources, and effect of upstream development on bays, estuaries, and arms of the Gulf of Mexico" when evaluating water management strategies (WMS). Quantification of environmental impacts is a critical step in planning for our state's future water needs while also protecting environmental resources.

TPW staff has reviewed the IPP with a focus on the following questions:

- Does the plan include a quantitative reporting of environmental factors including the effects on environmental water needs, and habitat?
- Does the plan include a description of natural resources and threats to natural resources due to water quantity or quality problems?
- Does the plan discuss how these threats will be addressed?
- Does the plan describe how it is consistent with long-term protection of natural resources?
- Does the plan include water conservation as a water management strategy? Reuse?
- Does the plan recommend any stream segments be nominated as ecologically unique?
- If the plan includes strategies identified in the 2006 regional water plan, does it address concerns raised by TPW at that time?

The Region H IPP includes a quantitative analysis for several environmental factors. Chapter 1 offers a description of the region that includes a review of groundwater and surface water sources (Section 1.4) as well as a discussion on regional water quality and natural resources (Section 1.5). Section 1.5.5 identifies threats to natural resources. This section acknowledges Galveston Bay as the most significant natural resource in the region as well as the importance of maintaining freshwater inflows and instream flows. The Senate Bill 3 (2007) environmental flows process is identified as the means by which policies and procedures to define and protect the required minimum flows in streams and estuaries will be determined. Additionally, Table 1-14 lists the number of threatened and endangered species by county and Figure 1-6 depicts public lands within Region H. Section 1.6.3 describes several studies undertaken by Region H RWPG with funding from the TWDB, the first of which focused on evaluating the impacts of future WMS on freshwater inflows to Galveston Bay and evaluating the impacts of instream flow requirements for future water management strategies (discussed in Chapter 4 and Appendix 4D).

The Region H IPP also includes a quantitative analysis of the impacts of the 2006 State Water Plan on Galveston Bay freshwater inflows. The plan states that the results of the modeling show that “while inflow in the Trinity and San Jacinto Rivers may change over time, the additional net effect of Region H Water Management Strategies on total bay and estuary inflows after 2010 will be minimal, changes appear to involve relocation of inflow to a greater extent than alteration in total volume.” The location and timing of freshwater inflows is an important component of freshwater inflows, the alteration of which could have large ecological impacts. For example, sessile organisms such as oysters that are unable to relocate in response to changes in freshwater allocation may experience declines in population. Similarly, deltaic and brackish wetland habitats that provide important nursery ground may be altered by changes in salinity levels.

Natural resources within Region H and the impacts of recommended strategies on specific resources are addressed by the IPP. Threatened and endangered species are also addressed. Region H has replaced the proposed Little River off-channel reservoir with the Millican Reservoir to increase future water supplies in the Brazos Basin, although the Little River project is still included as an alternative strategy. The proposed Millican Reservoir may inundate bald eagle (*Haliaeetus leucocephalus*) and Houston toad (*Bufo houstonensis*) habitat and could possibly impact the interior least tern (*Sterna antillarum athalassos*), the piping plover (*Charadrius melodus*), and the whooping crane (*Grus americana*). This large proposed reservoir will impact large amounts of instream habitat, bottomland hardwoods and other terrestrial and aquatic habitats (see attachment). Mitigation costs for impacts to these habitats should be fully evaluated in the future consideration of this reservoir site. Aquatic

habitat mitigation costs should include all requirements outlined in the U.S. Army Corps of Engineers/EPA Mitigation Rule dated April 10, 2008. The plan anticipates impacts to wetland habitats associated with several strategies (Little River, Allens Creek, transfer of water from Lake Livingston, Luce Bayou).

The long-term protection of the state's water, agricultural, and natural resources are discussed in the IPP. Section 7.1 reviews the water resources available by basin within Region H. The Neches-Trinity Coastal Basin is expected to see minimal to no impact as the plan recommends the reallocation of existing supplies before increasing the transfer of water from the Trinity to meet projected demands. Sustainable yield is recommended for groundwater withdrawals in this basin. In the Trinity River Basin, the plan recommends using 95% of the firm yield of the system, and use of all water rights downstream of Lake Livingston. However, the ability to fully use Lake Livingston firm yield is dependent upon return flows from Region C. The plan asserts that additional supplies sought by Region C will offset any negative impacts from reuse strategies. However, this is assuming that Region C will not seek the reuse of those additional supplies. The export of groundwater is not recommended as a WMS in the Trinity River basin.

Water Conservation is considered as a WMS only for water user groups with projected shortages and for those that specifically asked for their program to be included. According to the Region H IPP median gallons used per capita per day (gpcd) in Region H is less than that recommended by the state (135 gpcd in region H, while the state recommends an average of 140 gpcd).

The process for designating Ecologically Unique Stream Segments is discussed in the IPP. A methodology for considering 40 stream segments identified by TPW and other sources, eight of which were designated Ecologically Unique by the Texas Legislature in 2007, is also discussed. No new stream segments are nominated for designation. TPW appreciates the actions taken by Region H that culminated in the designation of eight stream segments as unique but would have preferred to see additional segments be nominated during this planning cycle.

The Region IPP recommends increasing the transfer of water from the Brazos River to the San Jacinto-Brazos Coastal Basin to meet demands in Brazoria and Galveston counties, which will increase return flows to this section of Galveston Bay. The IPP also recommends seawater desalination as an alternative strategy for Brazoria County. The plan acknowledges this may increase streamflows through return flows but does not address any concerns with the discharge of brine. However, other sections of the IPP acknowledge that more study of brine discharge is needed.

Mr. Evans
June 3, 2010
Page 4 of 4

Within the Brazos River Basin, the Region H IPP' recommends the full use of existing supplies and water rights in the basin as well as developing new sources. The plan asserts that the Brazos River Authority has identified additional yield under the pending BRA Systems Operations Permit. The plan acknowledges that the increased yield will reduce peak flood flows in the lower Brazos. The IPP also states that when baseflows are below the median value, the BRA releases to meet downstream demands will result in increased flows in the river segments upstream of diversion points, with no effects downstream of diversion points. Allens Creek and Little River off-channel reservoirs are recommended and anticipated impacts during drought or on seasonal flows are limited because diversions only occur during peak flood flows. Millican Reservoir is also stated to involve peak flood flows, possibly resulting in a beneficial effect during low flow conditions. The Plan also recommends construction of a saltwater barrier to protect water quality in the lower Brazos Basin as TWDB modeling has shown saltwater influence will move upstream under full use of water rights.

The Brazos-Colorado Coastal Basin has a surplus in manufacturing water available. TPW supports the Region H IPP recommendation to reallocate a portion of this water to meet mining demand within the basin. No changes to basin flows are expected. TPW also supports the recommendation for groundwater use from the Gulf Coast Aquifer to not exceed sustainable yield.

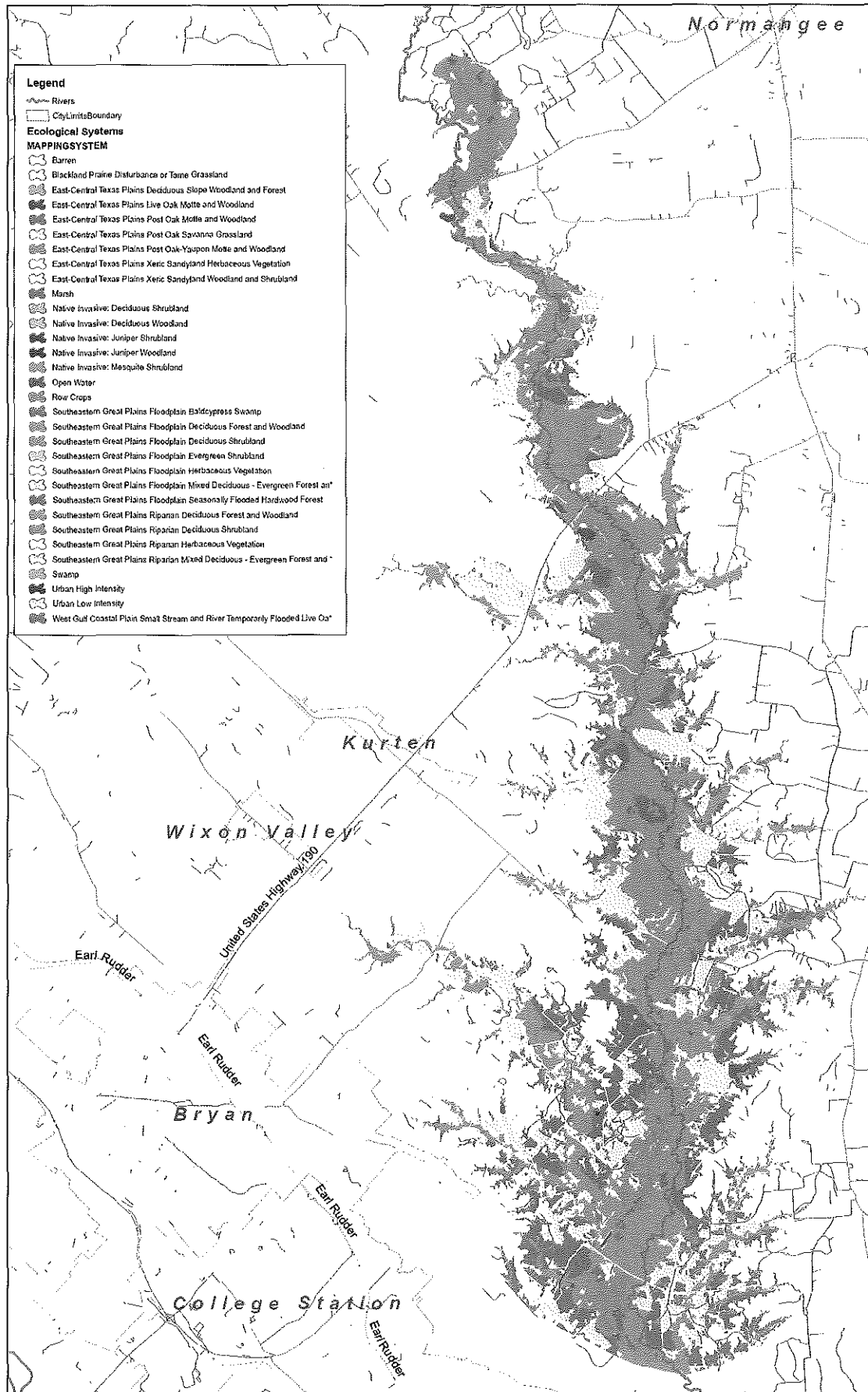
Thank you for your consideration of these comments. Please be assured that TPW will continue to work with Region H to explore all possibilities to meet future water supply needs and assure the ecological health of the region's aquatic resources. Please contact Cindy Loeffler at (512) 389-8715 if you have questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Ross Melinchuk". The signature is fluid and cursive, with a large initial "R" and "M".

