### GMA 8 Joint Groundwater Planning

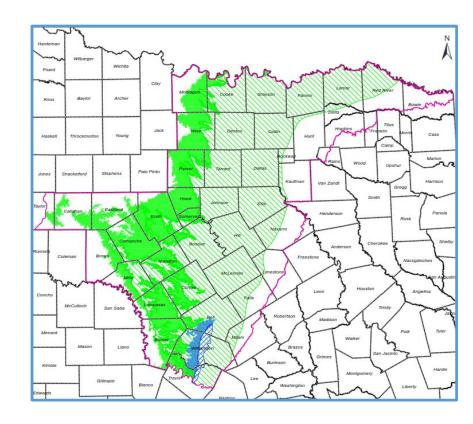
July 26, 2019

Discussion and possible action on potential model runs for this planning cycle

- Meeting scheduled with TWDB staff to discuss GMA 8 issues
  - WSP consultant team
  - Joe, Dirk, Drew, and Mitchell
- Modeling Issues

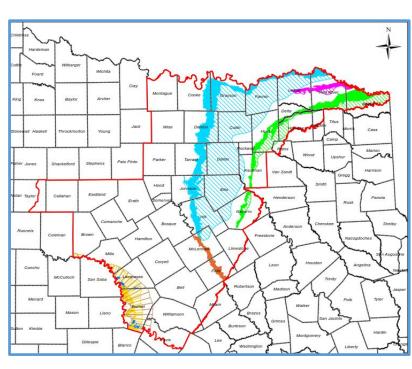
#### Major Aquifers

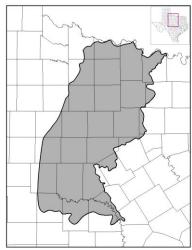
- Northern Trinity Woodbine GAM
  - Trinity
  - Woodbine
  - Current budget allows one updated simulation
- Northern Edwards (BFZ) GAM
  - Edwards BFZ
  - Clearwater UWCD funding



#### Minor Aquifers

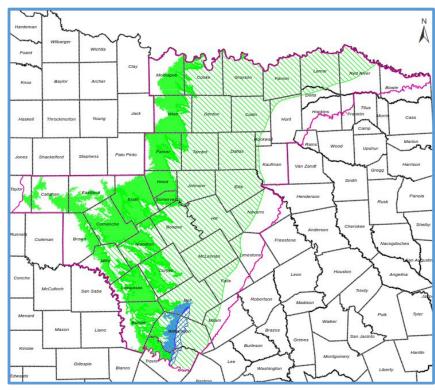
- Llano Uplift Aquifer System GAM
  - Ellenburger-San Saba
  - Hickory
  - Marble Falls
  - No funding in current budget
- Nacatoch Aquifer GAM
  - Non-relevant last round
- Brazos River Alluvium Aquifer GAM
  - Non-relevant last round
- Blossom Aquifer GAM
  - Non-relevant last round
- Cross Timbers Aquifer GAM
  - Cross Timbers
  - GAM likely not ready in this round
  - Relevant or NOT?





### Modeling Runs

- Northern Trinity Woodbine GAM
  - Run 10



#### Run 10 Description

- Used TWDB accepted version of the GAM
- Initial conditions set as simulated water levels on January 1, 2010 from transient calibration run
- Adjusted pumping amounts based on GCD input
- No changes to areal distribution of pumping from baseline
- No changes in aquifer assignment of pumping from baseline
- Set pumping so that model code would not automatically reduce pumping amounts

#### Run 11 – Update of NTWGAM

- Adjusted pumping amounts based on GCD input
  - Things to consider:
    - Rule changes
    - New permits
    - Anticipated pumping changes
    - Balancing highest practicable and conservation
    - Comments from last round of planning
    - Other
  - We propose that each GCD review the TWDB MAG spreadsheet and adjust pumping estimates
- Vertical adjustment of pumping
  - Run 10 Set pumping so that model code would not automatically reduce pumping amounts
  - Tell us if you want to adjust

 Discuss plan and schedule for GMA 8 consideration of nine factors required by Texas Water Code Subsections 36.108(d)(1 − 9) in the third round of DFC joint planning

# WSP Team Approach to Presenting Information on Nine Factors

(Texas Water Code Subsections 36.108(d)(1-9))

- Factor presentations Three GMA 8 Meetings (November 2019, February 2020, and May 2020)
- Focused discussion on factors during each meeting
- WSP Team presentations to guide discussions GCDs make presentations available during 90-day public comment period
- Factor presentation content to be reflective of explanatory report content
- Re-visit factor discussions as needed when various GAM runs, or DFC statements considered

