

**Attachment 1**  
**Exhibit A**  
***Fifth Cycle of Regional Water Planning***  
**First Amended Scope of Work**

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## **Task 1- Planning Area Description<sup>1</sup>**

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The objective of this task is to prepare a standalone chapter<sup>2</sup> to be included in the 2021 Regional Water Plan (RWP) that describes the Regional Water Planning Area (RWPA).

### **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 §357.30, including the new requirement of describing major water providers in the RWPA.<sup>3</sup>
- 2) Review and summary of relevant existing planning documents in the region including those that have been developed since adoption of the previous RWP. Documents to be summarized include those referenced under 31 TAC §357.22.
- 3) Incorporation of all required Texas Water Development Board (TWDB) Regional Water Planning Application/State Water Planning Database (DB22) reports into document. Note that all DB22 reports are required to be physically located immediately following the RWP Executive Summary. However, Regional Water Planning Groups (RWPGs) may include these reports elsewhere in the document as they deem appropriate.
- 4) Review of the chapter document by RWPG members.
- 5) Modifications to the chapter document based on RWPG, public, and/or agency comments.
- 6) Submittal of chapter document to TWDB for review and approval; and
- 7) All effort required to obtain final approval of the RWP chapter by TWDB.

**Deliverables:** A completed Chapter 1 describing the RWPA shall be delivered in the 2021 RWP as a work product.

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<sup>1</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>2</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

<sup>3</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

## **Task 2A - Non-Population Related Water Demand Projections<sup>4</sup>**

TWDB staff will provide draft water demand projections for 2020-2070 for all water demands unrelated to population (e.g. mining, manufacturing, irrigation, steam-electric power, and livestock) based on the projections from the 2017 State Water Plan updated in some cases based on updated methodologies or the most recent TWDB historical water use estimates.

TWDB staff will update water demand projections for all associated Water User Groups (WUGs) and provide draft estimates to RWPGs for their review and input.

Each RWPG will then review the draft projections and may provide input to TWDB or request specific changes to the projections from TWDB.<sup>5</sup> The emphasis of this effort will be on identifying appropriate modifications based on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.

If adequate justification is provided by the RWPG to TWDB, water demand projections may be adjusted by the TWDB in consultation with Texas Department of Agriculture (TDA), Texas Commission on Environmental Quality (TCEQ), and Texas Parks and Wildlife Department (TPWD). Once RWPG input and requested changes are considered, final water demand projections will be adopted by the TWDB's governing Board (Board). The adopted projections will then be provided to each RWPG. RWPGs must use the Board-adopted projections when preparing their regional water plans.

TWDB will directly populate DB22 with all WUG-level projections and make related changes to DB22 based on Board-adopted projections.

**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 §357.31.<sup>6</sup>
- 2) Prepare a stand-alone chapter<sup>7</sup> (including work from both Tasks 2A & 2B) to be included in the 2021 RWP that also incorporates all required TWDB DB22 reports into the document.

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<sup>4</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>5</sup> All requests to adjust draft population or water demand projections must be submitted along with associated data in an electronic format determined by TWDB (e.g., fixed format spreadsheets)

<sup>6</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>7</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

- 3) Receive and make publicly available the draft water demand projections provided by TWDB.
- 8) Evaluate draft water demand projections provided by TWDB.
- 9) Review comments received from local entities and the public for compliance with TWDB requirements.
- 10) Provide detailed feedback to TWDB on water demand projections, as necessary, including justification and documentation supporting suggested changes with a focus on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan
- 11) Prepare and submit numerical requests for revisions, in tabular format in accordance with TWDB guidance, of draft water demand projections and process such requests based on, for example, requests from local entities within the region. The RWPG and/or local entities should provide required documentation and justification of requested revisions.
- 12) Communicate and/or meet with TWDB staff and/or local entities requesting revisions, as necessary.
- 13) Assist TWDB, as necessary, in resolving final allocations of water demands to WUGs to conform with any control totals defined by TWDB, for example, by county and/or region.
- 14) Prepare water demand projection summaries for WUGs using final, Board-adopted projections to be provided by the TWDB, as necessary.
- 15) Modify any associated water demand projections for Major Water Providers (MWP), as necessary based on final, Board-adopted projections.
- 16) Review the *TWDB DB22 Non-Population Related<sup>8</sup> Water Demand* report from the DB22 and incorporate this planning database report into any Technical Memoranda, Initially Prepared Plan (IPP), and adopted RWP (labeled as such and with source reference).
- 17) Modify any aggregated water demand summaries, for example, for MWPs or irrigation districts, accordingly incorporate this planning database report into any Technical Memoranda, IPP, and adopted RWP (labeled as such and with source reference).

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<sup>8</sup> All 'TWDB DB22...' reports will be provided by TWDB through the online planning database web interface as a customizable report that can be downloaded by RWPGs and must be included as part of any Technical Memoranda and water plan.

- 14) Update Wholesale Water Provider (WWP) contractual obligations to supply water to other entities and report this information along with projected demands including within the DB22 and within any planning memorandums or reports, as appropriate.

### **Task 2B - Population and Population-Related Water Demand Projections<sup>9</sup>**

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TWDB staff will prepare draft population and associated water demand projections for 2020-2070 for all population-related WUGs using data based on the population projections in the 2017 State Water Plan as reassembled by utility service areas.

TWDB staff will develop population projections and associated water demand projections for all WUGs based on utility service areas and provide them to RWPGs for their review and input.

Because there won't be new U.S. Census data available in time to incorporate into the 2021 RWPGs, the emphasis of this work will be on the transition of the 2017 State Water Plan population projections and the associated water demand projections from political boundaries to utility service area boundaries and to making limited modifications based on relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.

RWPGs shall then review the draft projections and may provide input to TWDB or request specific changes to the projections from TWDB. If adequate justification is provided by the RWPGs to TWDB, population and/or water demand projections may be adjusted by the TWDB in consultation with TDA, TCEQ, and TPWD. Once RWPG input and requested changes are considered, final population and associated water demand projections will be adopted by the Board. The adopted projections, based on utility service areas, will then be provided to RWPGs. RWPGs must use the Board-adopted projections when preparing their regional water plans and identify WUGs with associated utility service areas.

TWDB will directly populate the DB22 with all WUG-level projections and make related changes to the DB22 if revisions are made.

