

# Lower Brazos River Water Alliance

## ☆ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

*Brazos River Authority*

*Gulf Coast Water Authority*

*City of Houston*

*City of Missouri City*

*City of Richmond*

*City of Rosenberg*

*City of Stafford*

*City of Sugar Land*

*WCID #2*

TO: LOWER BRAZOS RIVER WATER ALLIANCE  
MEMBERS

FROM: LEGISLATIVE SUB-COMMITTEE

SUBJECT: ALLEN'S CREEK RESERVOIR

The Legislative Sub-Committee named at the January 27<sup>th</sup> meeting has prepared the attached legislative request to be forwarded to Senator Brown's office with the members general consensus. The request is not prepared in legislative form since the Senator and his staff are much better equipped to develop legislation than the Sub-Committee. Senator Brown's office has requested our input by close of business, February 19, 1999. We ask that you review the attachment and fax this cover memo back to Charles F. Settle, at (713) 837-0464, no later than 2:00 p.m., Friday, February 19, 1999, with the appropriate boxes checked below.

Please sign and indicate which member you represent.

Agree with the request

Disagree with the request

Comments for inclusion in final request: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Signature: \_\_\_\_\_

Representing \_\_\_\_\_

**PURPOSE:**

It is the intention of the Lower Brazos River Water Alliance to preserve the Allen's Creek Reservoir site and provide for the permitting and construction of the reservoir in accordance with the timetable developed by Region H Regional Water Plan.

**BACKGROUND:**

The Allen's Creek Reservoir site, located in Austin County, provides a unique opportunity for future reservoir development for the citizens of the State of Texas. The site has been identified by the Texas Water Plan as a site to be preserved and developed to serve future water needs of the area. Houston Industries currently owns the site which consists of approximately 11,385 acres. The Brazos River Authority (BRA) holds an option for purchase of about 9,424 acres of the site which includes all of the land necessary to physically contain the reservoir. The BRA's current option ends in November 1999. The Lower Brazos River Water Alliance, a group of water producers, distributors and users in Brazoria, Fort Bend and Harris Counties, currently includes the Brazos River Authority, Gulf Coast Water Authority, cities of Houston, Missouri City, Richmond, Rosenberg, Stafford and Sugar Land and WCID #2. It is anticipated that some of the current members of the Alliance, and possibly additional members, will enter into participation agreements with the Brazos River Authority to acquire the Allen's Creek site to maintain the property under one ownership. Future agreements among the Alliance members would develop the reservoir when the need is projected by the Region H Regional Water Plan. Texas Water Development Board financial participation may be required for site acquisition and/or reservoir development.

**LEGISLATIVE REQUEST:**

It is the general consensus of the current members of the Lower Brazos River Water Alliance that legislation, that included the following principals where possible would be extremely beneficial in the Alliance's effort to preserve and develop Allen's Creek Reservoir:

1. Recognize that while the Lower Brazos River Water Alliance is not a legal entity, some members of the Alliance intend to enter into financial participation agreements to acquire the Allen's Creek Reservoir site in the very near future for the ultimate benefit of all Alliance members.
2. The Texas Development Board is authorized to enter into contracts to purchase any or all of the property, both real and personal, necessary for the development of the Allen's Creek Reservoir, as long as the price for such purchase does not exceed 50% of the total estimated price for acquisition of land and construction of the project.
3. Authorize TWDB to issue bonds to participate in the purchase of the Allen's Creek Reservoir site with an estimated total cost of about \$20 million.
4. Establish a priority date for water rights from the Allen's Creek Reservoir that is as early as possible under the rules, but no later than September 1, 1999.
5. Establish a minimum dependable yield of not less than 70,000 acre-feet per annum with 168,000 acre-feet per year from the Brazos River reserved for storage in Allen's Creek Reservoir at a diversion rate not to exceed 1,800 cubic feet per second.
6. The permit when applied for will be subject to all rules and regulations in place at the time of application.

SENT BY: WACO : 2-19-99 : 8:21 : BRAZOS RIVER ALTH. : 713 837 0464: # 2



# Lower Brazos River Water Alliance

## ★ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

- Brazos River Authority
- Gulf Coast Water Authority
- City of Houston
- City of Missouri City
- City of Richmond
- City of Rosenberg
- City of Stafford
- City of Sugar Land
- WCID #2

TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS

FROM: LEGISLATIVE SUB-COMMITTEE

SUBJECT: ALLEN'S CREEK RESERVOIR

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Agree with the request

Disagree with the request

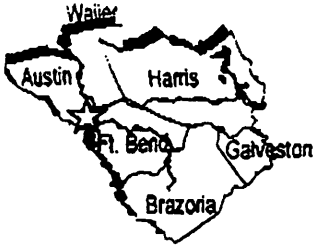
Comments for inclusion in final request: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature: Michael J. [Signature]

Representing Brazos River Authority

General Counsel has not reviewed,  
 but this is fine for this stage

M.S.P.



# Lower Brazos River Water Alliance

☆ PROPOSED ALLEN'S CREEK RESERVOIR

**MEMBERS**

*Brazos River Authority*

*Gulf Coast Water Authority*

*City of Houston*

*City of Missouri City*

*City of Richmond*

*City of Rosenberg*

*City of Stafford*

*City of Sugar Land*

*WCID #2*

TO: LOWER BRAZOS RIVER WATER ALLIANCE  
MEMBERS

FROM: LEGISLATIVE SUB-COMMITTEE

SUBJECT: ALLEN'S CREEK RESERVOIR

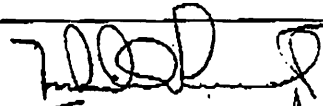
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Please sign and indicate which member you represent.

Agree with the request

Disagree with the request

Comments for inclusion in final request: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

  
Signature: FREDERICK A. PERZICOT  
Representing CITY OF HOUSTON

FEB-18-99 05:25 PM CITY OF SUGAR LAND DCMG 281 2752817

CUH-UTILITIES PLANNING Fax:713-837-0464

Feb 18 1999 16:11 P.02

P.01



# Lower Brazos River Water Alliance

☆ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

- Brazos River Authority
- Gulf Coast Water Authority
- City of Houston
- City of Missouri City
- City of Richmond
- City of Rosenberg
- City of Stafford
- City of Sugar Land

WCSB 02

**TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS**

**FROM: LEGISLATIVE SUB-COMMITTEE**

**SUBJECT: ALLEN'S CREEK RESERVOIR**

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Please sign and indicate which member you represent.

