



2016 Llano Estacado Regional Water Plan

Planning Group Meeting

October 8, 2015
Lubbock, Texas



DBS&A
Daniel B. Stephens & Associates, Inc.



High Plains
Underground Water
Conservation District



Espey



PARKHILL SMITH & COOPER





Agenda Item 6 - IPP Comments

- Responses to public comments prepared for review and incorporation into the final plan (RTC handout)
 - New response documents
 - Texas Water Development Board (TWDB)
 - Public hearing comment
 - Updated response documents from 9/10 meeting
 - Texas Parks and Wildlife Department (TPWD)
 - Written public comment





Agenda Item 10 - Updates

- Chapter 5 revision
 - Restructured strategy evaluation groupings:
 - Recommended strategies for municipal WUGs
 - Recommended strategies for irrigation WUGs
 - Recommended strategies for the City of Lubbock
 - Recommended strategy for White River MWD
 - Region O supplies from Region A's recommended strategies for CRMWA





Agenda Item 10 - Updates

- Chapter 5 revision (cont.)
 - Restructured strategy evaluation groupings:
 - Alternative strategies for the City of Lubbock
 - Alternative strategy for municipal WUG
 - Strategies considered but not recommended
 - Best management practices
 - Water conservation recommendations (for all WUG types with needs)
 - The revised table of contents has been reviewed by the TWDB, and meets their requirements





Agenda Item 10 - Updates

- Chapter 5 revision (cont.)
 - Summary of strategy evaluations:
 - Total recommended strategies: 101
 - Recommended strategies by WUG type
 - Municipal 71
 - Irrigation 21
 - Wholesale water provider 9 (Lubbock & White River MWD)
 - There are no municipal needs after strategy implementation





Agenda Item 10 - Updates

- Chapter 5 revision (cont.)
 - Summary of strategy evaluations:
 - Alternative strategies (8)
 - City of Lubbock
 - » 6 reuse projects
 - » Post Reservoir
 - Hockley County-other (Smyer)
 - » CRMWA lease from Levelland





Agenda Item 10 - Updates

- Chapter 5 revision (cont.)
 - Update on cost estimates and database entry
 - The TWDB has reviewed the strategy evaluation for brackish groundwater desalination (2 projects) and it meets their requirements
 - The other strategy evaluations are being completed, and the full revised chapter will be provided for review





Agenda Item 10 - Updates

- Impact matrix implementation
 - Revised template and table with draft scoring (handouts)
 - Considers impact to 7 categories
 - Range of scores
 - Potential: 5.0 to 35.0
 - Actual: 6.3 to 25.0





Agenda Item 10 - Updates

- Impact matrix implementation (cont.)

- Average score by category

- Irrigation conservation 6.3
- Municipal conservation 6.8
- Water loss reduction 7.8
- Local groundwater development 14.8
- Groundwater desalination 15.1
- Water reuse 15.1
- Other surface water project 18.5
- New major reservoir 23.6



Agenda Item 10 - Updates

- Impact matrix implementation (cont.)
 - Example strategy: Direct Potable Reuse to the NWTP

<u>Category</u>	<u>Rank</u>
Acres Impacted	3
Impact to T&E Species	1
Instream Flow Impact	2
Impact to Agricultural Resources	2
Playa Wetland Impact	2
Spring Impact	1
Cultural Sites Impact	5
Overall Rank	15.6





Agenda Item 10 - Updates

- 2011 Implementation surveys
 - Total of 78 WMSs in 2011 plan
 - Have received feedback on 63 of the WMSs
 - No response on 15 WMSs
 - Summary of survey results:
 - 2011 WMSs without responses
 - 5 Local groundwater development
 - 1 Irrigation conservation
 - 8 Municipal conservation
 - 1 Other surface water project





Agenda Item 10 - Updates

- 2011 Implementation surveys (cont.)
 - Summary of survey results:
 - 2011 WMSs with some level of implementation
 - 5 Local groundwater development
 - 20 Irrigation conservation
 - 15 Municipal conservation
 - 1 Other surface water project
 - 69 of the 2011 WMSs are included in the 2016 plan
 - Complete results will be included as part of Chapter 11 in the final plan





Agenda Item 10 - Updates

- Comparison of 2011 and 2016 plans
 - Supply
 - Decrease in supply in 2016 plan for all decades
 - Availability
 - Decrease in availability in 2020 (mainly groundwater availability)
 - Increase in all other decades
 - Needs
 - Municipal needs have increased, starting in 2030
 - Irrigation needs have decreased for all decades



Agenda Item 10 - Updates

- Comparison of 2011 and 2016 plans (cont.)

WMS Type	Number of WMS		
	2011	2016 Recommended	2016 Alternative
Local groundwater development	25	27	
Municipal conservation	25	39	
Irrigation conservation	21	21	
Other surface water	3	3	
New major reservoir	2	1	1
Groundwater desalination	1	3	
Water reuse	1	2	6
Water loss reduction	0	4	
ASR	0	1	
Water lease/pipeline	0	0	1
Total	78	101	8





Agenda Item 10 - Updates

- 2016 Infrastructure finance surveys
 - Assessing how implementation of the 2016 WMSs will be financed
 - TWDB releasing surveys to RWPGs once their strategy costing and WMS database entry are complete
 - Status update on the Region O survey
 - Results will be discussed in Chapter 9 of the final plan





Next Steps

- Prioritization subcommittee will meet on October 21, 2015
- Next full group meeting tentatively scheduled for November 12, 2015
 - Presentation on the revised Chapter 5
 - Approval of the final plan for submittal to TWDB
 - Approval of 2016 prioritization deliverable for submittal to TWDB
- Final plan is due December 1, 2015