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 Texas Administrative Code (TAC) Chapters 357 and 358, this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.31.<sup>10</sup>

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<sup>9</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>10</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 2) Prepare a stand-alone chapter<sup>11</sup> (including work from both Tasks 2A & 2B) to be included in the 2021 RWP that also incorporates all of required TWDB DB22 reports into the document.
- 18) Receive and make publicly available the draft population and associated water demand projections provided by TWDB and that are based on utility service areas rather than political boundaries.
- 19) Evaluate draft population and associated water demand projections provided by TWDB.
- 20) Review comments received from local entities and the public for compliance with TWDB requirements.
- 21) Provide detailed feedback to TWDB on both population and associated water demand projections, as necessary, including justification and documentation supporting suggested changes with a focus on the transition to utility service areas and, more generally, relevant changed conditions that have occurred since the development of the projections used in the 2017 State Water Plan.
- 22) Prepare and submit numerical requests, in tabular format in accordance with TWDB guidance, for revisions of draft population and/or water demand projections and process such requests based on, for example, requests from local entities within the region. The RWPG and/or local entities should provide required documentation and justification of requested revisions.
- 23) Communicate and/or meet with TWDB staff and/or local entities requesting revisions, as necessary.
- 24) Assist TWDB, as necessary, in resolving final allocations of population and water demands to WUGs to conform with any control totals defined by TWDB, for example, by county and/or region.
- 25) Prepare population and water demand projection summaries for WUGs using final, adopted projections to be provided by the TWDB, as necessary for presentation in documents.
- 26) Consider and include in all appropriate planning documents the projections of population and associated water demands for any new WUGs to be provided by the TWDB.
- 27) Modify any associated water demand projections for MWPs, as necessary based on final, adopted projections.

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<sup>11</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

- 13) Review the *TWDB DB22 Population* and associated *TWDB DB22 Population-Related Water Demand* reports from the DB22<sup>12</sup> and incorporate these planning database reports into any Technical Memoranda, the IPP, and final RWP (labeled as such and with source reference).
- 3) Modify any aggregated water demand summaries, for example, for MWPs, accordingly and present in planning documents.
- 4) Update WWP contractual obligations to supply water to other entities and report this information along with projected demands including within DB22 and within any planning memorandums or reports, as appropriate.

### **Task 3 - Water Supply Analyses<sup>13</sup>**

This Task involves updating or adding: a) groundwater, surface water, reuse, and other water source availability estimates, and b) existing WUG and WWP water supplies that were included in the 2021 Regional Water Plan, in accordance with methodology described in **Section 3** of the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development* for estimating surface water, groundwater, systems, reuse, and other supplies during drought of record conditions. All water availability and water supply estimates will be extended through 2070.

This Task includes performing all work in accordance with TWDB rules and guidance required to:

Meet 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 §357.32.<sup>14</sup>

Prepare a standalone chapter<sup>15</sup> to be included in the 2021 RWP that also incorporates of all required DB22 reports into the document.

### **I) Estimate a) Surface Water Availability and b) Existing WUG and WWP Surface Water Supplies:**

- 1) Select hydrologic assumptions, models, and operational procedures for modeling the region's river basins and reservoirs using the most current TCEQ Water Availability Models (WAMs) in a manner appropriate for assessment of existing surface water supply and regional water planning purposes. Reservoir systems<sup>16</sup>

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<sup>12</sup> RWPG technical consultants must attend mandatory training on DB22.

<sup>13</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>14</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>15</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

<sup>16</sup> Reservoir systems must be approved by TWDB and identified as such in DB22.

and their yields shall be modeled in accordance with the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 3) Obtain TWDB Executive Administrator approval of hydrologic assumptions or models and for any variations from modeling requirements in the *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.
- 28) As necessary and appropriate, modify or update associated WAMs or other models to reflect recent changes to permits, transfers, legal requirements, new water rights, and/or specified operational requirements. Note that incorporating anticipated sedimentation into firm yield analyses is a required consideration that does not require a hydrologic variance approval from the Executive Administrator.
- 29) Assign available water supplies, as appropriate, to WUGs and WWPs including conducting supply analyses for WWPs.
- 30) Apply the TCEQ WAMs, as modified and approved by TWDB, and/or other appropriate models to quantify firm yield for major reservoirs, reservoir systems, and firm diversion for run-of-river water rights, as determined on at least a monthly time-step basis. Reservoir firm yield shall be quantified based on the most recent measured capacity and estimated capacity in year 2070.
- 31) Evaluate TCEQ Water System Data Reports<sup>17</sup> from the Drinking Water Watch or Safe Drinking Water Information System (SDWIS) website for municipal WUGs that use surface water and identify any physical constraints limiting existing water supplies to WUGs and/or WWPs. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
- 32) Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
- 33) Based on the water availability, existing infrastructure, and associated physical and legal limitations, determine the existing surface water supply available from each surface water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on source water availability, infrastructure capacity, legal constraints, and/or operational limitations.

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<sup>17</sup> Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.



- 9) Complete and update all required data elements for DB22 through the web interface.<sup>18</sup>
- 1) Compile firm yield and diversion information by Source, WUG, WWP, county, river basin, and planning region as necessary to obtain decadal estimates of existing surface water supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs through the DB22 interface.
- 2) Review, confirm the accuracy of, and incorporate the required associated planning database reports directly into the Technical Memorandum, IPP, and adopted RWP under Task 4C (labeled as such and with source reference).

**II) Estimate a) Groundwater Availability and b) Existing WUG and WWP Groundwater Supplies:**

Obtain and review the Modeled Available Groundwater (MAG)<sup>19</sup> volumes that are developed by TWDB based on the Desired Future Conditions (DFCs) adopted by Groundwater Management Areas (GMAs). MAG volumes for each aquifer will be available from TWDB through the DB22 interface, split into discrete geographic-aquifer units by: Aquifer; County; River Basin; and Region.

- 34) In areas that were not considered in the DFC process and therefore do not have MAG annual volumes but have groundwater supplies, or in RWPA in which no Groundwater Conservation District (GCD) exists<sup>20</sup>, develop RWPG-estimated groundwater availability for Board review and approval prior to inclusion in the IPP<sup>21</sup> and in accordance with the *First Amended General Guidelines for Regional Water Plan Development*.
- 35) Consider the impacts of the available MAG annual volumes on the regional water plan including how it impacts existing water supplies.
- 36) In areas with GCDs, obtain GCD Management Plans and GCD information to be considered when estimating existing supplies and water management strategies under future tasks.
- 37) Assign available water supplies, as appropriate, to WUGs and WWPs including conducting supply analyses for WWPs.

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<sup>18</sup> In accordance with the Guidelines for Regional Water Plan Data Deliverables. RWPG technical consultants must attend mandatory training on the Regional Water Planning Application (DB22).

<sup>19</sup> The estimated total pumping from the aquifer that achieves the DFC adopted by members of the associated GMA. MAG data to be entered into DB22 by TWDB (see guidance document).

