

REGION C WATER PLANNING GROUP

Senate Bill One Third Round of Regional Water Planning - Texas Water Development Board

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February 14, 2007

Mr. Bill Mullican
Texas Water Development Board
P.O. Box 13231
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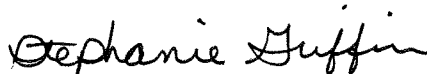
Dear Mr. Mullican:

Freese and Nichols received the questions and request for clarifications from the Texas Water Development Board at the end of the day on Monday, February, 12, 2007. David requested that responses to as many of these questions as possible be provided to him by February 14, 2007.

After reviewing the questions, I believe that the Region C Water Planning Group needs to meet before we can develop responses to some of them. I am coordinating schedules to establish a date for a planning group meeting. The responses that we can provide at this time are attached.

Following the Region C Water Planning Group meeting, I will provide additional answers and clarifications for the remaining items. The Region C Water Planning Group appreciates the opportunity to provide the additional information you need in order to fund the studies that will help bring the water management strategies recommended in the *2006 Region C Water Plan* closer to fruition.

Sincerely,



for
James M. Parks
Chairman, Region C Water Planning Group

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**Region C Additional Information for Contract SOW
with Region C Initial Responses**

The Texas Water Development Board comments/questions are shown in **bold** below and the Region C Water Planning Group's initial response is shown in regular font.

General scope of work questions/comments for all staff-recommended projects:

- Please identify milestone deliverables during the timeline of study. At a minimum, quarterly reports should be submitted to the TWDB and Region C Planning Group giving a status of each subtask.**

Region C will provide a list of milestone deliverables with the revised scope of work. Quarterly reports on the status of the projects will be provided to the Region C Water Planning Group and to the Texas Water Development Board.

- Please provide cost estimates for the subtasks within the projects.**

The cost estimates for the subtasks of Projects 1, 3, 5, 6, and 7 are attached. Final cost estimates will be provided with the final scope of services.

- The task scope of work and deliverables must be developed according to applicable TWDB guidelines (Exhibit B document for the 2006 regional water plans). If any water management strategies are reviewed and altered based partially or wholly on population or water demand projections different from those in the state water plan, those alternative projections will meet the criteria and data requirements for revision in the regional water plan, as described in forthcoming guidance (similar to the revision guidance for the 2001 regional plans).**

Region C will follow applicable TWDB guidelines in any revisions to approved population and demand projections. The Region C projects being funded at this time do not include revisions to approved population or demand projections. Any population or demand projection information that is gathered will be useful if revisions are sought at a later time or in the next biennium of regional water planning.

Project 1: Evaluate the Performance and Further Develop Implementation of Water Conservation Strategies, Including Reuse (\$298,800)

- 1.1 Please specify whether the reuse projects and data analyzed will be direct reuse, indirect reuse or both. Task E.8 specifies direct reuse.**

The reuse projects will include both direct and indirect, except where otherwise stated. (The referenced Task E.8 should be Task C.8) Task C.8 will only involve direct reuse projects.

1.2 The initial detailed scope of work includes determining public reaction to the BMPs implemented (A.2). Please specify how this will be done.

The public reaction will be based on the water provider survey responses we receive as part of Task A.

1.3 The initial detailed scope of work includes gathering and analyzing water use information (A.6 and C.1). Please specify where this data will be obtained from; TWDB or the individual entities? If the data will be gathered from the individuals, please submit this data in the final report.

The data will be obtained from the water provider survey responses we receive. The information obtained from water providers will be included as an appendix or attachment to the final report.

1.4 How might this project (specifically task E.8 and E.9) overlap or intersect with Project 6 in regards to the reuse projects studied? Please specify.

(The referenced Task E.8 and E.9 should be Task C.8 and Task C.9.) Project 1, Task C, Item 8. The Region C Plan identifies a large number of direct reuse projects that will provide significant quantities of water to meet the regions water demands. This planning task will select up to five projects, excluding City of Fort Worth projects, for review and analysis. The examination of these projects will assess progress being made on the implementation of the projects, the strategies used to achieve implementation, the obstacles encountered during implementation, and a perspective about achieving the objectives set forth in the Region C Plan. Information developed from the examination of these projects will be beneficial in assessing the probable impact of the performance of the planned direct reuse projects on the Region C Plan.

Project 1, Task C, Item 9. The Region C Plan identifies several major projects that involve augmentation of potable water supply with reuse water. Several of the planned projects either have or are in the process of obtaining water right permits. This planning task will select up to five projects, excluding the Athens project, for review and analysis. The examination of the augmentation projects will assess progress being made on the implementation of the projects, the strategies used to achieve implementation, the obstacles encountered during implementation, and a perspective about achieving the objectives set forth in the Region C Plan. Information developed from the examination of these projects will be beneficial in assessing the probable impact of the performance of the planned augmentation projects on the Region C Plan.

