NOTICE OF OPEN MEETING OF THE SOUTH CENTRAL TEXAS REGIONAL WATER PLANNING GROUP

TAKE NOTICE that a meeting of the South Central Texas Regional Water Planning Group (SCTRWPG/ Region L) as established by the Texas Water Development Board (TWDB) will be held on Thursday, August 7th, 2014 at **9:30 a.m.** at San Antonio Water System (SAWS), Customer Service Building, Room CR 145, 2800 US Highway 281 North, San Antonio, Bexar County, Texas. The following subjects will be considered for discussion and/or action at said meeting.

1. Public Comment

2. Approval of Minutes

3. Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST)

4. Chair's Report

    a) Status on Submission of Technical Memorandum

5. Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Final Project Prioritization to Texas Water Development Board

6. Texas Water Development Board Communications

    a) Status Update on State Water Implementation Fund for Texas (SWIFT) and the State Water Implementation Revenue Fund for Texas (SWIRFT)

7. Discussion and Appropriate Action Regarding Consultants Work and Schedule

    a) Discussion Regarding the SCTRWPG/ Region L 2015 Schedule

8. Discussion and Appropriate Action Regarding Evaluation of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Submittal to Texas Water Development Board and Inclusion into Planning Contract, Texas Water Development Board Contract No. 1148301323

9. Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Request for Notice-to-Proceed for Evaluation of Water Management Strategies and Authorize Administrator to Execute Contract Amendment with Texas Water Development Board

10. Discussion and Appropriate Action Regarding Identification of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Consideration at the Next South Central Texas Regional Water Planning Group Meeting

11. Discussion and Appropriate Action Regarding Evaluation and Recommendation of Water Management Strategies (Task 4D)

12. Discussion and Appropriate Action Regarding Solicitation of Written Approval of the Guadalupe-Blanco River Authority's (GBRA) Lower Basin Storage Project Proposed Substitution by the Texas Water Development Board Executive Administrator (EA)

13. Discussion and Appropriate Action Regarding Solicitation of the Determination of the GBRA's Integrated Water Power Project Proposed Minor Amendment by the Texas Water Development Board EA

14. Possible Agenda Items for the Next South Central Texas Regional Water Planning Group Meeting

15. Public Comment

AGENDA ITEM 1

Public Comment

AGENDA ITEM 2

Approval of Minutes

Minutes of the
South Central Texas Regional Water Planning Group
May 1, 2014

The meeting was called to order at 9:30 a.m. in the San Antonio Water System's (SAWS) Customer Service Building, Room CR 145, 2800 US Highway 281 North, San Antonio, Bexar County, Texas.

Twenty-seven of the 29 voting members, or their alternates, were present.

Voting Members Present:

Tim Andruss
Donna Balin
Gene Camargo
Rey Chavez
Alan Cockerell
Lon Shell for Will Conley
Don Dietzmann
Art Dohmann
Blair Fitzsimons
Kevin Janak
Genά Leathers
Doug McGooky
Gary Middleton
Con Mims
Robert Puente
Steve Ramsey
Roland Ruiz
Diane Savage
Suzanne Scott
Greg Sengelmann
Rader Gilliliand for Milton Stolte
Thomas Taggart
Dianne Wassenich
Bill West

Voting Members Absent:

Vic Hilderbran
John Kight
Dan Meyer
Iliana Pena
David Roberts

Non-Voting Members Present:

Norman Boyd, Texas Department of Parks and Wildlife
Ronald Fieseler, Region K Liaison
Don McGhee, Region M Liaison
David Meesey, Texas Water Development Board (TWDB)
Charles Wiedenfeld, Region J Liaison
Ken Weidenfeller, Texas Department of Agriculture

AGENDA ITEM NO. 1: Public Comment

Mr. Con Mims asked for any public comment. No comments were made.

AGENDA ITEM NO. 2: Approval of Minutes

Mr. Mims asked if there were any additions or corrections to the February 6, 2014 meeting minutes. There were no corrections or revisions requested. Dianne Wassenich made a motion to approve the minutes as presented. Art Dohmann seconded the motion. The motion carried by consensus.

AGENDA ITEM NO. 3: Discussion and Appropriate Action Regarding Nomination to Fill Vacant Water District Voting Member (term expires 2016)

Mr. Mims began the discussion by informing the voting members that the Executive Committee met on April 23, 2014, and interviewed 4 nominees to fill the voting member vacancy. By consensus the Executive Committee recommended for Russell Labus of the Evergreen Underground Water Conservation District for consideration and approval by the voting members. Mr. Robert Puente moved to approve the Executive Committee's recommendation of Russell Labus. Bill West and Suzanne Scott both seconded Mr. Puente's motion. Mr. Mims asked for any discussion or objections. There was no discussion nor were there objections. The motion carried by consensus. The group welcomed Mr. Labus as the newest South Central Texas Regional Water Planning Group voting member.

AGENDA ITEM NO. 4: Election of Executive Committee At- Large Member for Calendar Year 2014

Mr. Mims began the election by reminding the voting members of the unsuccessful vote at the previous meeting on February 6, 2014, that resulted in deadlock. He confirmed that there was one vacancy, and that the group needed nominations from any of the following stakeholder categories: Public, Counties, Industries, Agricultural, Small Business, Electric Generating Utilities, Water Utilities, or any of the Groundwater Management Areas.

Art Dohmann moved to nominate Kevin Janak. Bill West seconded Mr. Dohmann's nomination of Kevin Janak. Mr. Mims asked for any other nominations. Suzanne Scott moved to nominate Dianne Wassenich. Thomas Taggart seconded the nomination of Mrs. Wassenich. A majority vote could not be reached. Robert Puente asked Mr. Mims if voting could resume in one hour. Mr. Mims agreed to table Agenda Item No. 4 for one hour to allow time for those arriving late to be included in the vote.

After Agenda Item No. 8, Mr. Mims returned to Agenda Item No. 4 to readdress the Election of the Executive Committee At- Large Member for Calendar Year 2014. Mr. Mims reiterated that the Planning Group needed 16 votes to have a majority and achieve an official election. Planning Group members reached a majority of 17-8 in favor of Mr. Kevin Janak.

AGENDA ITEM NO. 5: Status of Edwards Aquifer Habitat Conservation Plan (HCP)

Nathan Pence, Edwards Aquifer Habitat Conservation Plan (EAHCP) Executive Director, provided a brief overview of the progress on the HCP. Mr. Pence informed the group that HCP is already beginning the planning process for the 2015 year, including the activities and the budgets that will take effect in 2015. The HCP Implementing Committee and Science Committee will be

reviewing draft work plans and draft program budgets in order to get ready for 2015 over the next few months.

Mr. Pence noted that, like most other water entities, HCP is having conversations in response to the current drought. The drought has triggered some additional bio-monitoring in the Comal and San Marcos spring systems. The drought has also triggered some additional communication with the United States Fish and Wildlife Service regarding the ongoing HCP activities, and justifying the rational of some of HCP's actions. The Implementing Committee has also created a work group to discuss outreach opportunities in order to inform the general public of the beneficial things HCP is doing right now to help manage resources throughout the drought. The work group is to report back to the Implementing Committee with recommendations in early June 2014. The public will likely be receiving some outreach messaging coming from HCP, which might include some general water conservation information, and information exhibiting the benefits of the HCP.

Mr. Mims asked how the springs are holding up. Mr. Pence's replied, commenting on the declining flows, which HCP anticipated. There is still water flowing to Spring Run One in Comal Springs. The lakes, both Spring Lake and Landa Lake, are still holding water and providing good habitat. However, it is still very early in the year.

AGENDA ITEM NO. 6: Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST) and Nueces River and Corpus Christi and Baffin Bays Stakeholder Committee (BBASC) and Expert Science Team (BBEST)

Suzanne Scott, Chair of the Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC), presented a status report to the Planning Group. Mrs. Scott informed the Planning Group that BBASC is going through the request for qualifications process for submittal of potential studies in the five different study category areas identified by BBASC. The result culminated in the BBASC Status Report, which includes a list of the selected top-ranked proposals for the Guadalupe/ San Antonio BBASC. Five studies were included in the Status Report: Texas Instream Flow Program Studies (Study 1), Lower basin/ Estuarine Inflow Studies (Study 2), *Rangia* Clam Investigations (Study 3), Key Estuarine Faunal Species Studies (Study 4), and Strategy Options for Meeting Attainment Frequencies for the Estuaries (Study 5). Dianne Wassenich led an evaluation group that reviewed all the proposals in each category and brought forward recommendations to the Texas Water Development Board (TWDB). BBASC is currently working with TWDB to finalize the contract negotiations and scopes of work for the recommended studies. BBASC appointed Gregg Eckhardt from San Antonito Water Systems (SAWS) to work with TWDB in finalizing the scopes of work for each of the studies. He is the BBASC liaison to the TWDB. The Stakeholder Committee is hoping to move quickly on this due to the short time frame, particularly on the studies that require field work.

AGENDA ITEM NO. 7: Texas Water Development Board (TWDB) Communications

David Meesey, TWDB representative, touched on a few key deadlines throughout the near future. Mr. Meesey mentioned that the draft prioritization of strategies in the 2011 plan is due June 1, 2014. The final draft is due in September 2014. TWDB will be busy with developing additional guidance and potential additional rules throughout the summer. The Technical Memorandum is due August 1, 2014. The 2016 Prioritization of Strategies is due May 1, 2015, which is the same day as the 2016 Initially Prepared Plan (IPP) is due.

Mr. Meesey continued, stating that SWIFT funds will likely be available during the summer of 2015. SWIFT funds can only be used to fund recommended strategies included in the approved regional and state water plans. If the Planning Group has active projects, it needs to work twice as hard to ensure that those projects needing funding are in the regional and state water plans. TWDB has other financing options currently available. This means projects needing funding immediately, don't have to wait to get money. TWDB has very low rates on money for active projects that need funding now or sooner than when the SWIFT funds become available. TWDB has financing that has reasonably low rates. An example is the drinking water SRF rates, which are always one and a quarter percent below market. The current rate is 1.59% for AA rated applicants. The rate for non-rated smaller systems is 2.74%. These loans are subsidized with federal money. If you start off with one of these types of loans, when it is time for construction, this can be combined with SWIFT funds.

Mr. Meesey reminded the group members that the State is currently working on the 4th regional water plan. The IPP is due May 1, 2015. The TWDB should approve those plans by November 2015, and deliver those plans to the legislature and governor by January 2016. Those plans provide the data that the TWDB uses for the State water plan that comes out in 2017, along with policy and legislative recommendations.

Mr. Meesey stated that the backbone of any planning effort is the Planning Group members themselves, their support staff and the consultant team. That is really what drives this process. The TWDB recognizes the hard work and effort that the Planning Group puts in. It does not go unnoticed.

Mr. Mims asked for any questions for David from the Planning Group. Kevin Janak asked about the interest rates. David reiterated the current Drinking Water SRF loan interest rate for AA rated entities, and for non-rated entities.

AGENDA ITEM NO. 8: Chair's Report

Mr. Mims invited Rick Illgner, Edwards Aquifer Authority, to address funding of Groundwater Management Areas (GMAs).

Mr. Illgner discussed the situation surrounding GMA funding, stating that Senate Bill 1 in 1997 started this process, but also in 1997, the legislature approved a requirement for Groundwater Conservation Districts to provide a water management plan that provides data on available ground water. As planning groups are developing new strategies, except for conservation, there are only two sources or water. There is groundwater and surface water. Initially the groundwater side of that equation was going to be taken care of through these water management plans. However, major legislation in 2005 changed the term desired future condition (DFC) and managed available groundwater, which is now modeled available groundwater (MAG). That is now the input through the regional water planning process. When that process started, the requirement was that the TWDB was going to provided technical assistance to all the groundwater conservation districts that developed DFCs and the MAG. Through some financial hard times and downsizing, that technical expertise is no longer available. Additionally in 2011, there were some very significant requirements added to the development of the reports that lead to these numbers. There are some significant costs that these groundwater conservation districts have to provide to develop these reports. The Edward's Aquifer Authority (EAA) just went up for RFQ. Its gong to costs the EAA $90,000 to develop the report it needs. The Edwards Aquifer is in four GMAs, so the EAA will have to pay more money throughout these processes.

Part of this regional planning process is policy recommendation. We would very much appreciate the group considering as a policy recommendation, that the state provide some form of financial assistance for GMA planning.

Mr. Mims asked if there were any questions regarding Mr. Illgner's comments. There were none.

Mr. Mims began discussion on Chapter Eight of the RWP, which is for policies and recommendations. The Planning Group uses that chapter as guidance going into legislative sessions should the Group have a piece of legislation that they would like to see pushed through the Capitol, such as GMA funding for the technical expertise needed to project DFCs and the MAG for areas around the state. Mr. Mims called upon Sam Vaugh to discuss and explain Chapter 8.

Sam Vaugh, HDR Engineering, explained that Chapter Eight is a section of the plan that is required and is also a privilege. It is the Planning Group's opportunity to provide input to the TWDB as they go into the regional planning policy during the legislative session. Given that the plan is not going to be finalized until the 2017 session, the Planning Group can still get a head start on that. At Staff Workgroup, discussion commenced regarding initiating a process to hammer out the various pieces of this Policies and Recommendations section in the coming months for the 2015 session. The Planning Group does not necessarily have to start this process today, but it is important to recognize that there are a number of things that have changed. Some items have received greater clarity and some have received greater confusion over the past couple of years. Some of the things that have changed have to do with the Edwards HCP, and many things within the groundwater arena. The Carrizo Workgroup would generate some policy recommendations from this region. Also in the environmental flows area, the Group now has the Senate Bill 3 Environmental Flows Process, where standards have been adopted. The Group might have some policy ideas on where to go with that. The Group also has the pending ecologically unique stream segments. This Group's recommendation was in the last plan and the legislature did not decided to carry that forward. Those are just some examples of policies that need to be updated.

Mr. Vaugh suggested that as the Planning has upcoming meetings scheduled in August, November, and February. In February the objective will be to know what the Group wants for policies and recommendations in the plan. The Group should have a good draft by November, heading into the upcoming legislative session. Soon after the August meeting, the group will initiate a process starting with the existing policies and recommendations. HDR Engineering will redline those, mark them up, and share that with the Planning Group at large. From there the Group will see what needs to be added and changed. The Group is not really budgeted for another work group for this process. Everyone needs to be engaged in this process because each of the Planning Group members represents individual particular interests. This will give everyone an opportunity to make recommendations.

Mr. Mims asked for additional questions or comments. Donna Balin asked Rick Illgner if there were alternative sources of funding that could be utilized outside TWDB. Mr. Illgner responded, noting that there were no apparent sources other than TWDB, but that they are open to suggestions.

Mr. Mims moved to readdress Agenda Item No. 4, Election of Executive Committee At- Large member for Calendar Year 2014, which the Group had tabled earlier. (Please see Agenda Item No. 4).

AGENDA ITEM NO. 9: Discussion and Appropriate Action Regarding Adoption of Code of Conduct.

Mr. Mims began by stating that he was very disappointed with the incident that occurred at the last meeting. This unprofessional conduct can get out of hand if left unchecked, and threatens the integrity of the Region L planning process. For purposes of having a touchstone in front of group, Mr. Mims asked the Planning Group members for consideration of the following policy:

"Members of the South Central Texas Regional Water Planning Group embrace and will strive to uphold the principles that, in the course of our work, respect shall be given to every person; abusive behavior will not be tolerated; and, every member and Alternate will conduct his/her self in a manner that reflects favorably on the Planning Group, and that is not injurious to our purpose."

Mr. Rey Chavez motioned to adopt the Code of Conduct. Mrs. Dianne Wassenich seconded the motion. There were no objections. The Planning Group adopted the Code of Conduct by consensus.