<sup>20</sup> Related to 84(R) SB 1101 requirements. As of October 2016 these requirements only apply to the North East Texas (Region D) RWPG, as it is the only region currently in the state with no GCDs in its RWPA.

<sup>21</sup> 31 TAC 357.32(d)(2).

- 5) Select hydrologic and other assumptions for distribution of available groundwater for potential future use by WUGs (e.g. via a pro-rationing policy) as existing supply based on models and operational procedures appropriate for assessment of water supply and regional water planning purposes. A specific hydrologic variance request is required to utilize a MAG Peak Factor to accommodate temporary increases in existing annual availability for planning purposes<sup>22</sup>.
- 38) Evaluate TCEQ Water System Data Reports<sup>23</sup> from the Drinking Water Watch or SDWIS website for municipal WUGs using groundwater and identify any physical constraints limiting existing water supplies to WUGs and/or WWPs. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
- 39) Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
- 40) Compile and/or update information regarding acquisitions of groundwater rights, for example, for transfer to municipal use, and account for same in the assessment of both availability and existing groundwater supplies.
- 41) Based on the water availability, existing infrastructure, and associated physical and legal limitations, determines the existing groundwater supply available from each water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on water availability, infrastructure capacity, legal constraints, and/or operational limitations.
- 42) Complete and update all required data elements for DB22 through the web interface. <sup>24</sup>
- 43) Compile groundwater availability information by Source, WUG, Wholesale Water Provider, county, river basin, and planning region as necessary to obtain decadal estimates of supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs.

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<sup>22</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>23</sup> Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.

<sup>24</sup> In accordance with the Guidelines for Regional Water Plan Data Deliverables. RWPG technical consultants must attend mandatory training on DB22.

### III) Estimate System, Reuse, and Other Types of Existing Supplies:

#### Systems, Reuse, and Other Water Supplies

- 44) Integrate firm water supplies for WUGs using a system of supply sources (e.g., surface water, storage, and groundwater).
- 45) Research and quantify existing supplies and commitments of treated effluent through direct and indirect reuse.
- 46) Compile systems, reuse, and other availability information by source, WUGs, wholesale water provider, county, river basin, and planning region as necessary to obtain decadal estimates of supply throughout the planning period.
- 47) Assign available water supplies, as appropriate, to WUGs and WWP's including conducting demand analyses for WWP's.
- 48) Identify and sub-categorize existing sources in DB22 to extract unique sources. In addition to surface water, groundwater, and reuse, for example, further clarify the source types in DB22 to subcategorize other specific water sources such as desalinated groundwater or desalinated surface water, and seawater desalination, and any other supply types that are connected supplies.
- 49) Review and confirm the accuracy of the *TWDB DB22 Availability* and associated *TWDB DB22 Existing Water Supply* reports from DB22 and incorporate these planning database reports directly into the Technical Memorandum and other planning documents (labeled as such and with source reference).
- 50) Identify any physical constraints limiting these existing water supplies to WUGs and/or WWP's including based on TCEQ Water System Data Reports<sup>25</sup>. Limitations to be considered based on delivering treated water to WUGs. Other information that the RWPGs collect, for example, survey results, may be included in the evaluation of infrastructure capacity or limitations in delivering treated water to WUGs.
- 51) Update information on WWP contractual obligations to supply water to other entities including within DB22. Unless the RWPG considers it unlikely that a specific contract will be renewed, water supplies based on contractual agreements shall be assumed to renew at the contract termination date, for example, if the contract provides for renewal or extensions. Report this information within any planning memorandums or reports, as appropriate.
- 52) Based on the water availability, existing infrastructure, and associated physical and legal limitations, determines the existing system, reuse, and other water supplies

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<sup>25</sup> Available from TCEQ at <http://dww2.tceq.texas.gov/DWW/>.

available from each water source to each WUG and WWP (including newly identified WUGs and WWPs) during a drought of record based on source water availability, infrastructure capacity, legal constraints, and/or operational limitations.

- 10) Complete and update all required data elements for DB22 through the web interface.
  
- 53) Compile these supplies by source, WUG, wholesale water provider, county, river basin, and planning region as necessary to obtain decadal estimates of existing surface water supply throughout the planning period. This will be facilitated by *TWDB DB22 Water Source Availability* and associated *TWDB DB22 WUG and WWP Existing Water Supply* reports using data provided by RWPGs and made available to all RWPGs through the DB22 interface.
  
- 54) Review, confirm the accuracy of, and incorporate the required associated planning database reports directly into the Technical Memorandum, IPP, and adopted RWP under Task 4C.
  
- 55) In addition to submitting the electronic model files necessary to replicate results, the Technical Memo, IPP, and adopted RWP shall include a written summary of all WAMs and Groundwater Availability Models (GAMs) on which the surface and groundwater availability in the RWP is based (except for availability associated with MAGs), to include:
  - the named/labeled version (incl. date) of each model used;
  - a summary of any modifications to each model and the date these modifications were approved by the EA;
  - name of the entity/firm that performed the model run; and
  - the dates of the model runs.<sup>26</sup>

Includes all work required to coordinate with other planning regions to develop and allocate estimates of water availability and existing water supplies.

**Task 4A – Identification of Water Needs (Water User Group analysis to be performed by the TWDB) <sup>27</sup>**

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**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,

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<sup>26</sup> All input files of WAM models shall be included as an electronic appendix in the IPP and RWP.

<sup>27</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

this portion of work shall, in particular, include all work necessary to meet all the requirements of 31 TAC §357.33.<sup>28</sup>

- 4) Prepare a standalone chapter<sup>29</sup> to be included in the 2021 RWP that also incorporates all required DB22 reports into the document.
- 56) *Based upon updated projections of existing water supply and projected water demands under Tasks 2 and 3, and the associated data entered into DB22, TWDB will update computations of identified water needs (potential shortages) by WUGs and WUG customers of WWPs. As decadal estimates of needs (potential shortages) as well as by county, river basin, and planning region.*
- 57) *The results of this computation will be provided by TWDB via DB22 to RWPGs in a customizable format that is in accordance with TWDB rules as the TWDB DB22 Identified Water Needs report*
- 58) 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 DB22 constraints and TWDB resources. The RWPG will need to enter or provide any additional data into DB22 that may be necessary to develop these evaluations.
- 59) The DB22 needs reports and RWPG-identified water needs for WWPs shall be incorporated by the RWPG into the Technical Memorandum, IPP, and adopted RWP (labeled as such and with source reference).
- 60) *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 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.*
- 61) If the RWPG chooses to develop its own socioeconomic analysis the resulting socioeconomic report, with documented methodology, shall be incorporated into the IPP and adopted regional water plan by the RWPG.
- 62) A secondary needs analysis will be calculated by TWDB based on DB22 for all WUGs and WWPs 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 DB22 Second-Tier Identified Water Need* report.

