

STATE OF TEXAS

TWDB Contract No. 1148301314

TRAVIS COUNTY

TEXAS WATER DEVELOPMENT BOARD

AND

NORTH TEXAS MUNICIPAL WATER DISTRICT

AMENDMENT NO. 3

This Contract and Agreement made and entered on September 1, 2010 and amended May 11, 2012 and January 3, 2013, is hereby further amended as follows:

1. Exhibit A, Scope of Work is revised to replace Task 4D as shown in Attachment I and denoted as Third Amended Exhibit A.
2. Exhibit B, Task and Expense Budgets is revised to remove the notation that Task4D requires a Notice to Proceed as shown in Attachment II and denoted as Third Amended Exhibit B.
3. All other terms and conditions of TWDB Contract No. 1148301314 shall remain in effect.

IN WITNESS WHEREOF the parties hereto cause this Contract and Agreement to be duly executed in duplicate.

TEXAS WATER DEVELOPMENT BOARD

NORTH TEXAS MUNICIPAL WATER DISTRICT



Carolyn L. Brittin
Deputy Executive Administrator
Water Resources Planning and Information



James Parks
Executive Director

Date: 6-14-13

Date: 6/11/2013

2013 JUN 13 AM 9:43
CONTRACT ADMINISTRATION

JUN 20 2013

ATTACHMENT I
Third Amended Exhibit A
Scope of Work

The following task is replaced as follows:

TASK 4D EVALUATE AND RECOMMEND WATER MANAGEMENT STRATEGIES¹

The objective of this task is to evaluate and recommend water management strategies (WMS) including preparing a separate chapter and subchapter (on conservation recommendations see - Task 5) to be included in the 2016 Regional Water Plan (RWP) that describes the work completed, presents the potentially feasible WMSs, recommended and alternative WMSs, including all the technical evaluations, and presents which water user entities will rely on the recommended WMSs.

Work shall be contingent upon a written notice-to-proceed and shall include but not be limited to the following:

- a) In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34 and §357.35 that is not already included under Task 4B or Task 5.
- b) Plans to be considered in developing water management strategies include those referenced under 31 TAC §357.22.
- c) Inclusion of a list of the potentially feasible water management strategies that were identified by the RWPG. Information to include what past evaluations have been performed for each potentially feasible water management strategy listed.
- d) Technical evaluations of all categories of potentially feasible WMSs including previously identified or recommended WMSs and newly identified WMSs including drought management and conservation WMSs; WMS documentation shall include a strategy description, discussion of associated facilities, project map, and technical evaluation addressing all considerations and factors required under 31 TAC §357.34(d)(e)(f) and §357.35.
- e) Process of selecting all recommended WMSs including development of WMS evaluations matrices and other tools required to assist the RWPG in comparing and selecting recommended WMSs.
- f) Consideration of water conservation and drought contingency plans from each WUG, as necessary, to inform WMS evaluations and recommendations.

¹ Additional guidance included in the *General Guidelines for Regional Water Plan Development* document.

- g) Communication, coordination, and facilitation required within the RWPA and with other RWPGs to develop recommendations.
- h) Updates to descriptions and associated technical analyses and documentation of any WMSs that are carried forward from the previous RWP to address:
 - Changed conditions or project configuration
 - Changes to sponsor of WMS
 - Updated costs (based on use of required costing tool)
 - Other changes that must be addressed to meet requirements of 31 TAC §357.34 and §357.35.
- i) Assignment of all recommended strategy water supplies to meet projected needs of specific WUGs.
- j) Documentation of the evaluation and selection of all recommended water management strategies.
- k) Coordination with sponsoring water user groups, wholesale water providers, and/or other resource agencies regarding any changed conditions in terms of projected needs, strategy modifications, planned facilities, market costs of water supply, endangered or threatened species, etc.
- l) If applicable, determination of the “highest practicable level” of water conservation and efficiency achievable (as existing conservation or proposed within a water management strategy) for each WUG that relies on a WMS involving and interbasin transfer to which TWC 11.085 applies. Recommended conservation WMSs associated with this analysis shall be presented by WUG.
- m) Presentation of the water supply plans in the RWP for each WUG and WWP relying on the recommended WMSs.
- n) Consideration of alternative WMSs for inclusion in the plan. Alternative water management strategies must be fully evaluated in accordance with 31 TAC §357.34(d)(e)(f).
- o) Incorporation of all required DB17 reports into document.
- p) Submission of data through the Regional Water Planning Application (DB17) to include the following work:
 - review of the data,
 - confirmation that data is accurate,
 - incorporation of the required DB17 reports into the draft and final regional water planning chapter document
- q) Review of the chapter document and related information by RWPG members,