AGENDA ITEM 10: Report, Discussion and Appropriate Action Regarding Project Prioritization Work Group Recommendations

Suzanne Scott delivered a summary report on the South Central Texas Regional Water Planning Group's Water Management Strategy Prioritizations Workgroup and its efforts to prioritize the 2011 Regional Water Plan in accordance with House Bill 4 of the 83rd Texas Legislature and upon the request of the Texas Water Development Board. Completing the draft 2011 Regional Water Plan Prioritization for Region L was a good exercise for prioritizing the upcoming 2016 Regional Water Plan projects. Previously the Chairs' Group met to develop recommendations based on the guidance from TWDB. The Planning Group put together the Work Group to spearhead the prioritization process. These are the individuals who participated: Con Mims, Donna Balin, Rey Chavez, Don Dietzmann, Blair Fitzsimmons, Kevin Janak, Gená Leathers, Doug McGooky, Greg Sengelmann, and Thomas Taggart. Mrs. Scott convened over the group. Others involved were from SARA, TWDB, SAWS, GBRA, HCPUA, members of the public, and HDR Engineering served as the technical liaison and support for the process. The group met a couple of times and generated the summary report demonstrating the process they used as a group and the resulting outcome. The report also shows what the Work Group did using the scoring matrix that was provided by the TWDB Stakeholder Committee. All of the projects included in the 2011 Regional Water Plan were ranked based on the scoring matrix accepted as the Final Uniform Standards for Prioritization as adopted by the Stakeholder Committee. The Work Group clarified its interpretation of some of the questions that were asked by the scoring matrix. Included in the report was a summary of the Workgroup's comments and assumptive interpretations of certain criteria used in the matrix. It shows how the group directed HDR to view some of the definitions and how they need to apply them to these projects in our particular region. Mrs. Scott mentioned that the Work Group asked the committee to provide their general observation and comments about the process because the Chairs' Group is continuously looking for feedback on this process. It is important to remember that this is only one factor in the prioritization that will ultimately come from these rankings. There are many other factors that will be part of the prioritization that will ultimately result in the prioritization that the State will use for their funding considerations. Going through this process was a good exercise as it allowed the group to observe and recommend potential tweaks that could be made to the process.

Mr. Mims asked for any questions or comments. Mr. Kevin Janak commented that the Planning Group as a whole is prioritizing the projects because the Texas Legislature demanded it, but that many of the 2011 Regional Water Plan projects are already underway. This exercise was a trial

run for the 2016 Regional Water Plan, where a lot of the projects will not be underway by the time the Planning Group prioritizes the 2016 Regional Water Plan projects. For those reasons, this was a great educational experience for what to expect as the current planning proceeds. Donna Balin concurred and thanked Mrs. Scott for heading the prioritization effort.

A Planning Group member raised a question regarding item number two on the Interpretive Assumptions for Application of Uniform Standards for Prioritization. It indicates that the group used source water availability from the 2011 Regional Water Plan, as opposed to the current Modeled Available Groundwater (MAG) values. Sam Vaugh (HDR Engineering) answered, stating that a requirement for the funding is that the quantity of water values must come from an approved Regional Water Plan. The only approved plan the Planning Group has right now is the 2011 Regional Water Plan. That is what tied the group to the estimates of groundwater availability used for the preparation of the 2011 plan. Had the group used the current MAG values, it would have opened the door to a number of other factors that could really scramble things.

Mr. Mims explained how possible changes to these criteria as it relates to the Uniform Standards of Prioritization could be impacted by the RWPG's comments. The prioritization up for submittal is the draft prioritization of our 2011 projects. The Planning Group will submit the draft prioritization, upon Planning Group approval, to the TWDB. The TWDB and its staff will look at the Planning Group's comments and the entire package the work group prepared, along with the other 15 regional water planning groups' comments and prioritization packages. They will give the Group feedback. When the Planning Group receives their feedback, it might have to re-convene the workgroup to develop the final 2011 Prioritization due September 1, 2014. It is probably safe to assume that most of the regional water planning groups have similar concerns that will carry a lot of weight with the TWDB. David Meesey (TWDB) confirmed, saying that similar comments will carry significant weight with how the TWDB approaches the prioritization process. When it comes to compound strategies, or projects that serve multiple entities with multiple needs, TWDB might run into some problems with the prioritization. That is why the feedback and comments are very important to TWDB. Hopefully we can at least give common guidance to all the regions for their final prioritization due in September. Then TWDB can rewrite some of the uniform standards criteria as necessary.

Donna Balin stated that one issue discussed in the Workgroup meeting was the fact that a lot of these WMSs were evaluated individually, which raised question of whether or not the water was actually available. The issue that does not come up in the process that is really important is what combinations of these projects actually cause an overdraft of the respective MAGs. The Planning Group really needs to look at that issue since it really isn't part of the prioritization process.

Kevin Janak, I think that the chairmen through all the regions need to get together and discuss these issues so that all the planning groups are represented on an even playing field. We don't want to make it more difficult for our projects in Region L than in other planning group regions. Mr. Mims replied, confirming that meetings of the chairs have been part of the process. He added that when it comes down to the TWDB consideration of SWIFT funding projects, House Bill 4 lays out some very specific things that the TWDB needs to consider. There are about 15 items for consideration. Mr. Mims offered his concern about the fact that the prioritization coming out of the regional planning groups is the very last listed item. In fact, House Bill 4 says highest priority will be given to four of those items, which does not include the Planning Group's prioritization of projects. He commented that he was a little concerned that all the work the Planning Group is doing, along with all of the RWPGs might be lost in the noise when all of this is said and done. The TWDB is still in their rule-making process and maybe they will hear us. David Meesey responded that that the TWDB had that discussion internally. The TWDB's working assumption

is that the prioritization will be given great weight when it comes to administering the SWIFT funds. Suzanne Scott asked Mr. Mims if the Stakeholder Committee gets together and looks over the comments from the TWDB, and makes modifications to the matrix, will the Planning Group then go back through and tweak the prioritization list before submitting the final prioritization of the 2011 RWP? Mr. Mims confirmed. Mrs. Scott then asked if that prioritization would then be used for any funding decision that they would be making now in advance of the 2016 plan, because it has been understood that TWDB wants to try to get some of that money out there funding projects before the 2016 plan becomes available for prioritization. Mr. Mims confirmed that there is a narrow window where they would have to rely on 2011 rankings. David Meesey confirmed that the window will be maybe around a year and a half because the projects need to be recommended in both the regional and state water plan.

Thomas Taggart asked Mr. Mims whether the Draft Prioritization for the 2011 plan would include all of the attachments, including the summary report and observations for the TWDB's consideration. Mr. Mims confirmed that it would.

Tyson Broad with the Lone Star Chapter of the Sierra Club, raised some concerns he had regarding the Planning Group's comments on the prioritization process. Under the "Project Feasibility" section on the "Interpretive Assumptions for Application of Uniform Standards for Prioritization," there's the discussion of how to treat overdrafts. Mr. Broad pointed out that there may be some cases with new surface water rights that may be subject to reductions that come out of the adaptive management process as part of Senate Bill 3. Those rights could be reduced by as much as 12.5%.

Mr. Broad also had comments regarding the Summary Report's "Interpretive Assumptions for Application of Uniform Standards for Prioritization" section, item number 4(B)(i) on "Project Sustainability." Under the term "decreases," Drought Management is listed as a factor that results in a decrease to a water supply project. Mr. Broad suggested that in order to avoid confusion, the term that should be used here is "Drought Restrictions". Drought restrictions such as Critical Period Management restrictions on Edwards Aquifer permits do indeed reduce the amount of available supply. Drought Management, on the other hand, is a water management strategy that is used by the planning group to increase or extend the water supply for projects, much like Municipal Conservation. Therefore, Drought Management should be listed under factors that increase supplies, alongside Municipal Conservation.

Mr. Sam Vaugh, HDR Engineering added that the key reason Drought Management was used as a "decrease" in this section was because, in the 2011 RWP, that strategy was identified specifically as a short term WMS only in the first decade. In the subsequent decades, water provider is planning to meet projected needs, rather than planning to not meet them.

Tyson Broad suggested that in terms of how we treat Drought Management for the 2016 planning cycle, the terminology of Drought Management, as opposed to Drought Restrictions, seems contradictory to the potential reader.

Dianne Wassenich inquired about the reasoning the TWDB uses a statewide scoring matrix developed and put together by the chairs' Stakeholder Committee, asking if the reason was that the State wanted the scoring to be comparable across all the regional plans. Ms. Wassenich understood that the rankings with the scores will be compared statewide to each other, and those that are ranked highest will be looked at first for funding. David Meesey, TWDB, could not confirm that understanding. He indicated that only so many projects are ready to go and accept funding at any one time. Hence, if there's enough money for everyone needing it at a given point, TWDB

hopes to fund everyone. The priority ranking might not even be looked at. However, TWDB is still figuring these details out. Brian Perkins, HDR Engineering, added that the rankings will not come into play unless an entity actually comes forward and applies for funding. Bill West noted that TWDB will be under a lot of pressure to allocate funds across the state throughout different regions. Mr. Mims agreed and reminded the group that there are other items that TWDB will have to consider outside the prioritization. This is just one criterion that TWDB can use to consider for funding purposes.

Suzanne Scott announced that Mr. Broad's comments regarding the terminology used in the "Interpretive Assumption for Application of Uniform Standards for Prioritization" section on "Project Feasibility" could be added to the Prioritization Workgroup's Compilation of Observations and Comments that will be submitted, along with the prioritization, to the TWDB. She also mentioned that the TWDB will still accept public comments throughout the process. Mr. Broad said he would prepare the comments for inclusion in the compilation.

Mr. Mims asked for any further comments. There were none.

AGENDA ITEM NO. 11: Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Draft Project Prioritization Report to TWDB

Thomas Taggart made a motion to authorize the San Antonio River Authority, as Administrator to submit the draft Project Prioritization Report to TWDB. Suzanne Scott and Gene Camargo seconded the motion. Mr. Mims asked for any objections. There were none. The motion was approved.

AGENDA ITEM NO. 12: Discussion and Appropriate Action Regarding Submittal of Technical Memorandum to TWDB by August 1, 2014.

Brian Perkins, HDR Engineering, presented the explanation of the Technical Memorandum to the Planning Group members. At the beginning of this process, the TWDB had envisioned a process by which a technical memorandum would be written detailing how the Planning Group went about determining existing supplies, the population water demand projections and how needs were going to be calculated. The technical memorandum is due August 1, 2014. Essentially, it is a report that is run out of the database DB17. That report is not ready at this time. The database is not capable of generating that report at this time because we are still waiting on certain data from the TWDB. Eventually, before August 1, the database will generate the numbers that are the water demand projections. All of the existing supplies we have calculated at this time are in the database. The MAG numbers come from the TWDB. HDR will need to populate the data before running the report. The problem is that the Technical Memorandum is due August 1, 2014, which is before the next regularly scheduled Planning Group meeting. HDR asked that this item be placed on the agenda today so that the Planning Group could give authorization to Chairman Mims to review and submit the Technical Memorandum upon his approval.

Suzanne Scott asked that the Technical Memorandum be sent out to the Planning Group in advance, to allow members the opportunity to comment prior to Mr. Mims submitting the Technical Memorandum. Mr. Perkins said that in theory, allowing the Planning Group to review the Technical Memorandum prior to Mr. Mims submitting it should not be a problem. It will depend on the timing of the TWDB database going online. Mr. Mims confirmed that if timing allows, he will allow the Planning Group to review the Technical Memorandum with the opportunity for comment prior to submitting the Technical Memorandum to TWDB.

Dianne Wassenich made a motion to authorize Chairman Mims to review and submit the Technical Memorandum to TWDB by August 1, 2014, but allow the Planning Group members to review it if possible. Gary Middleton seconded the motion. Mr. Mims asked for any discussion or objection. There were none. The motion was approved.

AGENDA ITEM NO. 13: Discussion and Appropriate Action Regarding Consultants Work and Schedule

Mr. Perkins, HDR Engineering, presented an update on the schedule for work plan development highlighting upcoming Planning Group deadlines. Mr. Perkins also provided an update on the potential issues to the planning process that HDR and the Administrator are tracking.

AGENDA ITEM NO. 14: Discussion and Appropriate Action Regarding Evaluation of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Submittal to TWDB and Inclusion into Planning Contract, TWDB Contract No. 1148301323

Mr. Perkins, HDR Engineering, requested Planning Group authorization to perform technical evaluations for three additional Water Management Strategies (WMSs) and to submit the projects to TWDB for inclusion into the Planning Contract. The projects presented for the Planning Group's consideration were as follows: 1) Vista Ridge Project (SAWS), 2) Storage Above Canyon Reservoir (ASR), 3) Hays/ Caldwell PUA – Texas Water Alliance Joint Project, with the total estimated costs of the authorization being $28,100.00. Mr. Perkins provided a list of WMSs previously approved throughout this planning cycle with current Region L budget figures reflecting the authorization costs of the three projects being considered. He noted that there is about $61,254.00 left for future authorizations to be used throughout the remainder of the 2016 regional planning cycle.

Art Dohmann made the motion to authorize HDR Engineering to perform the technical evaluation for the three additional WMSs; and to submit the three additional WMSs to the TWDB for inclusion in the 2016 Regional Water Plan. Don Dietzmann seconded the motion. Mr. Mims asked for discussion or objections. There were none. The motion carried by consensus.

AGENDA ITEM NO. 15: Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Request for Notice-to-Proceed for Evaluation of Water Management Strategies and Authorize Administrator to Execute Contract Amendment with TWDB

Dianne Wassenich made a motion to authorize the San Antonio River Authority as the Administrator to submit the request for Notice-to-Proceed for the evaluation of the three WMSs (Agenda Item No. 14) and authorizing the administrator to execute the contract amendment with TWDB. Doug McGooky seconded the motion. Mr. Mims asked if there were any objections. There were none. The motion was carried by consensus.

AGENDA ITEM NO. 16: Discussion and Appropriate Action Regarding Identification of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Consideration at the Next South Central Texas Regional Water Planning Group Meeting

Mr. Perkins began by presenting a graphic to address what affects the implementation of the recommendation and policy of Carrizo Workgroup would have on the Planning Group's ability to

meet needs with WMSs. He then proceeded to seek consent from the Planning Group to draft scopes of work and budgets for two potentially feasible water management strategies for consideration at the August 2014 meeting. The two projects included a Seawater Desalination Project sponsored by SAWS, which would be an update to the plan previously approved in the 2011 plan. The other plan proposed for scopes of work and budget was a Steam Electric Project sponsored by GBRA.

Mr. Bill West made a motion to authorize the technical consultant, HDR Engineering, to draft scopes of work and budgets for the projects. Mr. Gary Middleton seconded the motion. Mr. Mims asked if there were any discussion or objections. There were none. The motion carried by consensus.

AGENDA ITEM NO. 17: Discussion and Appropriate Action Regarding Evaluation and Recommendation of Water Management Strategies (WMSs) (Task 4D)

Brian Perkins, HDR Engineering, presented ten technical evaluations to the Planning Group. The first evaluation was on the Facilities Expansion WMS. This evaluation includes a number of small projects that include the expansion of major components of existing infrastructure so Water User Groups (WUGs) can continue to provide a safe and reliable water supply to their customers during the planning period. The WUGs included in this WMS were Atascosa Rural WSC, the City of Helotes, Gonzales County WSC, Springs Hill WSC, Yancey WSC, SAWS, Port O'Connor, and CCMA.

Mr. Perkins presented the evaluation for the Local Groundwater Supplies WMS. This WMS is developed to culminate all of those entities that are a one supply source. WMS is broken down to an aquifer by aquifer basis: Carrizo-Wilcox Aquifer, Gulf Coast Aquifer, Trinity Aquifer, and Leona Gravels Aquifer. Other than specific municipal WUGs, there are also a few County Other entities that have needs throughout the region. Mr. Perkins noted that in projects where the current MAG was already occupied to capacity, the recommended strategies were scaled down to meet MAG limits, while accounting for potential water transfers. However, the initial envisioned WMSs will be included as alternative WMSs, allowing for an expedited amendment to the Regional Water Plan should the MAG change.

Mr. Perkins also presented the technical evaluations for New Braunfels Utilities (NBU) Trinity Wells, Canyon Regional Water Alliance (CRWA) Wells Ranch Phase II, Brackish Wilcox for CRWA, Expanded Local Carrizo for SAWS, Local Brackish Wilcox for SAWS, Expanded Brackish Wilcox for SAWS (Wilson County), Carrizo for Cibolo Valley LGC, and Brackish Wilcox Groundwater for SS WSC.