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<sup>28</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>29</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

**Task 4B - Identification of Potentially Feasible Water Management Strategies<sup>30</sup>**

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

- 63) 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).<sup>31</sup>
- 64) Receive public comment on a proposed process to be used by the RWPG to identify and select water management strategies for the 2021 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 2021 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.
- 65) Consider the TWDB Water Loss Audit Report, conservation best management practices, and drought management when considering potentially feasible water management strategies as required by rules.
- 66) 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.
- 67) Plans to be considered in developing water management strategies include those referenced under 31 TAC §357.22.
- 68) If no potentially feasible strategy can be identified for a WUG or WWP with a need, document the reason for this in the Technical Memorandum and the IPP and adopted regional water plans.
- 69) Consider recent studies and describe any significant changes in water management strategies described as being in the implementation phase in the 2021 RWP as well as any new projects in the implementation phase prior to adoption of the Initially Prepared 2021 Regional Water Plan.
- 70) 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 2016 regional

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<sup>30</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>31</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

water plan but which are being treated as unique entities for the 2021 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 Regional Water Planning Group Analysis of Water User Group and Major Water Provider Needs<sup>32</sup>**

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:
  - a) each of the DB22 reports described under Tasks 2A, 2B, 3, 4A, and 4B as required by the *First Amended General Guidelines for Regional Water Plan Development* (Table 2) within the body of the memorandum;
  - b) the documented process used by the RWPG to identify potentially feasible water management strategies;
  - c) a single tabular list of all potentially feasible water management strategies identified by the RWPG to date;
  - d) information regarding the versions and dates of all WAM and GAM models on which the surface and groundwater availabilities are based (except for availability associated with MAGs); and
  - e) submittal of the electronic model files necessary to replicate results.
- 2) Approve submittal of the Technical Memorandum to TWDB at a regular RWPG 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:
  - f) Develop preliminary water needs analyses outside of DB22 that may be necessary due to DB22 not yet being available; and
  - g) Prepare, organize, enter, and/or update required data elements for DB22 including data related to existing water supplies or water management strategies.

#### **Task 5A - Evaluation and Recommendation of Water Management Strategies and Associated Water Management Strategy Projects**

The objective of this task is to evaluate and recommend Water Management Strategies (WMSs) and their associated Water Management Strategy Projects (WMSPs), including preparing a separate chapter and subchapter (on conservation recommendations see -

Task 5B) to be included in the 2021 RWP that describes the work completed, presents the potentially feasible WMSs, recommended and alternative WMSs and WMSPs, including all the technical evaluations, and presents which water user entities will rely on the recommended WMSs and WMSPs.

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

- 71) 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 Tasks 4B, 5A, or 5B.<sup>33</sup>
- 72) Plans to be considered in developing WMSs include those referenced under 31 TAC §357.22.
- 73) Inclusion of a list of the potentially feasible WMSs that were identified by the RWPG. Information to include what past evaluations have been performed for each potentially feasible WMS listed.
- 74) 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 and WMSP 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)-(h) and §357.35.
- 75) Process documentation of selecting all recommended WMSs and associated WMSPs including development of WMS evaluations matrices and other tools required to assist the RWPG in comparing and selecting recommended WMSs and WMSPs.
- 76) Consideration of water conservation and drought contingency plans from each WUG, as necessary, to inform WMS evaluations and recommendations.
- 77) Communication, coordination, and facilitation required within the RWPA and with other RWPGs to develop recommendations.
- 78) Updates to descriptions and associated technical analyses and documentation of any WMSs and WMSPs that are carried forward from the previous RWP to address:

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<sup>32</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

<sup>33</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.



- h) Changed conditions or project configuration
  - i) Changes to sponsor of WMS and WMSP(s)
  - j) Updated costs (based on use of required costing tool<sup>34</sup>)
  - k) Other changes that must be addressed to meet requirements of 31 TAC §357.34 and §357.35.
- 9) Assignment of all recommended WMS water supplies to meet projected needs of specific WUGs.
- 10) Documentation of the evaluation and selection of all recommended WMS and WMSPs, including an explanation for why certain types of strategies (e.g., aquifer storage and recovery, seawater desalination, brackish groundwater desalination) may not have been recommended.
- 11) Coordination with sponsoring WUGs, 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.
- 12) If TWC §11.085 applies to the proposed inter-basin transfer (IBT), 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 or WWP WUG customer recommended to rely on a WMS involving the IBT. Recommended conservation WMSs associated with this analysis shall be presented by WUG.
- 13) Presentation of the water supply plans in the RWP for each WUG and WWP relying on the recommended WMSs and WMSPs.
- 14) Consideration of alternative WMSs and WMSPs for inclusion in the plan. Alternative water management strategies must be fully evaluated in accordance with 31 TAC §357.34(d)-(h).
- 15) Incorporation of all required DB22 reports into document.
- 16) Submission of data through DB22 to include the following work
- l) review of the data,
  - m) confirmation that data is accurate, and
  - n) incorporation of the required DB22 reports into the draft and final regional water planning chapter document.
- 17) Review of the chapter document and related information by RWPG members.

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<sup>34</sup> See Section 5.5.1 under ‘Financial Costs’ in *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 18) Modifications to the chapter document based on RWPG, public, and or agency comments.
- 79) Submittal of chapter document to TWDB for review and approval; and
- 80) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.

81) [SCOPE OF WORK TO BE DETERMINED]

*Scope of Work to be amended based on specific Task 5A scope of work to be developed and negotiated with TWDB. Work under this Task to be performed only after approval and incorporation of Task 5A scope of work and written notice-to-proceed. NOTE: Work effort associated with preparing and submitting a proposed Task 5A scope of work for the purpose of obtaining a written 'notice-to-proceed' from TWDB is not included in Task 5A and shall not be reimbursed under the Contract.*

**Deliverables:** A completed Chapter 5 shall be delivered in the 2021 RWP as a work product to include technical analyses of all evaluated WMSs and WMSPs. Data shall be submitted and finalized through DB22 in accordance with the *Guidelines for Regional Water Planning Data Deliverables*.

**Task 5B - Water Conservation Recommendations**

The objective of this task is to prepare a separate subchapter<sup>35</sup> of Chapter 5 to be included in the 2021 RWP that consolidates conservation-related recommendations and provide model water conservation plans.

**Work shall include but not be limited to the following:**

- 82) 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(g).<sup>36</sup>
- 83) Consider water conservation plans from each WUG, as necessary, to inform conservation WMSs and other recommendations.
- 84) If applicable, explanation of the RWPG's basis for not recommending conservation for WUGs that had identified water needs but did not have a recommended conservation WMS.

