

Region K Public Meeting

October 24, 2018

Lower Colorado Regional Water Planning Group
(Region K)



October 24, 2018

Agenda

1. Call to Order
2. Welcome and Introductions
3. Receive public comments
4. Attendance Report
5. Consent Agenda
6. Texas Water Development Board
7. Committee Reports

Agenda Item 7a

WATER MANAGEMENT STRATEGIES COMMITTEE REPORT

7a. Water Management Strategies Committee Report

▼ Committee met on October 15th

- Discussion of water management strategies that were scoped for evaluation during the 2016 planning cycle.
- Committee decided whether or not to recommend, strategy by strategy, that the RWPG include it in the scope of work for strategy evaluation for this cycle.
- Additional decisions for certain strategies on whether to break one strategy out into multiple for clarification purposes.
- Only able to address 2016 planning cycle strategies in the time available.
- Will be meeting on November 30th to further consider new strategies being requested this cycle, other strategy suggestions by the committee or from public input, and discussion of certain issues that will need to be addressed this cycle.
- Recommendation by committee led to draft amended Task 5A partial Scope of Work that will be presented today for discussion and consideration.

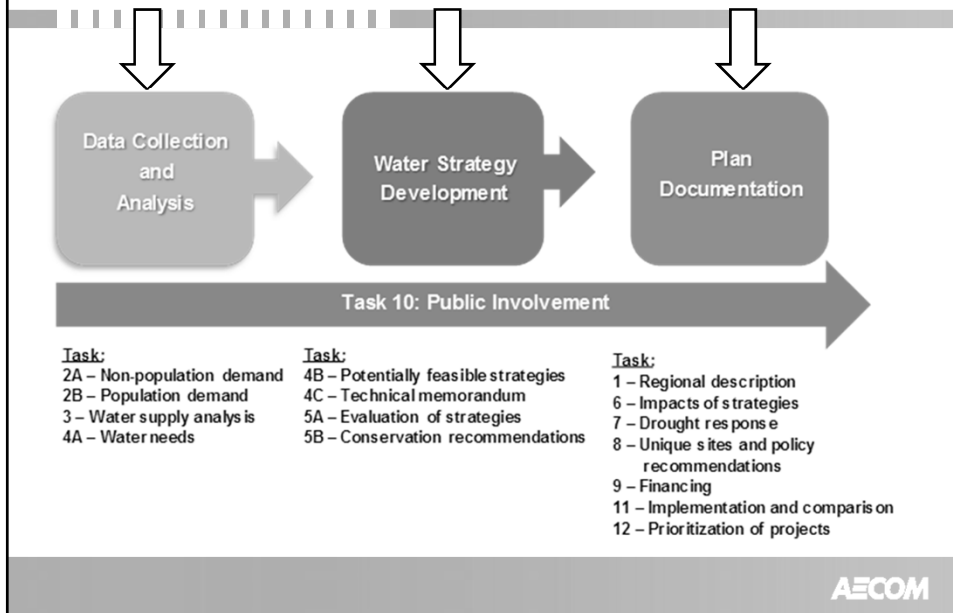
7a. Water Management Strategies Committee Report

- ▼ Committee met on October 15th
 - New potentially feasible water management strategies that were identified that had not been specifically identified at a Region K meeting this cycle include:
 - New water purchase
 - New water purchase requiring infrastructure
 - Water purchase amendment
 - Water purchase amendment requiring infrastructure
 - Reduced lake evaporation