There was discussion regarding MAG limits as it relates to prioritization. It was clarified that the TWDB will not allow projects that exceed MAG limits in the Regional Water Plan as recommended strategies, but that projects that are envisioned to exceed MAG limits could be included in the Regional Water Plan as alternative strategies. Only recommended strategies are eligible for state funding.

However, the point was reiterated that an alternative strategy could potentially replace the recommended strategy if the MAG limits changed in a way that would allow for the alternative

strategy to operate within the new MAG limits. It was further explained that projects included in the plan as alternative strategies can still be pursued assuming the permits are available for transfer and the groundwater conservations district is willing to issue the permits. It was emphasized that these factors are outside the scope of Region L authority. A regional water planning group cannot issue permits. Because TWDB allows strategies that project a MAG limited zero firm yield, the Planning Group can recommend viable strategies to meet the needs of water users that will not necessarily be pursued with SWIFT funding. However, if the MAG limits change, or the water user acquires permits within the MAG sufficient for the project, the project will already be in the plan and can easily become eligible for funding without having to file a Major Amendment.

AGENDA ITEM NO. 18: Possible Agenda Items for the Next South Central Texas Regional Water Planning Group Meeting

Mr. Mims asked the Planning Group members for any suggested agenda items to be placed on the agenda for the August 2014 meeting. There were none at the time.

Bill West notified the group that GBRA initiated some legal proceedings last week in Travis County. The purpose for the litigation is to protect GBRA's existing water rights at the lower end of the Guadalupe River Basin, and to authorize the bond financing of the Lower Guadalupe Basin Storage Project.

Meeting Adjourned.

Recommended for approval.

_____

GARY MIDDLETON, SECRETARY

Approved by the South Central Texas Regional Water Planning Group at a meeting held on August 7th, 2014.

_____

CON MIMS, CHAIR

AGENDA ITEM 3

Status of Guadalupe, San Antonio, Mission, and Aransas Rivers and Mission, Copano, Aransas, and San Antonio Bays Basin and Bay Stakeholder Committee (BBASC) and Expert Science Team (BBEST)

Basin	Contractor	Title	Amount	TWDB Contract Manager	Contract End Date	Status	Contract Number	TWDB Funding Source	TWDB-CAD Point of Contact	Quarterly Report Due	Description
Guadalupe	SARA	Texas Instream Flow Program Studies	$230,000	Raphelt	8/31/15	In Progress	1400011709	SB3 (GR)	Phyllis Thomas	Monthly	Linkages between biological resources (instream and riparian) and flow at selected sites in the Guadalupe-San Antonio and Mission-Aransas Basins will be developed and tested in this study. Expert panel workshops, field data collection, and data analysis will guide the validation and refinement of established environmental flow standards at the selected sites.
Guadalupe	UT-CRWR	Guadalupe-San Antonio River Delta Measurement and Modeling of Flows	$200,000	McEwen	8/31/15	Routing for Signatures	1400011710	SB3 (GR)	Phyllis Thomas	TBD	This study will develop and validate a 3-D hydrodynamic model to assess water connectivity and flow paths over the landscape and through the bayous of the Upper Guadalupe Delta under a variety of inflow conditions. The study will incorporate LiDAR data and field measurements of bathymetry and water level.
Guadalupe	SARA	*Rangia* Clam Investigation in the Upper Guadalupe Bay System	$170,000	Guthrie	8/31/15	In Progress	1400011711	SB3 (GR)	Al Dillard	1-Oct	The G-SA BBEST utilized published scientific literature about the reproductive requirements of *Rangia* clams (a good bio-indicator of freshwater inflows) to determine freshwater inflow needs for the bay. This study will validate and refine the salinity and freshwater inflow requirements of *Rangia* populations in San Antonio Bay by generating high-resolution maps of their distribution and by assessing individual growth and population recruitment patterns over recent history.
Guadalupe	UTMSI	Assessing the effects of freshwater inflows and other key drivers on the population dynamics of blue crab and white shrimp	$150,000	Schoenbaechler	8/31/15	In Progress	1400011712	SB3 (GR)	Phyllis	1-Oct	Through a literature review and multivariate autoregressive modeling techniques of TPWD Coastal Fisheries monitoring data and other datasets, this study will provide insights into how physical and biological drivers interact to affect the abundance of blue crabs and white shrimp in the Guadalupe and Mission-Aransas Estuaries. The project will assess the interaction of different factors over different temporal scales.
Guadalupe	San Antonio Bay Partnership	Strategy Options for Meeting Attainment Frequencies for the Estuaries	$50,000	Raphelt	8/31/15	In Progress	1400011713	SB3 (GR)	Vicki Karaffa	1-Oct	This study will quantify the amount of potential water available, location, seasonal availability and cost of strategies to better achieve the estuarine attainment frequencies of the environmental flow standards for the San Antonio Bay System. Strategies based on the donation, purchase, or lease of existing water permits and the use of Aquifer Storage and Recovery (ASR) to increase storage of water for releases of environmental flows will be considered.

AGENDA ITEM 4

Chair's Report

AGENDA ITEM 5

Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Final Project Prioritization to Texas Water Development Board

South Central Texas Regional Water Planning Group
Water Management Strategy Prioritization Workgroup

Summary Report and 2011 Regional Water Plan Prioritization

In accordance House Bill 4 (HB 4) of the 83rd Texas Legislature and the request of the Texas Water Development Board (TWDB), the South Central Texas (Region L) Regional Water Planning Group (SCTRWPG) has completed a draft prioritization of the recommended water management strategies (or projects) in the approved 2011 South Central Texas Regional Water Plan. This draft prioritization was approved by consensus of the SCTRWPG during its meeting on May 1, 2014 and is hereby submitted to the TWDB in the required electronic format. A summary of the draft prioritization is included as Attachment A.

Development of the draft prioritization was accomplished through the efforts of the SCTRWPG Water Management Strategy Prioritization Workgroup (Workgroup) led by Suzanne Scott with the technical and administrative support of HDR Engineering, Inc. and the San Antonio River Authority, respectively. The Workgroup developed summary rankings of major water management strategies, many of which serve multiple water user groups, based on the average and maximum scores calculated. These summary rankings are included as Attachment B. Average and maximum scores for Municipal Water Conservation and Drought Management are included for general reference only as relative scores for these strategies should be evaluated on a single water user group basis.

The Workgroup developed the draft prioritization using the Uniform Standards for Prioritization (USP, Attachment C) developed by the HB 4 Stakeholder Committee and supplemental Interpretive Assumptions (Attachment D) or clarifications adopted by consensus of the Workgroup in the course of two meetings (February 20, 2014 and March 21, 2014).

In the preparation of this draft prioritization of recommended projects, interests represented on the SCTRWPG had certain observations and comments regarding the USP, the supplemental Interpretive Assumptions, and/or other factors relevant to the regional water plan prioritization process or the upcoming TWDB prioritization of projects included in the state water plan. These observations and comments are included as Attachment E. It is noted that the SCTRWPG has not endorsed these observations and comments and is simply passing them forward for TWDB consideration.

ATTACHMENT A

ATTACHMENT A

*** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L53	CIBOLO	CRWA Wells Ranch project Phase I	938.33
L99	CRYSTAL CLEAR WSC	CRWA Wells Ranch project Phase I	938.33
L173	LA VERNIA	CRWA Wells Ranch project Phase I	938.33
L16	BEXAR MET WATER DISTRICT	CRWA Wells Ranch project Phase I	938.33
L36	CANYON REGIONAL WATER AUTHORITY	CRWA Wells Ranch project Phase I	938.33
L37	CANYON REGIONAL WATER AUTHORITY	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L134	GREEN VALLEY SUD	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L267	SANTA CLARA	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L203	MARION	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L208	MARTINDALE WSC	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L17	BEXAR MET WATER DISTRICT	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L54	CIBOLO	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33
L279	SELMA	Regional Carrizo for SSLGC project expansion (including Gonzales County)	864.00
L273	SCHERTZ	Regional Carrizo for SSLGC project expansion (including Gonzales County)	864.00
L158	IRRIGATION, ATASCOSA	Irrigation water conservation	862.74
L2	ALAMO HEIGHTS	Edwards transfers	854.33
L124	GARDEN RIDGE	Purchase from wholesale water provider (SSLGC)/redistribution of supplies	854.33
L156	HONDO	Edwards transfers	854.33
L169	KIRBY	Edwards transfers	854.33
L178	LACOSTE	Edwards transfers	854.33
L191	LYTLE	Edwards transfers	854.33
L224	NATALIA	Edwards transfers	854.33
L243	POINT COMFORT	Purchase from wholesale water provider (LNRA)/redistribution of supplies	854.33
L252	SABINAL	Edwards transfers	854.33
L303	UNIVERSAL CITY	Edwards transfers	854.33
L306	UVALDE	Edwards transfers	854.33
L318	WINDCREST	Edwards transfers	854.33
L326	YANCEY WSC	Edwards transfers	854.33
L199	MANUFACTURING, COMAL	Recycled water programs	832.67
L294	STEAM ELECTRIC POWER, ATASCOSA	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	832.33
L5	AQUA WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	824.33
L210	MAXWELL WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	824.00
L171	KYLE	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	824.00
L217	MOUNTAIN CITY	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	824.00
L265	SAN MARCOS	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	824.00
L104	CRYSTAL CLEAR WSC	Regional Carrizo for SSLGC project expansion (including Gonzales County)	822.33
L275	SCHERTZ-SEGUIN LOCAL GOVERNMENT CORPORATION	Regional Carrizo for SSLGC project expansion (including Gonzales County)	822.33
L43	CASTLE HILLS	Municipal water conservation	822.28
L131	GONZALES COUNTY WSC	TWA Regional Carrizo (including Gonzales County)	816.00
L301	TEXAS WATER ALLIANCE	TWA Regional Carrizo (including Gonzales County)	816.00
L317	WIMBERLEY WSC	Wimberley and Woodcreek water supply project	816.00
L322	WOODCREEK	Wimberley and Woodcreek water supply project	816.00

ATTACHMENT A

**** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L324	WOODCREEK UTILITIES INC	Wimberley and Woodcreek water supply project	816.00
L42	CASTLE HILLS	Local groundwater (Trinity Aquifer)	814.33
L87	COUNTY-OTHER, MEDINA	Edwards transfers	814.33
L113	EAST MEDINA SUD	Edwards transfers	814.33
L150	HILL COUNTRY VILLAGE	Edwards transfers	814.33
L153	HOLLYWOOD PARK	Edwards transfers	814.33
L9	ATASCOSA RURAL WSC	Edwards transfers	812.67
L45	CASTROVILLE	Edwards transfers	812.67
L239	PLUM CREEK WATER COMPANY	GBRA mid basin (surface water)	812.00
L319	WINDCREST	Municipal water conservation	804.44
L3	ALAMO HEIGHTS	Municipal water conservation	793.97
L194	MANUFACTURING, BEXAR	Recycled water programs	792.67
L253	SABINAL	Municipal water conservation	791.64
L20	BEXAR MET WATER DISTRICT	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	790.67
L159	IRRIGATION, MEDINA	Irrigation water conservation	789.33
L282	SHAVANO PARK	Municipal water conservation	788.34
L163	JOURDANTON	Municipal water conservation	785.38
L205	MARION	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L270	SANTA CLARA	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L290	SS WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L62	COUNTY LINE WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L174	LA VERNIA	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L101	CRYSTAL CLEAR WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L109	EAST CENTRAL WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L136	GREEN VALLEY SUD	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L39	CANYON REGIONAL WATER AUTHORITY	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L126	GOFORTH WSC	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	782.33
L196	MANUFACTURING, CALHOUN	Construction of Lavaca River off-channel reservoir diversion project (Region L component	780.67
L141	GUADALUPE BLANCO RIVER AUTHORITY	GBRA mid basin (surface water)	778.33
L221	MUSTANG RIDGE	Municipal water conservation	775.24
L56	CIBOLO	Medina Lake firm-up (aquifer storage and recovery)	774.33
L21	BEXAR MET WATER DISTRICT	Medina Lake firm-up (aquifer storage and recovery)	774.33
L30	BULVERDE CITY	TWA Regional Carrizo (including Gonzales County)	774.33
L74	COUNTY-OTHER, COMAL	TWA Regional Carrizo (including Gonzales County)	774.33
L146	GUADALUPE BLANCO RIVER AUTHORITY	Wimberley and Woodcreek water supply project	774.33
L281	SHAVANO PARK	Edwards transfers	774.33
L287	SPRINGS HILL WSC	TWA Regional Carrizo (including Gonzales County)	774.33
L314	WATER SERVICES INC	TWA Regional Carrizo (including Gonzales County)	774.33
L33	CANYON LAKE WSC	TWA Regional Carrizo (including Gonzales County)	774.33
L227	NEW BRAUNFELS	GBRA Simsboro project (overdraft)	774.00
L215	MINING, COMAL	Industrial, steam-electric power generation, and mining water conservatior	772.67
L216	MINING, HAYS	Industrial, steam-electric power generation, and mining water conservatior	772.67

ATTACHMENT A

**** Orange indicates that the score of the WMS has changed due to TWDB guidance. **'*

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L162	JOURDANTON	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	772.33
L212	MCCOY WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	772.33
L100	CRYSTAL CLEAR WSC	GBRA mid basin (surface water)	770.33
L135	GREEN VALLEY SUD	GBRA mid basin (surface water)	770.33
L269	SANTA CLARA	GBRA mid basin (surface water)	770.33
L55	CIBOLO	GBRA mid basin (surface water)	770.33
L204	MARION	GBRA mid basin (surface water)	770.33
L38	CANYON REGIONAL WATER AUTHORITY	GBRA mid basin (surface water)	770.33
L94	CREEDMOOR-MAHA WSC	GBRA mid basin (surface water)	770.33
L183	LOCKHART	GBRA mid basin (surface water)	770.33
L187	LULING	GBRA mid basin (surface water)	770.33
L220	MUSTANG RIDGE	GBRA mid basin (surface water)	770.33
L230	NIEDERWALD	GBRA mid basin (surface water)	770.33
L125	GOFORTH WSC	GBRA mid basin (surface water)	770.33
L24	BOERNE	Municipal water conservation	769.33
L121	FLORESVILLE	Municipal water conservation	769.33
L167	KENEDY	Municipal water conservation	769.33
L278	SELMA	Municipal water conservation	769.33
L307	UVALDE	Municipal water conservation	767.42
L157	HONDO	Municipal water conservation	761.25
L164	KARNES CITY	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	752.33
L67	COUNTY-OTHER, BEXAR	Municipal water conservation	750.25
L296	STEAM ELECTRIC POWER, VICTORIA	Purchase from wholesale water provider (GBRA)	749.33
L311	WATER SERVICES INC	Edwards transfers	745.78
L18	BEXAR MET WATER DISTRICT	Edwards transfers	744.91
L47	CASTROVILLE	Municipal water conservation	744.79
L260	SAN ANTONIO WATER SYSTEM	Edwards transfers	743.85
L144	GUADALUPE BLANCO RIVER AUTHORITY	Storage above Canyon Reservoir (aquifer storage and recovery)	742.33
L140	GUADALUPE BLANCO RIVER AUTHORITY	GBRA lower basin storage	741.54
L200	MANUFACTURING, VICTORIA	GBRA lower basin storage	741.54
L295	STEAM ELECTRIC POWER, VICTORIA	GBRA lower basin storage	741.54
L195	MANUFACTURING, BEXAR	Recycled water programs	741.01
L154	HOLLYWOOD PARK	Municipal water conservation	737.32
L151	HILL COUNTRY VILLAGE	Municipal water conservation	737.15
L327	YANCEY WSC	Municipal water conservation	736.49
L123	GARDEN RIDGE	Municipal water conservation	736.06
L242	POINT COMFORT	Municipal water conservation	735.31
L228	NEW BRAUNFELS	Municipal water conservation	734.80
L58	CONVERSE	Local groundwater (Trinity Aquifer)	734.33
L63	COUNTY LINE WSC	Local groundwater (Trinity Aquifer)	732.67
L143	GUADALUPE BLANCO RIVER AUTHORITY	GBRA Simsboro project (overdraft)	732.33
L27	BULVERDE CITY	GBRA Simsboro project (overdraft)	732.33