Agree with the request

Disagree with the request

Comments for inclusion in final request: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Signature: Allen Brown

Representing Sugar Land

CLAYTON POPE  
GOVERNMENTAL CONSULTANT  
THE WESTGATE BUILDING  
1122 COLORADO, SUITE 208  
AUSTIN, TEXAS 78701  
512/480-0820  
FAX 512/480-8051

TO: NOGIFWENOVA 499-0575  
SABRINA FOSTER 485-4549

DATE: 2/19/99

RE: \_\_\_\_\_

MESSAGE: Allen's Creek report was sent  
to Carol McGarrah.  
Chy

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET ✓

ORIGINAL OF THIS FACSIMILE WILL:

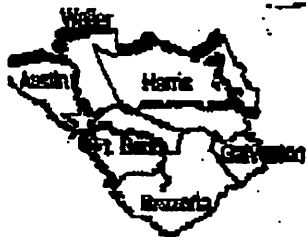
FOLLOW VIA MAIL \_\_\_\_\_  
FOLLOW VIA OVERNIGHT EXPRESS ✓  
NOT BE SENT \_\_\_\_\_

NOTICE OF CONFIDENTIALITY

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1. Subject to the attorney-client privilege;
  2. Attorney work product; or
  3. Confidential.

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If you do not receive all pages, please call: (512) 480-0820 for assistance.



# Lower Brazos River Water Alliance

## ☆ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

- Brazos River Authority*
- Gulf Coast Water Authority*
- City of Brown*
- City of Houston City*
- City of Richmond*
- City of Rosenberg*
- City of Stamford*
- City of Sugar Land*
- PCFB 83**

**TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS**

**FROM: LEGISLATIVE SUB-COMMITTEE**

**SUBJECT: ALLEN'S CREEK RESERVOIR**

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Please sign and indicate which member you represent.

- Agree with the request *Allens Creek - proper spelling*
- Disagree with the request

Comments for inclusion in final request: *I would like the number of the bill as soon as filed. Also note question on condemnation rights.*

Signature: *Carolyn Bilski*

Representing: *Austin County*

02/19/99 18:00

409 865 8786

AUSTIN COUNTY

001

**CAROLYN BILSKI**

County Judge  
Austin County Courthouse  
One East Main  
Bellville, Texas 77418-1598

Telephone (409)865-5911 extension 101  
Fax (409)865-8786

**FACSIMILE SHEET  
DOCUMENT TRANSMITTED  
AUSTIN COUNTY FAX NUMBER 409 865-8786**

*CMOL*

ADDRESSED TO:

~~Chuck Seale~~

SENT BY:

Carolyn *CLAY*

SUBJECT:

Legislative request for Lower Brazos River Water Alliance

NUMBER OF PAGES:

5 *including this page*

SENT TO FAX NUMBER:

713 837 0464

DATE:

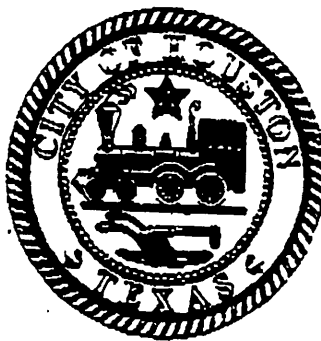
2/19/99

Comments: *Chuck - thanks for your Fax. Please note:*

*Allens Creek - proper spelling as noted on attachments  
no apostrophe!*

*Would condemnation rights be included in legislation given to  
Texas Development Board?*





# CITY OF HOUSTON

## PLANNING AND OPERATIONS SUPPORT UTILITY PLANNING SECTION FAX TRANSMITTAL COVER SHEET

THE FOLLOWING 25 PAGES (INCLUDING COVER SHEET) ARE

TO: ~~CRAY POPE~~ CAROL McWORTHY 463  
6769

FROM: ~~CHUCK SETTLE~~ CLAY

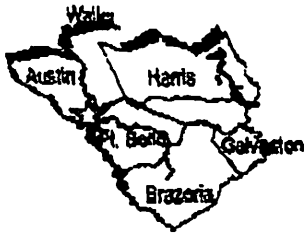
DATE: 2/19/99 TIME: \_\_\_\_\_ AM/PM

COMMENTS: RESPONSES FROM THE FOUR  
MORE CITIES

CHARLES SETTLE, ASSISTANT DIRECTOR (713) 837-0452  
FAX # (713) 837-0464  
MARIA ESPINOZA, ADMINISTRATIVE ASST (713) 837-0436

CITY OF HOUSTON  
PUBLIC WORKS & ENGINEERING  
611 WALKER  
HOUSTON, TEXAS 77002

CITY OF HOUSTON  
PLANNING & OPERATIONS SUPPORT  
P.O. BOX 1562  
HOUSTON, TEXAS 77251-1562



# Lower Brazos River Water Alliance

## ☆ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

- Brazos River Authority
- Gulf Coast Water Authority
- City of Houston
- City of Missouri City
- City of Richmond
- City of Rosenberg
- City of Safford
- City of Sugar Land
- WCID #2

TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS

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Agree with the request

Disagree with the request

Comments for inclusion in final request: ADD "GULF COAST WATER AUTHORITY", PLACE "WCID#2" + "GCWA" IN A SEPARATE CATEGORY FROM CITIES

Signature: Thomas L. Wendt, P.E.  
 Representing CITY OF MISSOURI CITY



# Lower Brazos River Water Alliance

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*Gulf Coast Water Authority*

*City of Houston*

*City of Missouri City*

*City of Richmond*

*City of Rosenberg*

*City of Stafford*

*City of Sugar Land*

WCTD #3

TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS

FROM: LEGISLATIVE SUB-COMMITTEE

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Agree with the request

Disagree with the request

Comments for inclusion in final request: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: R. Gilmore  
Representing City of Richmond



# Lower Brazos River Water Alliance

## ★ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

Brazos River Authority

Gulf Coast Water Authority

City of Houston

City of Missouri City

City of Richmond

City of Rosenberg

City of Stafford

City of Sugar Land

WCID 43

TO: LOWER BRAZOS RIVER WATER ALLIANCE MEMBERS  
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SUBJECT: ALLEN'S CREEK RESERVOIR

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Agree with the request

Disagree with the request

Comments for inclusion in final request: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: Jeff Rosenberg  
Representing City of Rosenberg



# Lower Brazos River Water Alliance

## ★ PROPOSED ALLEN'S CREEK RESERVOIR

### MEMBERS

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- Gulf Coast Water Authority*
- City of Houston*
- City of Missouri City*
- City of Richmond*
- City of Rosenberg*
- City of Stafford*
- City of Sugar Land*
- WCID #2

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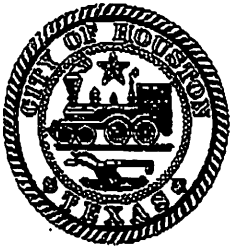
Comments for inclusion in final request: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature: Owen Matherne

Representing: Ft. Bend County W.C. & I.D. #2



# CITY OF HOUSTON

Public Works and Engineering Department  
Post Office Box 1562 • Houston, Texas 77251-1562

Lee P. Brown, Mayor

CITY COUNCIL MEMBERS: Bruce Tatro Michael J. Yarbrough Martha J. Wong Jew Don Boney, Jr. Rob Todd Ray F. Driscoll Jean Kelley Felix Frago  
John E. Castillo Annise D. Parker Joe Roach Orlando Sanchez Chris Bell Carroll G. Robinson CITY CONTROLLER: Sylvia R. Garcia

February 22, 1999

Ms. Carol McGarah  
Senate Committee on Natural Resources  
P.O. Box 12068  
Austin, Texas 78711-2068

Reference: Allens Creek Reservoir

Dear Ms. McGarah:

The City of Houston has been asked by the members of the Lower Brazos River Water Alliance (Alliance) to take the lead in our joint effort to preserve the Allens Creek Reservoir site and in the ultimate development of the reservoir's water supply in the time frame determined by Region H Regional Water Plan. The immediate action necessary will be the development of participation agreements among those Alliance members that are able to participate financially in the acquisition of the Allens Creek site whether that is an option with the current owner or actual site purchase. It is our understanding that the members of the Alliance believe it is in their best interest for those members that are able to participate financially to apply for and hold the water right and construction permit for the reservoir. We are therefore proceeding on that basis.