<sup>35</sup> This shall be a separate subchapter as required by 31 TAC §357.34(h).

<sup>36</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 4) If applicable, present what level of water conservation (as existing conservation or proposed within a water management strategy) is considered by the RWPG as the "highest practicable level" of water conservation for each WUG and WWP WUG customer that are dependent upon water management strategies involving inter-basin transfers to which TWC 11.085 applies.
- 85) Provision of model water conservation plans that may be referenced, instead of included in hard copy, in this subchapter, for example, by using internet links.
- 86) Review of the subchapter document and related information by RWPG members.
- 87) Modifications to the subchapter document based on RWPG, public, and or agency comments.
- 88) Submittal of subchapter document to TWDB for review and approval; and
- 89) All effort required to obtain final approval of the regional water plan by TWDB.

**Deliverables:** A completed Subchapter of Chapter 5 shall be delivered in the 2021 RWP as a work product.

#### **Task 6 - Impacts of Regional Water Plan and Consistency with Protection of Resources**

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The objective of this task is to prepare a separate chapter<sup>37</sup> to be included in the 2021 Regional Water Plan (RWP) that describes the potential impacts of the regional water plan and how the plan is consistent with long-term protection of water resources, agricultural resources, and natural resources.

#### **Work shall include but not be limited to the following:**

- 90) 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 §357.40, §357.43(b)(2), and §357.41.<sup>38</sup>
- 91) Evaluation of the estimated cumulative impacts of the regional water plan, for example on groundwater levels, spring discharges, bay and estuary inflows, and instream flows.
- 92) Assessment of the impact of the RWP on designated unique river or stream segments by the legislature.

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<sup>37</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

<sup>38</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 5) Review of the chapter document by RWPG members.
- 93) Modifications to the chapter document based on RWPG, public, and or agency comments.
- 94) Submittal of chapter document to TWDB for review and approval; and
- 95) All effort required to obtain final approval of the regional water plan chapter by TWDB.

**Deliverables:** A completed Chapter 6 shall be delivered in the 2021 RWP as a work product.

### **Task 7 - Drought Response Information, Activities and Recommendations**

The objective of this task is to prepare a separate chapter<sup>39</sup> to be included in the 2021 RWP that: presents information regarding historical droughts and preparations for drought in the region; develops recommendations for triggers and responses to the onset of drought conditions; evaluates potential emergency responses to local drought conditions; and includes various other drought-related evaluations and recommendations.

#### **Work shall include but not be limited to the following:**

- 96) 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 §357.42.<sup>40</sup>
- 97) Plans to be considered in developing this chapter include relevant plans referenced under 31 TAC §357.22.
- 98) Collecting information on previous and current responses to drought in the region including reviewing drought contingency plans received from each WUG and determining what measures are most commonly used and whether these measures have been recently implemented in response to drought conditions.
- 99) Determining whether there is any reliable information on the reduction in demands on individual WUGs caused by their implementation of drought contingency measures.
- 100) Process of selecting recommended triggers and actions including any tools required to assist the RWPG in comparing options and making recommendations.

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<sup>39</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

<sup>40</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

- 6) Consideration of drought contingency plans from each WUG, as necessary, to inform WMS evaluations and recommendations.
- 101) Coordination and communication, as necessary, with entities in the region to gather information required to develop recommendations.
- 102) Summarization of potentially feasible drought management WMS, recommended drought management WMS, and or alternative drought management WMSs, if any, associated with work performed under Task 5A.
- 103) If applicable, explanation of the RWPG's basis for not recommending drought management strategies for WUGs that had identified water needs but did not have a recommended drought management WMS.
- 104) Development by the RWPG of region-specific model drought contingency plans consistent with TCEQ requirements that, at a minimum, identify triggers for and responses to the most severe drought response stages commonly referred as 'severe', 'critical' and 'emergency' drought conditions.
- 105) Summary of any other drought management measures recommended by the RWPG.
- 106) Preparation of tabular data for inclusion in chapter.
- 107) Review of the chapter document and related information by RWPG members.
- 108) Modifications to the chapter document based on RWPG, public, and or agency comments.
- 109) Submittal of chapter document to TWDB for review and approval; and
- 110) All effort required to obtain final approval of the regional water plan chapter and associated data by TWDB.

**Deliverables:** A completed Chapter 7 shall be delivered in the 2021 RWP as a work product. Data shall be submitted in the form of tables included in the chapter.

#### **Task 8 - Recommendations Regarding Unique Stream Segments and/or Reservoir Sites and Legislative & Regional Policy Issues**

The objective of this task is to prepare a separate chapter<sup>41</sup> to be included in the 2021 RWP that presents the RWPG's unique stream segment, unique reservoir site, legislative, administrative, and regulatory recommendations.

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<sup>41</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

**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 §357.43 and §358.2. <sup>42</sup>
- 2) Plans to be considered in developing this chapter include relevant plans referenced under 31 TAC §357.22.
- 3) RWPG consideration and discussion of potential recommendations for designation of ecologically unique stream segments within the RWPA, based on criteria in 31 TAC §358.2.
- 4) If applicable, prepare a draft memorandum recommending which stream segments in the region, if any, should be recommended for designation as ecologically unique stream segments. Evaluate and incorporate comments from the RWPG. Upon approval by the group, submit the draft memorandum to TWDB and TPWD for comments.
- 5) RWPG consideration and discussion of potential recommendations for designation of unique reservoir sites within the RWPA.
- 6) If applicable, prepare a draft memorandum recommending designation of unique sites for reservoir development. Evaluate and incorporate comments from the RWPG. Upon approval by the group, submit the draft memorandum to TWDB for comments.
- 7) RWPG consideration and discussion of potential regional policy issues; identification and articulation of recommendations for legislative, administrative, and regulatory rule changes; and negotiations toward RWPG consensus.
- 8) Review of the chapter document and related information by RWPG members.
- 9) Modifications to the chapter document based on RWPG, public, and or agency comments.
- 10) Submittal of chapter document to TWDB for review and approval; and
- 11) All effort required to obtain final approval of the regional water plan chapter by TWDB.

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<sup>42</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

**Deliverables:** A completed Chapter 8 shall be delivered in the 2021 RWP as a work product.

### **Task 9 - Water Infrastructure Funding Recommendations**

The objective of this task is to report on how sponsors of recommended WMSPs propose to finance projects as a separate chapter<sup>43</sup> to be included in the 2021 RWP.