- r) Modifications to the chapter document based on RWPG, public, and or agency comments.
- s) Submittal of chapter document to TWDB for review and approval; and
- t) All effort required to obtain final approval of the regional water plan chapter and associated DB17 data by TWDB.
- u) Note that the scope of work below includes task items initiated during the first amended scope of work. All subtasks will not be completed until after the needs analysis (Task 4A) is complete. Completed strategy evaluations will be documented and included in the initially prepared and final adopted regional water plans.

Region-Specific Scope of Work

1. Incorporate changes to conservation and reuse water management measures based on input from WUG and WWP surveys and meetings to be completed as part of Task 10.
2. Update the analyses of the larger water management strategies in the 2011 Region C Water Plan to incorporate changed conditions and extend the analyses to 2070. Updates for each strategy will include quantitative and qualitative evaluation. Quantitative evaluation includes determining the quantity of water to be provided, reliability of supply, cost, and the quantifiable environmental impacts such as cost, total acres impacted, and acres of wetlands impacted. Qualitative evaluation includes other categories of environmental impacts, which will be classified as "high," "medium," or "low." It may also include impacts on other water management strategies. The larger water management strategies are listed below in four primary categories:
 - 2a. "No Change since 2011 Region C Water Plan", 2b. "Partially Implemented or in Design Phase", 2c. "In Study or Permit Phase", and 2d. "Other Changes since 2011 Plan."
 - 2a. No Change since 2011 Region C Water Plan: For the following strategies, no changed conditions are anticipated. However, strategies need to be revisited and updated for reasons such as extending the analysis to 2070, updating cost estimates with revised unit costs, etc.
 - Toledo Bend Reservoir
 - Gulf of Mexico with Desalination
 - Lake Texoma Not Yet Authorized – Blend
 - Lake Texoma Not Yet Authorized- Desalination
 - Lake Livingston
 - Oklahoma Water
 - Lake Texoma – Blend
 - Neches River Run-of-the-River Diversion
 - Lake Texoma- Desalination
 - Carrizo-Wilcox Groundwater (Brazos County)
 - Cypress Basin Supplies {Lake O' the Pines}
 - Tawakoni Pipeline
 - DWU Southside (Lake Ray Hubbard) Reuse

- DWU Lake Lewisville Reuse
 - Tehuacana Reservoir
 - Lake Columbia
- 2b. Partially Implemented or in Design Phase: The following strategies are known to be partially implemented or in design phase. Based on further study or design that has been done since publication of the *2011 Region C Water Plan*, these strategies should be revisited and updated accordingly. Updates may be made to supply amounts, cost estimates, expected in-service dates, etc.
- Lake Palestine (DWU Integrated Pipeline with TRWD)
 - TRWD Wetlands
 - Main Stem Trinity River Pump Station
- 2c. In Study or Permit Phase: The following strategies are known to be in study or permitting phase. Based on further study that has been done since publication of the *2011 Region C Water Plan*, these strategies should be revisited and updated. Updates may be made to supply amounts, cost estimates, expected in-service dates, environmental impacts, etc.
- Lower Bois d-Are Creek Reservoir
 - Lake Ralph Hall and Reuse
- 2d. Other Changes since 2011 Plan
 These strategies may change as a result of the Sulphur River Basin study that is in progress: The following strategies will be updated as part of the Sulphur River Basin study sponsored by the Army Corps of Engineers and the Sulphur River Basin Authority. The anticipated project schedule (as of February 2013) indicates that the study will be completed in early 2014. The strategies listed below will be updated for the Region C Water Plan to be consistent with the results of the Sulphur River Basin study.
- Wright Patman Lake-System
 - Wright Patman Lake-Raise Conservation Pool
 - Wright Patman Lake- Texarkana
 - Marvin Nichols Reservoir
 - George Parkhouse Lake (North)
 - George Parkhouse Lake (South)
3. Several of the larger existing Region C water management strategies rely on transporting water from one body of water to another. These strategies need to be re-evaluated in light of concerns regarding transmission of invasive species, introduction of perceived pollutants, and other regulatory issues. This task would develop alternative cost estimates for up to 20 water management strategies that take water directly to end-users. The first step in this analysis will be to

determine which of the existing Region C water management strategies should be re-evaluated to transmit water directly to end users.