We agree fully with the legislative request that was developed by the Alliances' Legislative Subcommittee. It is very important to Houston that any legislation adopted specifically for the Allens Creek Reservoir authorize the Texas Water Development Board to issue up to \$20 million in bonds for possible use in site acquisition. In addition it would be extremely beneficial to the Alliance to establish a water right priority date not later than September 1, 1999 and a minimum dependable yield of 70,000 acre feet per annum with appropriate storage volume and diversion rate. We understand that the water right permit would be obtained under the rules in effect at the time of application.

We hope that this information is useful to you in developing any legislation on this project. You may reach me at (713) 837-0448 with any questions.

Frederick A. Perrenot, P.E.  
General Manager  
Public Utilities Group  
Department of Public Works and Engineering

FAP:CFS:lac

# TEXAS SENATE NATURAL RESOURCES COMMITTEE

SENATOR J.E. "BUSTER" BROWN  
Chairman  
SENATOR KEN ARMBRISTER  
Vice Chairman

SENATOR GONZALO BARRIENTOS  
SENATOR TEEL BIVINS  
SENATOR TOM HAYWOOD  
SENATOR EDDIE LUCIO  
SENATOR BILL RATLIFF



TO: ~~CHUCK SETTLE~~ 713/837-0464

ROGER NEVOCA 499-0575

GABRIELA POSTER 713/247-1195

FACSIMILE TRANSMISSION

FROM: Clay Pope  
TO: \_\_\_\_\_  
WITH: \_\_\_\_\_  
FAX #: 480-8051  
FROM: Carol McGarrah

COMMENTS: I faxed to the following:  
Herb Appel, Alan Bogart, Tom Ray,  
Fred Perrenot, Jerry King, Al Haines,  
Mayor Lee Brown. Please send to  
anyone else who should be included.  
Thanks —

SENATE NATURAL RESOURCES COMMITTEE  
(512) 463-0390  
(512) 463-6769 (FAX)

# of pages including cover: 4





**CHAIRMAN:**  
SENATE REPUBLICAN CAUCUS  
SUNSET ADVISORY COMMISSION

**MEMBER:**  
ENERGY COUNCIL  
SOUTHERN STATES ENERGY BOARD  
INTERSTATE OIL & GAS COMMISSION  
WESTERN STATES WATER COUNCIL  
GULF STATES MARINE FISHERIES COMMISSION

**J.E. "BUSTER" BROWN**  
STATE SENATOR

SENATE COMMITTEES

**CHAIRMAN:**  
NATURAL RESOURCES

**VICE CHAIRMAN:**  
SUBCOMMITTEE ON INFRASTRUCTURE

**MEMBER:**  
JURISPRUDENCE  
NOMINATIONS  
STATE AFFAIRS

## MEMORANDUM

**TO: ALLEN'S CREEK RESERVOIR INTERESTED PARTIES**  
**FROM: SENATOR J.E. "BUSTER" BROWN**  
**RE: PROPOSALS FOR DEVELOPMENT OF THE RESERVOIR**  
**DATE: FEBRUARY 19, 1999**

Per my request, proposals for the site acquisition and development of the Allen's Creek Reservoir have been provided by the Brazos River Authority, the Lower Brazos River Water Alliance, and proponents of the proposed Lower Brazos Valley Water Supply Corporation.

Attached please find a document which outlines different options as provided by said entities. I recognize there are some proposals that will conflict and need to be worked out; this is an effort to identify and narrow the issues.

**In order to get necessary legislation drafted to meet the March 12th filing deadline, I will need your comments on these proposed options faxed to Carol McGarah in my committee office (512-463-6769) by Monday, February 22nd.**

After reviewing each of your comments, I will be in touch to schedule a meeting with all parties involved to try to reach agreement on any undecided issues.

Thank you for your participation. I look forward to working with each of you to ensure that the Allen's Creek Reservoir is developed in a timely and efficient manner.