#### **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 §357.44.<sup>44</sup>
- 2) Coordination and communication with sponsoring WUGs, wholesale water providers, and/or other water agencies.
- 3) Perform a survey, including the following work:
  - o) Contacting WMSP sponsors/WUGs,
  - p) Collection and collation of data,
  - q) Documentation of the effectiveness of survey methodology, providing percent survey completions, and whether an acceptable minimum percent survey completion was achieved, and
  - r) Submission of data into the online survey tool.
- 4) Coordination with WUGs and WWP as necessary to ensure detailed needs and costs associated with their anticipated projects are sufficiently represented in the RWP for future funding determinations.
- 5) Assisting the RWPG with the development of recommendations regarding the proposed role of the State in financing water infrastructure projects identified in the RWP.
- 6) Summarizing the survey results.
- 7) Review chapter document and related information by RWPG members.
- 8) Submittal of chapter document to TWDB for review and approval; and
- 9) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.

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<sup>43</sup> This shall be a separate chapter as required by 31 TAC §357.22(b).

<sup>44</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

**Deliverables:** A completed Chapter 9 shall be delivered in the 2021 RWP as a work product to include summary of reported financing approaches for all recommended WMSPs. Data shall be submitted and finalized through the online survey tool in accordance with the *Guidelines for Regional Water Planning Data Deliverables*.

### **Task 10 - Public Participation and Plan Adoption<sup>45</sup>**

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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 and necessary to complete and submit an IPP and final RWP and obtain TWDB approval of the RWP.

#### **Work shall include but not be limited to the following:**

- 111) In addition to generally meeting all applicable statute requirements governing regional and state water planning this portion of work shall, in particular, include all technical and administrative support activities necessary to meet all the requirements of 31 TAC Chapters 355, 357, and 358 that are not already addressed under the scope of work associated with other contract Tasks but that are necessary and or required to complete and deliver an IPP and final, adopted RWP to TWDB and obtain approval of the adopted RWP by TWDB.<sup>46</sup>
- 112) Organization, support, facilitation, and documentation of all meetings/hearings associated with: preplanning meeting; meetings associated with revision of projections; consideration of a substitution of alternative water management strategies; public hearing after adoption of the IPP and prior to adoption of the final RWP; and consideration of Regional Water Plan Amendments, alternative WMS substitutions, or Board-directed revisions.

#### **Technical Support and Administrative Activities**

- 113) Attendance and participation of technical consultants at RWPG, subgroup, subcommittees, special and or other meetings and hearings including preparation and follow-up activities.
- 114) Developing technical and other presentations and handout materials for regular and special meetings to provide technical and explanatory data to the RWPG and its subcommittees, including follow-up activities.

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<sup>45</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Fifth Cycle of Regional Water Plan Development*.

<sup>46</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.



- 6) Collecting and evaluating information, including any information gathering surveys from water suppliers or WUGs, (e.g., on existing infrastructure; existing water supplies; potentially feasible WMSs) and or maintenance of contact lists for regional planning information in the region.
- 115) Administrative and technical support and participation in RWPG activities, and documentation of any RWPG workshops, work groups, subgroup and/or subcommittee activities.
- 116) Technical support and administrative activities associated with periodic and special meetings of the RWPG including developing agendas and coordinating activities for the RWPG.
- 117) Provision of status reports to TWDB for work performed under this Contract.
- 118) Development of draft and final responses for RWPG approval to public questions or comments as well as approval of the final responses to comments on RWP documents.
- 119) Intraregional and interregional coordination and communication, and or facilitation required within the RWPA and with other RWPGs to develop a RWP including with water suppliers or other relevant entities such as groundwater conservation districts, WUGs, and or WWP.
- 120) Incorporation of all required DB22 reports into RWP document.
- 121) Modifications to the RWP documents based on RWPG, public, and or agency comments.
- 122) Preparation of a RWP chapter summarizing Task 10 activities including review by RWPG and modification of document as necessary.
- 123) Development and inclusion of Executive Summaries in both IPP and final RWP.
- 124) Production, distribution, and submittal of all draft and final RWP-related planning documents for RWPG, public and agency review, including in hard-copy format when required.
- 125) Assembling, compiling, and production of the completed IPP and Final Regional Water Plan document(s) that meet all requirements of statute, 31 TAC Chapters 355, 357 and 358, Contract and associated guidance documents.
- 126) Submittal of the RWP 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.

### **Other Activities**

- 18) Review of all RWP-related documents by RWPG members.
- 12) Development and maintenance of a RWPG website or RWPG-dedicated webpage on the RWPG administrator's website for posting planning group meeting notices, agendas, materials, and plan information.
- 13) Limited non-labor, direct costs associated with maintenance of the RWPG website.
- 14) Development of agendas, presentations, and handout materials for the public meetings and hearings to provide to the general public.
- 15) 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.
- 16) Preparation and transmission of correspondence, for example, directly related to public comments on RWP documents.
- 17) Promoting consensus decisions through conflict resolution efforts including monitoring and facilitation required to resolve issues between and among RWPG members and stakeholders in the event that issues arise during the process of developing the RWP, including mediation between RWPG members, if necessary.
- 18) RWPG membership solicitation activities.
- 19) Meeting all posting, meeting, hearing and other public notice requirements in accordance with the open meetings act, statute, and 31 TAC §357.21 and any other applicable public notice requirements.
- 20) Solicitation, review, and dissemination of public input, as necessary.

**Deliverables:** Complete IPP and final, adopted RWP documents shall be delivered as work products. This includes a completed Chapter 10 summarizing public participation activities and appendices with public comments and RWPG responses to comments.

**Task 11 – Implementation and Comparison to the Previous Regional Water Plan** The objective of this task is to evaluate and recommend water management strategies (WMS) including preparing a separate chapter<sup>47</sup> to be included in the 2021 RWP that reports on the degree of implementation of WMSs from the previous RWP and summarizes how the new ~~RWP compares to the previous RWP.~~

<sup>47</sup>This shall be a separate chapter as required by 31 TAC §357.22(b).



**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 §357.45.<sup>48</sup>
- 2) Implementation (31 TAC §357.45(a)):
  - s) Coordination and communication with RWPG representatives and sponsors of WMSs, including WUGs and WWP
  - t) Documentation of the level of implementation of each WMS that was recommend in the previous regional water plan
  - u) Submission of implementation results data in the online survey tool and in spreadsheet format
  - v) To the extent feasible, identify other projects implemented by these entities that are not included in the previous RWP
- 3) Comparison to the Previous Regional Water Plan (31 TAC §357.45(b)):
  - w) Compare the RWP to the previous RWP by chapter in the new RWP
  - x) Summarize differences quantitatively and qualitatively
  - y) Present information in graphical, tabular, and written format
- 4) Review of the chapter document and related information by RWPG members.
- 5) Modifications to the chapter document based on RWPG, public, and or agency comments.
- 6) Submittal of chapter document to TWDB for review and approval; and
- 7) All effort required to obtain final approval of the regional water plan chapter and associated DB22 data by TWDB.