4. Provide evaluation of recent data (6-years) to assess the effectiveness of reuse during drought years (years 2006 and 2011) in comparison to wetter years. Compare reuse supplies determined from this evaluation with estimated supplies from reuse water management strategies. Use results of this assessment to evaluate and modify, as appropriate, water management strategies associated with reuse.
5. Update the quantitative evaluation of supply that will be made available from and qualitative evaluation of other aspects of water management strategies in the 2011 Region C Water Plan, that are not included in Subtask ii above, to incorporate changed conditions and extend the analysis to 2070. Quantitative evaluation includes determining quantity of water to be provided, reliability of supply, cost, and the quantifiable environmental impacts such as cost, total acres impacted, and acres of wetlands impacted. Qualitative evaluation includes other categories of environmental impacts, which will be classified as "high," medium," or low." It may also include impacts on other water management strategies.
 - 5a. Update evaluation of water management strategies for wholesale water Providers.
 - 5b. Update evaluation of water management strategies for water user groups.
6. Update the quantitative evaluation of supply that will be made available from and qualitative evaluation of other aspects of alternative water management strategies in the 2011 Region C Water Plan to incorporate changed conditions and extend the analysis to 2070. Quantitative evaluation includes determining quantity of water to be provided, reliability of supply, cost, and the quantifiable environmental impacts such as cost, total acres impacted, and acres of wetlands impacted. Qualitative evaluation includes other categories of environmental impacts, which will be classified as "high," medium," or low." It may also include impacts on other water management strategies.
7. Complete quantitative evaluation of supply that will be made available from and qualitative evaluation of other aspects of new recommended and new alternative water management strategies that were not in the 2011 Region C Water Plan but are identified as potentially feasible by the RWPG. Quantitative evaluation includes determining quantity of water to be provided, reliability of supply, cost, and the quantifiable environmental impacts such as cost, total acres impacted, and acres of wetlands impacted. Qualitative evaluation includes other categories of environmental impacts, which will be classified as ¹¹ "high," medium," or "low." It may also include impacts on other water management strategies.
 - 7a. Evaluate new recommended and alternative water management strategies for wholesale water providers.
 - 7b. Evaluate new recommended and alternative water management strategies for water user groups.
8. Prepare a presentation of the recommended and alternative water management strategies for the 2016 Region C Water Plan for the Region C WPG.

9. Write the portion of the Initially Prepared 2016 Region C Water Plan that corresponds to Task 4D. The following sections will be written as part of this subtask:
 - 9a. Water Conservation and Reuse
 - 9b. Evaluation of Water Management Strategies
 - 9c. Recommended Water Management Strategies for Wholesale Water Providers
 - 9d. Recommended Water Management Strategies for Water User Groups by County

Deliverables: A completed Chapter 5 shall be delivered in the 2016 RWP as a work product to include technical analyses of all evaluated WMSs. Data shall be submitted and finalized through DB17 in accordance with the Guidelines for Regional Water Planning Data Deliverables.

Attachment II
Exhibit B, Third Amended Task and Expense Budgets

Contract SOW Task	TWDB CAS Task Number	Task Description	Task Budget
1	9	Region Description	\$19,000
2A	1	Projected Non-Municipal Water Demands	28,580
2B	2	Projection Population and Municipal Water Demands	97,150
3	3	Water Supply Analysis	146,100
4A	4	Identification of Water Needs	0
4B	5	Identification of Potentially Feasible WMS	22,930
4C	6	Technical Memorandum	53,280
4D	7	Evaluation and Recommendation of Water Managements Strategies	932,830
5	10	Conservation Recommendations	32,000
6	11	Impacts of Plan and Consistency with Protection of Water Resources, Agricultural Resources and Natural Resources	30,000
7	12	Drought Response Information, Activities, and Recommendations	130,000
8	13	Unique sites and Policy Recommendations	10,000
9	14	Infrastructure Financing Analysis	38,000
10	8	Public Participation, Administration, and Adoption	326,814
11	15	Implementation and Comparison to the Previous Regional Water Plans	72,000
		Total	\$1,938,684

CONTRACTOR EXPENSE BUDGET

CATEGORY	AMOUNT
Other Expenses ¹	\$13,758
Subcontract Services	1,924,226
Voting Planning Member Travel ²	700
Total Study Cost³	\$1,938,684

