

June 21, 2018

J. Kevin Ward
Region C Chair
Trinity River Authority
P.O. Box 60
Arlington, Texas 76004

RE: Region C Regional Water Planning Group (RWPG) request for approval to modify existing surface water availability hydrologic assumptions for development of the 2021 Region C Regional Water Plan (RWP)

Dear Mr. Ward:



The Texas Water Development Board (TWDB) has reviewed Region C's request dated April 13, 2018 for approval of alternative hydrologic assumptions to be used in determining existing surface water source availability. This letter confirms that the TWDB approves the following assumptions:

1. Use of a one-year safe yield for surface water sources owned and operated by the Tarrant Regional Water District, including Lake Bridgeport, Eagle Mountain Lake, Lake Worth, Lake Benbrook, Lake Arlington, Richland-Chambers Reservoir, and Cedar Creek Reservoir.
2. Use of a nine-month safe yield for surface water sources owned and operated by the Dallas Water Utilities including Lake Ray Roberts, Lake Lewisville, Lake Grapevine, Lake Ray Hubbard, Lake Tawakoni, and Lake Fork.
3. Utilize a modified Trinity River Water Availability Model (WAM) to account for current operating conditions, including subordination agreements, system operations where appropriate, and other corrections as detailed in Attachment A of the hydrologic variance request, for surface water availabilities in the Trinity River Basin.
4. Utilize a modified Red River WAM, including changes to Lake Texoma and associated water rights as detailed in Attachment A of the hydrologic variance request, for surface water availabilities in the Red River Basin.
5. Utilize an external Excel-based mass balance reservoir-specific operations model with extended hydrology through 2017 to determine the availability for Lake Chapman in the Sulphur River Basin.
6. Use of surface water availabilities, based upon the hydrologic variance approved for use by the Region I RWPG for the Neches River Basin.

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7. Use of surface water availabilities, based upon the hydrologic variance approved for use by the Region I RWPG for the Sabine River Basin.
8. Use of surface water availabilities, based upon the hydrologic variance approved for use by the Region G RWPG for the Brazos River Basin.

Through subsequent clarification of the submitted letter from the RWPG, it was also requested to report surface water availability for the Lake Texoma North Texas Municipal Water District (NTMWD) Portion only, the Cooper/Chapman Lake NTMWD Portion only, and Lavon Lake as an NTMWD System rather than by individual reservoirs. This assumption is allowable under existing regional water planning guidance.

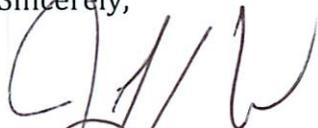
Although the TWDB approves the use of safe yield (a nine-month or one-year, as specified above) for developing estimates of certain surface water availabilities, the firm yield for each reservoir must still be reported to TWDB in the online planning database and plan documents.

For the purpose of evaluating potentially feasible water management strategies, the appropriate Texas Commission on Environmental Quality's WAM RUN3 is to be used, unless a hydrologic variance request for future surface water source availabilities is submitted and approved.

While the TWDB authorizes the above modifications to evaluate existing surface water availabilities for the development of the 2021 Region C RWP, it is the responsibility of the RWPG to ensure that the resulting estimates of existing surface water availabilities are reasonable for drought of record planning purposes and will reflect conditions expected in the event of an actual drought of record; and in all other regards will be evaluated in accordance with the contract Exhibit C, *Second Amended General Guidelines for Fifth Cycle of Regional Water Plan Development*.

If you have any questions, please do not hesitate to contact Connie Townsend, project manager for Region C, at 512-463-8290 or via email at connie.townsend@twdb.texas.gov.

Sincerely,



Jeff Walker
Executive Administrator

c: Ms. Amy Kaarlela, Freese & Nichols, Inc.
Mr. David Dunn, HDR, Inc.
Mr. Rex Hunt, Alan Plummer Associates, Inc.
Ms. Connie Townsend, TWDB

JW/CT/ms