ATTACHMENT A

*** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L70	COUNTY-OTHER, COMAL	GBRA Simsboro project (overdraft)	732.33
L197	MANUFACTURING, COMAL	GBRA Simsboro project (overdraft)	732.33
L31	CANYON LAKE WSC	GBRA Simsboro project (overdraft)	732.33
L291	SS WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	730.67
L160	IRRIGATION, ZAVALA	Irrigation water conservation	730.56
L299	SUNKO WSC	Municipal water conservation	729.33
L272	SCHERTZ	Municipal water conservation	723.22
L323	WOODCREEK UTILITIES INC	Municipal water conservation	721.16
L189	LULING	Municipal water conservation	717.62
L19	BEXAR MET WATER DISTRICT	Local groundwater (Trinity Aquifer)	712.47
L225	NATALIA	Municipal water conservation	712.19
L90	COUNTY-OTHER, VICTORIA	GBRA new appropriation (lower basin)	712.00
L201	MANUFACTURING, VICTORIA	Purchase from wholesale water provider (GBRA)	709.33
L266	SAN MARCOS	Municipal water conservation	705.44
L184	LOCKHART	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	702.67
L188	LULING	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	702.67
L64	COUNTY LINE WSC	Municipal water conservation	702.52
L255	SAN ANTONIO	Municipal water conservation	702.34
L84	COUNTY-OTHER, KENDALL	Storage above Canyon Reservoir (aquifer storage and recovery)	700.67
L202	MARION	CRWA Siesta project	694.33
L52	CIBOLO	CRWA Siesta project	694.33
L133	GREEN VALLEY SUD	CRWA Siesta project	694.33
L35	CANYON REGIONAL WATER AUTHORITY	CRWA Siesta project	694.33
L14	BENTON CITY WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	692.33
L262	SAN ANTONIO WATER SYSTEM	Recycled water programs	691.32
L181	LIVESTOCK, GOLIAD	Livestock water conservation	689.33
L29	BULVERDE CITY	Purchase from wholesale water provider (GBRA)	689.33
L83	COUNTY-OTHER, KENDALL	Purchase from wholesale water provider (GBRA)	689.33
L198	MANUFACTURING, COMAL	Purchase from wholesale water provider (GBRA)	689.33
L222	MUSTANG RIDGE	Purchase from wholesale water provider (GBRA)	689.33
L232	NIEDERWALD	Purchase from wholesale water provider (GBRA)	689.33
L313	WATER SERVICES INC	Purchase from wholesale water provider (SSLGC)/redistribution of supplies	689.02
L7	ASHERTON	Municipal water conservation	686.00
L13	BALCONES HEIGHTS	Municipal water conservation	686.00
L40	CARRIZO SPRINGS	Municipal water conservation	686.00
L51	CHINA GROVE	Municipal water conservation	686.00
L60	COTULLA	Municipal water conservation	686.00
L79	COUNTY-OTHER, GUADALUPE	Municipal water conservation	686.00
L97	CRYSTAL CITY	Municipal water conservation	686.00
L105	CUERO	Municipal water conservation	686.00
L106	DEVINE	Municipal water conservation	686.00
L107	DILLEY	Municipal water conservation	686.00

ATTACHMENT A

**** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L115	EL OSO WSC	Municipal water conservation	686.00
L118	FAIROAKS RANCH	Municipal water conservation	686.00
L119	FALLS CITY	Municipal water conservation	686.00
L129	GONZALES	Municipal water conservation	686.00
L176	LACKLAND AFB	Municipal water conservation	686.00
L236	OLMOS PARK	Municipal water conservation	686.00
L237	PEARSALL	Municipal water conservation	686.00
L238	PLEASANTON	Municipal water conservation	686.00
L247	POTEET	Municipal water conservation	686.00
L249	REFUGIO	Municipal water conservation	686.00
L276	SEADRIFT	Municipal water conservation	686.00
L277	SEGUIN	Municipal water conservation	686.00
L283	SOMERSET	Municipal water conservation	686.00
L297	STOCKDALE	Municipal water conservation	686.00
L300	TERRELL HILLS	Municipal water conservation	686.00
L308	VICTORIA	Municipal water conservation	686.00
L57	CIBOLO	Municipal water conservation	686.00
L130	GONZALES COUNTY WSC	Municipal water conservation	686.00
L148	HELOTES	Municipal water conservation	686.00
L175	LA VERNIA	Municipal water conservation	686.00
L233	NIXON	Municipal water conservation	686.00
L286	SPRINGS HILL WSC	Municipal water conservation	686.00
L138	GREEN VALLEY SUD	Purchase from New Braunfels Utilities/redistribution of supplies	677.88
L192	LYTLE	Municipal water conservation	676.33
L284	SPRINGS HILL WSC	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33
L98	CRYSTAL CLEAR WSC	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33
L132	GREEN VALLEY SUD	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33
L34	CANYON REGIONAL WATER AUTHORITY	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33
L274	SCHERTZ-SEGUIN LOCAL GOVERNMENT CORPORATION	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33
L172	KYLE	Municipal water conservation	672.89
L139	GUADALUPE BLANCO RIVER AUTHORITY	GBRA Exelon project	671.67
L258	SAN ANTONIO WATER SYSTEM	Drought management	670.26
L263	SAN ANTONIO WATER SYSTEM	Regional Carrizo for SAWS (including Gonzalas County)	666.20
L81	COUNTY-OTHER, KARNES	Municipal water conservation	666.00
L93	COUNTY-OTHER, ZAVALA	Municipal water conservation	666.00
L328	YOAKUM	Municipal water conservation	666.00
L128	GOLIAD	Municipal water conservation	666.00
L50	CHARLOTTE	Municipal water conservation	666.00
L218	MOUNTAIN CITY	Municipal water conservation	661.09
L257	SAN ANTONIO WATER SYSTEM	Brackish groundwater desalination (Wilcox Aquifer) (SAWS)	656.80
L25	BOERNE	Western Canyon water treatment plant expansion	656.00
L214	MINING, BEXAR	Industrial, steam-electric power generation, and mining water conservatior	652.67

ATTACHMENT A

*** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L108	EAST CENTRAL WSC	Edwards transfers	649.33
L88	COUNTY-OTHER, MEDINA	Municipal water conservation	648.75
L72	COUNTY-OTHER, COMAL	Purchase from New Braunfels Utilities/redistribution of supplies	647.67
L73	COUNTY-OTHER, COMAL	Purchase from wholesale water provider (GBRA)	647.67
L256	SAN ANTONIO WATER SYSTEM	Aquifer storage and recovery project and phased expansion	646.87
L23	BIG WELLS	Municipal water conservation	646.00
L65	COUNTY-OTHER, ATASCOSA	Municipal water conservation	646.00
L78	COUNTY-OTHER, GONZALES	Municipal water conservation	646.00
L86	COUNTY-OTHER, LA SALLE	Municipal water conservation	646.00
L117	ENCINAL	Municipal water conservation	646.00
L248	POTH	Municipal water conservation	646.00
L250	RUNGE	Municipal water conservation	646.00
L325	WOODSBORO	Municipal water conservation	646.00
L69	COUNTY-OTHER, CALDWELL	Municipal water conservation	646.00
L302	UNIVERSAL CITY	Drought management	629.33
L259	SAN ANTONIO WATER SYSTEM	Edwards Aquifer recharge - Type 2 projects	627.90
L241	POINT COMFORT	Drought management	625.93
L110	EAST CENTRAL WSC	Local groundwater (Trinity Aquifer)	623.69
L280	SHAVANO PARK	Drought management	616.68
L231	NIEDERWALD	Municipal water conservation	615.99
L145	GUADALUPE BLANCO RIVER AUTHORITY	Western Canyon water treatment plant expansion	614.33
L85	COUNTY-OTHER, KENDALL	Western Canyon water treatment plant expansion	614.33
L305	UVALDE	Drought management	613.99
L32	CANYON LAKE WSC	Municipal water conservation	613.41
L193	MANUFACTURING, BEXAR	Edwards transfers	611.36
L152	HOLLYWOOD PARK	Drought management	610.91
L149	HILL COUNTRY VILLAGE	Drought management	610.79
L261	SAN ANTONIO WATER SYSTEM	Firm-up- run-of-river with off-channel reservoir - LCRA/SAWS project (Region L component)	609.01
L329	YORKTOWN	Municipal water conservation	606.00
L61	COUNTY LINE WSC	Drought management	606.00
L96	CREEDMOOR-MAHA WSC	Purchase from wholesale water provider (GBRA)	606.00
L226	NEW BRAUNFELS	Drought management	606.00
L190	LYTLE	Drought management	600.18
L168	KIRBY	Drought management	598.44
L122	GARDEN RIDGE	Drought management	595.08
L177	LACOSTE	Drought management	595.06
L66	COUNTY-OTHER, BEXAR	Edwards transfers	594.33
L102	CRYSTAL CLEAR WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	590.67
L11	ATASCOSA RURAL WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	590.53
L310	WATER SERVICES INC	Drought management	590.39
L320	WOODCREEK	Drought management	589.48
L142	GUADALUPE BLANCO RIVER AUTHORITY	GBRA new appropriation (lower basin)	587.00

ATTACHMENT A

**** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L186	LULING	Drought management	586.00
L207	MARTINDALE	Drought management	586.00
L185	LOCKHART	Municipal water conservation	579.77
L28	BULVERDE CITY	Municipal water conservation	575.29
L289	SS WSC	Drought management	575.15
L166	KENEDY	Local groundwater (Gulf Coast Aquifer)	574.33
L92	COUNTY-OTHER, WILSON	Municipal water conservation	569.33
L209	MARTINDALE WSC	Drought management	563.86
L251	SABINAL	Drought management	559.12
L321	WOODCREEK	Municipal water conservation	555.00
L120	FLORESVILLE	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	544.33
L41	CASTLE HILLS	Drought management	541.59
L271	SANTA CLARA	Municipal water conservation	536.52
L161	JOURDANTON	Drought management	535.76
L219	MUSTANG RIDGE	Drought management	532.32
L155	HONDO	Drought management	529.25
L4	AQUA WSC	Drought management	528.11
L80	COUNTY-OTHER, HAYS	Municipal water conservation	526.00
L112	EAST MEDINA SUD	Drought management	526.00
L170	KYLE	Drought management	526.00
L235	OAK HILLS WSC	Municipal water conservation	524.03
L315	WIMBERLEY WSC	Drought management	520.84
L1	ALAMO HEIGHTS	Drought management	520.64
L268	SANTA CLARA	Drought management	518.06
L229	NIEDERWALD	Drought management	516.06
L44	CASTROVILLE	Drought management	515.64
L223	NATALIA	Drought management	513.30
L8	ATASCOSA RURAL WSC	Drought management	513.17
L26	BULVERDE CITY	Drought management	512.76
L254	SAN ANTONIO	Drought management	507.32
L48	CHARLOTTE	Drought management	506.00
L182	LOCKHART	Drought management	506.00
L244	POLONIA WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	504.33
L312	WATER SERVICES INC	Municipal water conservation	491.27
L288	SS WSC	Brackish groundwater desalination (Wilcox Aquifer) (SS WSC)	475.12
L89	COUNTY-OTHER, UVALDE	Municipal water conservation	466.00
L309	WAELDER	Municipal water conservation	446.00
L304	UNIVERSAL CITY	Municipal water conservation	433.09
L49	CHARLOTTE	Facilities expansion	427.67
L68	COUNTY-OTHER, CALDWELL	Facilities expansion	427.67
L147	HELOTES	Facilities expansion	427.67
L15	BENTON CITY WSC	Municipal water conservation	424.79

ATTACHMENT A

**** Orange indicates that the score of the WMS has changed due to TWDB guidance. ***

Alphabetized unique identifier	Sponsor	Recommended Water Management Strategy Name	Score
L234	OAK HILLS WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	424.33
L298	SUNKO WSC	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	424.33
L213	MCCOY WSC	Municipal water conservation	421.72
L59	CONVERSE	Municipal water conservation	417.90
L82	COUNTY-OTHER, KENDALL	Municipal water conservation	414.49
L103	CRYSTAL CLEAR WSC	Municipal water conservation	413.42
L292	SS WSC	Municipal water conservation	413.37
L316	WIMBERLEY WSC	Municipal water conservation	411.48
L116	ELMENDORF	Municipal water conservation	406.00
L245	PORT LAVACA	Municipal water conservation	406.00
L246	PORT O'CONNOR MUD	Municipal water conservation	406.00
L114	EAST MEDINA SUD	Municipal water conservation	399.15
L111	EAST CENTRAL WSC	Municipal water conservation	398.92
L6	AQUA WSC	Municipal water conservation	392.04
L10	ATASCOSA RURAL WSC	Facilities expansion	386.00
L46	CASTROVILLE	Facilities expansion	386.00
L285	SPRINGS HILL WSC	Facilities expansion	386.00
L206	MARION	Municipal water conservation	381.83
L240	PLUM CREEK WATER COMPANY	Municipal water conservation	375.05
L211	MAXWELL WSC	Municipal water conservation	374.58
L179	LACOSTE	Municipal water conservation	373.65
L127	GOFORTH WSC	Municipal water conservation	372.06
L264	SAN ANTONIO WATER SYSTEM	Seawater desalination	360.12
L91	COUNTY-OTHER, VICTORIA	Municipal water conservation	343.20
L22	BEXAR MET WATER DISTRICT	Municipal water conservation	332.94
L71	COUNTY-OTHER, COMAL	Municipal water conservation	330.79
L76	COUNTY-OTHER, FRIO	Municipal water conservation	326.00
L180	LEON VALLEY	Municipal water conservation	326.00
L293	ST. HEDWIG	Municipal water conservation	326.00
L165	KARNES CITY	Municipal water conservation	313.00
L12	ATASCOSA RURAL WSC	Municipal water conservation	309.01
L137	GREEN VALLEY SUD	Municipal water conservation	291.21
L75	COUNTY-OTHER, DEWITT	Municipal water conservation	286.00
L77	COUNTY-OTHER, GOLIAD	Municipal water conservation	286.00
L95	CREEDMOOR-MAHA WSC	Municipal water conservation	286.00

ATTACHMENT B

ATTACHMENT B

Major Projects Ranked By Average Score

Rank	Sponsor	WMS	Average Score	Max Score
1	CRWA	CRWA Wells Ranch project Phase I	938.33	938.33
2	CRWA	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33	902.33
3	SSLGC	Regional Carrizo for SSLGC project expansion (including Gonzales County)	843.17	864.00
4	GBRA	Wimberley and Woodcreek water supply project	805.58	816.00
5	HC PUA	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	794.24	824.00
6	BMWD (SAWS)	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	790.67	790.67
7	TWA	TWA Regional Carrizo (including Gonzales County)	786.24	816.00
8	LNRA/Formosa	Construction of Lavaca River off-channel reservoir diversion project (Region L component)	780.67	780.67
9	BMWD	Medina Lake firm-up (aquifer storage and recovery)	774.33	774.33
10	GBRA	GBRA mid basin (surface water)	773.88	812.00
11	GBRA	GBRA lower basin storage	741.54	741.54
12	GBRA	GBRA Simsboro project (overdraft)	739.28	774.00
13	GBRA	Storage above Canyon Reservoir (aquifer storage and recovery)	721.50	742.33
14	CRWA	CRWA Siesta project	694.33	694.33
15	RWA	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33	674.33
16	GBRA	GBRA Exelon project	671.67	671.67
17	SAWS	Regional Carrizo for SAWS (including Gonzalas County)	666.20	666.20
18	SAWS	Brackish groundwater desalination (Wilcox Aquifer) (SAWS)	656.80	656.80
19	GBRA	GBRA new appropriation (lower basin)	649.50	712.00
20	SAWS	Aquifer storage and recovery project and phased expansion	646.87	646.87
21	SAWS	Edwards Aquifer recharge - Type 2 projects	627.90	627.90
22	SAWS	Firm-up- run-of-river with off-channel reservoir - LCRA/SAWS project (Region L component)	609.01	609.01
23	SS WSC	Brackish groundwater desalination (Wilcox Aquifer) (SS WSC)	475.12	475.12
24	SAWS	Seawater desalination	360.12	360.12
****	**Various**	**Municipal water conservation**	**601.99**	**822.28**
****	**Various**	**Drought Management**	**563.09**	**670.26**