¹ Eligible Other Expenses are administrative costs associated with Political Subdivisions and are defined to be direct, non-labor costs including:

- a) expendable supplies actually consumed in direct support of the planning process;
- b) direct communication charges;
- c) limited direct costs/fees of maintaining RWPG website domain, website hosting, and/or website – not to exceed \$250.00 per calendar year;
- d) reproduction of materials directly associated with notification or planning activities (currently 10¢ per copy or the actual non-labor direct costs as documented by the Contractor);
- e) direct postage (e.g., postage for mailed notification of funding applications or meetings); and
- f) other direct costs of public meetings, all of which must be directly related to planning (e.g., newspaper and other public notice posting costs).

² Voting Planning Member Travel Expenses is defined as eligible mileage expenses incurred by regional water planning members that cannot be reimbursed by any other entity, political subdivision, etc. as certified by the voting member. The reimbursed amount is limited to the maximum amounts authorized for state employees by the General Appropriations Act, Tex. Leg. Regular Session, 2011, Article IX, Part 5, as amended or superseded.

³ Ineligible Expenses include, but are not limited to:

- a) Compensation for the time or expenses of RWPGs members' service on or for the RWPG;
- b) Costs of administering the RWPGs, including labor costs, or building, or overhead costs associated with the Political Subdivision;
- c) Indirect or labor costs of public notice and meetings, including time and expenses for attendance at such meetings;
- d) Costs for training;
- e) Costs of reviewing products developed due to funding requests to TWDB;
- f) Costs of administering the regional water planning grant and associated contracts;
- g) Labor, reproduction, or distribution of newsletters;
- h) Direct costs greater than \$250.00 per year for domain fees, website hosting, and/or web site maintenance costs;
- i) Food, drink, or lodging for Regional Water Planning Group members (including tips and alcoholic beverages);
- j) Purchase, rental, or depreciation of equipment (e.g., computers, copiers, fax machines);
- k) General purchases of office supplies not documented as consumed directly for the planning process; and Costs associated with social events or tours.

MEMORANDUM

TO: Carolyn Brittin

THRU: Ingrid Hansen _____
Rebecca Trevino _____
Dan Hardin _____
Matt Nelson _____
David Carter _____

FROM: Phyllis Thomas

RE: Regional Water Planning Grant Contract between the Texas Water Development Board (TWDB) and the North Texas Municipal Water District (District), TWDB Contract No. 1148301314, Amendment No. 3

DATE: May 24, 2013

Two copies of Amendment No. 3 to the above-referenced contract, a Contract Initiation Form, and a transmittal letter are attached for your signature.

Amendment No. 3 addresses the following:

- revises the Scope of Work to replace Task 4D;
- all other terms remain the same.

The transmittal letter also gives the District the Notice to Proceed for Task 4D.

Contingent upon approval at all required levels, the completed package should be returned to Contracts Administration for copying and mailing.

Attachments

May 14, 2013

Mr. James Parks
Executive Director
North Texas Municipal Water District
P. O. Box 2408
Wylie, Texas 75098

RE: Regional Water Planning Grant Contract between the Texas Water Development Board (TWDB) and the North Texas Municipal Water District (District), TWDB Contract No. 1148301314, Amendment No. 3

Dear Mr. Parks:

Enclosed are two originals of a contract amendment to the above referenced contract between the TWDB and the District. Amendment No. 3 revises the Scope of Work to replace Task 4D and to remove the requirement of a Notice to Proceed for Task 4D. All other terms and conditions of TWDB Contract No. 1148301314 shall remain in effect.

Please note, this letter is a written "Notice to Proceed" that the District may now commence work on all subtasks under Task 4D. At this time a total of \$1,378,516 in committed funds is available.

After executing both originals, please return both original copies to the attention of Contract Administration, at the address shown above. The TWDB will execute and sign the contracts upon their return and deliver one copy to you for your records.

If you have any questions concerning the contract, please contact Matt Nelson, the TWDB's designated Contract Manager for this planning project, at (512) 936-3550.