#### Proposed Schedule for Factors



Discuss plan for updating and preparing the GMA 8 explanatory report for the third round of DFC joint planning

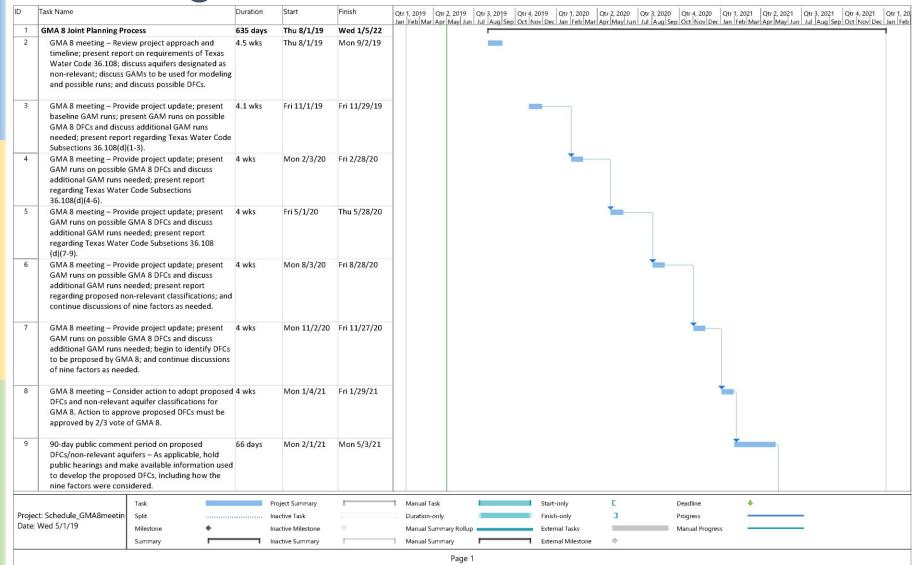
#### WSP Team Approach to Preparing the Explanatory Report

(Texas Water Code Section 36.108(d-3))

- Use GMA 8 second round of DFC joint planning ER as starting point
- Update ER discussion and appendices as needed
- WSP Team presents and reviews 1st ER draft August 2020

Discussion and possible action of joint planning schedule

#### Planning Schedule



### Planning Schedule

ID	Task Name	Duration	Start	Finish	9   Qtr 2, 2019   Qtr 3, 2019   Qtr 4, 2019   Qtr 1, 2020   Qtr 2, 20 Mar   Apr   May   Jun   Jul   Aug   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr   May	20 Ott 3, 2020 Qtr 4, 2020 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2021 Qtr 1, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2021 Qtr 1, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2021 Qtr 1, 2021 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2022 Qtr 4, 2021 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2022 Qtr 4, 2021 Qtr 1, 2021 Qtr 2, 2021 Qtr 3, 2022 Qtr 4, 2021 Qtr 3, 2022 Qtr 4, 2021 Qtr 4, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 4, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr
10	Texas Water Code Section 36.108 (d), deadline for adoption of proposed DFCs	0 days	Sat 5/1/21	Sat 5/1/21		♦ 5/1
11	GCDs compile public comments received during the public comment period; and prepare GCD summary reports and discussion of proposed revisions to DFCs, if applicable.		Tue 5/4/21	Mon 5/31/21		
12	GMA 8 meeting – Review GCD public comment summaries and proposed revisions to DFCs, if applicable; and consider GCD suggestions to modify proposed DFCs based on public comments, if applicable.	4 wks	Tue 6/1/21	Mon 6/28/21		
13	GMA 8 Meeting - Review and discuss complete draft explanatory report	4.5 wks	Fri 7/30/21	Tue 8/31/21		<b>*</b>
14	GMA 8 meeting – Consider action to adopt final DFCs, non-relevant aquifer classification proposals and the explanatory report for GMA 8.	4 wks	Wed 11/3/21	Tue 11/30/21		
15	Prepare and submit DFCs and explanatory report to TWDB and to each GCD. Submission packet due to the TWDB within 60 days of action to adopt the DFCs.	20 days	Wed 12/1/21	Tue 12/28/21		*
16	Texas Water Code Section 36.108(d-3), deadline for final adoption of DFCs	1 day	Wed 1/5/22	Wed 1/5/22		

	Task	-	Project Summary	$\overline{}$	Manual Task		Start-only	Е	Deadline	+	
Project: Schedule_GMA8meetin	Split		Inactive Task		Duration-only	- 1	Finish-only	3	Progress		
Date: Wed 5/1/19	Milestone	•	Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress		
	Summary		Inactive Summary	1	Manual Summary		External Milestone				
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