ATTACHMENT B

Major Projects Ranked by Maximum Score

Rank	Sponsor	WMS	Average Score	Max Score
1	CRWA	CRWA Wells Ranch project Phase I	938.33	938.33
2	CRWA	CRWA Wells Ranch project Phase II (including Gonzales County)	902.33	902.33
3	SSLGC	Regional Carrizo for SSLGC project expansion (including Gonzales County)	843.17	864.00
4	HC PUA	Hays/Caldwell Public Utility Authority Project (including Gonzales County)	794.24	824.00
5	GBRA	Wimberley and Woodcreek water supply project	805.58	816.00
6	TWA	TWA Regional Carrizo (including Gonzales County)	786.24	816.00
7	GBRA	GBRA mid basin (surface water)	773.88	812.00
8	BMWD (SAWS)	Local groundwater Carrizo-Wilcox Aquifer (includes overdrafts)	790.67	790.67
9	LNRA/Formosa	Construction of Lavaca River off-channel reservoir diversion project (Region L component)	780.67	780.67
10	BMWD	Medina Lake firm-up (aquifer storage and recovery)	774.33	774.33
11	GBRA	GBRA Simsboro project (overdraft)	739.28	774.00
12	GBRA	Storage above Canyon Reservoir (aquifer storage and recovery)	721.50	742.33
13	GBRA	GBRA lower basin storage	741.54	741.54
14	GBRA	GBRA new appropriation (lower basin)	649.50	712.00
15	CRWA	CRWA Siesta project	694.33	694.33
16	RWA	Brackish groundwater desalination (Wilcox Aquifer) (RWA)	674.33	674.33
17	GBRA	GBRA Exelon project	671.67	671.67
18	SAWS	Regional Carrizo for SAWS (including Gonzalas County)	666.20	666.20
19	SAWS	Brackish groundwater desalination (Wilcox Aquifer) (SAWS)	656.80	656.80
20	SAWS	Aquifer storage and recovery project and phased expansion	646.87	646.87
21	SAWS	Edwards Aquifer recharge - Type 2 projects	627.90	627.90
22	SAWS	Firm-up- run-of-river with off-channel reservoir - LCRA/SAWS project (Region L component)	609.01	609.01
23	SS WSC	Brackish groundwater desalination (Wilcox Aquifer) (SS WSC)	475.12	475.12
24	SAWS	Seawater desalination	360.12	360.12
**	**Various**	**Municipal water conservation**	**601.99**	**822.28**
**	**Various**	**Drought Management**	**563.09**	**670.26**

ATTACHMENT C

HB 4 Stakeholder Committee
Final Uniform Standards for Prioritization
Adopted by Consensus at 3pm, November 14, 2013

PROJECT NAME:	
PROJECT SPONSOR:	

Overall Criteria Weightings:

Decade of Need	40%
Project Feasibility	10%
Project Viability	25%
Project Sustainability	15%
Project Cost Effectiveness	10%
	100%

potential SWIFT funding category	flag all that may apply
mainstream	
rural/agricultural conservation	
conservation/reuse	

** indicates that additional data may have to be collected by RWPG in order to score projects

1. Decade of Need for Project

	Max Score	Actual Score
A What is the decade the RWP shows the project comes online?	10	0

Points	Year
0	2060
2	2050
4	2040
6	2030
8	2020
10	2010

	Max Score	Actual Score
** **B** In what decade is initial funding needed?	10	0

Points	Year
0	2060
2	2050
4	2040
6	2030
8	2020
10	2010

	Max Score	Actual Score
Criteria Total	20	0

HB 4 Stakeholder Committee
Final Uniform Standards for Prioritization
Adopted by Consensus at 3pm, November 14, 2013

2. Project Feasibility

	Max Score	Actual Score

A What supporting data is available to show that the quantity of water needed is available?

Max Score: 5 | Actual Score: 0

Points	Measure
0	Models suggest insufficient quantities of water or no modeling has been performed
3	Models suggest sufficient quantity of water
5	Field tests and measurements confirm sufficient quantities of water

** **B** If necessary, does the sponsor hold necessary legal rights, water rights and/or contracts to use the water that this project would require?

Max Score: 5 | Actual Score: 0

Points	Measure
0	legal rights, water rights and/or contract application not submitted
2	application submitted
3	application is administratively complete
5	legal rights, water rights and/or contracts obtained or not needed

** **C** What level of engineering and/or planning has been accomplished for this project? (Points based on progress on scientific data collection, stage of studies and design)

Max Score: 10 | Actual Score: 0

Points	Measure	Points	Measure
1	Project idea is outlined in Regional Plan.	6	Preliminary engineering report initiated.
2	Feasibility studies initiated.	7	Preliminary engineering report completed.
3	Feasibility studies completed.	8	Preliminary design initiated.
4	Conceptual design initiated.	9	Preliminary design completed.
5	Conceptual design completed.	10	Final design complete.

D Has the project sponsor requested (in writing for the 2016 Plan) that the project be included in the Regional Water Plan?

Max Score: 5 | Actual Score: 0

Points	Measure
0	no
5	yes

Criteria Total Max Score: 25 | Actual Score: 0

3. Project Viability

	Max Score	Actual Score

For A and B, the calculation is to be based on the total needs of all WUGs receiving water from the project.

A In the decade the project supply comes online, what is the % of the WUG's (or WUGs') needs satisfied by this project?

0.00 **%**

10	0.00

B In the final decade of the planning period, what is the % of the WUG's (or WUGs') needs satisfied by this project?

0.00 **%**

10	0.00

C Is this project the only economically feasible source of new supply for the WUG, other than conservation?

5	0

Points	Measure
0	no
5	yes

D Does the project serve multiple WUGs?

5	0

Points	Measure
0	no
5	yes

Criteria Total	30	0

4. Project Sustainability

** **A** Over what period of time is this project expected to provide water (regardless of the planning period)?

10	0

Points	Measure
5	less than or equal to 20 years
10	greater than 20 years

B Does the volume of water supplied by the project change over the regional water planning period?

5	0

Points	Measure
0	decreases
3	no change
5	increases

Criteria Total	15	0

HB 4 Stakeholder Committee
Final Uniform Standards for Prioritization
Adopted by Consensus at 3pm, November 14, 2013

5. Project Cost Effectiveness

	Max Score	Actual Score
A What is the expected unit cost of water supplied by this project compared to the median unit cost of all other recommended strategies in the region's current RWP? (Project's Unit Cost divided by the median project's unit cost)	5	0

Points	Relative to Median unit cost
0	200% or greater than median
1	150% to 199% of median
2	101% to 149% of median
3	100% of median
4	51% to 99% of median
5	0% to 50% of median

Criteria Total	5	0

SCORING RESULTS ON SCALE OF 1,000 POINTS MAXIMUM:

sub-score for: Decade of Need	-
sub-score for: Project Feasibility	-
sub-score for: Project Viability	-
sub-score for: Project Sustainability	-
sub-score for: Project Cost Effectiveness	-
FINAL SCORE FOR PROJECT	-

0
0

ATTACHMENT D

South Central Texas Regional Water Planning Group

Water Management Strategy Prioritization Workgroup

Consensus Results of Meetings #1 and #2

Interpretive Assumptions for Application of Uniform Standards for Prioritization

Potential SWIFT Funding Category[1]

Mainstream

- All projects.

Rural / Agricultural Conservation

- Projects for County-Other or Water User Groups (WUGs) serving less than 8,000 people in 2010 and Irrigation Conservation[2].

Conservation / Reuse

- All conservation and reuse projects.

1. Decade of Need for Project

A. What is the decade the Regional Water Plan (RWP) shows the project comes online?

- For a project with multiple participants ~~having~~ showing different decades for initial ~~needs~~water supply from the strategy, use the first decade of ~~need~~ water supply of any of the participants for the entire project.

B. In what decade is initial funding needed?

- Use the Infrastructure Financing Report (IFR) response, if available.
- If no IFR response is available, use one (1) decade prior to the decade at which the project comes online.

2. Project Feasibility

A. What supporting data is available to show that the quantity of water needed is available?

- Treat groundwater overdraft Water Management Strategies (WMSs) individually.

---

[1] On March 21, 2014, the Texas Water Development Board advised that the South Central Texas Regional Water Planning Group need not respond to this portion of the USP as it will be addressed in a future rulemaking process and does not affect project scoring.

[2] Section 15.992 of the Texas Water Code states:

(4) "Rural political subdivision" means:

(A) a nonprofit water supply or sewer service corporation, district, or municipality with a service area of 10,000 or less in population or that otherwise qualifies for financing from a federal agency; or

(B) a county in which no urban area exceeds 50,000 in population.

- Use source water availability from 2011 RWP, not current Modeled Available Groundwater (MAG).

B. If necessary, does the sponsor hold necessary legal rights, water rights and/or contracts to use the water that this project would require?

- Account for listed permitting milestones since 2011 RWP issued, if applicable.
- A permit for part of the planned project firm yield may receive 5 points.

C. What level of engineering and/or planning has been accomplished for this project?

- Account for listed engineering/planning milestones since 2011 RWP issued, if applicable.

3. Project Viability

C. Is this project the only economically feasible source of new supply for the WUG, other than conservation?

- If there is only one WMS or only one WMS in addition to Conservation recommended for the WUG, then answer "Yes" for 5 points. Otherwise, answer "No" for 0 points.

4. Project Sustainability

A. Over what period of time is this project expected to provide water (regardless of the planning period)?

- 5-year groundwater production permits or other short-term source water contracts and leases are assumed to be renewed for more than 20 years.

B. Does the volume of water supplied by the project change over the regional water planning period?

- Focus on sustainability of supplies developed, not phased project implementation.
- Score on a project basis as follows:
  i. Decreases – Drought Management & Groundwater Overdraft WMSs.
  ii. No change – All other WMSs.
  iii. Increases – Municipal Conservation, Irrigation Conservation (Atascosa, Medina), and Industrial, Steam-Electric Power Generation, and Mining Conservation

5. Project Cost Effectiveness

A. What is the expected unit cost of water supplied by this project compared to the median unit cost of all other recommended strategies in the region's current RWP?

- All unit costs used for prioritizing the 2011 RWP will be from the 2011 RWP.
- For a project serving multiple WUGs, the same unit cost will be used for scoring project cost effectiveness for each participating WUG or Wholesale Water Provider (WWP). This unit cost is calculated as the annual cost during the debt service period divided by the full planned firm yield of the project.

ATTACHMENT E

DRAFT – Compilation of Observations and Comments
from Prioritization Workgroup

- Rankings of projects submitted by individual water user groups (WUGs) that are served by regional water projects should be conducted with consideration of the fact a single project serves many entities, but the unit cost is the same for all units regardless of the entity receiving the water. Rankings should therefore show the same unit cost score for the same source project. This does not appear to be the case at the time of our initial review.

- The problem of projects which are proposed to serve (by description and representation in the plan submitted), given populations and demands, which may be within the CCN of utilities that are WUGs that have submitted separate water management strategies (WMS) for consideration must be resolved. This is seen in several examples where wholesale providers are representing they will serve groups that are shown to be served by their retail provider through another plan. The retail provider has the CCN, and it should be the retail provider's decision as to which plan it endorses for future supply. The rankings and scorings shown do not clearly comply with this logic and some projects in essence "double serve" the need or may achieve the maximum score of 5 in factor 3D for serving multiple WUGs without their agreement.

- Conservation rankings do not seem to reflect common wisdom that it is the cheapest and most reliable source since we already have that water in inventory.

- In Region L water conservation projects generally rate lower than other more traditional water resource projects when subjected to the Regional rating factors. This appears to be because municipal and regional water planning was done in an environment of low expectation for any state funding for such projects. Water Conservation projects are listed, but more as gap fillings between small demand and supply differences than as a primary water supply effort. The projects are smaller, there is less detail provided, and almost no capital costs are listed. The characteristics of water conservation projects that you would have expected to result in high ratings compared to regular water reserve projects – low cost/unit water provided, environmental appropriateness, and fast production of water, are not developed in the plan.

  Water conservation projects involving technology are also in short supply despite the promise of condensate, graywater, automatic meter reading, automatic irrigation controllers, leak detection, high efficiency plumbing, industrial/commercial technology, land leveling, agriculture irrigation technology, irrigation channel improvements, storm water utilization, and other options.

  The 20% reserve for conservation and reuse may help insure that some conservation programs make the cut, but the real challenge is to make sure water conservation projects are fully designed to include large volumes of water production and capital costs in future Regional and State Plans to the same degree as other water resource projects that are eligible for SWIFT consideration

- The issue of water projects that reflect advanced technology vs. those of the simplest nature is worthy of discussion and consideration. In the Region L Plan it appears that water rights transfer and small scale surface water treatment score higher because they are less expensive and faster to produce water. Both characteristics are worthy attributes and it can be argued that those types of projects should receive priority for SWIFT consideration as long as they are still available as options.

There is a question, however, as to whether we shouldn't be providing more encouragement for more innovative projects? The basic question is, "how will the costs and ease of use be improved for more innovative technology if we don't start exploring them before they are absolutely needed?"

The high technology water resource options are the projects that are hardest for local governments and ratepayers to afford, and that is where the SWIFT funding really is needed. Ratepayers can better afford to pay for water right transfers and proven technologies through their rates, then they can afford to pay for the cost of new innovative technologies that are essential for the future of the entire state water supply.

Perhaps there should be more emphasis and scoring weight given to technologies that are likely essential for meeting future demands and technologies where costs are likely to be reduced through the learning that occurs when the technology is tested and improved?

- We shouldn't make it harder for any WMS in our Region. All Regions should play by the same rules regardless how many WMS each have. The weight of the rankings are only 1/11 of the formula the Texas Water Development Board will use so it's almost not worth talking about but the 2016 plan might be different.

- Conservation's Importance Under-Valued: After reviewing the scoring of all 329 recommended WMS, it is apparent that the criterion for conservation strategies does not adequately reflect the value of these strategies. For instance, Criteria 3D gives points to a strategy if it serves multiple WUGs, but each WUG must show conservation individually; therefore the WMS is automatically not getting these points in the scoring. We suggest either that the conservation WMSs be scored separately from the non-conservation strategies, or that the criterion be revised to give the conservation strategies more weight.

- Projects May Double Serve Unmet Needs: In some cases multiple recommended WMS in the plan are targeting the same unmet demands for a specific WUG. The criteria do not adequately discern between a recommended WMS that has a contract obligating the water to specific WUG and a WMS that is purely speculative and does not have a supply contract with specific WUGs in place. This discrepancy should be accounted for in the criteria and resultant scoring of the strategies.

- Ensure prioritization by regional water planning groups are useful and timely: Section 15.436 of the Water Code requires each regional water planning group to prioritize projects in its respective regional water plan. Section 15.437 goes on to require the TWDB, in its prioritization of projects for funding under SWIFT, to consider the priority given the project by the applicable regional planning group. Uniform standards for prioritizing have been developed by the regional planning groups and approved by the TWDB. Each group is in the midst of preparing their draft prioritization of the 2011 regional plans, with a draft of that prioritization due June 1st of this year, and the final prioritization due September 1st.

  The effort, however, is occurring as the 2016 regional water plans are being prepared. Many of the projects in the 2011 plans are already online, have changed substantially, or are outdated for various other reasons, including being shelved by project proponents. This makes the exercise of prioritizing these projects problematic because the rankings are impacted by including projects that are not expected to seek funding for the above reasons, or because they do not have capital costs, but are still required to be ranked. We would urge the TWDB to consider these issues surrounding using the 2011 regional plan rankings when determining how to measure or score that ranking in their deliberations.

- Confirm Accurate Water Audits: Section 15.437 (d)(6) of the Water Code requires the TWDB, in its prioritization of projects for funding under SWIFT, to consider an applicant's water audit and whether it demonstrates that the applicant is accountable with regard to reducing water loss and increasing efficiency in the distribution of water. It is important when considering the audit results of an applicant, that there is some measure of reliability of those results – perhaps, an independent review to make sure the information is accurate. For example, an entity could show little or no water loss, but there are significant problems with the methodology of their audit, as opposed to an entity with a thorough and detailed audit that truly reflects losses and where they occur.