Project 3: Additional Yield from Existing Reservoirs (\$141,200)

3.1 Since this proposed work involves coordination with Region D, staff recommends that Region D's Task 1 (Alternatives to Meet Future Water Demands) be fully funded, and be incorporated with this task as a joint interregional task. We propose that both regions jointly develop a detailed scope of work for the joint task including which consultants will perform each

subtask and how regional coordination will occur. The revised scope of work will be submitted to TWDB for review and must receive approval from the Executive Administrator before initiating work. The scope of work for this cooperative task will be included in the contract for each region.

We will discuss this comment at the next Region C Water Planning Group meeting. If the planning group approves, we will work with Region D and its consultants to develop and approve a joint scope of services. Please be aware that our original budget did not include Region D expenditures and that the revised joint task is likely to have a higher budget than previously submitted. We will provide a revised budget, including deliverables and a timeline, for this project with the revised scope of services.

3.2 Subtask B - Assumptions for WAM revisions shall be approved by TWDB prior to continuing work on the task. If WAM work is to be conducted as part of this task, please identify a milestone in the timeline for this task and identify appropriate deliverables for TWDB review and approval.

The WAM Run 3 models with modifications used in the 2006 regional water plans will be used in this analysis with the addition of the recently released Red River WAM. If any additional changes are made to the WAMs, we will submit them for TWDB review.

3.3 Subtask B - Please identify specific deliverables for this task.

A technical memorandum will be prepared for Subtask A, and a separate technical memorandum will be prepared for Subtask B.

3.4 Subtask B - Please clarify whether all of the reservoirs listed under this task will be analyzed. (The complete list seems rather lengthy for the proposed cost of the study.)

For Subtask B, all reservoirs listed will be analyzed as part of the initial screening. For Subtask B.2, up to five reservoirs will be analyzed. This will be clarified in the scope of work.

3.5 Subtask C - Costing estimates should follow the methodology outlined in Exhibit B. Please include a side-by-side comparison of 2006 RWP and new costs.

We will follow the methodology outlined in Exhibit B. Please be aware that any substantive changes to Exhibit B must be available before contracts are finalized so that we can develop an adequate scope and budget. (Simple changes in unit price, interest rates, etc., will not present a problem.) We can include a side by side cost comparison if requested by TWDB. Its usefulness may be limited because the design and unit costs of the water management strategies will be different.

Project 5: Interregional Study of Toledo Bend Reservoir with Regions C, D, and I (\$40,500)

- 5.1 Please provide more detail on what specific activities will be performed by each region for each task and how the effort will be coordinated. Please clarify if Region I will be generating and conducting all of the work and then sending to Regions C and D for review. If not, please indicate which region will be the lead on which subtasks. Requested details on this coordination need to be reflected in each participating Region's scope of work (Regions C, D, and I).**

Region I will lead the overall project. The specific tasks for Region I are in the scope provided to TWDB by Region I, and those for Region C are in the scope for Region C. We will add specific deliverables developed by Region C to the appropriate Subtasks. Please clarify if additional information is needed.

- 5.2 Please include each Region's comments on reviews in the final report.**

Region I will prepare the final report and should address this comment.

- 5.3 Subtask A.1 - Please provide more detail on what demand coordination will involve. Is this to consider proposed projects conducted by coordinating regions or reevaluate demands in Region C? Also, please identify specific deliverables for this task.**

Region C's demand coordination will involve meeting with Region C entities for which water from Toledo Bend was identified as a recommended or alternative strategy in order to discuss timing and amounts of supply they expect to use from this strategy in light of their current situations (growth in demands, progress on other strategies, etc.). It will not involve reassessment of approved demand projections for Region C. Region C will provide a technical memorandum to Region I summarizing our work.

- 5.4 Subtask A.2 – Please define specific deliverables for this task and clarify if Region D will be involved in this portion of the project.**

Region C will review the routing studies prepared by Region I. The deliverable will be Region C's comment letter. We are not aware of Region D's plans for this study.

- 5.5 Subtask A.3 – Please define specific deliverables for this task.**

Region C will review the reservoir impact studies prepared by Region I. The deliverable will be Region C's comment letter.

- 5.6 Subtask A.4 - Assumptions for WAM revisions shall be approved by TWDB prior to continuing work on the task. If WAM work is to be conducted as part of this task, please identify a milestone in the timeline for this task and identify appropriate deliverables for TWDB review and approval.**

Any WAM revisions would be the responsibility of Region I, which will be conducting these analyses. Region C will review the bay and estuary studies prepared by Region I. The deliverable will be Region C's comment letter.

5.7 Subtask A.5 - Please include a side-by-side comparison of 2006 RWP and new costs and please define a specific deliverable for this task.

Region C will prepare a technical memorandum summarizing the cost analysis and can include a side-by side comparison (if this is requested during final contract negotiations). Its usefulness may be limited because the design and unit costs of the water management strategies will be different.