Sincerely,

Carolyn L. Brittin
Deputy Executive Administrator
Water Resources Planning and Information

Enclosures

c: Matt Nelson, TWDB

November 27, 2013

Mr. James Parks, Executive Director
North Texas Municipal Water District
P. O. Box 2408
Wylie, Texas 75089

Re: Regional Water Planning Contract between the Texas Water Development Board (TWDB) and the North Texas Municipal Water District (Contractor), TWDB Contract No. 1148301314, Amendment No. 4

Dear Mr. Parks:

Enclosed please find two copies of Amendment No. 4 to the above referenced contract. Per Section I, Article II, Paragraph A, of the Contract, TWDB is hereby amending the contract to:

- increase the TOTAL STUDY COSTS by \$8,500 to \$1,947,184.00 to fund Task 100 Conflict Resolution between Regions C and D;
- increase the COMMITTED FUNDS amount by \$568,668.00 to equal the TOTAL STUDY COSTS (\$1,947,184.00) as a result of additional legislative appropriations that became available September 1, 2013;
- extend the deliverable deadline for the Technical Memorandum to August 1, 2014;
- revise the Task 4A scope of work to include a required data report to be provided by TWDB and included in each regional water plan;
- revise the Task 4C scope of work to reduce the deliverable requirements of the Technical Memo, account for additional work that may be required to develop preliminary needs analyses, and account for additional effort associated with the online planning database; and,
- add additional scope of work and budget as Task 100 Conflict Resolution between Regions C and D to allow expenditure of an amount not to exceed \$8,500 to address public meetings and eligible administrative and technical support to incorporate results from the outcome of the conflict resolution process relating to the proposed Marvin Nichols Reservoir water management strategy in the 2011 Region C Regional Water Plan, and:
- ARTICLE II. OTHER SPECIAL CONDITIONS AND EXCEPTIONS TO STANDARD AGREEMENT OF THIS CONTRACT, Item E. A total of \$170,241.00 identified in Item No. 1 will not be available until September 1, 2014.

All other terms and conditions of the Contract shall remain in effect.

Please obtain the proper signature for each copy of the amendment and return to the attention of Contract Administration at the address shown above within 30 days from receipt of this letter.

Mr. Parks
November 27, 2013
Page 2

Once the originals are executed by the TWDB, one fully executed original will be sent to you for your records.

If you have any questions concerning this amendment please contact Matt Nelson, the TWDB's designated Contract Manager for this study at (512) 936-3550.

Sincerely,



Kevin Patteson
Executive Administrator

Enclosures

c: Matt Nelson, TWDB

TRAVIS COUNTY

TEXAS WATER DEVELOPMENT BOARD

and

NORTH TEXAS MUNICIPAL WATER DISTRICT

AMENDMENT NO. 4

This Contract and Agreement made and entered on August 22, 2011, and amended on May 11, 2012, January 2 and June 14, 2013, is hereby amended as follows:

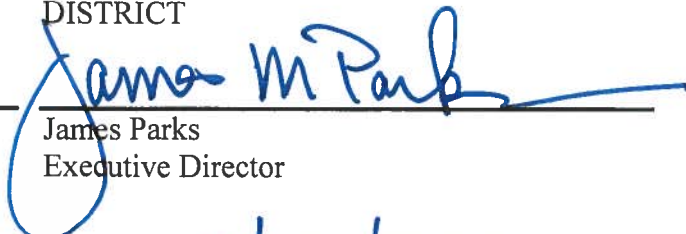
1. SECTION I, ARTICLE I, ITEM C, COMMITTED FUNDS amount is increased by \$568,668.00 bringing the total COMMITTED FUNDS amount to \$1,947,184.00.
2. SECTION I, ARTICLE I, ITEM I, TECHNICAL MEMORANDUM DEADLINE is changed from May 1, 2014 to August 1, 2014.
3. SECTION I, ARTICLE I, ITEM U, TOTAL STUDY COSTS amount is increased by \$8,500 bringing the TOTAL STUDY COSTS amount to \$1,947,184.00.
4. EXHIBIT A, SCOPE OF WORK for Task 4A and Task 4C are revised as shown in Attachment 1 of this amendment and additional scope is added as Task 100 as shown in Attachment 2 of this amendment, together identified as FOURTH AMENDED SCOPE OF WORK.
5. EXHIBIT B, TASK AND EXPENSE BUDGETS, will be revised to include additional Task 100 as shown in Attachment 3 of this amendment and denoted as THIRD AMENDED TASK AND EXPENSE BUDGETS.
6. ARTICLE II. OTHER SPECIAL CONDITIONS AND EXCEPTIONS TO STANDARD AGREEMENT OF THIS CONTRACT, Item E. A total of \$170,241.00 identified in Item No. 1 will not be available until September 1, 2014.
7. All other terms and conditions of TWDB Contract No. 1148301314 shall remain in effect.