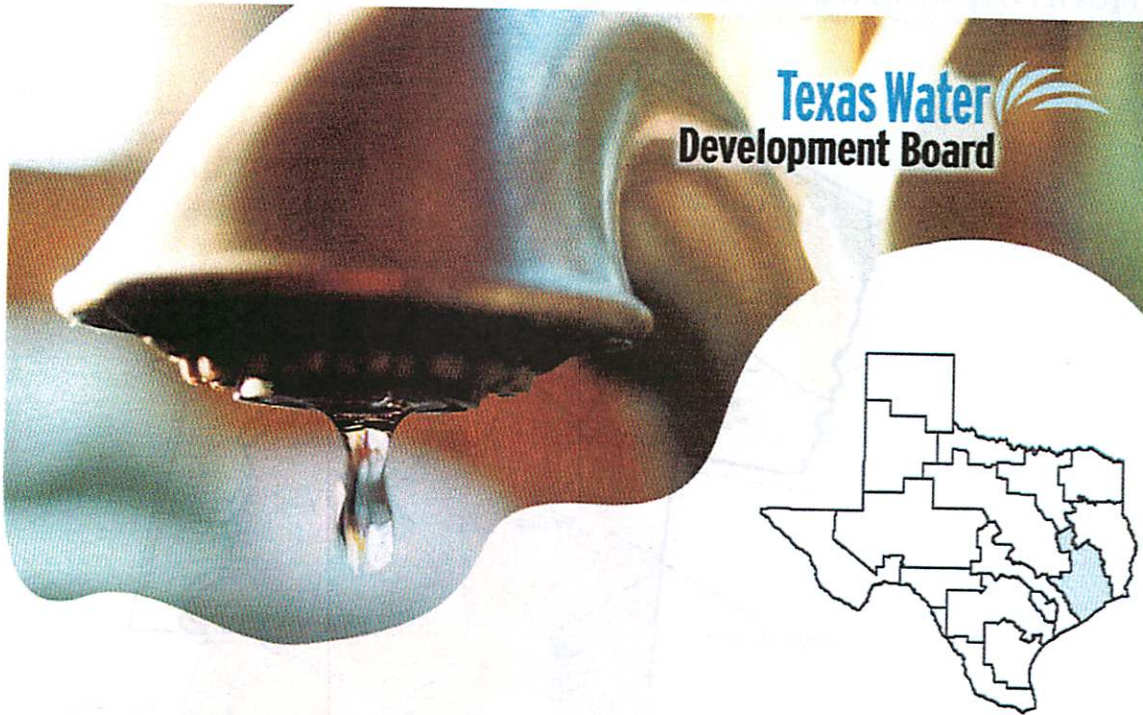
## **ALLEN'S CREEK RESERVOIR OPTIONS**

- Create the Lower Brazos Valley Supply Corporation ("Corporation") as a non-profit water supply corporation under the provisions of Chapter 67 Texas Water Code. The Corporation will act on behalf of the Lower Brazos Valley Alliance ("Alliance") and coordinate the development of the Allen's Creek Reservoir ("Reservoir") as a water supply for the members of the Alliance.
- Some of the current members of the Alliance, and possibly additional members, would enter into participation agreements with the BRA to acquire the Reservoir site to maintain the property under one ownership. Future agreements among the Alliance members would develop the Reservoir when the need is projected by the Region H Regional Water Plan.
- While recognizing that the Alliance is not a legal entity, some members of the Alliance would enter into financial participation agreements to acquire the Reservoir site in the very near future for the ultimate benefit of all Alliance members.
- The BRA would own and operate the reservoir on behalf of the Corporation or District. Therefore, the BRA should be named as an original member of any entity created under the legislation.
- Note that the creation of a typical water supply corporation would not allow for the issuance of tax exempt bonds.
- The Reservoir would be operated by the BRA in order to coordinate the operation of the Reservoir with the other reservoirs owned or operated by the BRA.
- The Board of Directors of the Corporation will consist of five (5) persons appointed by the Mayor of the City of Houston. Three (3) board members would be appointed to represent the City of Houston, one (1) would be a representative of the BRA, and one (1) would be a representative of other members of the Alliance. Senator Brown would serve as an advisory director.
- The Corporation would secure an option to acquire the Allen's Creek site from Reliant Industries or would acquire the existing option now held by the BRA.
- The Corporation would proceed with the permitting of the Reservoir.
- The Authority would like to recoup the more than \$1.8 million dollars it has expended to date in preserving the site for the State.
- The Authority would like to have the absolute right to acquire a percentage of the project's water rights for the use of its existing and future customers.

- During the legislative process, the various parties to the Alliance would formalize the interlocal agreements setting forth each party's rights in the Reservoir and their share of the cost.
- The Reservoir would be constructed when needed by members of the Alliance.
- Establish a minimum dependable yield of not less than 70,000 ac. ft. per annum with 168,000 ac. ft. per year from the Brazos River reserved for storage in the Reservoir at a diversion rate not to exceed 1,800 cubic feet per second.

#### LEGISLATIVE NEEDS:

- Priority date of September 1, 1999, for the water rights associated with this project.
- Denote the site as a unique reservoir site pursuant to SB 1 and direct the TNRCC to give a priority to granting the permit for the Reservoir.
- Authorize the appropriate water rights, impoundment and diversion amounts, and diversion rate.
- Provide state participation in the initial permitting of the Reservoir. The legislation would propose that a portion of the construction costs of the Reservoir be paid with state participation funds.
- The TWDB's restriction to 50% of the total project cost refers to the entire \$170,000,000 project and not to 50% of the \$20,000,000 site acquisition.
- The TWDB should be authorized to issue bonds to finance State participation in the project for site acquisition in an amount up to \$20,000,000.
- The repayment of these bonds should be triggered by actual utilization of the project rather than after the ten-year grace period currently provided under the State Participation Fund.



## Summary of the 2016 Region H Regional Water Plan<sup>1</sup>

### Texas' regional water plans

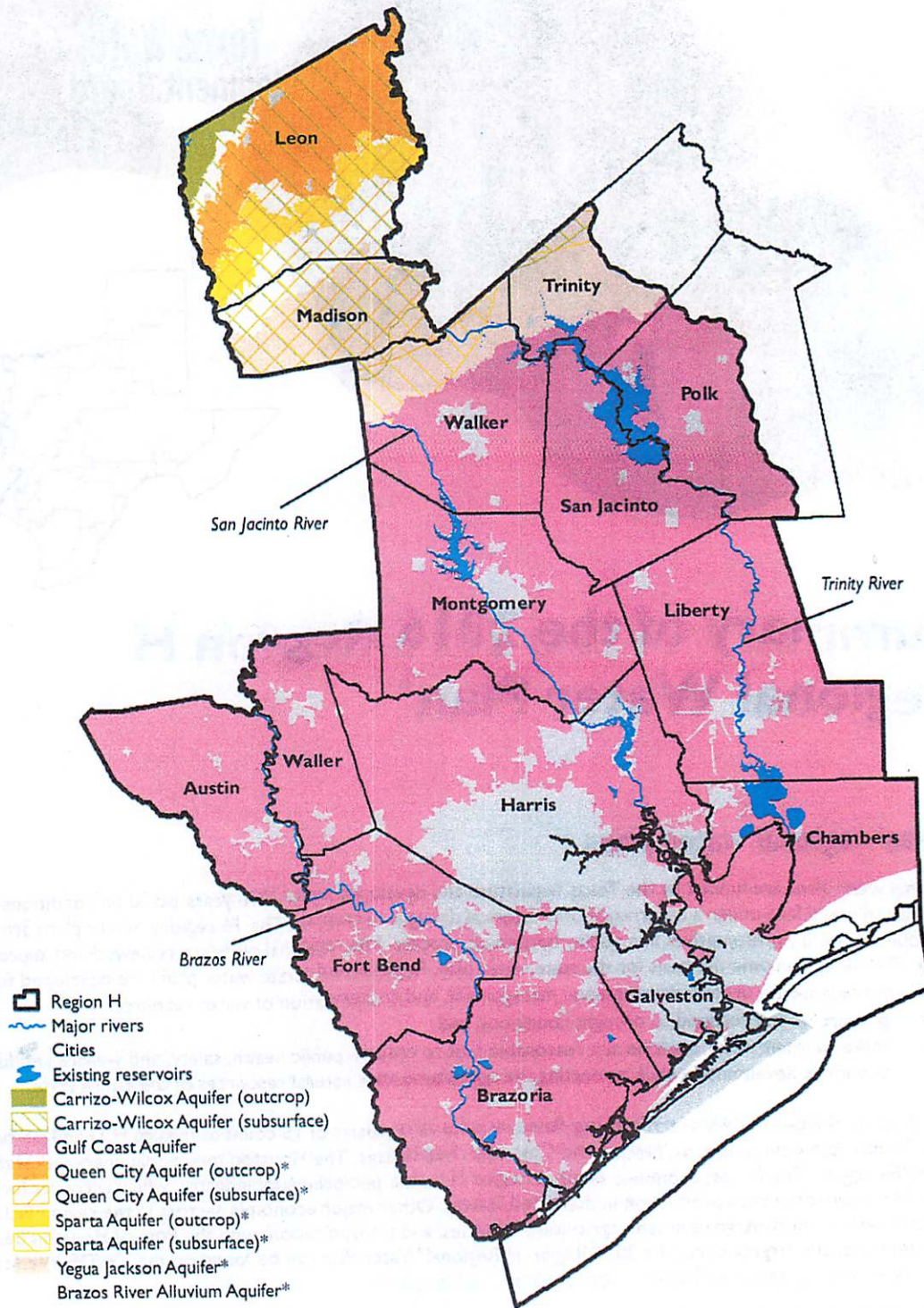
Regional water plans are funded by the Texas Legislature and developed every five years based on conditions that each region would face under a recurrence of a historical drought of record. The 16 regional water plans are developed by local representatives in a public, bottom-up process. The regional plans are reviewed and approved by the TWDB and become the basis for the state water plan. Regional and state water plans are developed to

- provide for the orderly development, management, and conservation of water resources,
- prepare for and respond to drought conditions, and
- make sufficient water available at a reasonable cost to ensure public health, safety, and welfare and further economic development while protecting the agricultural and natural resources of the entire state.