Ross Melinchuk
Deputy Executive Director, Natural Resources

RM:CL:ms



Ecological systems in the vicinity of proposed Millican Panther Creek Reservoir.

MAPPINGSYSTEM	Hectares	Acres
East-Central Texas Plains Live Oak Motte and Woodland	2.1	5.2
East-Central Texas Plains Post Oak Motte and Woodland	5,112.2	12,632.4
East-Central Texas Plains Post Oak Savanna Grassland	4,125.1	10,193.2
East-Central Texas Plains Post Oak-Yaupou Motte and Woodland	212.5	525.1
East-Central Texas Plains Deciduous Slope Woodland and Forest	1.3	3.3
Southeastern Great Plains Floodplain Mixed Deciduous - Evergreen Forest and Woodland	15.8	39.0
Southeastern Great Plains Floodplain Deciduous Forest and Woodland	11,023.4	27,239.4
Southeastern Great Plains Floodplain Evergreen Shrubland	0.8	1.9
Southeastern Great Plains Floodplain Deciduous Shrubland	1,017.2	2,513.5
Southeastern Great Plains Floodplain Herbaceous Vegetation	4,228.5	10,448.8
Southeastern Great Plains Floodplain Baldcypress Swamp	6.4	15.7
Southeastern Great Plains Floodplain Seasonally Flooded Hardwood Forest	134.3	331.8
Southeastern Great Plains Riparian Mixed Deciduous - Evergreen Forest and *	5.1	12.5
Southeastern Great Plains Riparian Deciduous Forest and Woodland	122.7	303.1
Southeastern Great Plains Riparian Deciduous Shrubland	19.3	47.6
Southeastern Great Plains Riparian Herbaceous Vegetation	257.1	635.3
West Gulf Coastal Plain Small Stream and River Temporarily Flooded Live Oa*	0.1	0.3
Blackland Prairie Disturbance or Tame Grassland	34.2	84.6
East-Central Texas Plains Xeric Sandyland Woodland and Shrubland	1.5	3.7
East-Central Texas Plains Xeric Sandyland Herbaceous Vegetation	1.8	4.4
Native Invasive: Deciduous Woodland	15.8	39.0
Native Invasive: Juniper Woodland	0.4	0.9
Native Invasive: Juniper Shrubland	2.0	5.0
Native Invasive: Mesquite Shrubland	50.3	124.4
Native Invasive: Deciduous Shrubland	0.1	0.3
Marsh	2.7	6.7
Swamp	0.9	2.1
Barren	7.7	19.0
Open Water	161.1	398.2
Row Crops	23.5	57.9
Urban High Intensity	8.8	21.7
Urban Low Intensity	56.6	139.7

Acreege of ecological systems in the vicinity of proposed Millican Panther Creek Reservoir.

Appendix 10I

Responses to Written Comments

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AECOM

5757 Woodway Drive, Suite 101W, Houston, Texas 77057-1599
T 713.780.4100 F 713.780.0838 www.aecom.com

Memorandum

Date August 2010
To Texas Water Development Board
From Jason D. Afinowicz, P.E.
Subject TWDB Comments for Region H Initially Prepared Plan
Contract No. 0904830867

The text below provides response to TWDB's comments on the 2011 Initially Prepared Plan for Region H. Responses to TWDB comments are in italics.

LEVEL 1. Comments and questions must be satisfactorily addressed in order to meet statutory, agency rule, and/or contract requirements.

Chapter 1

1. Page 1A-2, Section 1A.1.4: The Groundwater Management Plan cited for the Lone Star Groundwater Conservation District appears outdated. TWDB records indicate the date of their most recently approved management plan is 2009. Please confirm that the information used from the Lone Star Groundwater Conservation District management plan in the development of the regional water plan is current.

The date of the Lone Star Groundwater Conservation District management plan was updated to 2009. In addition, the date of the Harris-Galveston Coastal Subsidence District, District Regulatory Plan was updated to June 2010 to reflect the latest amendments and the date of the Mid-East Texas Groundwater Conservation District Management Plan was updated to 2009. Chapter 3 of the Region H Water Plan also used the most current information from respective groundwater management plans and regulatory plans.

Chapter 2

2. Page 2-53, Table 2-6: The wholesale water provider list does not match the content of the online planning database. Trinity River Authority is included as a wholesale water provider in the plan lists but not in the database. Lyondell-Citgo Refining LP is listed as a wholesale water provider in the database but not in the plan. Please reconcile the plan and online planning database as appropriate.

Lyondell-Citgo Refining LP has been removed from the DB12 as a WWP. TRA is listed under Region C in DB12.

3. Page 2-54: Table 2-7 is mislabeled as Table 2-6. Please revise as appropriate.

Table header has been revised.

Chapter 3

4. Please confirm that the groundwater supplies in the plan were calculated, as required, as the largest amount of groundwater that can be pumped annually without violating most restrictive physical, regulatory or policy condition. [Contract Exhibit "C" Section 3.2]

Insert A, Page 3-2:

The estimates of groundwater availability for Austin, Fort Bend, Galveston, Harris, Montgomery, Walker and Waller Counties are consistent with either groundwater management plans or groundwater management strategies developed by the groundwater conservation districts or subsidence districts that encompass the counties. The estimates of availability are the maximum amounts of groundwater that can be withdrawn in the future, based on the planning and rules and regulations of the districts. For Chambers, Liberty, Polk, San Jacinto and Trinity Counties that are not in groundwater conservation districts, the estimates of groundwater availability are the largest estimated amounts that can be pumped annually, based on previous regional water planning efforts including those performed by the TWDB.

Insert B, page 3-8:

The current estimates of groundwater availability within the METGCD are consistent with the management plan adopted by the District. The METGCD is developing desired future conditions for the aquifers which will result in an estimate of managed available groundwater and those estimates may vary some from the current estimates of availability in Leon and Madison Counties. If that occurs, the revised estimates for groundwater availability in the two counties can be included in the next regional water planning effort.

Insert C, Page 3-10:

The estimates of groundwater availability are the largest amounts that can be considered, based on the Groundwater Reduction Plan that is a part of the rules and regulations of the FBSD.

Insert D, Page 3-15:

The estimate of groundwater availability is, for planning purposes, the largest amount of groundwater that can be utilized based on the rules of the Lone Star GCD. The estimate of groundwater availability for the Lone Star GCD may change in the future, based on additional hydrogeologic and planning data that are developed by the District.

5. Throughout Chapter 3, the plan refers to data from "DB07". Please correct the citations to refer to the current online planning database "DB12".

One reference to "DB07" was found on Page 3-1 in the main text of Chapter 3. This reference was updated to "DB12". Numerous references to "DB07" are found in Appendix 3C and associated appendices. Appendix 3C was prepared as a special study to analyze the presence of upper basin return flows in the Trinity River and the effects on the firm yield of Lake Livingston. In order to prepare the analysis, information from the 2006 Region C plan was utilized. This information included municipal demands, industrial demands, conservation volumes, current reuse supplies and projected reuse supplies that was obtained from "DB07". No changes to "DB07" are necessary in Appendix 3C.

6. Page 3-1, Section 3.2; Table 3A-1: Please indicate that the water supplies for both surface water and groundwater are available during drought of record conditions. [Title 31 Texas Administrative Code (TAC) §357.7(a)(3)]

The title of Appendix 3A was modified to read: "Current Water Supply Sources Available During Drought of Record Conditions" in order to indicate that both surface water and groundwater supplies shown are available during the drought of record. This change was made to the appendix title shown on Page 3-iii, Page 3-1, and Appendix 3A.

7. Page 3-67, Chambers County: The Lower Neches Valley Authority's irrigation allocation of 33,000 acft/yr does not match the authority's allocation of 38,000 acft/yr presented in Table 3H.1. Please revise as appropriate throughout the plan.

The allocation of 38,000 acft/yr shown in Table 3H.1 is correct. The supply of 33,000 afy allocated on Page 3-67 has been updated to 38,000 acft/yr.

8. Page 3-73, Table 3-14: Various 2060 supplies presented in Table 3-14 do not match the associated 2060 supplies presented in Table 3I (e.g. Ft. Bend Co WCID 1: 5,364 acft/yr vs. 1,000 acft/yr; NRG: 94,220 acft/yr vs. 70,711 acft/yr; and City of Huntsville: 22,403 acft/yr vs. 3,000 acft/yr). Please revise as appropriate throughout the plan.

Table 3-14 and Table 3I do not present the same information. Table 3-14 shows the annual supply available to each wholesale water provider through existing water rights, contracts from other wholesale water providers, or groundwater. Table 3I presents the water available to water user groups from each wholesale water provider.

Fort Bend County WCID 1

5,634 afy shown in Table 3-14 represents the water available to Fort Bend County WCID 1 through the water right 3461105170. However, only 1,000 afy is contracted to a Water User Group. The 1,000 afy contracted to Manufacturing in Fort Bend County is shown in Appendix 3I.

NRG

NRG is shown in Table 3-14 with available supplies of 94,220 afy and 83,000 afy contracted from the BRA. The 94,200 afy is the total water available to NRG through the water rights: 3460903926 (30,000 afy), 3461205320 (29,920 afy) and 3461205325 (34,300 afy). However, only portions of water rights 3461205320 and 3461205325 are allocated to WUGs. These allocations are shown in Appendix 3I as 12,000 afy and 28,711 afy respectively.

City of Huntsville

The City of Huntsville appears in Table 3-14 with a supply of 22,403 afy contracted from the TRA. Similarly, the City of Huntsville is shown in Appendix 3I as a WWP supplying a total of 22,403 afy to water user groups within Region H.

9. Page 3-73: Please explain how the information in Table 3-14 was developed in sufficient detail to reproduce it based on the related supply information presented in Appendix 3I.

Table 3-14 and Table 3I do not present the same information. The information in Table 3-14 is not reproducible from the information in Table 3I. Please refer to the response to the previous comment for further explanation. Table 3-14 shows the annual supply available to each wholesale water provider through existing water rights, contracts from other wholesale water providers, or groundwater. Table 3I presents the water available to water user groups from each wholesale water provider. As a result, Table 3I does not contain additional supplies that are available to the WWP but have not been made available to WUGs through contracts. For example, unallocated supplies from TRA's Lake Livingston water rights are shown as available supply in Table 3-14, but are not shown as currently available to WUGs in Table 3I.