- Simplify Application for Funds: A simplified application process may make it easier for entities to request funding. TWDB uses one application for all their programs. For example, deleting the sections/questions that are required for only the DWSRF and CWSRF (federal drinking and clean water revolving funds) would simplify the application process for the SWIFT. Also, under the Legal Section, if an entity could submit master documents once and then reference those with each subsequent application, it could significantly reduce the amount of paper submitted in the application. Also, in terms of assessing an applicant's financial capacity to repay under the prioritization criteria, using credit rating could be a measure.

- In the WMS prioritization process, each proposed project was assessed individually as to whether it would cause the source of the modeled available groundwater (MAG) to be overdrafted. This method was universally followed for statewide consistency between regional water planning groups. However, the ranking process did not incorporate a means to view which *combinations* of proposed strategies would result in an overdraft of their respective source MAGs. This is an important consideration, given that regional water planning requirements prohibit recommending WMS supply volumes that exceed the modeled available groundwater volumes.

The following comments are specific to the Interpretive Assumptions for Application of Uniform Standards for Prioritization:

- It does not appear that decreases in water availability due to changes in new water rights were considered by the group. Under SB3, a new water right issued under the environmental flow standards may be reduced 12.5% under the adaptive management process.

- Project Feasibility: As noted in the General Comment section above, reductions in new surface water rights under the SB3 adaptive management provisions should be considered.

- Project Sustainability: In Section 4B, under factors that may result in decreases to water supply projects, reductions in new surface water rights due to the SB3 adaptive management provisions should be included.

- Project Sustainability: Also in 4B, under decreases, Drought Management is listed as a factor that results in a decrease to a water supply project. In order to avoid confusion, the term that should be used here is "Drought Restrictions". Drought restrictions such as Critical Period Management restriction on Edwards Aquifer permits do indeed reduce the amount of available supply.

  Drought Management, on the other hand, is a water management strategy that is used by the planning group to increase or extend the water supply for projects, much like Municipal Conservation. Therefore, Drought Management should be listed under factors that increase supplies, alongside Municipal Conservation

AGENDA ITEM 6

Texas Water Development Board Communications

AGENDA ITEM 7

Discussion and Appropriate Action Regarding Consultants Work and Schedule

2016 South Central Texas Regional Water Plan

Proposed Workplan for Development

Tasks	Description	2014 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2015 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Complete																							
Task 1	Planning Area Description																								
Task 2a	Non-Pop. Based Demand Projections																								
Task 2b	Population & Demand Projections																								
Task 3	Water Supply Analyses																								
EAHCP	Implementation																								
TAP	Whooping Crane Lawsuit																								
Task 4	Water Management Strategies																								
Task 4a	Needs Assessment																								
Task 4b	ID Potentially Feasible WMSs																								
Task 4b.1	WMS Verification																								
Task 4c	Technical Memorandum																								
Task 4d	WMS Technical Evaluations		★			★			★																
Task 5	Conservation Recommendations																								
Task 6	Long-term Resource Protection																								
Task 6.1	Cumulative Effects of RWP																								
Task 7	Drought Response Information																								
Task 8	Policies & Recmdtns / Unique Sites																								
Task 9	Infrastructure Funding																								
Task 10	Plan Adoption														★						★				
Task 11	Implement. & Compare to Prv RWPs																								
Task 12a	Prioritization of 2011 WMSs					★																			
Task 12b	Prioritization of 2016 WMSs														★										

Technical Memorandum: *August 1, 2014*

IPP Deadline: May 1, 2015

RWP Deadline: November 2, 2015

Legend:

- ★ *SCTRWPG Action*
- ★ *TWDB Action*
- ↑ *Scheduled SCTRWPG Meeting*
- ↑ *Probable SCTRWPG Meeting*

Potential Issues For The 2016 SCTRWP

August 7, 2014

1) Carrizo Aquifer Workgroup (Status: Recommendation Approved)
   a) Multiple Potentially Feasible Projects Exceed MAG
   b) TWDB will not allow for over-allocation in the 2016 RWP

2) Importing Groundwater from Other Regions (Status: Technical Consultants have initiated discussions regarding Hays County-Forestar Project)

3) Meeting Needs of Formosa (Status: Con Mims has discussed with LNRA)
   a) Coordination with Regions P and N

4) Implementation of TCEQ Estuary Environmental Flow Standards (Status: No documentation from TCEQ; Proceed based on comments with TCEQ)

5) Population and/or Water Demand Projections Revisions (Status: Finished)

6) Eagle-Ford Shale Demands – Direct, Indirect, and Induced (Status: Finished)

7) Whooping Crane Litigation (Status: District Court Decision Reversed by 5th Circuit Court of Appeals on 6/30/14; On 7/28/14, TAP appealed to 5th Circuit seeking remand to District Court)

8) Meeting Steam-Electric Needs in Victoria County (Status: GBRA to meet the Need; WMS for your consideration)

9) Inter-Regional Coordination (e.g. SAWS Competitive Sealed Proposals) (Status: To Be Evaluated for Regional Water Plan)

10) Legislation (Status: Legislative Session Ended; Responding to legislation adopted in 2013; New Session begins January 2015)

AGENDA ITEM 8

Discussion and Appropriate Action Regarding Evaluation of Potentially Feasible Water Management Strategies (Task 4B), Draft Scopes of Work and Budgets for Submittal to Texas Water Development Board and Inclusion into Planning Contract, Texas Water Development Board Contract No. 1148301323

TASK 4D
WATER MANAGEMENT STRATEGIES
Scope and Budget #6

Perform Technical Evaluations including Cost Estimates

Perform technical evaluations, including cost estimates and documentation, of the following water management strategies (WMS) to be consistent with current projections of water supply needs and facilities planning pursuant to TWDB rules and guidance. Work effort involves coordination with sponsoring water user group(s), wholesale water provider(s), and/or other resource agencies regarding projected needs, planned facilities, costs of water supply, endangered or threatened species, etc. Work effort includes cost estimates and supporting documentation to reflect the September 2013 cost basis for the 2016 regional water plans pursuant to TWDB guidance.

SAWS Seawater Desalination $10,800

Update technical evaluations for the Seawater Desalination water management strategy to be consistent with current projections of water supply needs and facilities planning pursuant to TWDB rules and guidance. Coordinate with the San Antonio Water System (SAWS) in order to be consistent with their Water Supply Plan regarding this WMS with technical focus on available information regarding water treatment technology and plant location, off-shore brine disposal, pipeline route, and transmission capacity. Estimate cost of project and document in the technical evaluation.

Victoria County Steam-Electric $8,800

Update technical evaluations for the Victoria County Steam-Electric water management strategy (formerly the GBRA-Exelon Project) to be consistent with current projections of water supply needs and facilities planning pursuant to TWDB rules and guidance. Work effort involves coordination with GBRA and others regarding changed conditions in terms of projected needs, planned facilities, costs of water supply, endangered or threatened species, etc. Update cost estimate of project focusing on available information from the 2011 Region L Water Plan and document in the technical evaluation.

Total = $19,600
Previously Authorized (May, Aug, & Nov 2013 and Feb & May 2014) = $448,650
Grand Total = $468,250

Total Task 4D Budget = $509,904
Budget Left To Be Allocated = $41,654

Previously Authorized	**Amount**
Edwards Aquifer Habitat Conservation Plan (EA HCP)	$5,800
Water Conservation	$8,950
Drought Management	$8,950
Recycled Water Program Expansion & Amendment	$6,700
Local Groundwater	$19,900
Surface Water Rights	$4,100
Facilities Expansions	$4,700
Balancing Storage (ASR and/or Surface)	$4,100
Wells Ranch – Phase 2 (CRWA and Others)	$12,200
Brackish Wilcox for CRWA (Formerly Brackish Wilcox for the RWA)	$12,200
Hays/Caldwell PUA – Phases 1 & 2 (San Marcos, Buda, Kyle, CRWA)	$21,600
CRWA Siesta Project (CRWA)	$14,500
Brackish Wilcox for SAWS	$17,400
Expanded Local Carrizo – Bexar County (SAWS)	$14,000
Brackish-Wilcox, Gonzales County (SSLGC)	$13,250
Texas Water Alliance Carrizo Well Field, Gonzales County (TWA)	$18,100
Carrizo-Wilcox Aquifer, Wilson County (Cibolo Valley Local Government Corporation)	$18,600
GBRA Mid-Basin Project and Alternatives (GBRA)	$10,900
GBRA Lower Basin Off-Channel Reservoir (GBRA)	$18,900
GBRA Lower Basin New Appropriation (GBRA)	$19,100
Water Resources Integration Pipeline (SAWS)	$5,400
Advanced Meter Infrastructure (SAWS)	$3,000
Integrated Water-Power Project (GBRA)	$11,400
Luling ASR (GBRA)	$13,500
New Braunfels ASR Project (NBU)	$12,200
New Braunfels Trinity Well Field (NBU)	$10,000
TWA Trinity Well Field/Western Comal Project/Upper Cibolo Valley Project	$10,000
Edwards Transfers	$14,400
Purchase from WWP	$15,000
Expansion Carrizo-Wilcox Aquifer, Guadalupe Co (SSLGC)	$10,900
Lavaca River Off-Channel Reservoir	$7,900
Brackish Wilcox Groundwater for SS WSC	$10,000
Carrizo Transfers	$3,500
Brush Management	$10,600
Hays County-Forestar Water	$11,500
Regional Brackish Wilcox Project – Alternative WMS (SAWS)	$7,800
Carrizo/Buda/Austin Chalk/Leona & Regional ASR (City of Uvalde)	$9,500
Vista Ridge Project (SAWS)	$10,200
Storage Above Canyon Reservoir (ASR)	$9,200
Hays/Caldwell PUA – TWA Joint Project	$8,700
Total for Previously Authorized	**$448,650**

AGENDA ITEM 9

Discussion and Appropriate Action Regarding Authorizing Administrator to Submit Request for Notice-to-Proceed for Evaluation of Water Management Strategies and Authorize Administrator to Execute Contract Amendment with Texas Water Development Board

AGENDA ITEM 10

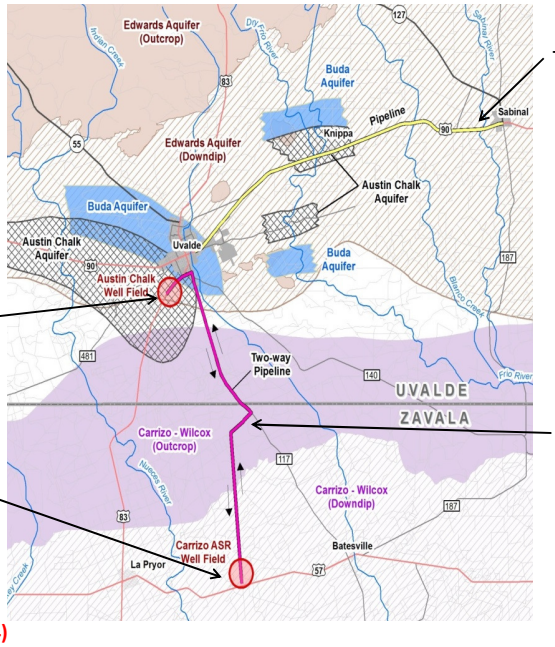
Discussion and Appropriate Action Regarding Identification of Potentially Feasible Water Management Strategies (WMSs) (Task 4B), Draft Scopes of Work and Budgets for Consideration at the Next South Central Texas Regional Water Planning Group Meeting

AGENDA ITEM 11

Discussion and Appropriate Action Regarding Evaluation and Recommendation of Water Management Strategies (Task 4D)

Uvalde ASR as WMS

(Based on Region L Analyses)



Transmission Pipeline

Austin Chalk Well Field 2-725 gpm Production Wells

Two-Way Transmission Pipeline

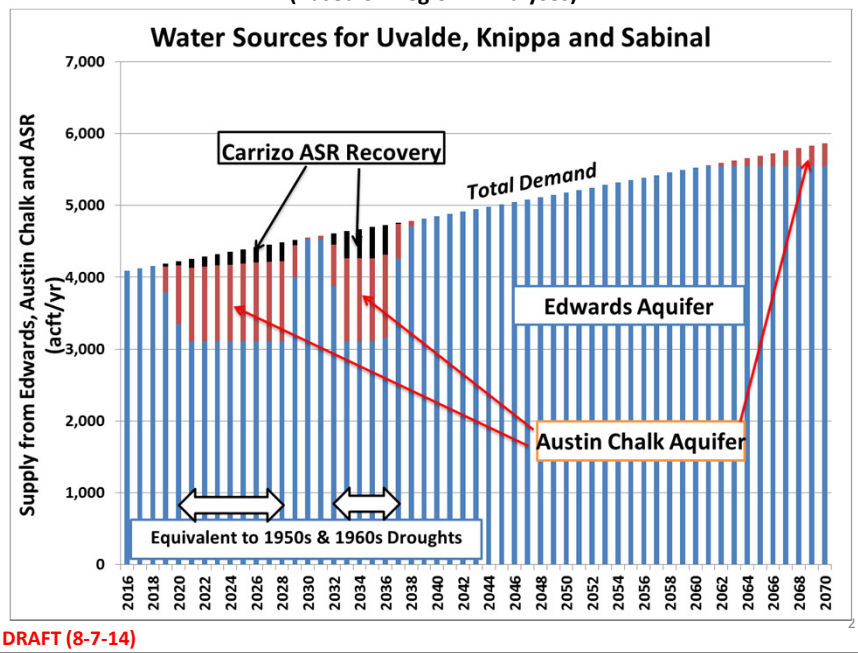
Carrizo ASR Well Field 3-500 gpm ASR Wells

DRAFT (8-7-14)

1

Uvalde ASR as WMS

(Based on Region L Analyses)



DRAFT (8-7-14)

2

Uvalde ASR Project

- **Purposes and Objectives**
  - Supplemental water supplies during Edwards Aquifer pumping restrictions
  - Meet seasonal demands when restrictions are active
  - Meet growth in water demands to towns of Knippa and Sabinal
  - Water security
- **Target Aquifers and Estimated Well Capacities**
  - Water Source: Austin Chalk Aquifer in Uvalde County
    - Up to 850 gpm
  - Water Storage: Carrizo in Zavala County:
    - Up to 750 gpm

DRAFT (8-7-14)

3

Uvalde ASR Project

- **Facilities (Envisioned): 4,000 acft/yr (PF = 2.0)**
  - 28-mile, 24-inch two way pipeline
  - 17-mile, 10-inch transmission pipeline
  - 11-mile, 6-inch transmission pipeline
  - 3.6 & 3.8 MGD WTPs
  - 4 Austin Chalk wells (850 gpm)
  - 5 ASR wells (800 gpm)
- **Facilities (MAG Limited): 1,155 acft/yr (PF = 2.0)**
  - 20-mile, 14-inch two way pipeline
  - 10.5-mile, 10-inch transmission pipeline
  - 11-mile, 6-inch transmission pipeline
  - 4.6 MGD WTP
  - 2 Austin Chalk wells (725 gpm)
  - 3 ASR wells (500 gpm)

DRAFT (8-7-14)

4

Current ASR Legal and Regulatory Issues

- **TCEQ:**
  - Underground Injection Control (UIC), Class V Injection Well Permit
- **EAA:**
  - Edwards Aquifer cannot be exported outside EAA boundary
- **Uvalde County Underground Conservation District:**
  - Groundwater supply from Austin Chalk Aquifer is limited to a MAG of 1,155 acft/yr
  - No current rules for drought restrictions
- **Wintergarden Conservation District:**
  - Permits must be obtained for long-term storage of up to 10,000 acft.