IN WITNESS WHEREOF the parties hereto cause this Contract and Agreement to be duly executed in duplicate.

TEXAS WATER DEVELOPMENT BOARD

NORTH TEXAS MUNICIPAL WATER DISTRICT

Kevin Patteson
Executive Administrator



James Parks
Executive Director

Date: _____

Date: 12/17/2013

Attachment 1
Exhibit A
Fourth Amended Scope of Work – Revisions to Task 4A and Task 4C

Task 4A – Identification of water needs (analysis to be performed by TWDB)¹

Work shall include but not be limited to the following:

1. In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.33.²
2. Prepare a standalone chapter³ to be included in the 2016 Regional Water Plan (RWP) that also incorporates of all required DB17 reports into the document.
3. *Based upon updated projections of existing water supply and projected water demands under Tasks 2 and 3, and the associated data entered into DB17, TWDB will update computations of identified water needs (potential shortages) by:*
 - *WUGs*
 - *WWPs**As decadal estimates of needs (potential shortages) as well as by, county, river basin, and planning region.*
4. *The results of this computation will be provided by TWDB via DB17 to RWPGs in a customizable format that is in accordance with TWDB rules as the TWDB DB17 Identified Water Needs report.*
5. *Regions may also request additional, unique needs analysis (e.g., for a WWP) that the RWPG considers warranted. Such reports will be provided by TWDB, if feasible based on the DB17 constraints and TWDB resources. The RWPG will need to enter or provide any additional data into DB17, that may be necessary to develop these evaluations.*
6. The DB17 needs reports shall be incorporated by the RWPG into the Technical Memorandum and IPP and adopted regional water plans (labeled as such and with source reference).
7. *Upon request, TWDB will perform a socioeconomic analysis of the economic effects of not meeting the identified water needs and update and summarize potential social and*

¹ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

² Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

³ This shall be a separate chapter as required by 31 TAC §357.22(b).

economic effects under this Task. This report will be provided to RWPGs as part of this Task and incorporated into the adopted regional water plans.

8. If the RWPG chooses to develop its own socioeconomic analysis the resulting socioeconomic report shall be incorporated into the IPP and adopted regional water plan by the RWPG.
9. A secondary needs analysis will be calculated by TWDB based on DB17 for all WUGs and WVPs for which conservation or direct reuse water management strategies are recommended. The results of this computation will be provided to RWPGs in accordance with TWDB rules and shall be incorporated by the RWPG into the regional water plan as TWDB DB17 Second-Tier Identified Water Need report.

Task 4B - Identification of Potentially Feasible Water Management Strategies⁴

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

1. In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34(a)(b)(c).⁵
2. Receive public comment on a proposed process to be used by the RWPG to identify and select water management strategies for the 2016 regional water plan. Revise and update documentation of the process by which water management strategies that are potentially feasible for meeting a need were identified and selected for evaluation in the 2016 regional water plan. Include a description of the process selected by the RWPG in the Technical Memorandum and the IPP and adopted regional water plans.
3. Consider the TWDB Water Loss Audit Report and drought management when considering potentially feasible water management strategies as required by rules.
4. Update relevant portions of the regional water plan summary of existing water supply plans for local and regional entities. This Task requires obtaining and considering existing water supply plans. Updated summary to be included in the IPP and adopted regional water plans.
5. Plans to be considered in developing water management strategies include those referenced under 31 TAC §357.22.

⁴ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

⁵ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

6. If no potentially feasible strategy can be identified for a WUG or WWP, document the reason for this in the Technical Memorandum and the IPP and adopted regional water plans.
7. Consider recent studies and describe any significant changes in water management strategies described as being in the implementation phase in the 2011 RWP as well as any new projects in the implementation phase prior to adoption of the Initially Prepared 2016 Regional Water Plan.
8. Identify potential water management strategies to meet needs for all WUGs and WWPs with identified needs, including any new retail utility WUGs and WWPS that may have been previously aggregated under County-other in the 2011 regional water plan but which are being treated as unique entities for the 2016 regional water plan.
9. Present a list of the potentially feasible water management strategies, in table format, within the Technical Memorandum and the IPP and adopted regional water plans.