10. Page 3-75, Table 3-15: The surface water supplies of 1,595 acft/yr for Chambers County Municipal Trinity Basin do not match the supply volume of 247 acft/yr presented for Chambers County Municipal Trinity Basin in Table 3H. Please revise as appropriate throughout the plan.

The 247 afy presented for Chambers County Municipal Trinity Basin in Table 3H is allocated to Anahuac. In addition to this supply, Table 3H shows municipal supplies allocated to the Trinity Bay Conservation District (Trinity Basin, Chambers County) in the amounts of 192 and 1156 afy. Together the three Municipal supplies in Chambers County, Trinity Basin total 1,595 afy. This is consistent with the data presented in Table 3-15. For additional information regarding how information in Table 3-15 was derived from Table 3H refer to the response to the following comment.

11. Page 3-75: Please explain how the information in Table 3-15 was developed in sufficient detail to reproduce it from the water supply information presented in Appendix 3H.

Information in Table 3-1 was developed from Appendix 3H by sorting surface water by county, basin, and use. Appendix 3H included columns for Supply IDs, but did not clearly identify each supply as surface, reuse, or groundwater. Appendix 3H also did not include a column for type of use: Municipal, Livestock, Irrigation, Manufacturing, Mining, or Steam Electric. Columns have been added to Appendix 3H to more clearly identify type of supply and type of use.

Chapter 4

12. Please describe how consideration of emergency transfers of surface water was considered in the plan. [31 TAC §357.5(i)]

The following text has been added to page 4-10: Emergency transfers of surface water are granted by the Texas Commission on Environmental Quality during periods where an imminent threat to public health and safety exist, including multi-year droughts, spikes in demands, or failure of water supply systems where demands are unable to be met by available resources. Emergency transfers of water, however, are only granted on an interim basis not lasting more than 180 days, and are not a reliable source of additional supplies to meet increased demands. Emergency transfers should only be considered as temporary, and just as they will not provide new long term sources of water, they will not affect water-right holders over long term periods. As the regional water planning process considers supplies and demands over decadal periods, temporary emergency transfers of water were not considered. As all supplies allocated

are considered available during drought of record (DOR) conditions, the need for additional supplies in the water planning process are due to unmet demands rather than temporary unavailability of supplies. If shortages are identified in a decade within the planning period, they are met with new supplies developed in a WMS.

13. Please include a discussion of how information from water loss audits of water users in the region was considered in the development of water management strategies in the final plan. [31 TAC §357.7(a)(7)(A)(iv)]

The following text has been added to page 4-16: Water loss audits were available and considered (see Chapter 1) by the Planning Group; the Group, however, did not opt to use this information in developing WMS. They did however elect to use a specific methodology for conservation, as detailed in Chapter 6. The water loss audits performed by water utilities in the region showed a high level of inaccuracy in the water loss estimates, suggesting that utilities in the region should refine their water accounting procedures for future audits. For this reason, the unique methodology for developing potential conservation savings was developed. Conservation was applied to WUGs (as described in Chapter 6) before supplies were given. This decreased WUG demands, minimizing water management strategy water that was required to meet potential shortages.

14. Please present wholesale water provider needs by categories of water use, county, and river basin. [31 TAC §357.7(a)(4)(B)]

This information has been added. Please see Table 4A-2 in Appendix 4A.

15. Page 4-1, 3rd paragraph: The total supplies for the region in 2010 of 3,554,001 acft/yr and 2060 of 3,415,361 acft/yr do not match the total supplies presented in Table 3-12 of 3,537,953 acft/yr in 2010 and 3,411,215 acft/yr in 2060. Please revise as appropriate throughout the plan.

Page 4-1 supplies have been revised to show the correct volumes presented in Table 3-12.

16. Pages 4-16 through 4-18, Tables 4-4 and 4-5: The tables of recommended and alternative water management strategies do not present decadal supply volumes. Please include recommended and alternative water management strategy water supply volumes, by decade, and capital costs. [Contract Exhibit "C", Section 11.1]

This information has been added. Please see Table 4A-6 in Appendix 4A.

17. Page 4-16, Table 4-4: Some project volumes, starting decades, and capital costs in Table 4-4 are not reproducible from the information contained in Appendix 4B (e.g. 21,700 acft/yr project volume for Missouri City Groundwater Reduction Plan; \$757,436 capital cost for Irrigation Conservation). Please revise as appropriate throughout the plan.

Values have been reviewed and corrected as necessary. In most cases this was an issue of removing or indicating where values had been rounded.

18. Page 4-16, Table 4-4; Appendices 4A and 4B: In the form that the water management strategy information is presented in the plan, it is unclear how to determine what water management strategy water supply volumes are allocated to specific individual water user groups. Please include a table or reference to identify which water user groups are associated with each wholesale water provider water management strategy (e.g. Millican Reservoir, Allens Creek Reservoir).

This information has been added. Please see Table 4A-7 in Appendix 4A.

19. Page 4-16, Table 4-4: In the form that the water management strategy information is presented, it is unclear how to differentiate the 'Expanded Current Contracts' from the 'New Contracts' as it relates to Appendix 4B information. Please clarify the components of the various 'contract' water management strategies, for example, by including Technical Memoranda for each type of contractual water management strategy in Appendix 4B.

The following has been added to Appendix 4B-6, WUG Contracts to clarify new and expand/increase contracts WMS:

"Expanded Current Contracts" refers to situations where a WUG currently has a contract with a WWP to receive contract water. This WMS involves expanding this contract to meet the WUG's shortages.

"New Contracts" refers to situations where it is recommended that a WUG enter into a new contract with a WWP that had not previously been supplying the WUG with contract water. This WMS establishes new contracts which will meet future WUG shortages.

20. Page 4-18, Table 4-5: The 36,000 acft/yr volume for the Freeport Desalination water management strategy does not match the 33,600 acft/yr volume in the associated Technical Memorandum 4B40. Please revise as appropriate throughout the plan.

Table 4-15 has been updated to show the correct volume of Freeport Desalination, as shown in Technical Memorandum 4B-40.

21. Page 4-18, Table 4-5: The Montgomery Municipal Utility District 8/9 Desalination alternative water management strategy capital costs do not appear to have been evaluated. Alternative water management strategies must be evaluated using the same criteria as recommended water management strategies. Please revise as appropriate throughout the plan. [Contract Exhibit "C" Section 4.3]

Capital Costs have been evaluated for MUDs 8/9 Desalination, and are presented in Technical Memorandum 4B-42.

Appendix 4A

22. Page 2 of Table 4A-3: The column titled "Identification of Water Quality Problems" is populated with a placeholder comment which has not been completed for each water management strategy listed. Please revise as appropriate throughout the plan.

Table 4A-3 (now Table 4A-4) has been updated.

23. Pages 1-3 of Table 4A-4: The Brazoria, Chambers, Fort Bend, Galveston, Harris, and Montgomery County water management strategy water supply volumes for strategies titled "Contract WMS" (composed of "Contract Expansions" and/or "New Contract from Existing Supply") and "Reallocate Existing Supply" are not reproducible from the information provided in Table 4A-5 and Appendix 4B. Please include an explanation of how the information in Table 4A-4 was developed and, if necessary, revise the plan tables as appropriate.

The initial shortages shown in Table 4A-4 reflect the sum of all shortages projected within the county, rather than representing a net value for both shortages and surpluses. For this reason, the values shown for "Reallocate Existing Supply" reflect only the positive portion of the reallocation WMS which would go toward meeting shortages. The negative portion is not shown as it would only reduce a projected surplus that is not reflected in the table.

24. Page 2 of Table 4A-4: The irrigation conservation volume in Fort Bend County of 5,197 acft/yr in all decades does not match the Fort Bend County conservation volume of 5,198 acft/yr in Table 4B2. Please revise as appropriate throughout the plan.

Table 4A-4 (now 4A-5) has been updated

25. Page 3 of Table 4A-4: The irrigation conservation volume in Liberty County of 20,876 acft/yr does not match the Liberty County conservation volume of 20,877 acft/yr in Table 4B2. Please revise as appropriate throughout the plan.

Table 4A-4 (now 4A-5) has been updated

26. Pages 2-4 of Table 4A-4: The Pecan Grove Groundwater Reduction Plan (GRP) (Technical Memorandum 4B13), Richmond and Rosenberg GRP (Technical Memorandum 4B14), Transmission to Central Harris County Regional Water Authority (Technical Memorandum 4B17), Harris County Municipal Utility District 50 Water Treatment Plant (Technical Memorandum 4B20), Luce Bayou Inner Basin Transfer (Technical Memorandum 4B21), Pearland Water Treatment Plant (Technical Memorandum 4B24), City of Houston Wastewater Reclamation for Municipal and Industrial Use (Technical Memorandum 4B31), Houston Bayous Permit (Technical Memorandum 4B37), Brazos Saltwater Barrier (Technical Memorandum 4B39), Huntsville Water Treatment Plant (Technical Memorandum 4B41), and Fort Bend WCID 2 (Technical Memorandum 4B44) are not represented in Table 4A-4. Please clarify and revise as appropriate throughout the plan.

The above strategies (with the exception of Houston Indirect Reuse) do not produce new volumes of water. Rather, these are infrastructure strategies needed to facilitate the conveyance or treatment of new supplies of water, and thus are not represented in table 4A-4, which lists volumes associated with new supplies.

Technical Memorandum 4B31 has been renamed "Houston Indirect Reuse" to appropriately correspond to its supply line listed in Table 4A-4.

27. Page 3 of Table 4A-4: The 2050 water volume for the San Jacinto River Authority Water Resources Assessment Plan water management strategy of 53,702 acft/yr does not match the 100,000 acft/yr volume in Technical Memorandum 4B15. Please revise as appropriate throughout the plan.

Technical Memorandum 4B-15 has been updated to clarify the supply volumes associated with this strategy. Table 4A-4 (now Table 4A-5) has been updated with correct volume.

28. Page 2 of Table 4A-4: The 2020 water volume for the Sugar Land Groundwater Reduction Plan water management strategy of 488 acft/yr does not match the 24,640 acft/yr volume in Technical Memorandum 4B16. Please revise as appropriate throughout the plan.

