

# Draft Memorandum

To: URGWOM Technical Team Members  
Date: October 16, 2023  
Subject: Notes of the October 10, 2023 URGWOM Technical Team Meeting

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These notes summarize the items discussed during the October 10, 2023 meeting of the Upper Rio Grande Water Operations Model (URGWOM) Technical Team. The meeting began at 10:15 am (MST) and was conducted as a virtual meeting hosted by the Corps of Engineers using Webex. All those participating in the meeting introduced themselves and their names and affiliation are listed on the last page of these meeting notes.

The October, 2023 meeting agenda includes a report on the September 12, 2023 URGWOM Tech Team inspection trip, recent RiverWare enhancements, and general updates on ongoing URGWOM related activities from the NM Interstate Stream Commission, the Corps of Engineers, the Bureau of Reclamation, and their contractors.

Lucas reported on Reclamation work on URGWOM related matters including the following items:

- Continued setup of URGWOM for the Reclamation Rio Grande Basin Study;
- Continued work on data entry to URGWOM for use in the Lower San Acacia Reach Investigation (LSARI), including extreme climate event projection data developed by the University of Massachusetts for the 2020-2069 period and formatting these data (pan evaporation, evapotranspiration, etc.) for input to URGWOM; these data will be input into 40 separate model runs of 50 years each;
- Continue work on Elephant Butte Reservoir sediment inflow model / studies.

Marc reported that the Corps of Engineers have been working on the update to the Water Control Manuals for several Corps' Projects, and he has been making changes to the initialization rules necessary to run the URGWOM real-time model without using the NRCS runoff forecasts.

Cindy reported for NMISC on URGWOM related work underway with the assistance of Hydros Consulting including work on an investigation into riparian evapotranspiration losses in the Middle Valley; work necessary for the addition of a switch to the model that will allow implementation the Middle Valley irrigated land fallowing program. Nick reported that the blended hydrograph function for Annual Operating Plan runs has been installed; this will allow for averaging different years of historical data and is compatible for use with multi-year Annual Operating Plan model runs. Cindy also reported that the NMISC has been developing Rio Grande Compact compliance scenarios and initial results of this investigation will be presented to the Technical Team in early 2024.

Miller reported on the September 12, 2023 URGWOM Technical Team field inspection trip of features in the Jemez River Basin, during which 22 individuals participated including Technical Team members and other interested individuals. He prepared a post-trip report about the field inspection that has been placed on the URGWOM SharePoint web page. The purpose of the trip was to become familiar with the history and current operation of water resource features in the basin to better understand their function and role in the hydrology of the basin. Inspection trip participants visited several features in the Basin that are simulated in URGWOM including; the USGS streamgage Jemez River nr. Jemez, Jemez Canyon Dam and the gage below Jemez Canyon Cam. The Team also visited the Jemez Pueblo diversion dam, the Zia Pueblo diversion dam and Zia Lake. Miller acknowledged the assistance with the site visits provided by representatives of the Pueblo of Jemez and the Pueblo of Zia.

Among the inspection trip finding and conclusion are:

- Reduced water supply of the Jemez River Basin (by about 37%) between the 1936-1999 period and the 2000-2019 period;
- Approximately 3,000 acres of land are irrigated by diversion from the Jemez River between the USGS gage near Jemez and Zia Pueblo, there are no records of historic diversion amounts;
- Pueblo Indian diversion structure gates are old, difficult to operate and plagued with sediment deposition problems;
- No changes are proposed to the way that URGWOM is simulating the hydrology and features of the Jemez River Basin.

David reported on the following updates to RiverWare being developed by CADSWES for the Corps of Engineers and the Bureau of Reclamation:

- Changes to the Script Manager and script enhancements to expand script editing and viewing;
- Updates to settings manager;
- Improvements to the Multiple Run Manager (MRM), workspace multi-window workspace enhancements and quick start window enhancements;
- Improvements to table slot editing capabilities and an upgrade of the extent of data shown on the RiverWare workspace.

Under other business, Nick reported that Hydros will be submitting updates to the Model documentation (Vols. I through VII) to the Corps of Engineers within the week. The model documentation was revised to reflect the implementation of the deep aquifer objects into the model and the extension of the model area to include the Hudspeth County, Texas area.

The next meeting of the Technical Team will be the November 7, 2023 beginning at 10:00 am.

There being no additional matters to be brought before the Team, the meeting was adjourned at about 10:55 am.

ATTENDANCE LIST  
URGWOM TECHNICAL TEAM MEETING

October 10, 2023

NAME	REPRESENTING
Marc Sidlow	USACE, Albuquerque District
William Miller	Southwest Water Design/USACE Contractor
Breanna Chavez	Tetra Tech/USACE Contractor
Lucas Barrett	Bureau of Reclamation
Cindy Stokes	NM Interstate Stream Commission
Prakash Kaini	USACE, Albuquerque District
Kyle Shour	Tetra Tech/USACE Contractor
Anne Marken	Middle Rio Grande Conservancy District
Jerry Melendez	Bureau of Reclamation
Faith Kuria	Bureau of Reclamation
Dave Moeser	NM Water Science Center, USGS
David Neumann	CADSWES
Nick Mander	Hydros Consulting
John Carron	Hydros Consulting