Task 4C - Prepare and Submit Technical Memorandum and RWPG analysis of WUG and WWP Needs⁶

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

1. Prepare a concise Technical Memorandum consisting solely of each of the DB17 reports described under Tasks 2, 3, 4A, and 4B, with the exception of the *Second-Tier Identified Water Need* report, and as required by the *First Amended General Guidelines for Regional Water Plan Development* within the body of the memorandum. ~~that briefly summarizes the work completed under Tasks 2, 3, 4A, 4B, and 4C and the general findings. To be considered administratively complete, the Technical Memorandum submitted must include:~~
 - a) ~~a summary of work completed that shall be no longer than 5 pages.~~
 - b) ~~each of the DB17 reports described under Tasks 2, 3, 4A, and 4B and as required by the *First Amended General Guidelines for Regional Water Plan Development* within the body of the memorandum.⁷~~
2. Approve submittal of the Technical Memorandum to TWDB at a regular regional water planning group meeting. The Technical Memorandum must be submitted to TWDB in accordance with Section I Article I of the contract.
3. To the extent necessary, this Task budget may also be applied toward effort required to:

⁶ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

⁷ ~~Also per the *First Amended General Guidelines for Regional Water Plan Development* document.~~

- a) develop preliminary water needs analyses outside of DB17 that may be necessary due to DB17 not yet being available;
- b) prepare, organize, enter, and/or update required data elements for DB17 including data related to existing water supplies or water management strategies.

Attachment 2
Exhibit A
Fourth Amended Scope of Work – Addition of Task 100

Task 100 Conflict Resolution between Regions C and D

The objective of this task is to address public participation, public meetings, eligible administrative and technical support activities, and other requirements and activities eligible for reimbursement that are necessary to incorporate results from the outcome of the conflict resolution process ordered by the Travis County District Court relating to the proposed Marvin Nichols Reservoir water management strategy between Region C and Region D designees and obtain TWDB approval of the RWP.

Work may include the following:

- a) Organization, support, facilitation, and documentation of all meetings/hearings associated with a public hearing prior to the adoption of a Major Regional Water Plan Amendment.

Technical Support and Administrative Activities

- b) Assembling, compiling, and producing of an Amendment to the Regional Water Plan document(s) that meets all requirements of statute, 31 TAC Chapters 355, 357 and 358, Contract and associated guidance documents.
- c) Submittal of the amendment documents in both hard copy and electronic formats to TWDB for review and approval; and all effort required to obtain final approval of the RWP by TWDB.
- d) Modifications to the 2011 RWP documents.
- e) Production, distribution, and submittal of any draft and final RWP amendment-related planning documents for RWPG, public and agency review, including in hard-copy format when required.

Other Activities

- f) Development of agendas, presentations, and handout materials for public hearing to provide to the general public.
- g) Documentation of meetings and hearings to include recorded minutes and or audio recordings as required by the RWPG bylaws and archiving and provision of minutes to public.
- h) Preparation and transmission of correspondence directly related to documenting, summarizing, collating, and submitting public comments on RWP documents.

economic effects under this Task. This report will be provided to RWPGs as part of this Task and incorporated into the adopted regional water plans.

8. If the RWPG chooses to develop its own socioeconomic analysis the resulting socioeconomic report shall be incorporated into the IPP and adopted regional water plan by the RWPG.
9. A secondary needs analysis will be calculated by TWDB based on DB17 for all WUGs and WWP's for which conservation or direct reuse water management strategies are recommended. The results of this computation will be provided to RWPGs in accordance with TWDB rules and shall be incorporated by the RWPG into the regional water plan as TWDB DB17 Second-Tier Identified Water Need report.

Task 4B - Identification of Potentially Feasible Water Management Strategies⁴

This Task includes, but is not limited to, performing all work in accordance with TWDB rules and guidance required to:

1. In addition to generally meeting all applicable rules and statute requirements governing regional and state water planning under 31 TAC Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.34(a)(b)(c).⁵
2. Receive public comment on a proposed process to be used by the RWPG to identify and select water management strategies for the 2016 regional water plan. Revise and update documentation of the process by which water management strategies that are potentially feasible for meeting a need were identified and selected for evaluation in the 2016 regional water plan. Include a description of the process selected by the RWPG in the Technical Memorandum and the IPP and adopted regional water plans.
3. Consider the TWDB Water Loss Audit Report and drought management when considering potentially feasible water management strategies as required by rules.
4. Update relevant portions of the regional water plan summary of existing water supply plans for local and regional entities. This Task requires obtaining and considering existing water supply plans. Updated summary to be included in the IPP and adopted regional water plans.
5. Plans to be considered in developing water management strategies include those referenced under 31 TAC §357.22.