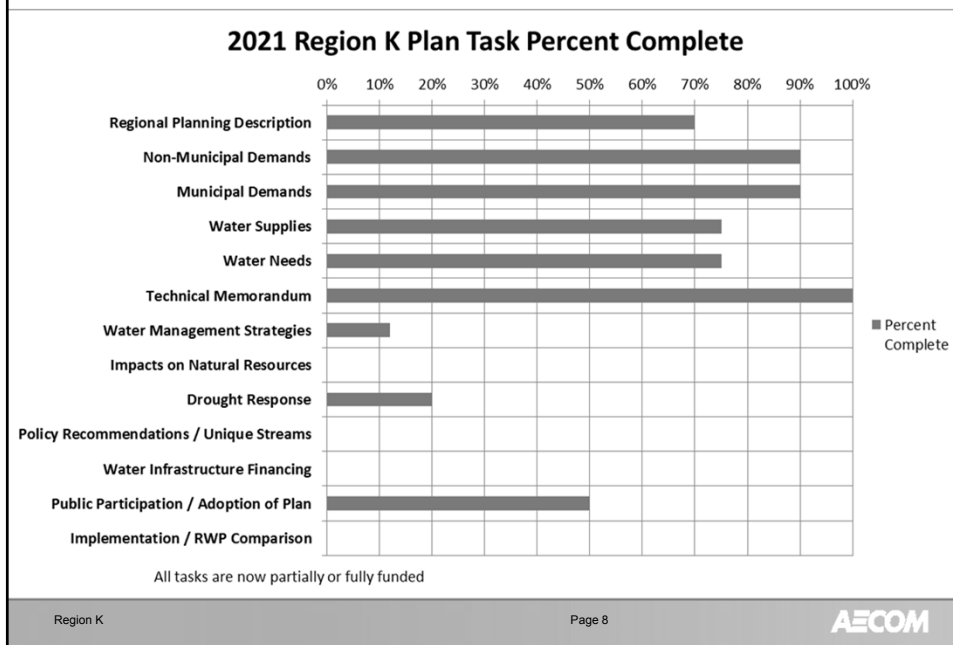
Agenda Item 8

CONSULTANT STATUS REPORT

8. Consultant Status Report



8. Consultant Status Report



**8. Consultant Status Report
Effort since last meeting (August 29, 2018)**

- ▼ Technical Memorandum submitted to TWDB.
 - No public comments received.
 - TWDB responded with letter on October 2nd stating submittal was administratively complete.

- ▼ Updating Chapter 2 of 2021 Plan – Population and Demand Projections
 - Discussion of methodologies and projections for population, municipal demand, and non-municipal demands.
 - Identification of Major Water Providers and their commitments.
 - Discussion of environmental demands – looking at options for keeping in main text or moving to an appendix.
 - Will send to Population and Demand Committee for initial review.

**8. Consultant Status Report
Effort since last meeting (August 29, 2018)**

- ▼ Updating Chapter 1 of 2021 Plan – Regional Planning Area Description
 - Discussion of planning process
 - Description of the region
 - Physical characteristics – geology, climate, resources, etc.
 - Socioeconomic characteristics – population trends, economic activities, historical water uses, major water providers
 - Water quality
 - Agricultural and natural resource issues
 - Existing water planning in the region
 - Water audit data
 - Still working on updates, will provide draft to entire RWPG when ready

8. Consultant Status Report Effort since last meeting (August 29, 2018)

- ▼ Starting update of Chapter 3 of 2021 Plan – Water Availability and Supplies
 - Surface water availability methodologies and volumes (by source and basin)
 - Groundwater availability methodologies and volumes (by aquifer)
 - Summary of region-wide availability numbers
 - Major water providers’ water availability
 - Water supplies for region
 - Will provide draft to Water Modeling Committee for initial review when ready

8. Consultant Status Report Effort since last meeting (August 29, 2018)

- ▼ Drought Response
 - Continued updating drought triggers and responses for the region.
 - Working on other requirements for this task and updating Chapter 7 of Plan.
 - Will look at scheduling a Drought Committee meeting for early 2019.
- ▼ Water Management Strategies
 - Submitted partial scope of work for Task 5A (evaluation of water management strategies) to TWDB, based on RWPG approval on August 29th.
 - Worked with Water Management Strategies Committee to consider additional strategies for evaluation to present to RWPG and complete Task 5A scope of work.
 - Preparation of amended draft partial scope of work for Task 5A – evaluation of water management strategies for RWPG consideration. (later agenda item)

8. Consultant Status Report Upcoming effort

- ▼ Continue completion of updates to Chapters 1-4, 7 for 2021 Plan. Hope to have drafts ready for RWPG review for most of these by early 2019.
- ▼ Once approved, start evaluations of water management strategies.
- ▼ Legislative and Policy Committee to start meeting in 2019?