The 24,640 acft/yr volume represents the total conversion volume (water which is converted from formerly groundwater to surface water sources), not a volume of new supplies. The 488 acft/yr in 2020, and approximately 4,900 acft/yr in 2030 and beyond represents new supplies that are created as a result of their GRP. The GRP utilizes water reuse and water conservation practices which reduce demands and create new supplies.

29. Pages 1-4 of Table 4A-4 and Technical Memorandum 4B3: The volumes of water associated with individual water user groups are not presented for water conservation management strategies. Please present the volumes of water associated with conservation water management strategies for each water user group (e.g. in tabular form).

This information has been added. Please see Table 4A-7 in Appendix 4A.

Appendix 4B

30. Technical Memorandum 4B4: The capital cost for the San Jacinto River Authority/Trinity River Authority Contract Agreement water management strategy (\$302,781,600) does not match what is presented in Table 4C-1 (\$302,781,597). Please revise as appropriate throughout the plan.
31. Technical Memorandum 4B27: Gulf Coast Water Authority Off-Channel Reservoir water management evaluation does not indicate that environmental flows were considered and does not mention the use of planning consensus-criteria. Please describe how this water management strategy was evaluated regarding environmental criteria. [31 TAC §357.7(a)(8)(A)(ii)]

The Gulf Coast Water Authority (GCWA) Off-channel Reservoir was developed using diversions from current GCWA run-of-river rights in the Brazos and San Jacinto-Brazos Basins using existing environmental flow restriction present in the WAM models. Additional environmental flow restrictions were not included in the evaluation since the strategy was developed to optimize the yield of existing water rights and did not consider a new water right or diversion point.

32. Technical Memoranda 4B33, 43, 45: The North Harris County Regional Water Authority Reuse water management strategy (4B33), East Texas Water Transfer water management strategy (4B43), and Little River Off-Channel Reservoir water management strategy (4B45) are not presented in Table 4C-1. Please revise as appropriate.

NHCRWA Indirect Reuse was viewed as a WUG-level strategy and thus its cost are integrated into Table 4C-2. In regard to cost data, infrastructure costs for each WUG have been calculated by WUG and water supply type (direct reuse, treated surface water, raw surface water, groundwater, etc), as infrastructure would be built at the whole-WUG level rather than for individual supply lines. A more detailed version of Table 4C-2 has been developed but is not included in the RWP due to its large size. This expanded table is available upon request.

The Sabine to Region H Transfer (East Texas Water Transfer) and Little River Off-Channel Reservoir have been added as alternative strategies to Table 4C-1.

33. Technical Memoranda 4B30 through 4B35: Please present the volume of associated wastewater flows that would be the water source water reuse strategies evaluated as one of the feasible alternatives for future water supply. [31 TAC §357.7(a)(8)(A)(i)]

For Fulshear Reuse, City of Houston Indirect Reuse, Montgomery County MUDS 8&9

Reuse, and Wastewater Reclamation for Manufacturing Use, volumes are discussed in the "Supply Source" section of the technical memoranda in Appendix 4B. For the remaining potential WMS supply volumes are discussed in the body of the technical memoranda.

Appendix 4C

34. Page 4C-1: Based on the description in Table 4C-1, capital costs don't appear to include engineering, legal costs, and contingencies. Please clarify whether costs presented in Table 4C-1 include engineering, legal costs, and contingencies. [Contract Exhibit "C" Section 4.1]

Detailed cost estimates are completed for each WWP in Appendix 4C-1 and for each WUG in Appendix 4C-2. Where possible, WWP-level capital costs are developed from information provided by project sponsors; where sponsor data is not available, costs were developed using the methodology outlined in Appendix 4C and include engineering, legal cost, and contingencies. WUG-level costs were developed using the methodology described in Appendix 4C.

35. Table 4C-2: Some aggregated water management strategy supplies and/or associated costs (e.g. 'Water User Group Contracts' and 'Fort Bend MUD #25 Groundwater Reduction Plan', 'City of Fulshear Reuse') are not reproducible from Table 4C-2 and/or are not clearly associated with each water user group. Please revise plan as appropriate.

Information regarding supply for these strategies has been added. Please see Table 4A-7 in Appendix 4A. In regard to cost data, infrastructure costs for each WUG have been calculated by WUG and water supply type (direct reuse, treated surface water, raw surface water, groundwater, etc), as infrastructure would be built at the whole-WUG level rather than for individual supply lines. A more detailed version of Table 4C-2 has been developed but is not included in the RWP due to its large size. This expanded table is available upon request.

Chapter 6

36. Page 6-9: Please include a summary table of the individual and overall conservation survey results referenced in Section 6.1.7.1. [Contract Exhibit "A" Task 6.9]

A summary of the conservation survey responses has been included as Appendix 6B.

37. (Attachment B) Comments on the online planning database (i.e. DB12) are herein being provided in spreadsheet format. These Level 1 comments are based on a direct comparison of the online planning database against the Initially Prepared Regional Water Plan document as submitted. The table only includes numbers that do not reconcile between the plan (left side of spreadsheet) and online database (right side of spreadsheet). An electronic version of this spreadsheet will be provided upon request.

See Comments on Attached.

LEVEL 2. Comments and suggestions that might be considered to clarify or enhance the plan.

General Comments

1. Please consider including totals in all tables of the plan, where appropriate.

Chapter 1

2. Please consider including a map in Chapter 1 showing areas with water quality problems in the region.

Figure 1-7 has been added to Section 1.5.1 to show water quality problems in the Region.

3. Please consider including a map in Chapter 1 of the Groundwater Conservation Districts in the region.

Figure 1-5 has been added to Section 1.4 to show Groundwater Conservation Districts and Subsidence Districts in Region H.

4. Page 1-3, Table 1-1: Please consider also including Scott Hall as the current representative for Lower Neches Valley Authority.

The current representative for the Lower Neches Valley Authority listed on Page 1-5, Table 1-1 has been updated to show Scott Hall.

Chapter 3

5. Page 3-25, Table 3-5: Table shows the original storage capacity for Possum Kingdom as 504,100 acft. The engineering plate for Possum Kingdom in TWDB Report 126 shows the capacity as 570,243 acft. Please consider reconciling the information or providing clarification of how the 504,100 acft storage capacity was determined. 724,739 ac-ft is listed in TWDB Report 126 as the original permitted storage capacity for Possum Kingdom. The table was revised to list the original permitted storage capacity of 724,739 acft.

6. Page 3-75, Table 3-15: Please consider providing equivalent water supply summary tables for groundwater and reuse supplies.

The following Tables have been added to Chapter 3:

Table 3-16 Groundwater Supply by Categories of Water Use in Each County and Basin

Table 3-17 Reuse Supply by Categories of Water Use in Each County and Basin

Chapter 4

7. Appendix 4A, Table 4A-2: Please consider indicating in the table which water management strategies are selected as 'recommended' in the 2011 plan.

8. Appendix 4B, Technical Memorandum 4B22, Supply Quantity Section: Please consider indentifying the water management strategy that supplies the water volume conveyed by the North Fort Bend Water Authority Groundwater Reduction Plan/Transmission/Distribution water management strategy.

9. Appendix 4C: Please consider including a column of water management strategy names and volumes in Table 4C-2 to facilitate associating costs with projects.

Chapter 5

10. Reservoir water management strategies in the plan discussed reduced sediment loads in the water that is being released from the reservoirs. Nutrient loads may also be reduced along with sediment loads, potentially causing negative impacts which extend beyond the identified sediment impacts. Please consider including a discussion of the potential impact of reduced nutrient loads on habitats downstream from recommended projects. [31 TAC §357.7(a)(8)(A)(ii)]

The last paragraph on page 5-5 was amended to include potential impacts of reduced nutrient loads on downstream habitats. "The water that is diverted and stored in reservoirs would allow sediments to settle and accordingly water released from the reservoir would potentially have less sediment concentration. However, reduced sediment loads may have negative impacts on habitats relying on sediments downstream of the proposed reservoirs. Nutrients such as nitrogen and phosphorous, are often attached to fine sediment particles that settle in reservoirs reducing nutrient loads to downstream aquatic species."