⁴ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

⁵ Requirements are further explained in the guidance document *First Amended General Guidelines for Regional Water Plan Development*.

**Attachment 3
Exhibit B
Third Amended Task and Expense Budgets**

Contract SOW Task	TWDB CAS Task Number	Task Description	Task Budget
1	9	Region Description	\$19,000.00
2A	1	Projected Non-Municipal Water Demands	28,580.00
2B	2	Projection Population and Municipal Water Demands	97,150.00
3	3	Water Supply Analysis	146,100.00
4A	4	Identification of Water Needs	0.00
4B	5	Identification of Potentially Feasible WMS	22,930.00
4C	6	Technical Memorandum	53,280.00
4D*	7	Evaluation and Recommendation of Water Managements Strategies‡	932,830.00
5	10	Conservation Recommendations	32,000.00
6	11	Impacts of Plan and Consistency with Protection of Water Resources, Agricultural Resources and Natural Resources	30,000.00
7	12	Drought Response Information, Activities, and Recommendations	130,000.00
8	13	Unique sites and Policy Recommendations	10,000.00
9	14	Infrastructure Financing Analysis	38,000.00
10	8	Public Participation, Administration, and Adoption	326,814.00
11	15	Implementation and Comparison to the Previous Regional Water Plans	72,000.00
100	16***	Conflict Resolution Between Regions C and D	8,500.00
		Total	\$1,947,184.00

**Indicates contingent Task requiring a written 'Notice to Proceed' prior to commencing reimbursable work per Section I, Article II, Paragraph C.*

**** The budget Flexibility described under Section II, Article IV, Paragraph E does not apply to the funds assigned to this task. Funds may not be used for any other tasks.*

‡ The budget flexibility described under Section II, Article IV, Paragraph E does not apply to this task budget until after reimbursement of the task's budget is authorized by a Notice to Proceed

CONTRACTOR EXPENSE BUDGET

CATEGORY	AMOUNT
Other Expenses ¹	\$22,258.00
Subcontract Services	1,924,226.00
Voting Planning Member Travel ²	700.00
Total Study Cost³	\$1,947,184.00

¹ Eligible Other Expenses are administrative costs associated with Political Subdivisions and are defined to be direct, non-labor costs including:

- a) expendable supplies actually consumed in direct support of the planning process;
- b) direct communication charges;
- c) limited direct costs/fees of maintaining RWPG website domain, website hosting, and/or website – not to exceed \$250.00 per calendar year;
- d) reproduction of materials directly associated with notification or planning activities (currently 10¢ per copy or the actual non-labor direct costs as documented by the Contractor);
- e) direct postage (e.g., postage for mailed notification of funding applications or meetings); and
- f) other direct costs of public meetings, all of which must be directly related to planning (e.g., newspaper and other public notice posting costs).

² Voting Planning Member Travel Expenses is defined as eligible mileage expenses incurred by regional water planning members that cannot be reimbursed by any other entity, political subdivision, etc. as certified by the voting member. The reimbursed amount is limited to the maximum amounts authorized for state employees by the General Appropriations Act, Tex. Leg. Regular Session, 2011, Article IX, Part 5, as amended or superseded.

³ Ineligible Expenses include, but are not limited to:

- a) Compensation for the time or expenses of RWPGs members' service on or for the RWPG;
- b) Costs of administering the RWPGs, including labor costs, or building, or overhead costs associated with the Political Subdivision;
- c) Indirect or labor costs of public notice and meetings, including time and expenses for attendance at such meetings;
- d) Costs for training;
- e) Costs of reviewing products developed due to funding requests to TWDB;
- f) Costs of administering the regional water planning grant and associated contracts;
- g) Labor, reproduction, or distribution of newsletters;
- h) Direct costs greater than \$250.00 per year for domain fees, website hosting, and/or web site maintenance costs;
- i) Food, drink, or lodging for Regional Water Planning Group members (including tips and alcoholic beverages);
- j) Purchase, rental, or depreciation of equipment (e.g., computers, copiers, fax machines);
- k) General purchases of office supplies not documented as consumed directly for the planning process; and
- l) Costs associated with social events or tours.