**Deliverables:** A completed Chapter 11 shall be delivered in the 2021 RWP as a work product. Survey data shall be submitted and finalized through the online survey tool in accordance with the *Guidelines for Regional Water Planning Data Deliverables*.

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<sup>48</sup> Requirements are further explained in the guidance document *First Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

## **Task 12 - Prepare and submit prioritization of projects in the 2021 Regional Water Plan**

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The objective of this task is to prioritize the projects in the 2021 regional water plan and include all work necessary to meet all requirements of 31 TAC §357.46.

TWDB will provide to the RWPGs an alphabetized **region-sponsor- project prioritization template** that contains projects that the region must prioritize under this Task. The alphabetized region-sponsor-project prioritization template is based upon the recommended WMSP in the 2021 regional water plan, as provided by the RWPG to TWDB through DB22.

Work includes, but is not limited to, the following:

1. Applying all of the uniform standards to each project and filling in the prioritization template provided by TWDB.
2. Approval of submittal to TWDB of the final prioritization template at regular RWPG meetings.
3. Submission to TWDB of the final prioritization templates in the same format as provided by TWDB and that displays each uniform standard score, for each project.

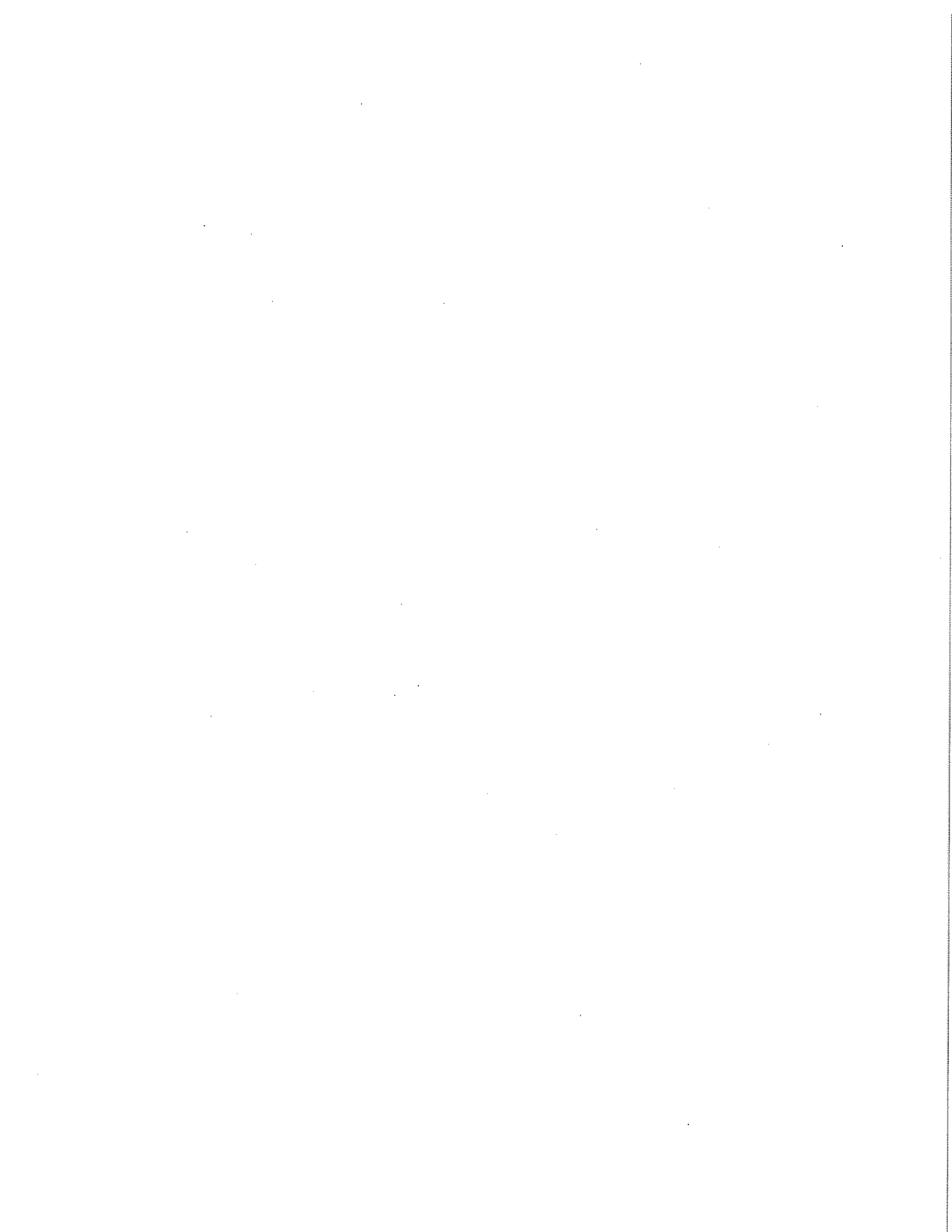
**Deliverables:** A completed prioritization of projects submitted in the form of a filled-in region-sponsor-project prioritization template to TWDB by the submittal date of the final adopted RWP<sup>49</sup>.

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<sup>49</sup> The prioritized projects shall be submitted separately with the adopted RWP as required by 31 TAC §357.46.