Agenda Item 9

DISCUSS AND CONSIDER UPDATES TO NON-MAG AVAILABILITY METHODOLOGIES

9. Discuss and Consider Updates to Non-MAG Availability Methodologies

- ▼ Modeled Available Groundwater (MAG) volumes used for majority of the groundwater sources in the region.
- ▼ Several groundwater sources do not have MAG volumes because the GMAs identified the sources as non-relevant for joint planning purposes.
- ▼ Region was required to identify the non-MAG availability methodologies in the Technical Memorandum.
- ▼ A few updates have occurred since then. Would like to get RWPG's approval of methodologies.

9. Discuss and Consider Updates to Non-MAG Availability Methodologies

- ▼ Recommended Methodologies
 - Marble Falls Aquifer (San Saba County, Colorado Basin)
 - The availability was determined based on the effective recharge listed in the GTA Aquifer Assessment for GMA-7, Marble Falls Aquifer (TWDB, November 1, 2011).
 - Total Availability = 9,377 AFY (was 11,063 AFY in 2016 Plan)
 - Hickory Aquifer (Llano County, Colorado Basin)
 - The availability was determined based on the effective recharge listed in the GTA Aquifer Assessment 08-07 MAG for GMA-7 (TWDB, August 31, 2010).
 - Total Availability = 1,182 AFY (was 2,018 AFY in 2016 Plan)
- ▼ Consider RWPG action to approve these methodologies.

Agenda Item 10

DRAFT TASK 5A AMENDED (SECOND) PARTIAL SCOPE OF WORK FOR EVALUATION OF WMS

Region K

Page 17

AECOM

10. Draft Task 5A Amended (Second) Partial Scope of Work

▼ Water Management Strategy Evaluation Task

- TWDB has allocated budget for this task (\$319,178).
- RWPG is required to prepare a scope of work for each strategy evaluation they want to perform.
- This scope of work must be presented for public input and RWPG approval before submitting to TWDB for their approval.
- The RWPG does not have to submit the entire scope of work at once. It can be submitted in pieces. Region K has already submitted a partial scope of work for Drought Management, Conservation, Expand Use of Local Groundwater, and City of Austin Return Flows.
- It is recommended to leave a portion of the budget unallocated in case an unexpected strategy needs to be evaluated later in the process.
- TWDB must approve scope of work and issue Notice-to-Proceed before task work is allowed to begin.

Region K

Page 18

AECOM

10. Draft Task 5A Amended (Second) Partial Scope of Work

▼ Water Management Strategy Evaluation Task

- See Handout – first four listed are the ones approved at the August 29th Region K meeting.
- New strategies added to Scope of Work for consideration
 5. Reuse
Includes centralized direct non-potable; decentralized direct non-potable; direct potable; and indirect opportunities for multiple WUGs.
 6. Development of New Groundwater Supplies
Groundwater strategy for WUGs or WWPs looking to develop a new source of groundwater that they are not currently using.
 7. Aquifer Storage and Recovery
General strategy for WUGs that did not have a specific ASR strategy identified in the 2016 Plan. Storage of water in an aquifer to be pulled out for use when needed.
 8. BS/EACD – Edwards/Middle Trinity ASR
Update to specific ASR strategy identified in the 2016 Plan. Storage of water in the Trinity Aquifer for WUGs in Hays County.

10. Draft Task 5A Amended (Second) Partial Scope of Work

- New strategies added to Scope of Work for consideration (continued)
 9. BS/EACD – Saline Edwards ASR
Update to specific ASR strategy identified in the 2016 Plan. Storage of water in the Saline Edwards Aquifer for WUGs in Hays County.
 10. City of Austin ASR
Update to specific ASR strategy identified in the 2016 Plan. Storage of water in an aquifer for the City of Austin. May evaluate for a different storage aquifer than last cycle.
 11. LCRA Aquifer Storage and Recovery (ASR) in Carrizo-Wilcox
Update to specific ASR strategy identified in the 2016 Plan. Storage of water in the Carrizo-Wilcox Aquifer for LCRA and its customers.
 12. Brackish Groundwater Desalination
General strategy for potential users of desalinated brackish groundwater. Will be considered for LCRA and potential others.
 13. Groundwater Importation – Carrizo-Wilcox to LCRA System
Update to specific groundwater importation strategy identified in the 2016 Plan. Evaluate option to bring groundwater in from outside of the region.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

