

**William R. Hutchison, Ph.D., P.E., P.G.**

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November 1, 2016

Mr. Jeff Walker, Executive Administrator  
Texas Water Development Board  
P.O. Box 13231  
Austin, TX 78711-3231

**RE: Submittal of Desired Future Conditions on Behalf of Groundwater Management Area 2**

Dear Mr. Walker:

The groundwater conservation districts in Groundwater Management Area 2 met in Brownfield, Texas on October 19, 2016, and adopted the attached resolution regarding desired future conditions for the Ogallala, Edwards-Trinity (High Plains), and Dockum aquifers. The groundwater conservation districts in Groundwater Management Area 2 also authorized me to submit the required materials to the Texas Water Development Board in accordance with section 356.32 of the Texas Administrative Code.

Based on the information provided in the TWDB's informational flyer, the five elements required are included with this letter and accompanying USB drive:

- The explanatory report is included on the USB drive in the folder "Explanatory Report"
- The resolution adopting the desired future conditions is attached to this letter, is included on the USB drive in the folder "Resolutions", and is presented in Appendix A of the explanatory report.
- A copy of the notice that was posted for the joint planning meeting of October 19, 2016 at which the districts collectively adopted the desired future conditions is attached to this letter, and is on the USB drive folder "Posted Meeting Notice (10-19-2016)"
- The designated representative for Groundwater Management Area 2 is:  
Jason Coleman, P.E.  
General Manager  
High Plains Water District  
2930 Ave. Q  
Lubbock, TX 79411-2499  
Phone: 806-762-0181  
[jason.coleman@hpwd.org](mailto:jason.coleman@hpwd.org)

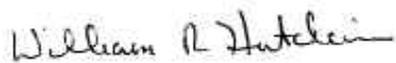
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- Groundwater availability model files that were used in developing the desired future conditions are included on the USB drive in the folder “Scenarios 8 and 16”. Post processors used to calculate the average drawdowns are included in the subfolder “PostProcessors”. Technical memoranda that provide analyses of the results are included in the folder “TechMemos”.

The USB drive also includes the folder “Aquifers Not Relevant for Purposes of Joint Planning” that contains the resolution and documentation on the Edwards-Trinity (Plateau) and Pecos Valley aquifers, that were designated as not relevant for purposes of joint planning.

On behalf of the groundwater conservation districts in Groundwater Management Area 2, we appreciate the opportunity to submit these materials. If you have any questions or comments regarding the material, please contact me or Mr. Coleman.

Sincerely,

A handwritten signature in cursive script that reads "William R. Hutchison".

William R. Hutchison, Ph.D., P.E., P.G.

## **Groundwater Management Area 2 Resolution 16-01**

### **Desired Future Conditions for the Ogallala, Edwards-Trinity (High Plains), and Dockum Aquifers in Groundwater Management Area 2**

WHEREAS, Groundwater Conservation Districts (GCDs) located within or partially within Groundwater Management Area 2 (GMA 2) are required under Chapter 36.108, Texas Water Code to conduct joint planning and designate the Desired Future Conditions of aquifers within GMA 2 and;

WHEREAS, the Board Presidents or their Designated Representatives of GCDs in GMA 2 have met in various meetings and conducted joint planning in accordance with §36.108, Texas Water Code since September 2010; and

WHEREAS, the GMA 2 committee has received and considered Groundwater Availability Model runs and other technical advice regarding local aquifers, hydrology, geology, recharge characteristics, the nine factors set forth in §36.108(d) of the Texas Water Code, local groundwater demands and usage, population projections, total water supply and quality of water supply available from all aquifers within the respective GCDs, regional water plan water management strategies, ground and surface water interactions, that affect groundwater conditions through the year 2070; and

WHEREAS, the member GCDs of GMA 2, having given proper and timely notice, held an open meeting on April 19, 2016 at the offices of the Mesa Underground Water Conservation District located at 212 N Ave G, Lamesa, Texas, to vote to adopt proposed Desired Future Conditions for the Ogallala, Edwards-Trinity (High Plains), and Dockum aquifers within the boundaries of GMA 2; and

WHEREAS, the member GCDs in which the Ogallala, Edwards-Trinity (High Plains), and Dockum aquifers are relevant for joint planning purposes held open meetings within each said district between June 8, 2016 and August 17, 2016 to take public comment on the proposed DFCs for that district; and

WHEREAS on this day of October 19, 2016, at an open meeting duly noticed and held in accordance with law at Brownfield City Hall located at 201 W. Broadway, Brownfield, Texas, the GCDs within GMA 2, having considered at this meeting comments submitted to the individual districts during the comment period and at this meeting, have voted, \_\_\_ districts in favor, \_\_\_ districts opposed, to adopt the following DFCs for in the following counties and districts through the year 2070 as follows:

- The desired future condition for the Ogallala and Edwards-Trinity (High Plains) aquifers is average drawdown of between 23 and 27 feet for all of GMA 2. The drawdown is calculated from the end of 2012 conditions to the year 2070. The drawdown is expressed as a range due to the link between future pumping and future rainfall. As documented in GMA 2 Technical Memorandum 15-01 and GMA 2 Technical Memorandum 16-01, historic pumping is higher in dry years than in wet years. Since most of the water use in

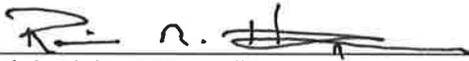
GMA 2 from the Ogallala Aquifer is for irrigation, producers pump more groundwater in dry years than in normal or wet years. The simulations assumed that initial pumping rates in the future would be between 100 percent and 150 percent of 2012 pumping rates. Essentially, in average or wet years, initial annual pumping would be approximately the same as 2012 pumping rates. In dry years, initial annual pumping rates could be as high as 150 percent of 2012 pumping rates based on the variation of pumping rates in the recent past.