**The Region H Regional Water Planning Area** includes all or parts of 15 counties (Figure H.1) and portions of the Trinity, San Jacinto, Brazos, Neches, and Colorado river basins. The Houston metropolitan area is located within this region. The largest economic sector in Region H is the petrochemical industry, which accounts for two-thirds of the petrochemical production in the United States. Other major economic sectors in the region include medical services, tourism, government, agriculture, fisheries, and transportation, with the Port of Houston being the nation's second largest port. The 2016 Region H Regional Water Plan can be found on the TWDB Web site at <http://www.twdb.texas.gov/waterplanning/rwp/plans/2016/#region-h>

<sup>1</sup> Planning numbers presented throughout this document and as compared to the 2017 Interactive State Water Plan may vary due to rounding.

Figure H.1 - Region H regional water planning area



\* Minor aquifer (only shown where there is no major aquifer).

## Plan highlights

- Additional supply needed in 2070—1,162,000 acre-feet per year
- Recommended water management strategy volume in 2070—1,791,000 acre-feet per year
- 717 recommended water management strategy projects with a total capital cost of \$10.9 billion
- Conservation accounts for 17 percent of 2070 strategy volumes
- Reuse accounts for 25 percent of 2070 strategy volumes
- Two new major reservoirs recommended (Allens Creek and DOW Off-Channel Reservoir)

## Population and water demands

Approximately 25 percent of the state's 2020 population will reside in Region H. Between 2020 and 2070, the region's population is projected to increase 60 percent (Table H.4, Figure H.2). By 2070, the total water demands for the region are projected to increase 37 percent (Table H.4).

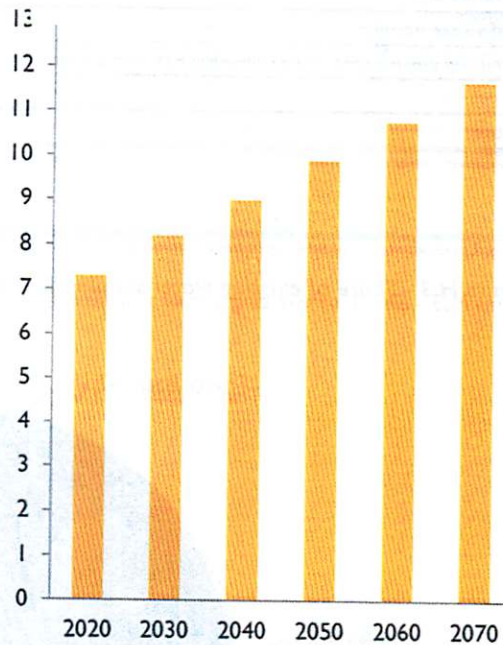
## Existing water supplies

More than three-quarters of the existing water supply in Region H is associated with surface water (Table H.1, Figure H.3). By 2070 the total water supply is projected to decline 1 percent primarily as a result of regulatory limits aimed at reducing groundwater pumping from the Gulf Coast Aquifer to limit land surface subsidence (Table H.4).

## Needs

Although on a region-wide basis it might appear that the Region H Region has enough water supplies to meet demands through 2020, with deficits from 2030 and 2070, the total water supply volume is not accessible to all water users throughout the region (Table H.4). In the event of drought, Region H is projected to have a total water supply need of 347,000 acre-feet in 2020 (Table H.4). A relatively small percentage of municipal needs remain unmet in the region, however an unmet need does not prevent an associated entity from pursuing development of additional water supply.

Figure H.2 - Projected population for 2020–2070 (in millions)



## Recommended water management strategies and cost

The Region H Planning Group recommended a variety of water management strategies and projects that would overall provide more water than is required to meet future needs (Figures H.4 and H.5, Tables H.2 and H.3). In all, the 621 strategies and 717 projects would provide 1,791,000 acre-feet of additional water supply by the year 2070 at a total capital cost of \$10.9 billion.

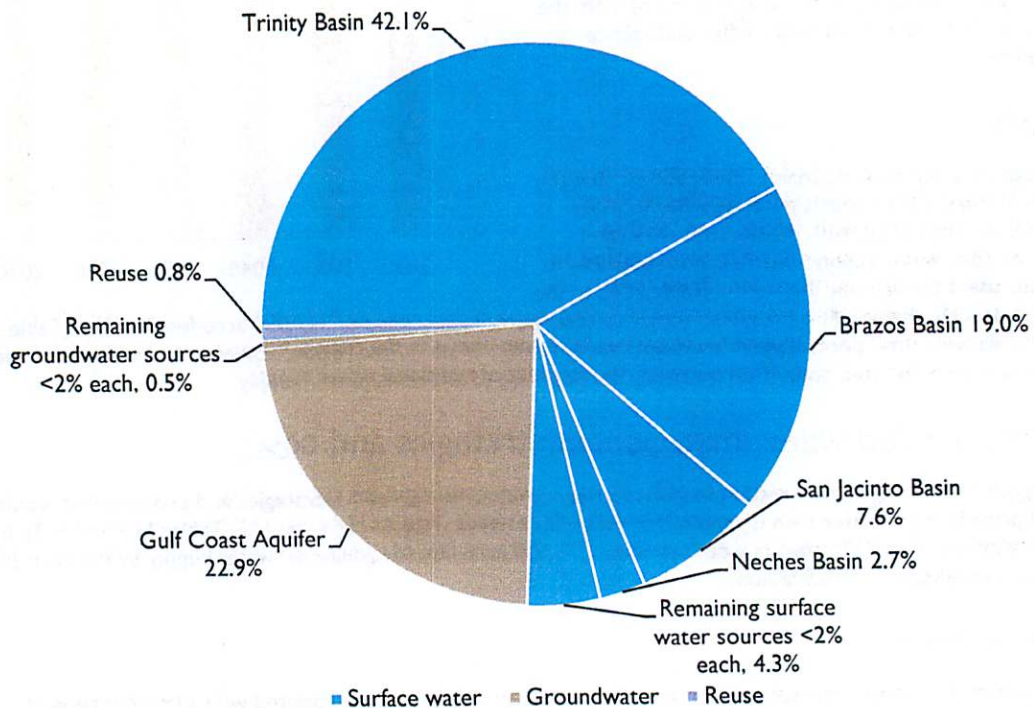
## Conservation

Conservation strategies represent 17 percent of the total volume of water associated with all recommended strategies in 2070. Water conservation was recommended for every municipal water user group, regardless of whether they had a need.