14. Groundwater Importation – Hays County Pipeline
Update to specific groundwater importation strategy identified in the 2016 Plan. Evaluate option to bring groundwater from Gonzales to western Hays County. Coordinate with Region L.
15. Groundwater Importation – Alliance Regional Water Authority Pipeline
Update to specific groundwater importation strategy identified in the 2016 Plan. Evaluate option to bring groundwater from Gonzales to I-35 corridor in Hays County. Coordinate with Region L.
16. New LCRA Contracts
Potential strategy for WUGs that are not currently LCRA customers. Strategy assumes no infrastructure is needed for implementation.
17. New LCRA Contracts Requiring Infrastructure
Potential strategy for WUGs that are not currently LCRA customers. Strategy for WUGS that would require construction of infrastructure to implement.
18. LCRA Contract Amendments
Potential strategy for WUGs that are currently LCRA customers to increase their contract volume. Strategy assumes no infrastructure is needed for implementation.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

19. LCRA Contract Amendments Requiring Infrastructure
Potential strategy for WUGs that are currently LCRA customers to increase their contract volume. Strategy for WUGS that would require construction of infrastructure to implement.
20. New Water Purchase Strategy
Potential strategy for WUGs to purchase water from a non-LCRA WWP that they do not currently have a water sales contract with. Strategy assumes no infrastructure is needed for implementation.
21. New Water Purchase Strategy Requiring Infrastructure
Potential strategy for WUGs to purchase water from a non-LCRA WWP that they do not currently have a water sales contract with. Strategy requires construction of infrastructure for implementation.
22. Water Purchase Amendments
Potential strategy for WUGs to increase purchase water from a non-LCRA WWP that they currently have a water sales contract with. Strategy assumes no infrastructure is needed for implementation.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

23. Water Purchase Amendments Requiring Infrastructure

Potential strategy for WUGs to increase purchase water from a non-LCRA WWP that they currently have a water sales contract with. Strategy for WUGS that would require construction of infrastructure to implement.

24. Amendment to Existing Water Rights / Permits

Strategy identified in 2016 Plan that may be applied to other WUGs / WWPs this cycle. Strategy includes both amendments of existing rights as well as acquisition of new water rights.

25. Downstream Return Flows

Update to strategy in 2016 Plan. Determination of availability of return flows to the Colorado River from Pflugerville and potential others for use downstream.

26. East Lake Buchanan Project

Limited update to 2016 Plan strategy for Burnet County-Other to address groundwater contamination issues.

27. Buena Vista Regional Project

Limited update to 2016 Plan strategy for Burnet County-Other and potential others to address water reliability and water quality issues.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

28. Marble Falls Regional Project

Update to 2016 Plan strategy to develop additional water supplies to Marble Falls and potentially others in the area of Burnet County.

29. Brush Management

Limited update to 2016 Plan strategy for County-Other in several of the counties in the region.

30. Reduced Lake Evaporation

Strategy considered in 2016 Plan. Biofilm layer for reservoirs that can potentially reduce evaporation. Will be considered potentially for City of Austin and other WUGs or WWPs with reservoirs.

31. Water Supply Infrastructure Development or Expansion

Strategy for WUGs or WWPs that need to expand or develop new infrastructure in order to utilize existing available water from contracts, water rights, or permits.

