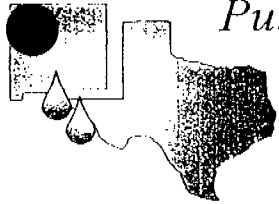


# New Mexico - Texas Water Commission



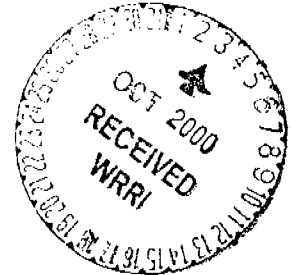
*Public Entities in Partnership for Sustainable Water Resources*

Water Resources Research Institute, Dept. 3167  
New Mexico State University, Box 30001  
Las Cruces, NM 88003-8001  
Phone: (505) 646-4337  
FAX: (505) 646-6418

El Paso Water Utilities  
Public Service Board, P.O. Box 511  
El Paso, TX 79961  
Phone: (915) 594-5501  
FAX: (915) 594-5699

September 28, 2000

Commissioner John M. Bernal  
International Boundary and Water Commission  
The Commons, Building C, Suite 310  
4171 N. Mesa Street  
El Paso, Texas 79902



Dear Commissioner Bernal:

This letter is in response to the August 8, 2000, letter (copy attached) from Debra J. Little, Principal Engineer of the International Boundary and Water Commission (IBWC) Engineering Section, regarding the concerns raised by Mexico's Commission Internacional de Limites y Aguas (CILA) in connection with the Sustainable Water Project (SWP). Ms. Little described CILA's concerns about the projected water quantity and water quality effects to Mexico's delivery allotment of Rio Grande Project Water resulting from the implementation of the SWP, and requested a statement from the New Mexico-Texas Water Commission (Commission) describing the extent of these effects.

As Co-Chairman of the Commission, both Karl Wood and I question why the IBWC is requesting such a statement from the Commission. Since the IBWC is the Lead Federal Agency for the SWP and is also a member of the Commission's Steering Committee, your staff has full knowledge concerning the findings of the SWP Draft Environmental Impact Statement. The Commission's NEPA Consultant, CH2MHill, has provided several responses addressing Mexico's concerns, which I have enclosed for your reference. Would it be more appropriate, considering the nature of IBWC's charter, for your organization to compose a written response to CILA citing the information contained in this enclosure? Karl Wood and I are available to review your response and answer any further questions.

Please contact either of us if you have any concerns or questions regarding this matter. We would be pleased to work with you in any manner necessary to resolve the concerns of CILA.

Sincerely,

For: Edmund G. Archuleta, P.E., General Manager  
El Paso Water Utilities - PSB

Karl Wood, Director

New Mexico Water Resources Research Institute

cc: New Mexico-Texas Water Commission Members

• El Paso Public Service Board • Elephant Butte Irrigation District • City of Las Cruces • New Mexico State University •  
• Dona Ana County • University of Texas at El Paso • Paso del Norte Watershed Council •

Responses to letter dated August 08, 2000, from Debra L. Little, IBWC, to Edmund G. Archuleta, General Manager, EPWU-PSB

By CH2Mhill, New Mexico-Texas Sustainable Water Project NEPA Consultant

1. The New Mexico-Texas Sustainable Water Project (SWP) Purpose and Need statement clearly states that the obligations of the Treaty of 1906 with Mexico will be honored. The Commission approved that Purpose and Need statement at the beginning of the NEPA process. It continues to honor that obligation .
2. The U.S. Bureau of Reclamation (Bureau), working with the Elephant Butte Irrigation District and the El Paso County Water Improvement District No.1, manages the Rio Grande Project (Project). They are required by compact and treaty to meet Mexico's right to 60,000 acre feet per year. The sponsoring utilities of the SWP would acquire rights to use water from the irrigation districts who in turn call on water from the Bureau. The Commission developed the SWP with the understanding that treaty obligations must be met. The Commission does not intend to affect those requirements.
3. There is a concern about the potential for manmade droughts resulting from the SWP because of increased seepage during the non-irrigation season. As stated above, the SWP would acquire the same rights to use water that are currently being held for agricultural uses and will have the same allocations as other agricultural users each year. The SWP sponsoring utilities could not call for water beyond their rights to use water and therefore cannot draw down Caballo Reservoir beyond what the Rio Grande Project allocates. The BESTSM analysis accounted for the additional seepage and differing consumptive uses and adjusted annual total demand so that releases from Caballo would remain within historical ranges. No manmade droughts are predicted by the model. The Commission believes there is no potential for manmade droughts resulting from the SWP.
4. A concern was expressed about the impact the Project will have on the quality of water delivered to Mexico. The predicted changes in Total Dissolved Solids (TDS) at International Dam are described in the attached tables taken from the Project Draft EIS. These tables compare the Preferred Alternative with the No-Action Alternative in Phases 1, 2 and 3. In general , the Preferred Alternative will result in increases of 35 to 63 mg/l in the primary irrigation season and a decrease from 17 to 58 mg/l in the non-irrigation season. The data used to predict these TDS values were generated from daily data taken over the 71 year period of record.