- The desired future condition for the Dockum Aquifer is average drawdown of 27 feet for all of GMA 2. The drawdown is calculated from the end of 2012 conditions to the year 2070, and is based on Scenario 16 as documented in GMA 2 Technical Memorandum 16-01.

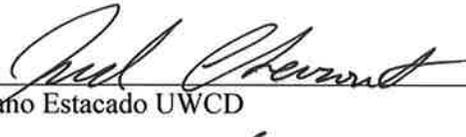
NOW THEREFORE BE IT RESOLVED, that Groundwater Management Area 2 does hereby document, record, and confirm the above-described Desired Future Conditions for the Ogallala, Edwards-Trinity (High Plains), and Dockum Aquifer which were adopted by vote of the following Designated Representatives of Groundwater Conservation Districts present and voting on October 19, 2016:



for Garza County UWCD



for High Plains UWCD #1



for Llano Estacado UWCD



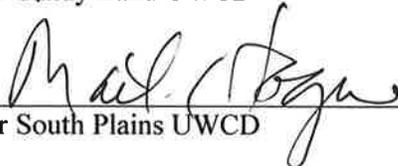
for Mesa UWCD



for Permian Basin UWCD



for Sandy Land UWCD



for South Plains UWCD

**Notice of Meeting**  
**Joint Planning for Groundwater Management Area #2**

FILED FOR RECORD  
2016 OCT -4 AM 9:09

As required by Chapter 36.108(e) Texas Water Code, notice is hereby given by the Board of Directors of the High Plains Underground Water Conservation District No. 1 for the District's participation in a joint planning meeting, as required by Chapter 36.108. At the joint planning meeting, the presiding officer, or the presiding officer's designee as required by Chapter 36.108(c), along with any number of members of the Board of Directors, will convene for the purpose of joint planning only and not to conduct any other District business. The joint planning meeting will be comprised of the Groundwater Conservation Districts (GCDs) located wholly or partially within Groundwater Management Area #2 (GMA #2) as delineated by the Texas Water Development Board. GCDs located in GMA #2 are as follows:

**Garza County UWCD, High Plains UWCD #1, Llano Estacado UWCD, Mesa UWCD,  
Permian Basin UWCD, Sandy Land UWCD, & South Plains UWCD**

The joint planning meeting will be conducted beginning at **10:00 A.M., Wednesday, October 19, 2016 at Brownfield City Hall, 201 W. Broadway, Brownfield, TX.** At such time, any Board Members present and/or the designee of the High Plains UWCD will discuss and may take any action on any items on this agenda (not necessarily in the pre-arranged order) it may determine would be appropriate for joint planning of GCDs in GMA #2:

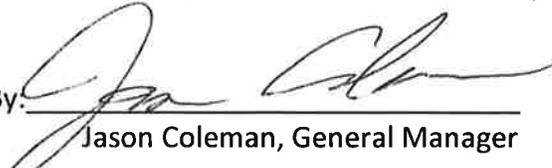
**AGENDA**

1. Call To Order
2. Roll Call
3. Public Comment
4. Approval of Minutes
5. Discuss and consider appointment of GMA #2 representative to the Region F Water Planning Group
6. Discuss comments on proposed desired future conditions received during public comment period
7. Consider for approval a resolution regarding non-relevant aquifers for joint planning purposes in GMA #2
8. Consider for approval a resolution for desired future conditions of relevant aquifers in GMA #2
9. Discuss and consider explanatory report for adopted desired future conditions
10. Consider for approval administrative and information duties/assignments in GMA #2
11. Discuss Items For Future Agendas
12. Adjournment

*I, the undersigned authority, do hereby certify that the above Notice of Meeting for Joint Planning for Groundwater Management Area #2 of the above named political subdivision is a true and correct copy of said Notice; and that a true and correct copy of said Notice was posted at a place convenient to the public at the office of said political subdivision listed above located at 2930 Avenue Q, Lubbock, Texas, and said Notice was posted on October 5, 2016, and remained so posted continuously for at least 72 hours immediately preceding the start time of said meeting. A true and correct copy of said Notice was posted and has been filed with Lubbock County Clerk, a true and correct copy of said Notice has been posted on the bulletin board of the Lubbock County Courthouse on October 5, 2016, and said Notice will remain so posted for at least 72 hours immediately preceding the start time of said meeting.*

Dated this the 5th day of October 2016.

High Plains Underground Water Conservation District No. 1  
2930 Avenue Q, Lubbock TX 79411-2499 (806) 762-0181

By:   
Jason Coleman, General Manager