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region ID	Item	Page number	Table number	Comments
H	Population in text (paragraph 3) for Brazoria, Ft. Bend, Harris, and Montgomery Counties. Consultants should verify Fig ES-1.	ES-4	Fig ES-1	The executive summary has been corrected to indicate a value of 5,387,370.
H	Regional 2060 demands	ES-5	1st sentence	The executive summary has been corrected to indicate a value of >3.52 million ac-ft
H	Total Water Supply for Region	ES-5		This has been updated to reflect changes.
H	Houston Indirect Reuse	ES-8		This strategy could potentially supply up to 580,900 ac-ft/yr. The value of 128,801 ac-ft/yr is viewed as the currently reasonable supply volume.
H	NHCRWA Reuse	ES-8		This strategy could potentially supply up to 126,000 ac-ft/yr. The value of 16,300 ac-ft/yr is viewed as the currently reasonable supply volume.
H	Population projections for Fort Bend County	ES-19	ES-4	The executive summary has been corrected to the appropriate value.
H	Population projections, Region H Total	ES-19	ES-4	The executive summary has been corrected to the appropriate value.
H	San Jacinto Co. Total Water Demand	ES-22	ES-5	The executive summary has been corrected to the appropriate value.
H	Waller Co. Total Water Demand	ES-22	ES-5	The executive summary has been corrected to the appropriate value.
H	Region H Total Water Demand	ES-22	ES-5	The executive summary has been corrected to the appropriate value.
H	Fort Bend Shortages	ES-27	ES-8	The executive summary has been corrected to the appropriate value.
H	Recommended WMS by Co., Brazoria Livestock	ES-27	ES-8	The 41 ac-ft listed as the WMS volume in DB12 includes 14 ac-ft to Galveston County.
H	Recommended WMS by Co., Allens Creek	ES-27	ES-8	The 69,755 is only the COH portion of the WWP WMS project. The remainder is reflected as BRA-sponsored in DB12. Please note that these values will be updated due to changes in Allens Creek supply allocations.
H	San Jacinto County Shortages	ES-29	ES-8	The executive summary has been corrected to the appropriate value.
H	Walker County Shortages	ES-30	ES-8	The executive summary has been corrected to the appropriate value.
H	Waller County Shortages	ES-30	ES-8	The executive summary has been corrected to the appropriate value.
H	Population projections NFBWA	2-8 and 2-27	2-2 and 2-4	Table 2-2 has been corrected and now matches Table 2-4 as well as DB12.
H	Regional Municipal Demand	2-17		This correction has been made to Chapter 2.
H	Regional Mining Demand	2-17		This correction has been made to Chapter 2.
H	Regional Livestock Demand	2-17		Regional Livestock demand is corrected to a value of 12,228 ac-ft/yr.
H	Municipal Demands San Jacinto County	2-65	2-7	This correction has been made to Chapter 2. It appears TWDB numbers are offset by a decade.
H	Harris Co-San Jac Basin Muni WUG SW supplies	3-76	3-15	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Liberty Co-Trinity Basin Muni WUG SW supplies	3-76	3-15	Chapter 3 is correct; DB12 has been updated to include San Jacinto County, Trinity Basin supply for LLWSSSC.
H	Polk Co-Trinity Basin Muni WUG SW supply	3-76	3-15	Chapter 3 is correct; DB12 has been updated to include Polk County, Trinity Basin supply for LLWSSSC.
H	San Jacinto Co-Trinity Basin Muni WUG SW supply	3-76	3-15	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Walker Co-Trinity Basin Muni WUG SW supply	3-76	3-15	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Brazoria Co Manufacturing Supply - SAN BERNARD RIVER	Appendix 3H	3H-1	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	RUN-OF-RIVER	Appendix 3H	3H-1	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Harris Co. City of Houston - LIVINGSTON-WALLISVILLE	Appendix 3H	3H-1	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	SYSTEM supply	Appendix 3H	3H-1	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Harris Co. City of Waller - Gulf Coast supply	Appendix 3H	3H-1	DB12 is correct; Table 3-15 and appendix 3H has been updated to be consistent with the database.
H	Liberty Co - LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY- Livingston Wallisville System supply	Appendix 3H	3H-1	Chapter 3 is correct; DB12 has been updated to include San Jacinto County, Trinity Basin supply for LLWSSSC.
H	MONTGOMERY Co. CONROE INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. COUNTY-OTHER INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. CUT AND SHOOT INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. EAST PLANTATION UD INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. H M W SUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY INDIRECT REUSE SIRA Supply	Appendix 3H	3H-1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region IPP	Item	Page number	Table number	Comments
H	MONTGOMERY Co. MONTGOMERY COUNTY MUD #18 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY COUNTY MUD #19 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY COUNTY MUD #8 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY COUNTY MUD #9 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY COUNTY UD #3 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. MONTGOMERY COUNTY UD #4 INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. OAK RIDGE NORTH INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. PANORAMA VILLAGE INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. RAYFORD ROAD MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. RIVER PLANTATION MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. SHENANDOAH INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. SOUTHERN MONTGOMERY COUNTY MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. SPRING CREEK UD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. STANLEY LAKE MUD INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. THE WOODLANDS INDIRECT REUSE SIRA Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	MONTGOMERY Co. WILLIS INDIRECT REUSE SIRA Supply POLK Co. COUNTY-OTHER LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	POLK Co. LAKE LIVINGSTON WATER SUPPLY & SEWER SERVICE COMPANY LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	Chapter 3 is correct; DB12 has been updated to include Polk County supply.
H	SAN JACINTO Co. IRRIGATION GULF COAST AQUIFER Supply SAN JACINTO Co. RIVERSIDE WSC LIVINGSTON-WALLISVILLE LAKE/RESERVOIR SYSTEM Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	WALKER Co. MINNING GULF COAST AQUIFER Supply	Appendix 3H	3H.1	DB12 is correct; Appendix 3H has been updated to be consistent with the database.
H	WALKER Co. NEW WAVERLY GULF COAST AQUIFER Supply	Appendix 3H	3H.1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALKER Co. RIVERSIDE WSC GULF COAST AQUIFER Supply	Appendix 3H	3H.1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALKER Co. RIVERSIDE WSC LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALKER Co. TRINITY RURAL WSC LIVINGSTON-WALLISVILLE SYSTEM Supply	Appendix 3H	3H.1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALKER Co. WALKER COUNTY RURAL WSC GULF COAST AQUIFER Supply	Appendix 3H	3H.1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region	Item	Page number	Table number	Comments
H	WALKER Co. WALKER COUNTY RURAL WSC SPARTA AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. BROOKSHIRE GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. COUNTY-OTHER GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. HEMPSTEAD GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. IRRIGATION BRAZOS RIVER ALLUVIUM AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. IRRIGATION GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. KATY GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. LIVESTOCK GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. LIVESTOCK LIVESTOCK LOCAL SUPPLY Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. MANUFACTURING GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. MINING GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. PINE ISLAND GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. PRAIRIE VIEW GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	WALLER Co. WALLER GULF COAST AQUIFER Supply	Appendix 3H	3H-1	This line is correct. The error resulted from a shift in the spreadsheet rows, not from inconsistencies between the IPP documents and the online database. No changes were required.
H	Brazos River Authority SW supply	Appendix 3I	3I	TABLE 3I SHOWS WATER PROVIDED DIRECTLY TO WUG FROM BRA. DB12 SHOWS TOTAL SUPPLIES TO WUGS AND LOWR LEVEL WWWS.
H	City of Galveston Gulf Coast GW Supply	Appendix 3I	3I	ADD SELF SUPPLY TO DB12
H	City of Houston Gulf Coast GW Supply	Appendix 3I	3I	DB12 has been corrected
H	Fort Bend County WCID#2 Gulf Coast GW Supply	Appendix 3I	3I	ADD MEADOWS GW SUPPLY TO DB12
H	Fort Bend County WCID#3 Brazos River ROR	Appendix 3I	3I	FORT BEND WCID #3 DOES NOT EXIST. NOT SURE WHERE THIS NUMBER COMES FROM.
H	GCWA Brazos River ROR	Appendix 3I	3I	REVISIONS TO APP #1 AND DB12 PER SUGARLAND ADJUSTMENT
H	Missouri City Gulf Coast Aquifer Supply	Appendix 3I	3I	MISSOURI CITY GW SUPPLIES NOT LISTED IN DB12. They have been updated.
H	NCWA Gulf Coast Aquifer Supply	Appendix 3I	3I	The source in DB12 will be changed to Lake Livingston
H	NCWA Livingston-Wallisville System Supply	Appendix 3I	3I	GROUNDWATER SUPPLIES OF MEMBERS WERE NOT LISTED IN DB12. SUPPLIES WILL BE ADDED. TABLE 3-13 HAS ALSO BEEN UPDATED..
H	NRG - BRA Mainstem System Supply	Appendix 3I	3I	DOES NOT SHOW SELF SUPPLY; SELF SUPPLY ADDED TO DB12
H	Richmond-Rosenberg Gulf Coast Aquifer Supply	Appendix 3I	3I	DOES NOT INCLUDE GW SELF SUPPLY; ADDED TO DB12.
H	San Jacinto RA San Jacinto River ROR Supply	Appendix 3I	3I	ADDITIONAL SJRA CONTRACT
H	Sugar Land Gulf Coast Aquifer Supply	Appendix 3I	3I	A correction has been made to DB12
H	Trinity RA Livingston-Wallisville System Supply	Appendix 3I	3I	DB12 is correct. Appendix 3I has been updated.
H	NRG Brazos River ROR Supply	Appendix 3I	3I	DOES NOT INCLUDE SELF SUPPLY; ADD SELF SUPPLY AND EXTRA...
H	LYONDELL-CITGO REFINING LP Livingston-Wallisville			
H	Lake/Reservoir System	Appendix 3I	3I	Lyondell-Citgo has been removed from DB12 as a WWF
H	Freepport Desalination WMS - (designation)			This strategy is now a recommended WMS. Appropriate changes to reflect this have been made throughout the document.
H	Montgomery MUD 8 and 9 Brackish Desal WMS - (designation)			This strategy should be listed as an alternative WMS. Necessary revisions will be made to DB12.
H	WMS name			The strategy name in DB12 will be updated if necessary.
H	WMS name			The Fort Bend Mud 25 GRP in the RWP consists solely of reuse supply lines. The strategy name in DB12 will be updated if necessary.
H	WMS name			The strategy name in DB12 will be updated if necessary.
H	Municipal Needs Fort Bend County	4-3	4-1	This correction has been made to Chapter 4.

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region IPP	Item	Page number	Table number	Comments
H	Municipal Needs San Jacinto County	4-4	4-1	This correction has been made to Chapter 4.
H	Municipal Needs Walker County	4-4	4-1	This correction has been made to Chapter 4.
H	IrrigationNeeds Walker County	4-5	4-1	This correction has been made to Chapter 4.
H	Total Regional Needs	4-5	4-1	This correction has been made to Chapter 4. Note that values now shown in Chapter 4 will differ slightly from the TWDB values shown due to minor corrections to existing supply lines.
H	Walker CO Expanded GW WMS supply	4-14 & App 4A	Table 4-2 & 4A-4	The correct value is 816 ac-ft. Of this, 1 ac-ft is allocated to county other, Trinity basin.
H	Walker CO Municipal Conservation	4-14 & App 4A	Table 4-2 & 4A-4	This correction has been made to Chapter 4.
H	Region H Municipal Conservation Total	4-14	Table 4-2	This correction has been made to Chapter 4.
H	Region H Expanded GW Total	4-14	Table 4-2	This correction has been made to Chapter 4. Note that values now shown in Chapter 4 will differ slightly from the TWDB values shown due to minor corrections.
H	Irrigation Conservation - Volume	4-16	Tab 4.4/FS-7	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Municipal Conservation Volume	4-16	Tab 4.4/FS-7	This discrepancy was caused by rounding in the table. This has now been corrected.
H	TBA to SIRA Transfer Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	TBA to Houston Contract Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Expanded Use of GW project volume	4-16	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Interim GW project volume	4-16	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	CHCRWA GRP Volume	4-17	4-4	Necessary changes will be made to DB12. Please note that the volume is recursive.
H	Fort Bend WCID 2 GRP - Project Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Fort Bend MUD 25 GRP or Reuse WMS volume	4-18	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	NFBWA GRP Supply Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	NFBWA Internal Distribution Supply Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	City of Missouri GRP Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected. Please note that values have changed due to a shift in WMS allocations.
H	NHCRWA GRP Volumes	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	NHCRWA Internal Distribution Volumes	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	NHCRWA Transmission Line Supply Volumes	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Pecan Grove GRP Volume	4-17	4-4	Necessary changes will be made to DB12. Please note that the volume is recursive.
H	Richmond/Rosenberg GRP Volume	4-17	4-4	This correction has been made to Chapter 4. Please note that the volume is recursive to an existing supply.
H	SIRA WRAP Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected. Please note that values have changed due to a shift in WMS allocations.
H	Sugarland GRP Volume	4-17	Tab 4.4/FS-7	Necessary changes will be made to DB12. Please note that the volume is recursive.
H	WHCRWA GRP project volume	4-17	4-4	Necessary changes will be made to DB12. Please note that the volume is recursive.
H	CHCRWA Internal Distribution Volume	4-17	4-4	The correct volume is 4,806 ac-ft. Part of the 4,800 ac-ft is from existing contracts that need infrastructure.
H	CHCRWA Transmission volume	4-17	4-4	The correct volume is 4,806 ac-ft. Part of the 4,800 ac-ft is from existing contracts that need infrastructure.
H	Harris County MUD 50 WTP volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Luca Bayou Transfer volume	4-17	Tab 4.4/FS-7	The volume of 450,000 ac-ft is the total conveyance capacity. 270,742 ac-ft is the allocated volume that is shown using the conveyance.
H	NFBWA Shared Transmission Line volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Pearland SWTP volume	4-17	4-4	Necessary changes will be made to DB12. Please note that the volume (13,420 ac-ft) is recursive.
H	WHCRWA Internal Distribution & WHCRWA Transmission Line Volume	4-17	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Millican Reservoir volume	4-17	Tab 4.4/FS-7	This WMS is no longer recommended.
H	Houston Indirect Reuse volume	4-18	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Wastewater Reclamation for Mun. Irrig. Volume	4-18	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Montgomery MUD 8/9 Indirect Reuse Volume	4-18	4-4	This discrepancy was caused by rounding in the table. This has now been corrected.
H	Brazoria Co Interruptible Supplies for Irr Volume	4-18	4-4	104,997 ac-ft is the allocated volume, while 124,000 ac-ft is the maximum volume of the supply. The table has been corrected.
H	Alternative - Freeport Desal	4-18	Table 4-5	This strategy is now a recommended WMS. Appropriate changes to reflect this have been made throughout the document.
H	Alternative - Montgomery MUD 8&9 Desal	4-18	Table 4-5	This is now corrected in the report and in DB12.
H	Alternative - Sabine to Beglion H transfer	4-18	Table 4-5	This is now corrected in the report and in DB12.
H	Alternative - Little River Off-Channel Reservoir	4-18	Table 4-5	This is now corrected in the report and in DB12.
H	Pearland SWTP WMS volume	Appendix 4A	4A-4 Brazoria	This WMS was not included in table because it does not create new supply - it is infrastructure only (recursive to other supplies).