**Table H.1 - Existing water supplies for 2020 and 2070 (acre-feet per year)**

Water supply source	2020	2070
<b>Surface water</b>		
Livingston-Wallisville Lake/Reservoir System	919,000	926,000
Brazos Run-Of-River	335,000	350,000
Houston Lake/Reservoir	141,000	140,000
Brazos River Authority Main Stem Lake/Reservoir System	140,000	140,000
Trinity Run-Of-River	136,000	136,000
Sam Rayburn-Steinhagen Lake/Reservoir System	68,000	71,000
Remaining surface water sources providing less than 2% each	158,000	158,000
<b>Surface water subtotal:</b>	<b>1,897,000</b>	<b>1,921,000</b>
<b>Groundwater</b>		
Gulf Coast Aquifer	575,000	527,000
Remaining groundwater sources providing less than 2% each	14,000	13,000
<b>Groundwater subtotal:</b>	<b>589,000</b>	<b>540,000</b>
<b>Reuse</b>		
	21,000	21,000
<b>Region total</b>	<b>2,507,000</b>	<b>2,482,000</b>

**Figure H.3 - Share of existing water supplies by water source in 2020**



**Table H.2 - Ten recommended water management strategy projects with largest capital cost**

Recommended water management strategy project	Online decade	Sponsor(s)	Associated capital cost
COH Northeast Water Purification Plant Expansion	2030	Central Harris County Regional Water Authority	\$18,716,000
COH Northeast Water Purification Plant Expansion	2030	Houston	\$192,838,000
COH Northeast Water Purification Plant Expansion	2030	North Fort Bend Water Authority	\$266,358,000
COH Northeast Water Purification Plant Expansion	2030	North Harris County Regional Water Authority	\$462,851,000
COH Northeast Water Purification Plant Expansion	2030	West Harris County Regional Water Authority	\$322,850,000
Water Loss Reduction, Houston	2020	Houston	\$701,969,000
WHCRWA/NFBRWA Transmission Line	2030	North Fort Bend Water Authority	\$292,026,000
WHCRWA/NFBRWA Transmission Line	2030	West Harris County Regional Water Authority	\$350,960,000
NHCRWA Distribution Expansion - 2025 Phase	2030	North Harris County Regional Water Authority	\$537,692,000
WUG Infrastructure Expansion - County-Other, Montgomery County - Phase 2	2050	County-Other, Montgomery	\$390,978,000
East Texas Transfer	2040	Houston	\$388,064,000
East Texas Transfer	2040	Lower Neches Valley Authority	na
East Texas Transfer	2040	Sabine River Authority	na
NHCRWA Distribution Expansion - 2035 Phase	2040	North Harris County Regional Water Authority	\$373,353,000
Luco Bayou Transfer	2020	Houston	\$360,005,000
Allens Creek Reservoir	2030	Brazos River Authority	\$94,868,000
Allens Creek Reservoir	2030	Houston	\$221,359,000
SJRA Groundwater Reduction Plan - 2035 Phase	2040	San Jacinto River Authority	\$291,558,000
Other recommended projects	various	707 various	\$5,612,257,000
<b>Total capital cost</b>			<b>\$10,878,702,000</b>

**Table H.3 - Ten recommended water management strategies with largest supply volume**

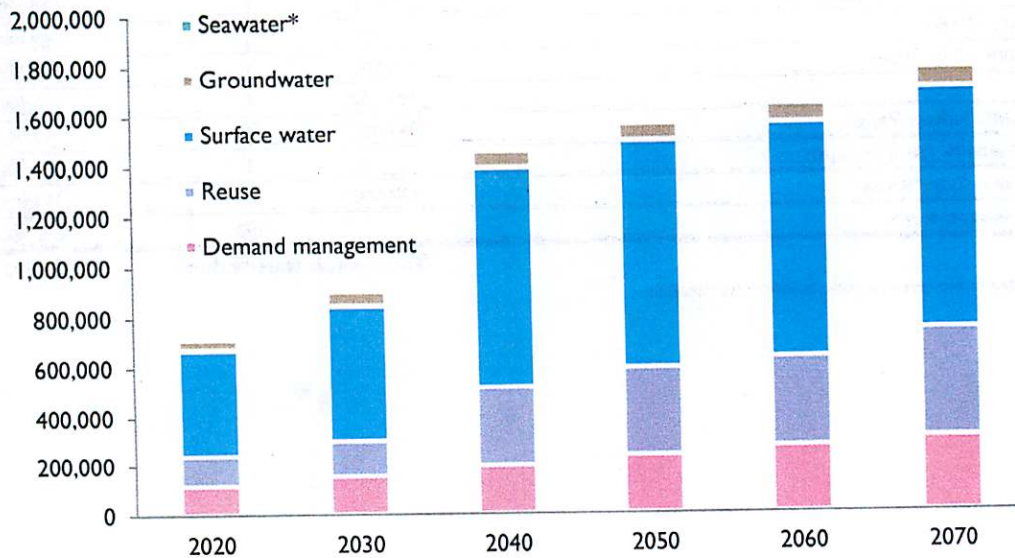
Recommended water management strategy name	Population served by strategy*	Number of water user groups served	Supply in acre-feet per year in 2070
East Texas Transfer	2,851,000	1	250,000
City of Houston GRP	2,851,000	1	98,000
New/Expanded Contract with BRA	116,000	6	82,000
Dow Reservoir And Pump Station Expansion	274,000	9	80,000
Brazos Saltwater Barrier	na	1	69,000
NHCRWA GRP - COH Reuse	914,000	1	68,000
COH Reuse	2,851,000	1	67,000
NHCRWA GRP - Surface Water	952,000	3	57,000
Transfer To Region H (Sam Rayburn)	na	2	55,000
WHCRWA GRP - COH Reuse	690,000	1	51,000
Other recommended strategies		600	895,000
<b>Total annual water volume</b>			<b>1,772,000</b>