32. LCRA – Mid-Basin Off-Channel Reservoir

Update to 2016 Plan strategy for a new off-channel reservoir downstream of the Highland Lakes.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

33. LCRA – Prairie Site Off-Channel Reservoir
Update to 2016 Plan strategy for a new off-channel reservoir downstream of the Highland Lakes.
34. LCRA – Excess Flows Off-Channel Reservoir
Update to 2016 Plan strategy for a new off-channel reservoir.
35. LCRA – Baylor Creek Reservoir
Limited update to 2016 Plan strategy for the Baylor Creek Reservoir.
36. Amendments to LCRA Water Management Plan
Update to 2016 Plan strategy. Consideration of current and possible future triggers for environmental flow assumptions and interruptible releases for Irrigation based on the current LCRA Water Management Plan and future possible revisions.
37. Supplement Bay and Estuary Inflows with Brackish Groundwater Thereby Replacing Demands on LCRA Highland Lakes Firm Yield
Limited update to 2016 Plan strategy. Strategy allows more supplies to remain in Highland Lakes for customers by meeting environmental inflow needs with brackish groundwater.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

38. Import Return Flows from Williamson County
Update to 2016 Plan strategy. Allows for a portion of return flows from water sold by LCRA to entities in Williamson County to be returned to LCRA for use in either the Colorado or Brazos River Basins.
39. Enhanced Recharge and Conjunctive Use
Update to 2016 Plan strategy. Strategy takes diverted Colorado River water (LCRA existing water rights) and pumps it to recharge basin for infiltration into the aquifer.
40. City of Austin Conservation
Update to 2016 Plan strategy with some new measures incorporated identified in the Austin Water Forward Plan.
41. City of Austin Centralized Direct Non-Potable Reuse
Update to 2016 Plan COA Direct Reuse strategy.
42. City of Austin Decentralized Direct Non-Potable Reuse
Update to 2016 Plan COA Other Reuse strategy with new components based on Austin Water Forward Plan.

10. Draft Task 5A Amended (Second) Partial Scope of Work

– New strategies added to Scope of Work for consideration (continued)

43. Capture Local Inflows to Lady Bird Lake
Limited update to 2016 Plan strategy based on Austin Water Forward Plan.
44. Lake Austin Operations
Limited update to 2016 Plan strategy. Strategy focuses on implementation during times of drought only.
45. Community-Scale Stormwater Harvesting
Replacement strategy for 2016 Plan COA Rainwater Harvesting strategy, based on the Austin Water Forward Plan. Strategy involves collection of excess stormwater from urban areas.
46. STPNOC Alternate Canal Delivery
Limited update to 2016 Plan strategy. Strategy involves alternate usage of a canal that would allow for a diversion point upstream of the Bay City Dam.
47. STPNOC Brackish Surface Water Blending
Limited update to 2016 Plan strategy. Strategy to request TCEQ allow STPNOC to pump brackish surface water to blend in their reservoir during emergencies to increase water supply.

10. Draft Task 5A Amended (Second) Partial Scope of Work

▼ Water Management Strategy Evaluation Task

48. City of Wharton Water Supply Strategy
Update to strategy that was considered in 2016 Plan. Strategy incorporates several different project components: in-channel detention, off-channel storage, groundwater development, reuse, and aquifer storage and recovery.

- ▼ Additional \$186,000 budgeted for total to date of \$273,000. Approximately \$46,000 remains unallocated.

- ▼ Requesting input from RWPG and the public on the partial scope.

Agenda Item 11

**RECEIVE PUBLIC COMMENTS
ON DRAFT TASK 5A AMENDED
(SECOND) PARTIAL SCOPE OF
WORK**

Agenda Item 12

**CONSIDER AND TAKE ACTION
ON DRAFT TASK 5A AMENDED
(SECOND) PARTIAL SCOPE OF
WORK**

12. Take Action on Draft Task 5A Scope of Work

- ▼ Consider approval of Amended (Second) Task 5A Partial Scope of Work.
- ▼ Consider approval to authorize LCRA to submit a request to the TWDB for a Notice-to-Proceed on the Amended (Second) Task 5A Partial Scope of Work and execute the subsequent contract amendments.
- ▼ Consider approval to authorize the Technical Consultant to make minor edits to the Amended (Second) Task 5A Partial Scope of Work based on comments received from TWDB.

Agenda

13. Agenda items for next meeting
14. New / Other Business
15. Public Comments
16. Adjourn