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region ID	Item	Page number	Table number	Comments
H	Reallocate Existing Supply WMS volume	Appendix 4A	4A-4 Brazoria	Lines for reallocation of existing supplies include only the positive portions of reallocations, as negative portions remove surpluses from some WUGs. Shortage values reflect the sum of all WUG shortages without offsets for other WUG surpluses. A clarifying note was added to the table.
H	Reallocate Existing Supply WMS volume	Appendix 4A	4A-4 Chambers	Lines for reallocation of existing supplies include only the positive portions of reallocations, as negative portions remove surpluses from some WUGs. Shortage values reflect the sum of all WUG shortages without offsets for other WUG surpluses. A clarifying note was added to the table. TRA to WUG Contract in this case is a subset of the broader New Contract from Existing Supply WMS. Detailed information on overlapping strategies can be found in Table 4A-7.
H	WMS name	Appendix 4A	4A-4 Chambers	This is now corrected in the report.
H	Initial Shortage (2010-2020)	Appendix 4A	4A-4 Fort Bend	This WMS was not included in table because it does not create new supply - it is infrastructure only (recursive to other supplies).
H	Pecan Grove GRP WMS	Appendix 4A	4A-4 Fort Bend	This is now corrected in the report.
H	Reallocate Existing Supply	Appendix 4A	4A-4 Fort Bend	LNVA to WUG Contract in this case is a subset of the broader New Contract from Existing Supply WMS. Detailed information on overlapping strategies can be found in Table 4A-7.
H	WMS name	Appendix 4A	4A-4 Galveston	This WMS was not included in table because it does not create new supply - it is infrastructure only (recursive to other supplies).
H	Harris Co. MUD 50 WTP WMS volume	Appendix 4A	4A-4 Harris	LNVA to WUG Contract in this case is a subset of the broader TRA to SJRA Contract WMS. Detailed information on overlapping strategies can be found in Table 4A-7.
H	WMS name	Appendix 4A	4A-4 Montgomery	This is now corrected in the report.
H	Shortages (2030-2060)	Appendix 4A	4A-4 Walker	This is now corrected in the report.
H	Municipal Conservation supply (2020)	Appendix 4A	4A-4 Walker	This is now corrected in the report.
H	Waller Co. Total Shortages	Appendix 4A	4A-4 Waller	This is now corrected in the report.
H	San Jacinto County Total Shortages	Appendix 4A	4A-4 San Jacinto	This is now corrected in the report.
H	BRA - Fort Bend Co. MUD #25 - Fort Bend Co. Contract WMS volume	Appendix 4A	4A-5	The value listed for DB12 does not include both contracts, which are already in DB12
H	Houston - Irrigation - Liberty Co Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	El Lago is listed under Houston in DB12 but is listed under Pasadena in the IPP	Appendix 4A	4A-5	DB12 will be corrected to show El Lago as served by Pasadena WWP
H	Pasadena - El Lago - Harris Co. Contract WMS volume	Appendix 4A	4A-5	The contact version in the summary table includes supply reallocated to El Lago as well.
H	Pasadena - Pasadena - Harris Co. Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes expanded GW. A clarifying note has been added to the table.
H	Galveston Co WCID 1 - Dickinson - Galveston Co. Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes expanded GW. A clarifying note has been added to the table.
H	Missouri City Fort Bend Co-San Jacinto Contract WMS volume	Appendix 4A	4A-5	715 afy is from the Missouri City GRP. A clarifying note has been added to the table.
H	Missouri City Fort Bend Co-San Jacinto Brazos Contract WMS volume	Appendix 4A	4A-5	This is now corrected in the report. DB12 will be updated to reflect any WMS changes.
H	Missouri City Fort Bend Co-Brazos Contract WMS volume	Appendix 4A	4A-5	627 afy is from GRP ASR and reuse. A clarifying note has been added to the table.
H	Missouri City - Harris Co. Contract WMS volume	Appendix 4A	4A-5	386 afy is from GRP ASR and reuse. A clarifying note has been added to the table.
H	NFBWA - Fort Bend Co - San Jacinto-Brazos Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes expanded GW. A clarifying note has been added to the table.
H	NCWA - Pine Trails Utilities - Harris Co. Contract WMS volume	Appendix 4A	4A-5	The contact version in the summary table includes supply reallocated to Pine Trails as well.
H	Chambers-Liberty, Irrig., Chambers Co., Neches Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	Richmond-Rosenberg, Richmond, Fort Bend Co. Contract WMS volume	Appendix 4A	4A-5	This is now corrected in the report.
H	SJRA- Montgomery, Montgomery Co. Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes SJRA WRAP Participation. A clarifying note has been added to the table.
H	SJRA- Montgomery Co. UD #3 - Montgomery Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes SJRA WRAP Participation. A clarifying note has been added to the table.

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region IPP	Item	Page number	Table number	Comments
H	SIRA -Rayford Rd MUD - Montgomery Co. Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes SIRA WRAP Participation. A clarifying note has been added to the table.
H	SIRA-The Woodlands, Montgomery Co. Contract WMS volume	Appendix 4A	4A-5	The volume from summary table includes SIRA WRAP Participation and Expanded Use of GW. A clarifying note has been added to the table.
H	Sugarland - Fort Bend Co. - San Jacinto - Brazos Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	TTA -Irrigation - Liberty Co. - Neches-Trinity Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	WHCRA - Fort Bend Co. - San Jacinto Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	WHCRA - Harris Co. - San Jacinto Contract WMS volume	Appendix 4A	4A-5	The summary table does not list negative contract volumes. These have now been added as a sub-table.
H	Huntsville WTP WMS volume	Appendix 4B	4B41	DB12 will be corrected. Please note that the volume is recursive to an existing supply.
H	COH Treatment Expansion Annual Costs	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	COH Distribution Expansion Annual Costs	Appendix 4C	4C-1	Values in DB12 will be corrected. The report has been updated using data provided by COH.
H	Sugarland -GRP Capital Cost	Appendix 4C	4C-1	The total capital cost shown for in the table for the Sugar Land GRP includes a reuse component.
H	Sugarland GRP Reuse Capital and Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Missouri City GRP Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	COH Treatment Expansion WMS Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	COH Distribution Expansion Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	BRA System Operation Supply	Appendix 4C	4C-1	25,350 ac-ft is the Region H portion of this shared supply.
H	Allens Creek Supply Volume	Appendix 4C	4C-1	The summary table shows the allocated volume, not total project size.
H	COH TO BRA Contract Supply Volume	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	CHCRWA GRP Supply Volume	Appendix 4C	4C-1	The correct volume increases to 4,806 ac-ft. Part of the 4,800 ac-ft. is from existing contracts that need infrastructure. DB12 will be corrected.
H	COH GRP Supply Volume	Appendix 4C	4C-1	The values shown in the report are the positive portion of a supply reallocation. Consideration of the negative portion results in a net supply increase of 0 ac ft.
H	NHCRWA GRP Volume	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Millican Creek Reservoir Volume	Appendix 4C	4C-1	This WMS is no longer recommended.
H	CHCRWA Internal Distribution WMS Volume	Appendix 4C	4C-1	The correct volume increases to 4,806 ac-ft. Part of the 4,800 ac-ft. is from existing contracts that need infrastructure.
H	CHCRWA Transmission Volume	Appendix 4C	4C-1	The correct volume increases to 4,806 ac-ft. Part of the 4,800 ac-ft. is from existing contracts that need infrastructure.
H	COH to Sugar Land - SysOps Supply Volume	Appendix 4C	4C-1	The comment should indicate a BRA to Sugar Land contract in the comment. We are unsure where TWDB is getting the number shown for DB12, as DB12 appears to match the updated report.
H	Flo Community WSC - Total Annual Costs	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Flo Community WSC - Muni Cons. Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Freeport - Municipal Conservation Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	LLWSSC - Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected. The total cost will change due to addition of a recursive WMS for the WUG.
H	Daisetta - Capital Cost & Total Annual Cost	Appendix 4C	4C-1	This is now correct in the report and DB12.
H	Dickinson - Capital & Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Mining, Fort Bend Co. - Capital & Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Mining, Galveston Co., Capital & Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Mining, Austin Co. - Capital & Total Annual Cost	Appendix 4C	4C-1	This is now correct in the report and DB12.
H	Mining, Brazoria - Capital & Total Annual Cost	Appendix 4C	4C-1	This is now correct in the report and DB12.
H	Pearland - Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected. The total will change due to an updated recursive WMS.
H	County-Other, Waller Co. - Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Irrig., Fort Bend Co. - Capital & Total Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Irrig., Brazoria Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	Values in DB12 will be corrected.
H	Irrig., Chambers Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	This has been corrected in the report.
H	Irrig., Fort Bend Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	This has been corrected in the report.
H	Irrig., Galveston Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	This has been corrected in the report.
H	Irrig., Liberty Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	This has been corrected in the report. The cost has changed due to minor corrections.