\* Multiple strategies may serve portions of the same population

**Table H.4 - Population, existing water supplies, demands, needs, and strategies 2020–2070 (acre-feet per year)**

Decade	2020	2030	2040	2050	2060	2070	change
<b>Population</b>	<b>7,325,000</b>	<b>8,208,000</b>	<b>9,025,000</b>	<b>9,868,000</b>	<b>10,766,000</b>	<b>11,743,000</b>	<b>60%</b>
<b>Existing supplies</b>							
Surface water	1,897,000	1,903,000	1,909,000	1,913,000	1,917,000	1,921,000	1%
Groundwater	588,000	524,000	529,000	534,000	537,000	540,000	-8%
Reuse	21,000	21,000	21,000	21,000	21,000	21,000	0%
<b>Total water supplies</b>	<b>2,506,000</b>	<b>2,448,000</b>	<b>2,459,000</b>	<b>2,467,000</b>	<b>2,475,000</b>	<b>2,482,000</b>	<b>-1%</b>
<b>Demands</b>							
Municipal	1,121,000	1,209,000	1,292,000	1,374,000	1,456,000	1,537,000	37%
County-other	136,000	169,000	199,000	239,000	292,000	356,000	162%
Manufacturing	753,000	800,000	844,000	883,000	896,000	910,000	21%
Mining	15,000	16,000	15,000	15,000	14,000	14,000	-7%
Irrigation	346,000	346,000	346,000	346,000	346,000	346,000	0%
Steam-electric	104,000	121,000	143,000	169,000	200,000	239,000	130%
Livestock	13,000	13,000	13,000	13,000	13,000	13,000	0%
<b>Total water demand</b>	<b>2,489,000</b>	<b>2,675,000</b>	<b>2,853,000</b>	<b>3,039,000</b>	<b>3,218,000</b>	<b>3,415,000</b>	<b>37%</b>
<b>Needs</b>							
Municipal	113,000	256,000	340,000	408,000	474,000	542,000	380%
County-other	29,000	55,000	81,000	116,000	162,000	219,000	655%
Manufacturing	88,000	123,000	151,000	187,000	200,000	213,000	142%
Mining	5,000	6,000	5,000	5,000	5,000	6,000	20%
Irrigation	108,000	108,000	111,000	113,000	115,000	117,000	8%
Steam-electric	2,000	5,000	9,000	15,000	24,000	61,000	2950%
Livestock	2,000	3,000	3,000	3,000	3,000	3,000	50%
<b>Total water needs</b>	<b>347,000</b>	<b>555,000</b>	<b>699,000</b>	<b>846,000</b>	<b>984,000</b>	<b>1,162,000</b>	<b>235%</b>
<b>Strategy supplies</b>							
Municipal	324,000	472,000	922,000	970,000	998,000	1,057,000	226%
County-other	53,000	71,000	97,000	128,000	163,000	206,000	289%
Manufacturing	232,000	249,000	277,000	296,000	303,000	310,000	34%
Mining	5,000	6,000	6,000	7,000	7,000	7,000	40%
Irrigation	97,000	97,000	152,000	152,000	152,000	152,000	57%
Steam-electric	5,000	8,000	13,000	18,000	25,000	59,000	1080%
Livestock	1,000	1,000	1,000	1,000	1,000	1,000	0%
<b>Total strategy supplies</b>	<b>716,000</b>	<b>904,000</b>	<b>1,468,000</b>	<b>1,572,000</b>	<b>1,648,000</b>	<b>1,791,000</b>	<b>150%</b>

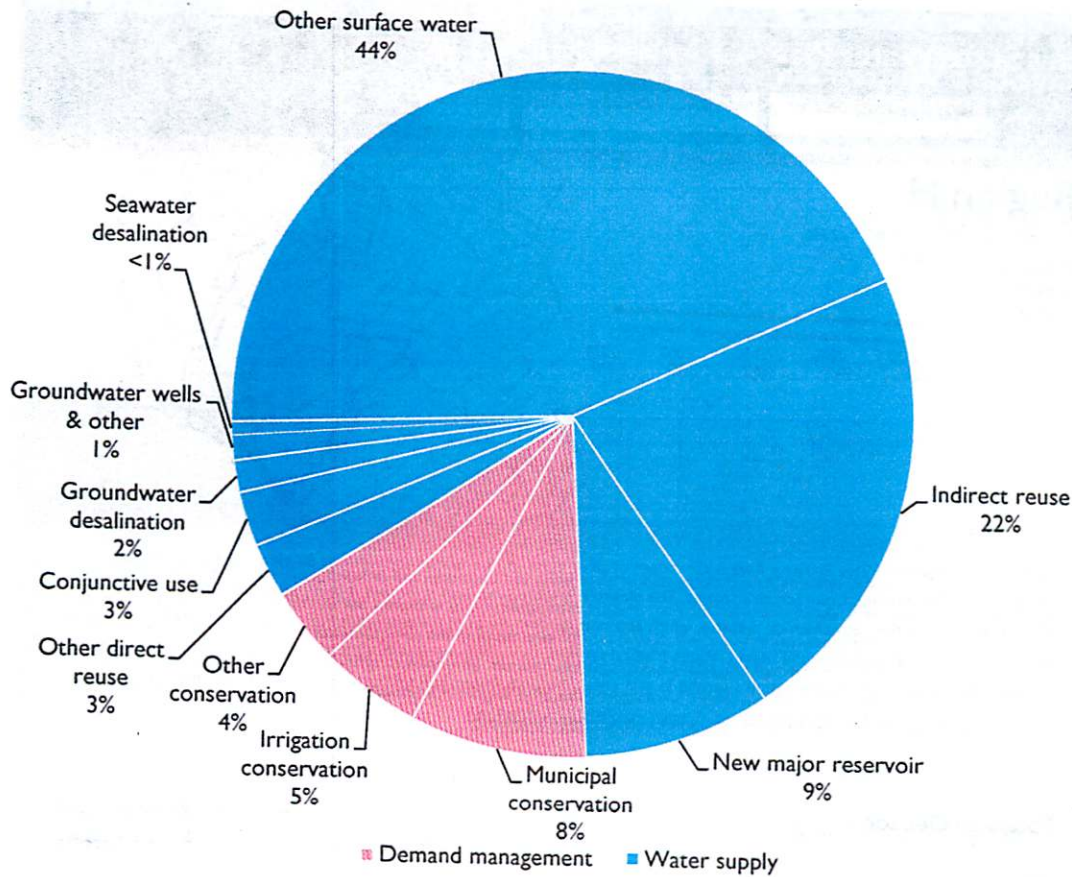
**Figure H.4 - Volume of recommended water management strategies by water resource (thousands of acre-feet per year)**



\* Strategy volume at a scale not represented in the figure



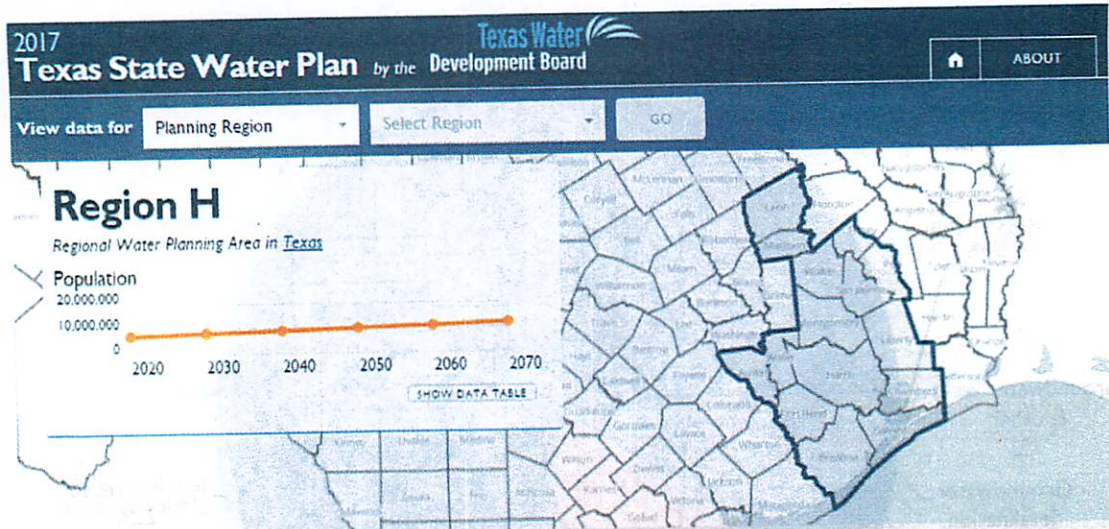
Figure H.5 - Share of recommended water management strategies by strategy type in 2070