DRAFT (8-7-14)

5

Uvalde ASR as WMS

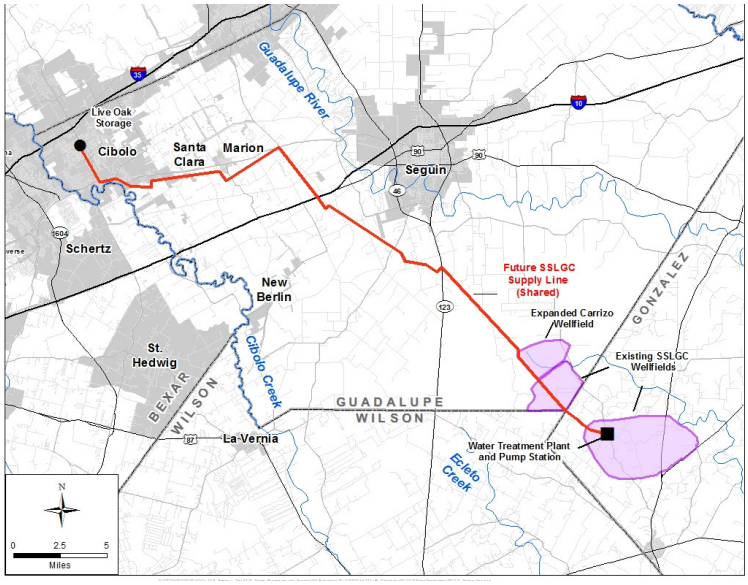
(Based on Region L Analyses)

Type	Envisioned	MAG Limited
Capital Costs	$41,134,000	$21,308,000
Project Costs	$60,077,000	$32,402,000
Annual Costs	$6,515,000	$3,238,000
Project Yield (acft/yr)	4,000	1,155
Unit Costs ($/acft/yr)	$1,629	$2,803

DRAFT (8-7-14)

6

Expanded Carrizo for SSLGC



Potential Customers:
- Seguin
- Schertz
- Selma
- Universal City

DRAFT (8-7-14)

1

SSLGC & CVLGC
Future Shared Facilities

- 3 WMSs to Share 42-inch, 37-mile Transmission Pipeline
  - CVLGC Carrizo (0 to 10,000 acft/yr)
  - Expanded Carrizo for SSLGC (6,500 acft/yr)
  - Brackish Wilcox for SSLGC (1,278 to 5,000 acft/yr)
- Transmission pipeline to parallel existing SSLGC pipeline

DRAFT (8-7-14)

2

Expanded Carrizo for SSLGC

- Source and Supply:
  - Carrizo groundwater from Guadalupe County
  - Envisioned project size= 6,500 acft/yr
  - Delivery point: Shared use of future SSLGC expansion Pipeline to Live Oak storage tank
- Facilities:
  - Peaking factor = 1.25
  - 11 wells with average flow of 500 gpm
  - Well collection pipelines and pumps
  - Expanded WTP at well site in Gonzales County 7.3 additional MGD and pipeline to WTP
  - Share of 42”- 37 mile future SSLGC transmission pipeline (30” pipe to intersection with CVLGC Connection)

DRAFT (8-7-14)

3

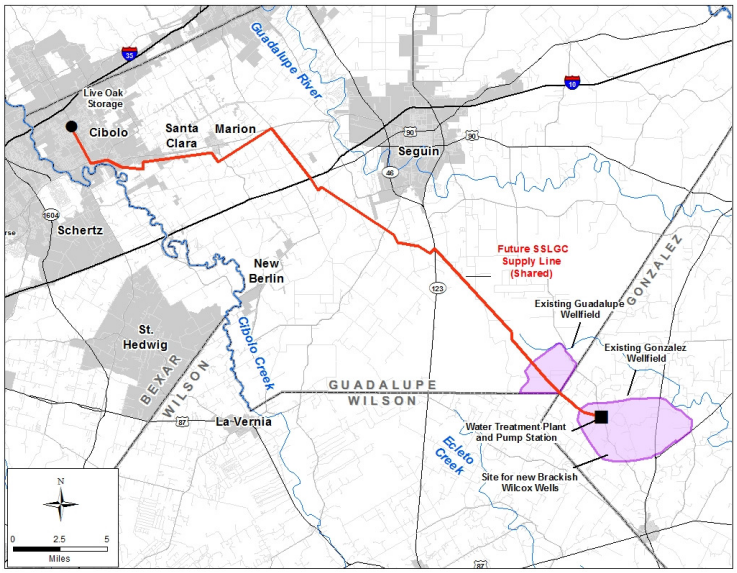
Expanded Carrizo for SSLGC

	Envisioned Project
Capital Costs	$44,073,000
Project Costs	$61,209,000
Annual Costs	$8,054,000
Project Yield (acft/yr)	6,500
Unit Costs ($/acft/yr)	$1,239

DRAFT (8-7-14)

4

Brackish Wilcox for SSLGC



Potential Customers:

- Seguin
- Schertz
- Selma
- Universal City

DRAFT (8-7-14)

1

SSLGC & CVLGC
Future Shared Facilities

- 3 WMSs to Share 42-inch, 37-mile Transmission Pipeline
  - CVLGC Carrizo (0 to 10,000 acft/yr)
  - Expanded Carrizo for SSLGC (6,500 acft/yr)
  - Brackish Wilcox for SSLGC (1,278 to 5,000 acft/yr)
- Transmission pipeline to parallel existing SSLGC pipeline

DRAFT (8-7-14)

2

Brackish Wilcox for SSLGC

- Source and Supply:
  - Brackish Wilcox groundwater from Gonzales County
  - Envisioned project firm yield = 5,000 acft/yr (5,556 acft/yr pumped)
  - MAG-Limited project firm yield = 1,278 acft/yr (1,392 acft/yr pumped)
  - Delivery point: Shared use of future SSLGC expansion pipeline to Live Oak Storage Tank
- Facilities:
  - Peaking factor = 1.25
  - Well collection pipelines and pumps
  - Expanded WTP at well site in Gonzales County and new desalination WTP
  - Share of 42”- 37 mile future SSLGC transmission pipeline (30” pipe to intersection with CVLGC Connection)
- Wellfield:
  - 6 wells with average flow of 800 gpm (Envisioned)
  - 3 wells with average flow of 800 gpm (MAG- Limited)
  - 1 injection well with average flow of 400 gpm

3

DRAFT (8-7-14)

Brackish Wilcox for SSLGC

- **Groundwater Availability:**
  - For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

4

DRAFT (8-7-14)

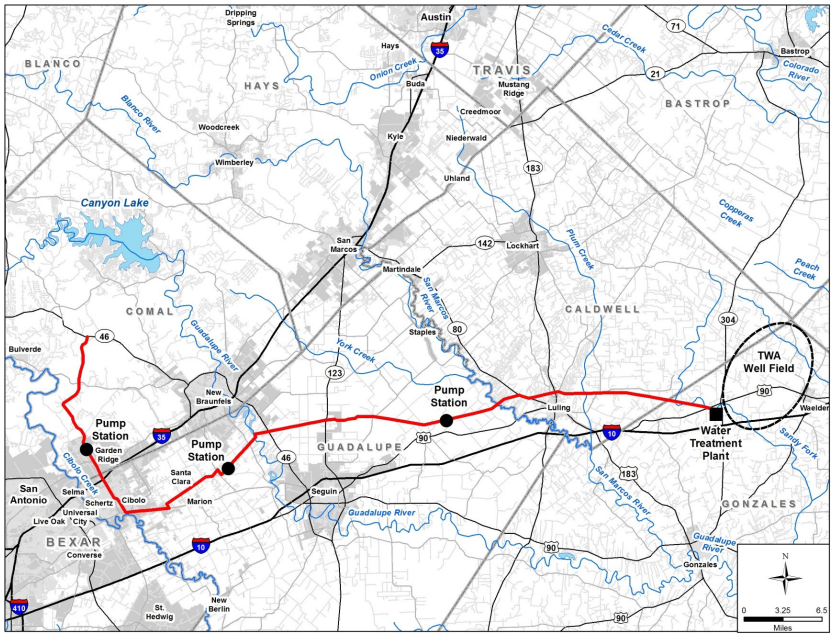
Brackish Wilcox for SSLGC

	Envisioned Project	MAG Limited Project
Capital Costs	$48,249,000	$37,582,000
Project Costs	$66,759,000	$51,239,700
Annual Costs	$10,842,000	6,799,000
Project Yield (acft/yr)	5,000	1,278
Unit Costs ($/acft/yr)	$2,168	$5,328

DRAFT (8-7-14)

5

TWA Carrizo Well Field Project



1

DRAFT (8-7-14)

TWA Carrizo Well Field Project

- Source and Firm Supply (15,000 acft/yr):
  - 15,000 acft/yr permitted from Carrizo Aquifer in Gonzales County through the Gonzales County Underground Water Conservation District (GCUWCD)
  - MAG Limited Supply = 14,680 acft/yr
- Facilities (1.5 peaking factor):
  - 15 production wells (1073 gpm)
  - Water Treatment Plant (20.1 MGD)
  - 77 mile, 30-IN to 36-IN diameter finished water pipeline
  - two delivery locations and potential for tie-ins along the route
- Customers include: GCWSC, Springs Hill WSC, CLWSC

2

DRAFT (8-7-14)

TWA Carrizo Well Field Project

- **Groundwater Availability:**
  - For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

3

DRAFT (8-7-14)

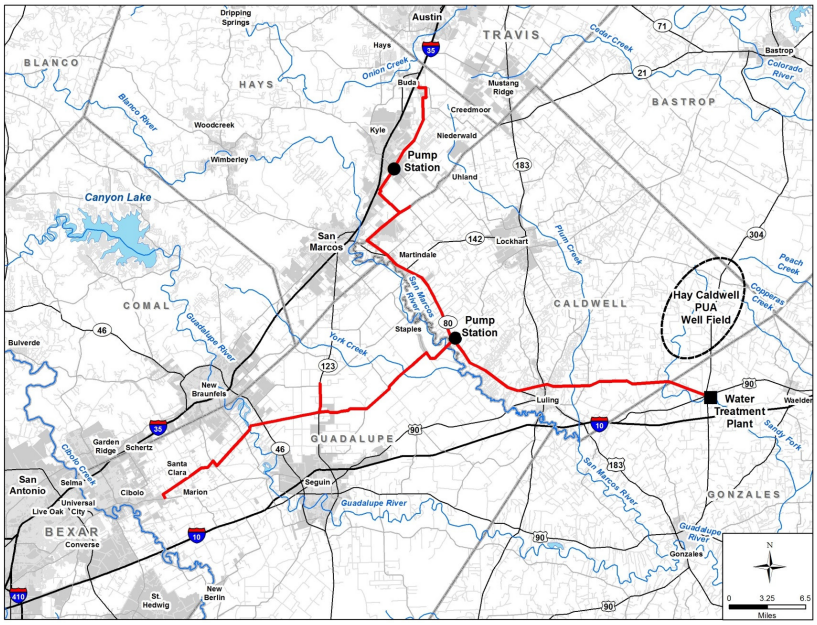
TWA Carrizo Well Field Project Costs

	Envisioned Project	MAG-Limited Project
Capital Costs	$173,368,000	$173,368,000
Project Costs	$279,632,000	$279,632,000
Annual Costs	$36,601,000	$36,546,000
Yield (acft/yr)	15,000	14,680
Unit Costs ($/acft)	$2,440	$2,490

4

DRAFT (8-7-14)

HCPUA – Phases 1 & 2



DRAFT (8-7-14)

1

HCPUA – Phases 1 & 2 (Envisioned)

- Source and Firm Supply (35,690 acft/yr):
  - Phase 1 = 15,690 acft/yr; Phase 2 = 20,000 acft/yr
  - 10,300 acft/yr permitted from Carrizo Aquifer in Caldwell County from the Gonzales County Underground Water Conservation District (GCUWCD)
  - Phase I & II supplies includes additional 25,390 acft/yr groundwater from GCUWCD and Plum Creek in Caldwell and Gonzales Counties
- Facilities (1.5 Peaking Factor):
  - 20 production wells (1600 gpm – 2910 gpm)
  - 91 miles of 54-IN to 8-IN diameter finished water pipeline
  - Water Treatment Plant (47.8 MGD)
  - Multiple delivery locations and potential for tie-ins along the route

DRAFT (8-7-14)

2

HCPUA – Phases 1 & 2 (MAG Limited)

- Source and Firm Supply (21,833 acft/yr):
  - Phase 1 = 15,690 acft/yr; Phase 2 = 6,143 acft/yr
  - 10,300 acft/yr permitted from Carrizo Aquifer in Gonzales County Underground Water Conservation District (GCUWCD)
  - Phase II supplies includes additional 11,533 acft/yr groundwater from GCUWCD and Plum Creek in Caldwell County
- Facilities (1.5 Peaking Factor):
  - 12 production wells (1600 gpm – 2910 gpm
  - 91 miles of 42-IN to 8-IN diameter finished water pipeline
  - Water Treatment Plant (29.2 MGD)
  - Multiple delivery locations and potential for tie-ins along the route

DRAFT (8-7-14)

3

HCPUA – Phases 1 & 2

- **Groundwater Availability:**
  - For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

DRAFT (8-7-14)

4

HCPUA – Phases 1 & 2 Customers

	Envisioned Project (acft/yr)	MAG-Limited Project (acft/yr)
Buda	4,033	2,467
Kyle	6,937	4,244
Maxwell WSC	100	0
County Line SUD	570	570
San Marcos	9,000	5,506
Martindale WSC	50	50
Crystal Clear SUD	5,000	4,498
CRWA	10,000	4,498
Total	35,690	21,833

DRAFT (8-7-14)

5

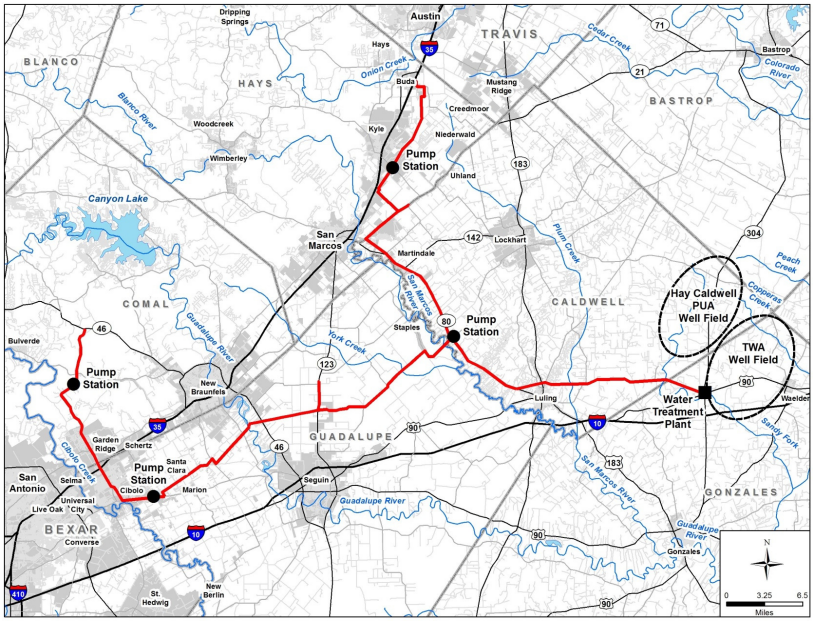
HCPUA – Phases 1 & 2 Costs

	Envisioned Project	MAG-Limited Project
Capital Costs	$271,008,000	$198,451,000
Project Costs	$415,405,000	$309,723,000
Annual Costs	$59,381,000	$42,050,000
Yield (acft/yr)	35,690	21,833
Unit Costs ($/acft)	$1,664	$1,926

DRAFT (8-7-14)

6

HCPUA + TWA Joint Project



DRAFT (8-7-14)

1

TWA + HCPUA Joint Project (Envisioned)

- Sources and Firm Supply (50,690 acft/yr):
  - 35,690 acft/yr from HCPUA Wellfield, Carrizo Aquifer in GCUWCD and Plum Creek
  - 15,000 acft/yr from TWA Wellfield, Carrizo Aquifer in GCUWCD
- Facilities (1.5 peaking factor):
  - 35 production wells (1073 gpm – 2910 gpm)
  - Water Treatment Plant (68 MGD)
  - 3 mile 42-IN diameter raw water pipeline
  - 112 mile, 8-IN to 60-IN diameter finished water pipelines
  - Multiple delivery locations and potential for tie-ins along the route

DRAFT (8-7-14)

2

TWA + HCPUA Joint Project (MAG Limited)

- Sources and Firm Supply (36,513 acft/yr):
  - 21,833 acft/yr from HCPUA Wellfield, Carrizo Aquifer in GCUWCD and Plum Creek
  - 14,680 acft/yr from TWA Wellfield, Carrizo Aquifer in GCUWCD
- Facilities (1.5 peaking factor):
  - 27 production wells (1073 gpm – 2910 gpm)
  - Water Treatment Plant (48.9 MGD)
  - 3 mile 42-IN diameter raw water pipeline
  - 112 mile, 8-IN to 48-IN diameter finished water pipelines
  - Multiple delivery locations and potential for tie-ins along the route

DRAFT (8-7-14)

3

TWA + HCPUA Joint Project

- **Groundwater Availability:**
  - For each aquifer in the region, the GCDs have adopted desired future conditions (DFCs). In some GCDs, full use of all groundwater supplies (permitted, grandfathered and exempt) may result in non-achievement of the DFCs for an aquifer. To ensure consistency with the DFCs, TWDB currently requires that groundwater availability for each aquifer be limited for planning purposes to the modeled available groundwater (MAG) for the aquifer. This has resulted, for planning purposes only, in adjustments to permit amounts, and a lack of firm water available for future permits in this plan for some areas for certain time periods. This should not be construed as recommending or requiring that GCDs make these adjustments, or deny future permit applications. SCTRWPG recognizes and supports the ability of permit holders to exercise their rights to groundwater use in accordance with their permits and it recognizes and supports the GCDs discretion to issue permits and grandfather historical users for amounts in excess of the MAG. SCTRWPG may not modify groundwater permits that GCDs have already issued or limit future permits that GCDs may issue. If the MAG is increased during or after this planning cycle, SCTRWPG may amend this Plan to adjust groundwater supply numbers that are affected by the new MAG amount.