ATTACHMENT B : LEVEL 1 COMMENTS-INITIALLY PREPARED REGIONAL WATER PLAN VS. ONLINE PLANNING DATABASE REVIEW

Region IPP			
Item	Page number	Table number	Comments
H Irig., Waller Co., Irrigation Cons. Annual Cost	Appendix 4C	4C-1	This has been corrected in the report. The cost has changed due to minor corrections.
H Municipal Water Demand San Jacinto Co.	Appendix 7D	Appendix 7D	Appendix 7D has been updated.



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
 c/o San Jacinto River Authority
 P. O. Box 329, Conroe, Texas 77305
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Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

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 Ted Long

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TWDE Liaison
 Temple McKinnon

August 18, 2010

Ms. Carolyn Ahrens
 Booth, Ahrens & Werkenthin, P.C.
 515 Congress Avenue, Suite 1515
 Austin, TX 78701-3503

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Ahrens,

The Region H Water Planning Group (RHWPFG) appreciates Montgomery County MUD 8 & 9's comments and input on the initially Prepared 2011 Region H Water Plan. Your comments regarding MUD 8 & 9's alternative groundwater desalination strategy have been considered by the RHWPFG and will be incorporated into the public comment document that is to be submitted to the Texas Water Development Board in September 2010. The Group will incorporate the information provided in your letter on the brackish groundwater desalination management strategy into the appropriate technical memorandum within the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
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August 18, 2010

Mr. Paul Brannon
 2103 Truman St.
 Bryan, TX 77801

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Brannon,

The Region H Water Planning Group (RHWPFG) appreciates your comments and input on the initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWPFG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWPFG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Agricultural
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August 18, 2010

Agricultural
 Robert Bruner
 Pudge Wilcox

Agricultural
 Robert Bruner
 Pudge Wilcox

August 18, 2010

Brazos County Commissioners Court
 c/o Hon. Randy Sims
 200 South Texas Avenue, Suite 332
 Bryan, TX 77803

Mr. Fred Brown
 1920 West Villa Maria Road
 Bryan, TX 77807

Counties
 John Blount
 Judge Art Henson
 Judge Art Henson

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Dear Judge Sims,

Dear Mr. Brown,

The Region H Water Planning Group (RHWPFG) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWPFG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWPFG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

The Region H Water Planning Group (RHWPFG) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWPFG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWPFG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Municipalities
 Jun Chang
 Robert Isire

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Municipalities
 Jun Chang
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Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Public
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TWDB Liaison
 Temple McKinnon

August 18, 2010

BVSWMA
 c/o Mr. Jason Blenski
 P.O. Box 9960
 College Station, TX 77842

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Blenski,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



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 Temple McKinnon

August 18, 2010

City College Station
 c/o Mayor Ben White
 P.O. Box 9960
 College Station, TX 77842

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mayor White,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board

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August 18, 2010

Mr. Blair Fannin
P.O. Box 6051
Bryan, TX 77805

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August 18, 2010

GCSRPC
P.O. Box 84
Ida, TX 77861

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C. Harold Wallace,
Executive Committee

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Temple Mckinnon

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Fannin,

The Region H Water Planning Group (RH-WPG) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about Bedias Reservoir and Millican Reservoir have been considered by the RH-WPG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RH-WPG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,


Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Stover,

The Region H Water Planning Group (RH-WPG) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RH-WPG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RH-WPG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,


Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge



REGION H WATER PLANNING GROUP
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 James Morrison
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 Executive Committee

TWDB Liaison
 Temple McKinnon

August 18, 2010

Grimes County Commissioners Court
 c/o Hon. Betty Shifflet
 P.O. Box 160
 Anderson, TX 77830

Subject: Comments on Region H 2011 Regional Water Plan

Dear Judge Shifflet,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
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 C. Harold Wallace,
 Executive Committee

TWDB Liaison
 Temple McKinnon

August 18, 2010

Guardians of the Navasota
 c/o Mr. Mark Dudley
 P.O. Box 76
 Kurten, TX 77862

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Dudley,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board

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August 18, 2010

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August 18, 2010

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TWDB Liaison
Temple McKinnon

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Hanson,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge

Subject: Comments on Region H 2011 Regional Water Plan

Dear Judge Henson,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge



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 Executive Committee

TWDB Liaison
 Temple McKinnon

August 18, 2010

Iola Cemetery Assn.
 c/o Ms. Elaine Sheffield
 P.O. Box 374
 Iola, TX 77861

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Sheffield,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
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TWDB Liaison
 Temple McKinnon

August 18, 2010

Mr. Marshall Jones
 10802 Nunn-Jones
 College Station, TX 77845

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Jones,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
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Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Jones,

The Region H Water Planning Group (RHWP-G) appreciates the Galveston Bay Foundation's comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about freshwater inflow targets, water conservation, and ecologically significant stream segments have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. The Group will continue to monitor developments in the freshwater inflows process and will follow the guidance of Senate Bill 3. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Jozwiak,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about water demands, Millican and Bedias Reservoirs, and interbasin transfers have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Please note that the issue of water demands was considered at a Region H meeting open to public attendance and comment. At that time, the Group chose not to revise the 2006 Regional Water Plan demands for steam-electric power generation. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
 c/o San Jacinto River Authority
 P. O. Box 329, Comroe, Texas 77305
 Telephone 936-588-1111 Facsimile 936-588-3043

Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Environmental
 John R. Barros,
 Executive Committee

Industries
 Gena Leathers
 Glynnia Leiper

Municipalities
 Jun Chang
 Robert Isire

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 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
 Reed Eichelberger, Secretary

Small Businesses
 Judge Bob Hebert
 John Howard
 Steve Tyler

Water Districts
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 Ron Neighbors, Vice-Chair
 Jimmy Schindewolf

Water Utilities
 James Morrison
 William Teer
 C. Harold Wallace,
 Executive Committee

TWDE Liaison
 Temple McKinnon

August 18, 2010

Ms. Lois Kolkhorst
 P.O. Box 1867
 Brenham, TX 77834

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Kolkhorst,

The Region H Water Planning Group (RHWPFG) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWPFG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWPFG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
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 Ron Neighbors, Vice-Chair
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 William Teer
 C. Harold Wallace,
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TWDE Liaison
 Temple McKinnon

August 18, 2010

Ms. Gená Leathers
 Global Technology Leader - Water
 Environmental Technology Center
 The Dow Chemical Company
 2301 N. Brazosport Blvd.
 Freeport, TX 77541-3257

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Leathers,

The Region H Water Planning Group (RHWPFG) appreciates Dow's comments and input on the initially prepared 2011 Region H Water Plan. Your comments regarding an off-channel reservoir and pump station expansion have been considered by the RHWPFG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. The Group has elected to include the off-channel reservoir as a recommended water management strategy in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
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August 18, 2010

Agricultural
 Robert Bruner
 Pudge Wilcox

Courtesy
 John Boutt
 Judge Mark Evans, Chair
 Judge Art Henson

Leon County Commissioners Court
 c/o Hon. Byron Ryder
 P. O. Box 429
 Centerville, TX 75833

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Dear Judge Ryder,

Environmental
 John R. Barros,
 Executive Committee

Industries
 Gena Leathers
 Gynna Leiper

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Public
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 Reed Eichlberger, Secretary

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 John Howard
 Steve Tyler

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 Jimmy Schindewolf

Water Utilities
 James Morrison
 William Teer
 C. Harold Wallace,
 Executive Committee

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

M. Mark Evans

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

TWDB Liaison
 Temple McKinnon



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
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August 18, 2010

Agricultural
 Robert Bruner
 Pudge Wilcox

Courtesy
 John Boutt
 Judge Mark Evans, Chair
 Judge Art Henson

Mr. Chris Loup
 P.O. Box 1542
 Montgomery, TX 77356

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Loup,

Environmental
 John R. Barros,
 Executive Committee

Industries
 Gena Leathers
 Gynna Leiper

Municipalities
 Jun Chang
 Robert Isre

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
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Small Businesses
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 John Howard
 Steve Tyler

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 Marvin Marcell
 Ron Neighbors, Vice-Chair
 Jimmy Schindewolf

Water Utilities
 James Morrison
 William Teer
 C. Harold Wallace,
 Executive Committee

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the incorporated Millican Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

M. Mark Evans

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

TWDB Liaison
 Temple McKinnon



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
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Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Environmental
 John R. Bartos,
 Executive Committee

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 Gena Leathers
 Glynn Leiper

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 Ron Neighbors, Vice-Chair
 Jimmy Schindewolf

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 James Morrison
 William Teer
 C. Harold Wallace,
 Executive Committee

TWDB Liaison
 Temple McKinnon

August 18, 2010

Mr. T. Barret Lyne
 18075 FM 974
 Bryan, TX 77808

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Lyne,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
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 P. O. Box 329, Conroe, Texas 77305
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August 18, 2010

Mr. Brandt Mannchen
 Chair, Forestry Subcommittee
 Houston Regional Group of the Sierra Club
 5431 Carew
 Houston, TX 77096

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Mannchen,

The Region H Water Planning Group (RHWP) appreciates the Sierra Club's comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. The Group thanks you for Sierra Club's thorough review of the Initially Prepared Plan. Responses to specific comments and concerns are provided below.

a) *In response to comment 3, 20, 22, 24, 32, and 33 regarding bay and estuary inflows:*

Consideration of bay and estuary inflows is indeed of particular importance to the planning process for Region H. As you are aware, the determination of appropriate inflow targets is an ongoing process and for some coastal and estuarine systems guidance is not yet available; the Group will continue to monitor developments in the freshwater inflows process and will follow the guidance of Senate Bill 3.

b) *In response to comment 4 regarding the Bedias Reservoir:*

Please note that the Bedias Reservoir is not recommended as a water management strategy in the 2011 Region H Water Plan.

c) *In response to comments 5 and 21 regarding climate change:*

Climate change has not been included as a factor in the 2011 Region H Initially Prepared Plan. Due to the importance of the topic, climate change and how it impacts the planning process will likely be an ongoing discussion in future planning cycles.

d) *In response to comments 6, 31, and 39 regarding population projections and carrying capacity:*

The planning process is well-defined in terms of what methodology will be used for regional water planning and what process needs to be followed to develop population and water demand projections. These methods and processes are well documented in TWDB guidance documents and have also been discussed and summarized at several Region H public meetings.

Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Environmental
 John R. Bartos,
 Executive Committee

Industries
 Gena Leathers
 Glynn Leiper

Municipalities
 Jun Chang
 Robert Isire

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
 Reed Eichelberger, Secretary

Small Businesses
 Judge Bob Hebert
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 Steve Tyler

Water Districts
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 Jimmy Schindewolf

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 James Morrison
 William Teer
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 Executive Committee

TWDB Liaison
 Temple McKinnon



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The guidelines require that projected water shortages for each water user group (WUG) in the region be addressed through the identification of water management strategies including water conservation to eliminate the shortage. Determining the carrying capacity of a region and implementing strategies to limit growth so as to stay within that capacity is not currently the specified planning method under this program.

As these comments are related to the validity of the process for developing population and water demand projections as a whole, they cannot be addressed by the Group during this current round of water planning for the 2011 Region H Water Plan. These comments should be directed to the State Legislature as recommended changes to the planning process.

e) *In response to comments 9 and 13:*

Your opposition to the projects listed has been noted.

f) *In response to comment 12 regarding Milligan Reservoir:*

Based on consideration of available information and public input, the RHWP-G has elected not to include the Milligan Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan.

g) *In response to comment 15 regarding wastewater reclamation for municipal irrigation:*

The possibility of a reduction in golf course number is unknown.

h) *In response to comment 19 regarding modeling of conservation:*

There is not an appropriate method of modeling the Region H conservation strategies within WRAP. Conservation may impact use of water from multiple source types rather than just surface water. Further, the model study focused on water rights diversion levels, while conservation was applied in the Plan to meet shortages and thus largely addresses demands beyond the surface water diversion amount. In effect, the region H conservation strategies reduce the need for new supplies rather than reducing demands in currently-utilized supplies.

i) *In response to comment 42 regarding the cost of amending the RWP:*

The cost of amending the RWP would depend greatly upon the nature of the amendment and would have to be examined on a case-by-case basis. Please note that while specific project sponsors do not necessarily have to be identified for the high-level planning in the RWP, the Group itself cannot develop projects, nor force the development of recommended projects. In order for a reservoir or any other project to be constructed, initiative would have to be taken by a project sponsor (typically a river authority or other governmental organization) with an identified funding source.

j) *In response to comment 49 regarding project costs:*

Costs for management strategies beyond the capital cost for project construction are included in Appendices 4B and 4C. In addition to capital costs, annual costs are presented and include, where applicable, debt service, operations and



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maintenance, and energy. Table 4C-1 lists capital and annual costs for WWP-level projects, while Table 4C-2 gives capital and annual project costs to individual WUGs. Costs were developed in accordance with TWDS guidance; a detailed description of Region H cost estimation methodology is included in Appendix 4C.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
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Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

August 18, 2010

Mr. Ross Melinchuk
 Deputy Executive Director, Natural Resources
 Texas Parks and Wildlife Department
 4200 Smith School Road
 Austin, TX 78744-3291

Subject: Comments on Region H 2011 Regional Water Plan

Environmental
 John R. Barcos,
 Executive Committee

Industries
 Gena Leathers
 Glynnia Leiper

Municipalities
 Jun Chang
 Robert Istre

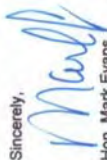
Dear Mr. Melinchuk,

The Region H Water Planning Group (RHWP) appreciates the Texas Parks and Wildlife Department's comments and input on the initially prepared 2011 Region H Water Plan. Your comments about freshwater habitat impacts, mitigation, and Unique Stream Segment designation have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Additionally, based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. TPWD's thorough review of the Plan is appreciated by the Planning Group. Thank you again for making your views known.

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
 Reed Eichelberger, Secretary

Sincerely,



Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Small Businesses
 Judge Bob Hebert
 John Howard
 Steve Tyler

Water Districts
 Marvin Marcell
 Ron Neighbors, Vice-Chair
 Jimmy Schindewolf

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TWDB Liaison
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Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

August 18, 2010

Tom and Paula Moore
 1714 Serval Lane
 College Station, TX 77840

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. and Ms. Moore,

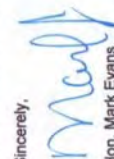
The Region H Water Planning Group (RHWP) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Environmental
 John R. Barcos,
 Executive Committee

Industries
 Gena Leathers
 Glynnia Leiper

Municipalities
 Jun Chang
 Robert Istre

Sincerely,



Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
 Reed Eichelberger, Secretary

Small Businesses
 Judge Bob Hebert
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August 18, 2010

Ms. Catherine Payne
 1800 Holleman Drive, Apt. #1515
 College Station, TX 77940

- Agricultural
Robert Bruner
Pudge Wilcox
- Counties
John Blount
Judge Mark Evans, Chair
Judge Art Henson
Ted Long
- Electric Generating Utilities
- Environmental
John R. Barrios
Executive Committee
- Industries
Gena Leathers
Glynn Leiper
- Municipalities
Jun Chang
Robert Istre
- Public
Roosevelt Alexander
- River Authorities
John Hoffman
Danny F. Varos
Reed Eichelberger, Secretary
- Small Businesses
Judge Bob Hebert
John Howard
Steve Tyler
- Water Districts
Marvin Marcell
Ron Neighbors, Vice-Chair
Jimmy Schindewolf
- Water Utilities
James Morrison
William Teer
C. Harold Wallace,
Executive Committee

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Payne,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about the proposed Milligan Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP-G has elected not to include the Milligan Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

- Agricultural
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Judge Mark Evans, Chair
Judge Art Henson
Ted Long
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Glynn Leiper
- Municipalities
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- Public
Roosevelt Alexander
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August 18, 2010

Mr. Glen Roe
 97 J.C. Walker Loop
 Bedias, TX 77831

- Agricultural
Robert Bruner
Pudge Wilcox
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- Electric Generating Utilities
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Steve Tyler
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Ron Neighbors, Vice-Chair
Jimmy Schindewolf
- Water Utilities
James Morrison
William Teer
C. Harold Wallace,
Executive Committee

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Roe,

The Region H Water Planning Group (RHWP-G) appreciates your comments and input on the initially prepared 2011 Region H Water Plan. Your comments about Bedias Reservoir have been considered by the RHWP-G and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. The Bedias Reservoir is not recommended as a water management strategy in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

- Agricultural
Robert Bruner
Pudge Wilcox
- Counties
John Blount
Judge Mark Evans, Chair
Judge Art Henson
Ted Long
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REGION H WATER PLANNING GROUP
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 Jimmy Schindewolf

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 James Morrison
 William Teer
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 Executive Committee

TWDB Liaison
 Temple McKinnon

August 18, 2010

Ms. Margie Rogers
 8695 Timberswilde
 Bryan, TX 77808

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Rogers,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
 c/o San Jacinto River Authority
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August 18, 2010

Elaine and Robert Sheffield
 CR 103
 Iola, TX 77861

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. and Ms. Sheffield,

The Region H Water Planning Group (RHWP) appreciates your comments and input on the Initially Prepared 2011 Region H Water Plan. Your comments about the proposed Millican Reservoir have been considered by the RHWP and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. Based on consideration of available information and public input, the RHWP has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge

Agricultural
 Robert Bruner
 Pudge Wilcox

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

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 John R. Bartos,
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August 18, 2010

Agricultural
 Robert Bruner
 Pudge Wilcox

Ms. Cheryl Wells
 14120 Starview Ln
 North Zulch, TX 77872

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Dear Ms. Wells,

Environmental
 John R. Barros,
 Executive Committee

Industries
 Gena Leathers
 Gynna Leiper

Municipalities
 Jun Cheng
 Robert Isire

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
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 Reed Eichelberger, Secretary

Small Businesses
 Judge Bob Hebert
 John Howard
 Steve Tyler

Water Districts
 Marvin Marcell
 Ron Neighbors, Vice-Chair
 Jimmy Schindewolf

Water Utilities
 James Morrison
 William Teer
 C. Harold Wallace,
 Executive Committee

TWDB Liaison
 Temple Mickinnon

Sincerely,

Hon. Mark Evans
 Chair, Region H Water Planning Group
 Trinity County Judge



REGION H WATER PLANNING GROUP
Senate Bill 1 - Texas Water Development Board
 c/o San Jacinto River Authority
 P. O. Box 329, Conroe, Texas 77305
 Telephone 936-588-1111 Facsimile 936-588-3043

August 18, 2010

Agricultural
 Robert Bruner
 Pudge Wilcox

Mr. C. Leon Williamson
 106 East 26th
 Bryan, TX 77803

Counties
 John Blount
 Judge Mark Evans, Chair
 Judge Art Henson

Electric Generating Utilities
 Ted Long

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Williamson,

Environmental
 John R. Barros,
 Executive Committee

Industries
 Gena Leathers
 Gynna Leiper

Municipalities
 Jun Cheng
 Robert Isire

Public
 Roosevelt Alexander

River Authorities
 John Hoffman
 Danny F. Vance
 Reed Eichelberger, Secretary

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C. Harold Wallace,
Executive Committee

TWDB Liaison
Temple McKinnon

August 18, 2010

Mr. Jim Winn
President, Houston Audubon
440 Wilchester Boulevard
Houston, TX 77079-7329

Subject: Comments on Region H 2011 Regional Water Plan

Dear Mr. Winn,

The Region H Water Planning Group (RHWPG) appreciates Houston Audubon's comments and input on the initially Prepared 2011 Region H Water Plan. Your comments regarding Unique Stream Segment designation, freshwater inflows, water conservation, and the Millican Reservoir have been considered by the RHWPG and will be incorporated into the document that is to be submitted to the Texas Water Development Board in September 2010. This Group will continue to monitor developments in the freshwater inflows process and will follow the guidance of Senate Bill 3. Additionally, based on consideration of available information and public input, the RHWPG has elected not to include the Millican Reservoir as a recommended water management strategy or recommended Unique Reservoir Site in the 2011 Region H Water Plan. Thank you again for making your views known.

Sincerely,

Hon. Mark Evans
Chair, Region H Water Planning Group
Trinity County Judge