### Region H voting planning group members (2012 – 2016)

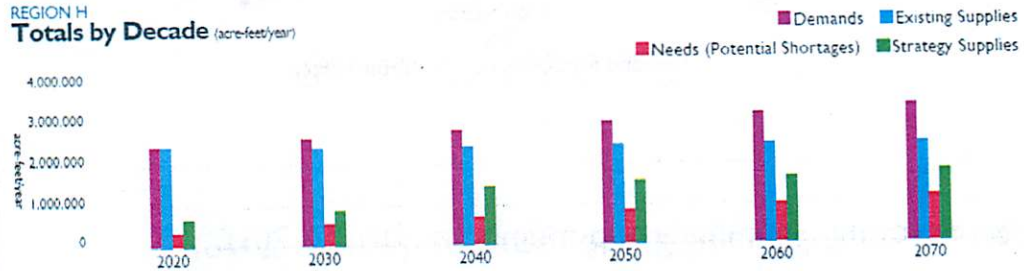
Mark Evans, counties (Chair); David Bailey, groundwater management areas; John R. Bartos, environment; John Blount, counties; Robert Bruner, agriculture; Jun Chang, municipalities; David Collinsworth, river authorities; James Comin, industry; Reed Eichelberger, river authorities; Gene Fisseler, electric generating utilities; Robert Hebert, small business; Art Henson, counties; John Hofmann, river authorities; Jace Houston, river authorities; John Howard, small business; Robert Istre, municipalities; Kathy Turner Jones, groundwater management areas; Gená Leathers, industry; Glynn Leiper, industry; Ted Long, electric-generating utilities; Glenn Lord, industry; Marvin Marcell, water districts; Carl Masterson, public; James Morrison, water utilities; Ron J. Neighbors, water districts; Jimmie Schindewolf, water districts; William Teer, water utilities; Steve Tyler, small business; Danny Vance, river authorities; Harold C. Wallace, water utilities; Kevin Ward, river authorities; George "Pudge" Willcox, agriculture

For more information on Texas or specific regions, counties, or cities, please visit the 2017 Interactive State Water Plan website: [texasstatewaterplan.org](http://texasstatewaterplan.org)



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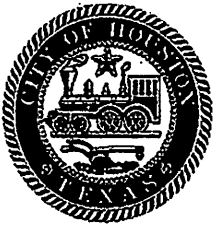
**REGION H Totals by Decade (acre-feet/year)**



	2020	2030	2040	2050	2060	2070
<b>Demands</b>	2,488,883	2,674,720	2,853,311	3,038,675	3,217,833	3,415,333
<b>Existing Supplies</b>	2,505,969	2,447,689	2,458,865	2,467,294	2,475,087	2,482,310
<b>Needs (Potential Shortages)</b>	347,034	554,592	699,392	846,420	983,955	1,161,764
<b>Strategy Supplies</b>	715,982	903,595	1,467,735	1,572,102	1,648,100	1,790,943

**Texas Water Development Board**

Texas Water Development Board  
 1700 North Congress Avenue,  
 Austin, Texas 78701  
 512-463-7847  
[www.twdb.texas.gov](http://www.twdb.texas.gov)



# CITY OF HOUSTON

**Sylvester Turner**

Mayor

P.O. Box 1562  
Houston, Texas 77251-1562

Telephone – Dial 311  
[www.houstontx.gov](http://www.houstontx.gov)

March 12, 2019

David Collinsworth, General Manager/CEO  
Brazos River Authority  
P. O. Box 7555  
Waco, Texas 76714-7555

*Via electronic and First-Class Mail*

**Re: Allens Creek Reservoir**

Dear Mr. Collinsworth:

In response to your February 27, 2019 letter, I do not know the sources of your information regarding the City of Houston's position on Allens Creek Reservoir. Let me assure you that no one who spoke to me could have concluded, as you did, that "the City no longer desires to negotiate any such agreement, or to move the project forward at all." My purpose in writing you today is to suggest that, in the future, we avoid reliance on messengers and intermediaries, and instead let the principals and their agents bring the Allens Creek Reservoir project forward to completion. I also add, respectfully, that, contrary to anything you may have heard or thought, Houston is ready to make such other and further agreements as needed to produce the water supply that Allens Creek Reservoir can bring to Southeast Texas; Houston has no desire to abandon its significant financial commitment to Allens Creek and thereby forego an important future municipal water supply. I have been advised of no draft agreements, no planning meetings, and no further discussions of how to move forward on the design and permitting of Allens Creek Reservoir, and I understand that Water Use Permit No. 5851 was not final until late last year.

Recognizing Houston's continuing commitment to Allens Creek Reservoir, I recommend that we take the following steps to move the project forward:

1. Provide banking information for BRA so that Houston can pay the last \$500,000 due under the 2014 Water Rights Protest Settlement Agreement. Houston has appropriated those funds already and can reimburse BRA promptly once we have the correct information.
2. Schedule a series of conferences among those with decision-making authority to develop such other and further agreements as needed to apportion responsibility for design and permitting costs and implementation. To date, Houston has heard nothing regarding further agreements from BRA.
3. Finally, please keep in mind that Houston would not have made the commitment to Allens Creek Reservoir that it did, upon request, only to abandon that future water supply a few years later. BRA has seen customers who would use the water under Permit 5851 come and

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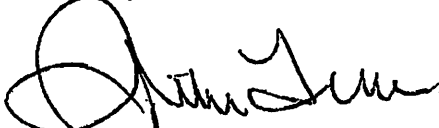
go over time. But, Houston's need for Allens Creek Reservoir water in the future, which is the basis of our commitment, is unchanged.

I welcome the opportunity to work together successfully as we have in the past, to complete what we started. In order to do that, we need to begin immediately to put aside any issues which preclude a successful working relationship on the Allens Creek Reservoir project which will be such an important economic engine for the region, and Texas as a whole.

Thank you for your continued consideration in these matters. I know we can work together again to complete the project as we envisioned it so many years ago. Southeast Texas is counting on us to collaborate effectively to make Allens Creek Reservoir a reality.

I look forward to hearing from you soon.

Sincerely,

A handwritten signature in black ink, appearing to read "Sylvester Turner". The signature is written in a cursive, flowing style with a large initial "S".

Sylvester Turner  
Mayor