Subsequent to this analysis, a drain blending strategy has been developed to essentially eliminate the primary irrigation season increases in TDS, so that virtually no changes in TDS will be seen at either American or International Dams. A description of that strategy is presented in the EIS. The Commission supports the validity of these results.



INTERNATIONAL BOUNDARY AND WATER COMMISSION  
UNITED STATES AND MEXICO

OFFICE OF THE COMMISSIONER  
UNITED STATES SECTION

AUG 8 2000

Mr. Edmund G. Archuleta  
General Manager  
El Paso Water Utilities  
Public Service Board  
1154 Hawkins  
El Paso, Texas 79961

The U.S. Section of the International Boundary and Water Commission (U.S. Section) has received comments from the Mexican Section of the International Boundary and Water Commission concerning the Draft Environmental Impact Statement (DEIS) on the Sustainable Water Project for the El Paso-Las Cruces region. The concerns raised by the Mexican Section can be summarized in two parts: water quantity and water quality.

**Water quantity:** It is the obligation of the U.S. Section by the 1906 Convention between U.S. and Mexico that an amount of 60,000 acre-feet of river water be delivered annually to Mexico by the U.S., except in the case of an extraordinary drought. Therefore, it is imperative that the New Mexico-Texas Water Commission, based on the analysis associated with the DEIS, issue a statement assuring that the volume of annual water deliveries to Mexico will not be affected by the Sustainable Water Project.

In addition, although the Hydrologic Modeling Final Report for the El Paso-Las Cruces Regional Sustainable Water Project does conclude that no significant changes in annual releases from Caballo Dam for all six alternatives (including No-Action), it is imperative that the New Mexico-Texas Water Commission, based on technical analysis, issue a statement and the technical basis assuring that there will be no manmade drought caused by the operation of the proposed project.

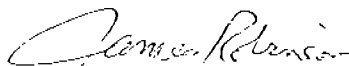
**Water quality:** It is noted that water quality resources on the Rio Grande (between Elephant Butte Dam and Fort Quitman) would be significantly impacted, according to the summary for the Action Alternatives (Table ES.3.4-1). The DEIS concluded that "There would be occasional significant adverse impacts on river water quality under each action alternative... The frequency of impact occurrence among alternatives would be ... greatest under the River with Year-Round Lower Plants Alternative. Impacts would occur in the Rio Grande between the Upper Valley WTP site and Montoya Drain during the irrigation season in Phases 2 and 3 of the Preferred Alternative and the River with Combined Plant Alternative, and in Phase 1, 2, and 3 of the other action alternatives. It is requested that the New Mexico-Texas Water Commission, based on the analysis associated with the DEIS, issue a statement to this office concluding to what extent that the quality of annual water deliveries to Mexico might be affected by the Sustainable Water Project. The U.S. Section is obligated to provide this information to Mexican Section.

In the Water Resources Technical Report it is noted that water quality may deteriorate by 30 to 40 mg/l on average. It is requested that you provide an estimate of the instantaneous peak turbidity loading anticipated which Mexico could expect to receive. Attached is a graph of total dissolved solids (TDS) for the water quality station at Courchesne Bridge. Please provide a technical description regarding how the TDS trend will be changed by this project.

I would appreciate your prompt review and response. If necessary a binational meeting may be arranged to have New Mexico-Texas Water Commission address the Mexican concerns.

If you have any questions please contact me at 832-4147 or Mr. Jim Robinson at 832-1452.

Sincerely,



Debra J. Little  
Principal Engineer, Engineering

Attachment: As stated

# Rio Grande Courchesne Bridge