Project 6: Pilot Project to develop pertinent information relevant to the implementation of Direct Reuse (non-portable uses) and Indirect Reuse (augmentation of portable water supply) Projects (\$139,900)

6.1 How might this project overlap or intersect with Project 1 (specifically task E.8 and E.9) in regards to the reuse projects studied? Please specify.

(The referenced Task E.8 and E.9 should be Task C.8 and Task C.9.) The pilot projects for direct reuse (Fort Worth) and for augmentation of water supplies (Athens) will document detailed information about actions required to implement the projects. These pilot projects will actually develop guidelines that will be applied in the implementation of these projects. The identified actions and selected approaches for implementation will be incorporated into guidance documents that can be used by others to implement reuse projects. Information developed by Project 1, Task C, Items 8 and 9 will also be considered in the preparation of the guidance documents. Also, information developed from the pilot projects will be considered during the assessment of the performance of the projects selected for review by Project 1, Task C, Items 8 and 9. Actions identified in the Project 6 guidance documents that could enhance the performance of the Region C planned reuse projects will be included in the discussion about the impacts of reuse on the Region C Plan.

6.2 Subtask B.1 mentions reviewing up to three planned reuse projects, but the Region C Plan mentions that Fort Worth plans to implement four direct reuse projects (page 4E.22). Will the studied projects be of the four projects mentioned in the plan? Please specify if so.

This task will review up to three of the four Fort Worth plans identified in the Region C Plan. The specific plans to be reviewed will be selected an initial step of the project. The selection process will involve selecting projects for which implementation progress has been made and which will provide information that will not only benefit Fort Worth but other regional planning entities as well.

6.3 Will there be a meeting with the outset of these projects and at particular intervals with the City of Athens, Athens MWA, and the City of Fort Worth? This would appear to be an important step, although it wasn't mentioned explicitly.

Yes. The scope of work includes up to three meetings with Athens MWA and the City of Athens. The scope of work provides for up to three meetings with the City of Fort Worth.

Project 7. Regional System Implementation Plans (\$400,000 recommended)

7.1 Please specify how the scope of work will be adjusted for a lower amount of funding.

We will discuss this question at the next Region C Water Planning Group meeting and will respond after the meeting.

7.2 If adjustments are made to the subtask 7.B Dallas-Ellis-Johnson-Tarrant County Area, please specify how the interregional coordination with the Brazos G consultants will be affected.

We will discuss this question at the next Region C Water Planning Group meeting and will respond after the meeting.

7.3 As stated in the general comments at the beginning of this document, the use of any population projections that are utilized in the implementation plans, are different from those in the 2007 state water plan and are expected to be revised in the 2011 regional plan should meet the criteria and data requirements as specified in a forthcoming guidance document.

Region C will follow applicable TWDB guidelines in any revisions to approved population and demand projections. The Region C projects being funded at this time do not include revisions to approved population or demand projections. Any population or demand projection information that is gathered will be useful if revisions are sought at a later time or in the next biennium of regional water planning.

7.4 Other possible SOW comments regarding regionalization projects?

According to TWDB staff, this question was accidentally left in the document and was not intended to be sent as a question or comment for Region C.

Cost Estimates by Subtask for Approved Projects

Part 1

Project 1 - Administrative Costs

Task	Task Name	Total
A	Meetings	\$75,800
B	Media and Public Relations	\$65,360
Total		\$141,160

Part 2

Project 1 - Water Conservation

Task	Task Name	Total
A	Survey Water Providers	\$24,600
B	Information and Data Gathering	\$54,100
C	Assessment of Performance	\$110,300
D	Update Implementation Plan	\$109,800
Total		\$298,800

Project 3 – Additional Yield from Existing Reservoirs

Task	Task Name	Total
A	Analysis of Lake Wright Patman	\$48,300
B	Analysis of Other Specified Reservoirs	\$55,600
C	Report Preparation	\$37,300
Total		\$141,200

Project 5 – Interregional Study of Toledo Bend

Task	Task Name	Total
A	Coordination with Region I	\$40,500
Total		\$40,500

Project 6 - Reuse Pilot Projects

Task	Task Name	Total
A	Athens Pilot Project	\$85,160
B	Fort Worth Pilot Project	\$54,740
Total		\$139,900

Project 7 - Regional System Implementation Plans*

Task	Task Name	Total
A	Cooke-Grayson Counties	\$108,500
B	Dallas-Ellis-Johnson-Tarrant County Area	\$282,600
C	Ellis County	\$56,800
D	Fannin County	\$53,900
E	Freestone County	\$64,600
F	Navarro County	\$65,600
G	North Kaufman County	\$39,400
H	Parker-Wise Counties	\$47,600
Total		\$719,000

* \$400,000 will be available for Project 7 studies.