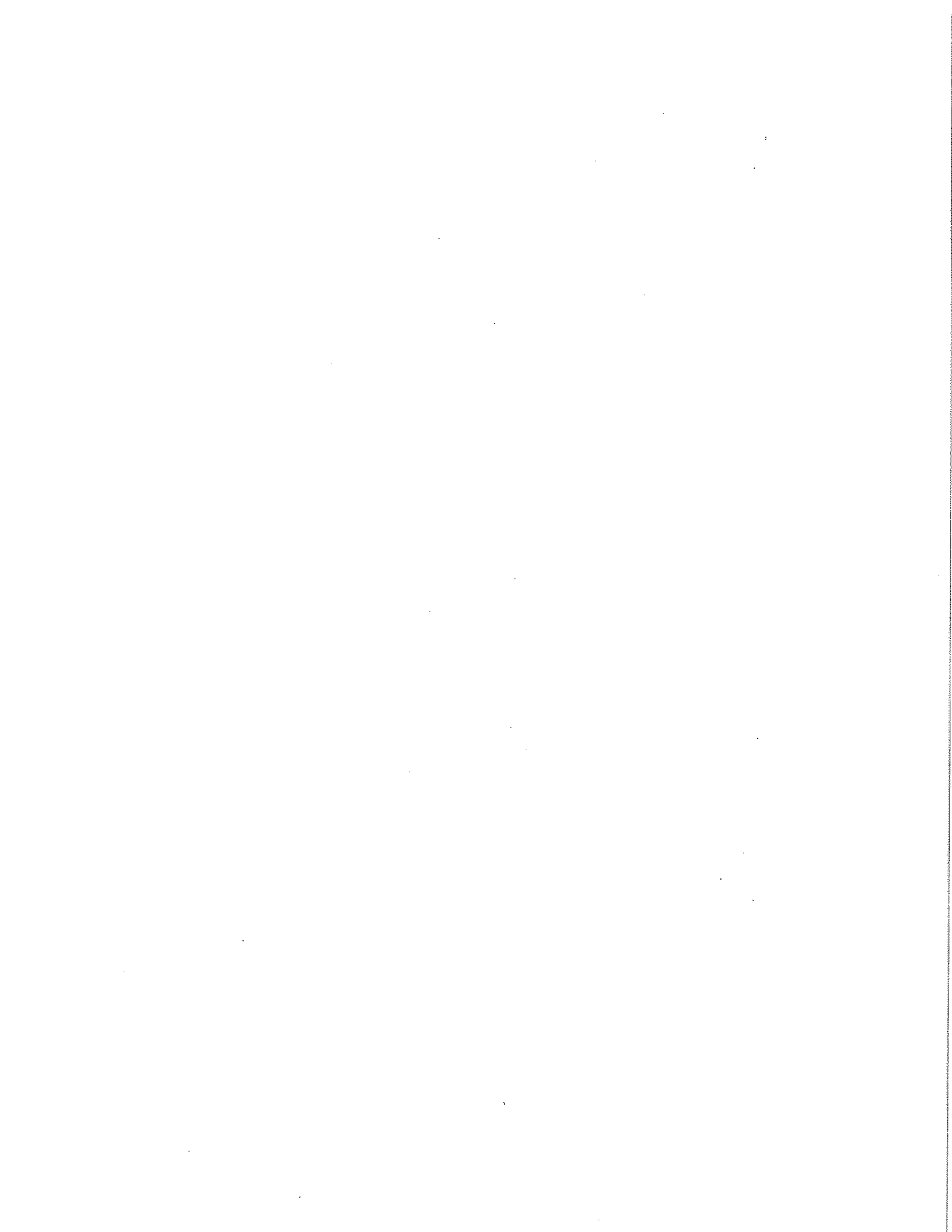
**Attachment 2  
Exhibit B**

At the time Amendment No. 1 to the LCRA-TWDB Contract was executed, TWDB was not appropriated sufficient funds to provide the total study costs to LCRA. Of the total study costs, TWDB made available to LCRA the amount of committed funds of \$423,201, of which \$5,000 is allocated to LCRA and the remaining \$418,201 is the limit of AECOM's effort and billing under the current authorization. When additional funds become available to the TWDB for the purposes of making grants for preparation of regional water plans, the TWDB will commit additional funds to LCRA, not to exceed the total study costs shown below. LCRA will then execute a new change order to authorize the appropriate additional funding to AECOM.

**Task and Expense Category Budgets**

**TASK BUDGET**

Contract SOW Task	TWDB CAS Task Number	Task Description	Task Budget
1	4	Planning Area Description	\$14,691
2A	1	Non-Population Related Water Demand Projections	\$24,387
2B	2	Population and Population-Related Water Demand Projections	\$33,165
3	5	Water Supply Analyses	\$80,290
4A	6	Identification of Water Needs	\$13,754
4B	7	Identification of Potentially Feasible WMS	\$17,996
4C	8	Technical Memorandum	\$17,191
5A	9	Evaluation and Recommendation of WMS and Associated WMS Projects	\$319,178
5B	10	Water Conservation Recommendations	\$29,353
6	11	Impacts of Plan and Consistency with Protection of Resources	\$39,816
7	12	Drought Response Information, Activities, and Recommendations	\$64,400
8	13	Unique Sites and Policy Recommendations	\$8,669
9	14	Infrastructure Financing Analysis	\$9,629
10	3	Public Participation and Plan Adoption	\$187,822
11	15	Implementation and Comparison to the Previous Regional Water Plans	\$21,865
12	16	Prepare and Submit Prioritization of Projects	\$11,760
		<b>Total</b>	<b>\$893,966</b>





## CONTRACTOR EXPENSE BUDGET

CATEGORY	ORIGINAL AMOUNT
Other Expenses <sup>1</sup>	\$14,000.00
Subcontract Services	879,966.00
Voting Planning Member Travel <sup>2</sup>	0.00
Total Study Cost <sup>3</sup>	\$893,966.00

**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 100 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 other direct costs of public meetings, all of which must be directly related to planning (e.g., newspaper and other public notice posting costs).

<sup>2</sup> **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, 2013, Article IX, Part 5, as amended or superseded.

<sup>3</sup> **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; 0 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.

**SUBCONTRACTOR (AECOM) EXPENSE BUDGET**

<b>CATEGORY</b>	<b>AMOUNT</b>
<i>Salaries &amp; Wages<sup>1</sup></i>	\$ 290,345
<i>Fringe<sup>2</sup></i>	\$ 116,138
<i>Travel</i>	\$ 1,000
<i>Other Expenses<sup>3</sup></i>	\$ 11,000
<i>Trungale Engineering and Science Subcontract Services</i>	\$ 40,000
<i>James Kowis Consulting Subcontract Services</i>	\$ 15,000
<i>Overhead<sup>4</sup></i>	\$ 284,538
<i>Profit</i>	\$ 121,945
<b>TOTAL COSTS</b>	\$ 879,966

<sup>1</sup> **Salaries and Wages** is defined as the cost of salaries of engineers, draftsmen, stenographers, surveyors, clerks, laborers, etc., for time directly chargeable to this contract.

<sup>2</sup> **Fringe** is defined as the cost of social security contributions, unemployment, excise, and payroll taxes, employment compensation insurance, retirement benefits, medical and insurance benefits, sick leave, vacation, and holiday pay applicable thereto.

<sup>3</sup> **Other Expenses** is defined to include expendable supplies, communications, reproduction, and postage.

<sup>4</sup> **Overhead** is defined as the costs incurred in maintaining a place of business and performing professional services similar to those specified in this contract. These costs shall include the following:



- Indirect salaries, including that portion of the salary of principals and executives that is allocable to general supervision;
- Indirect salary fringe benefits;
- Accounting and legal services related to normal management and business operations;
- Travel costs incurred in the normal course of overall administration of the business;
- Equipment Rental;
- Depreciation of furniture, fixtures, equipment and vehicles;