DRAFT (8-7-14)

4

TWA + HCPUA Joint Project Customers

	Envisioned Project (acft/yr)	MAG-Limited Project (acft/yr)
Buda	4,033	3,312
Kyle	6,937	5,698
Maxwell WSC	100	0
County Line SUD	570	570
San Marcos	9,000	7,391
Martindale WSC	50	50
Crystal Clear SUD	5,000	4,214
CRWA	15,000	8,074
Canyon Lake WSC	5,000	3,602
WTP	5,000	3,602
Total	50,690	36,513

DRAFT (8-7-14)

5

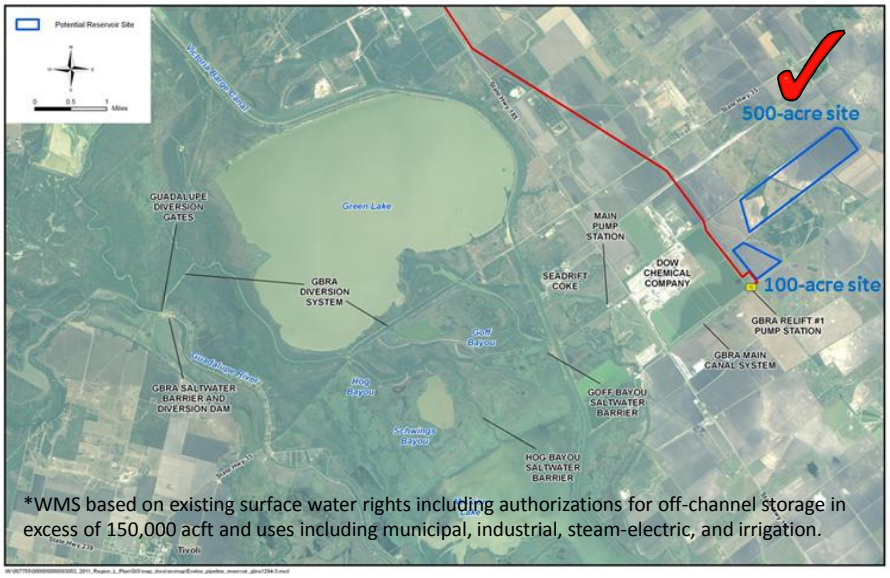
TWA + HCPUA Joint Project Costs

	Envisioned Project	MAG-Limited Project
Capital Costs	$387,385,000	$306,993,000
Project Costs	$623,130,000	$501,370,000
Annual Costs	$88,009,000	$68,836,000
Yield (acft/yr)	50,690	36,513
Unit Costs ($/acft)	$1,736	$1,885

DRAFT (8-7-14)

6

GBRA Lower Basin Storage*



*WMS based on existing surface water rights including authorizations for off-channel storage in excess of 150,000 acft and uses including municipal, industrial, steam-electric, and irrigation.

1

DRAFT (8-7-14)

GBRA Lower Basin Storage
2016 Region L Water Plan

- **Facilities:**
  - 12,500 acft off-channel reservoir (~500 acres)
  - Canal intake and pump station (34 MGD, ~50 cfs)
  - ~3 miles of 42-IN inlet pipeline w/appurtenant works
  - ~3 miles of 72-IN outlet pipeline w/appurtenant works
- **Source:** Guadalupe River under existing GBRA/Dow surface water rights and storage authorization
- **Firm Yield:**
  - With Region L Base effluent = ~75,400 acft/yr
  - Without effluent = ~51,800 acft/yr
  - Raw Water at Reservoir

2

DRAFT (8-7-14)

GBRA Lower Basin Storage
2016 Region L Water Plan

	Region L Base Effluent	No Effluent
Capital Costs*	$61,647,000	$61,647,000
Project Costs*	$90,543,000	$90,543,000
Annual Costs*	$7,261,000	$7,261,000
Project Yield (acft/yr)	75,400	51,800
Unit Costs* ($/acft/yr)	$96	$140

* Costs for raw water at GBRA Main Canal.

3

DRAFT (8-7-14)

AGENDA ITEM 12

Discussion and Appropriate Action Regarding Solicitation of Written Approval of the Guadalupe-Blanco River Authority's (GBRA) Lower Basin Storage Project Proposed Substitution by the Texas Water Development Board Executive Administrator (EA)

GBRA Lower Basin Storage Requested Amendment of the 2011 Region L Water Plan

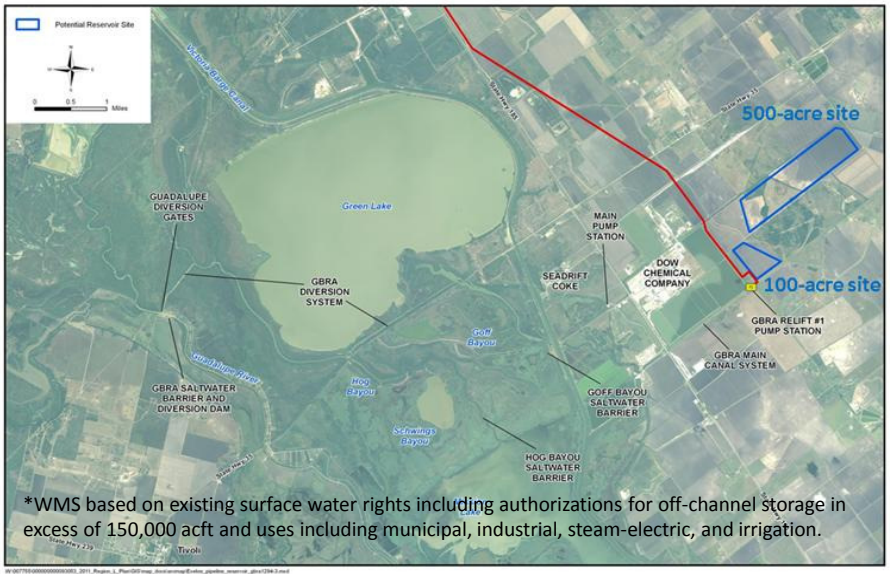
- **2011 Region L Water Plan:**
  - Recommended WMS = "100-acre site" w/ capacity of 2,500 acft and yield of 28,369 acft/yr @ $104/acft/yr for raw water in the reservoir and/or GBRA Main Canal to meet municipal, industrial, steam-electric, and/or other needs
  - Alternative WMS = "500-acre site" w/ capacity of 12,500 acft and yield of 59,569 acft/yr @ $109/acft/yr for raw water in the reservoir and/or GBRA Main Canal to meet municipal, industrial, steam-electric, and/or other needs
- **Requested Amendment:**
  - Substitution of "500-acre site" as the Recommended WMS as it capable of meeting the same water needs

** Raw Water at Reservoir*

DRAFT (8-7-14)

1

GBRA Lower Basin Storage*



*WMS based on existing surface water rights including authorizations for off-channel storage in excess of 150,000 acft and uses including municipal, industrial, steam-electric, and irrigation.

DRAFT (8-7-14)

2

GBRA Lower Basin Storage Requested Amendment of the 2011 Region L Water Plan

- **August 7, 2014 GBRA Request of the SCTRWPG:**
  - Discussion and appropriate action regarding solicitation of written approval of the requested substitution by the TWDB Executive Administrator
- **November 6, 2014 GBRA Request of the SCTRWPG:**
  - Discussion and appropriate action regarding amendment of the 2011 Region L Water Plan by substitution of the "500-acre site" as the Recommended GBRA Lower Basin Storage WMS during a noticed public meeting (assuming TWDB written approval of the requested substitution is timely received)

DRAFT (8-7-14)

3

AGENDA ITEM 13

Discussion and Appropriate Action Regarding Solicitation of the Determination of the Guadalupe-Blanco River Authority's Integrated Water Power Project Proposed Minor Amendment by the Texas Water Development Board Executive Administrator

GBRA Integrated Water Power Project (IWPP) Requested Amendment of the 2011 Region L Water Plan

- **Requested Amendment:**
  - Addition of a seawater desalination Water Management Strategy co-located with a power generation facility in Calhoun County, capable of delivering up to 100,000 acft/yr of treated water
  - GBRA seeks a minor amendment to the 2011 SCTRWP

DRAFT (8-7-14)

1

GBRA IWPP – Minor Amendment Determination

Per TWDB rules for regional water planning, an amendment is minor if it meets the following criteria:

A. "Does not result in over-allocation of an existing or planned source of water"
- GBRA intends to divert seawater from the Gulf of Mexico. This source will not be over-allocated.

B. "Does not relate to a new reservoir"
- The project does not include a new reservoir.

C. "Does not have a significant effect on instream flows, environmental flows, or freshwater inflows to bays and estuaries"
- Given that the source water is Gulf of Mexico seawater, the project will not have an effect on instream flows, environmental flows or freshwater inflows.

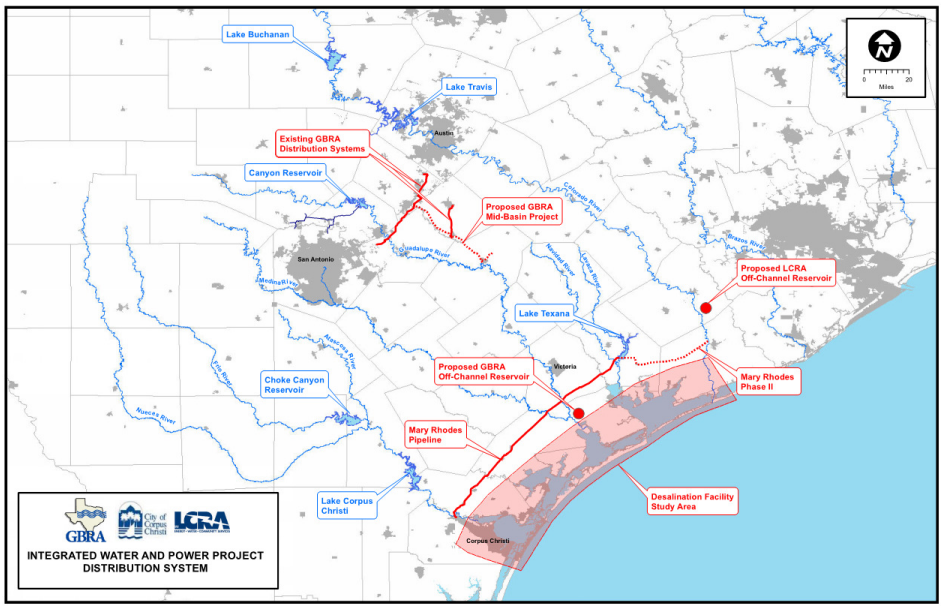
D. "Does not have a significant substantive impact on water planning or previously adopted management strategies"
- Addition of this WMS does not impact water planning or previously adopted WMSs.

E. "Does not delete or change any legal requirements of the plan"
- Inclusion of this WMS will not delete or change any legal requirement of the plan.

DRAFT (8-7-14)

2

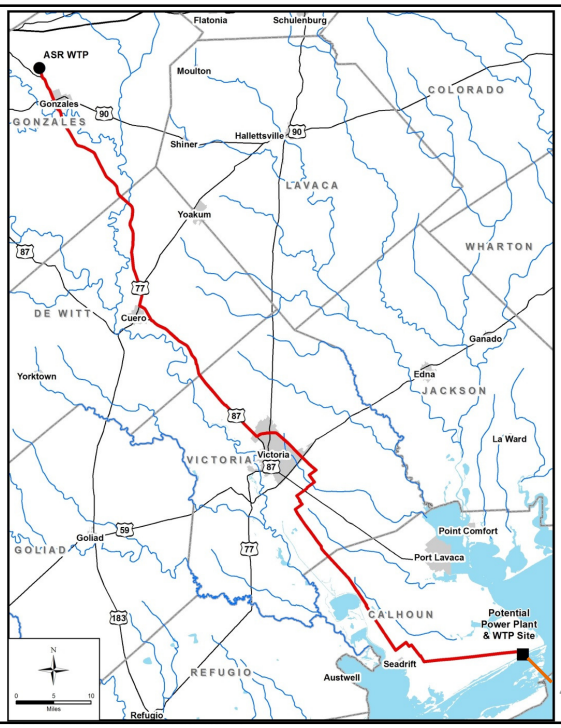
GBRA IWPP – Minor Amendment to 2011 SCTRWP



3

DRAFT (8-7-14)

GBRA IWPP – Minor Amendment to the 2011 SCTRWP



4

DRAFT (8-7-14)

GBRA IWPP – Minor Amendment to 2011 SCTRWP

- GBRA has an on-going study with MWH
- Source and Supply:
  - Seawater from the Gulf of Mexico
  - Total Envisioned Project Size = 100,000 acft/yr
    - 50,000 acft/yr available in Calhoun County
    - 50,000 acft/yr delivered to Gonzales County
  - Delivery point: Mid-Basin WSP ASR WTP
- Facilities:
  - Peaking Factor = 1.0
  - Off-Shore Intake and 78-inch, 10-mile Pipeline to WTP near Port O'Connor
  - 98.2 MGD Reverse Osmosis WTP
  - 54-inch, 141-mile Transmission Pipeline
  - Pump Station/Booster Stations
  - 24-inch, 10 mile Concentrate Pipeline with Multiport Diffuser Off-Shore

DRAFT (8-7-14)

5

GBRA IWPP – Minor Amendment to 2011 SCTRWP

	GBRA IWPP
Capital Costs	$795,863,000
Project Costs	$1,181,020,000
Annual Costs	$185,208,000
Project Yield (acft/yr)	100,000 (50,000 in Calhoun; 50,000 delivered to Gonzales)
Unit Costs* ($/acft/yr)	$1,852

**Note: Costs in September 2008 dollars, per the 2011 SCTRWP*

DRAFT (8-7-14)

6

GBRA IWPP
Requested Amendment of the 2011 Region L Water Plan

- **August 7, 2014 GBRA Request of the SCTRWPG:**
  - Discussion and appropriate action regarding solicitation of determination of amendment status by the TWDB Executive Administrator
- **November 6, 2014 GBRA Request of the SCTRWPG:**
  - Discussion and appropriate action regarding amendment of the 2011 Region L Water Plan to include the GBRA IWPP WMS during a noticed public meeting (assuming TWDB written approval of the requested amendment is timely received)

DRAFT (8-7-14)

7

AGENDA ITEM 14

Possible Agenda Items for the Next South Central Texas Regional Water Planning Group Meeting

AGENDA ITEM 15

Public Comment