



Memo to: Board of Directors  
From: Chuck Etwert  
Subject: Program Status Report for July 2019  
Date: July 15, 2019

As the May/June flood event continues to recede, I am pleased to report that all of the Council's improvements performed as intended and the Metro East American Bottom levees handled the flood event much better than before.

The May 6<sup>th</sup> crest and the June 8<sup>th</sup> crest have now been combined into one event, with the June 8<sup>th</sup> crest of 45.93 ft. now being the second highest crest on record (highest crest 49.58 ft. on August 1, 1993). With the January 1, 2016 crest of 42.52 ft. and the May 6, 2017 crest of 41.70 ft., we now have had three of the highest ten crests in the last four years.

It should also be noted that as of today, the Mississippi River at St. Louis has been above flood stage for 121 consecutive days, surpassing the 1993 flood event record of 104 days. It is currently projected to be above flood stage for an additional four days until Friday July 19<sup>th</sup>.

These events and their longevity continue to reflect the need for the work that the Council is doing.

### **100-Year Certification Packages Status**

Wood certified against the existing effective base flood elevations for Carr Creek and submitted the Prairie Du Pont and Fish Lake Illinois Flood Protection Project Certification Documents to FEMA on April 16, 2019. Even though FEMA, previously indicated that it had everything it needed to issue a letter of continued accreditation, today FEMA asked for some additional minor items to reconcile, thus postponing the issuance of the letter of continued accreditation.

On April 29, 2019 FEMA accepted the MESD Levee System as structurally sound.

In the Cahokia, Indian, West Fork Wood River, and Wood River/East Fork Wood River tributaries, it has taken Wood a little longer to complete the updated modeling but anticipates submitting to the Illinois State Water Survey (ISWS) by the end of the month.

When the H&H modeling is completed, Wood will begin some targeted geotechnical re-analysis of certain reaches in Lower Wood River due to the revised modeling indicating higher water elevations. The geotechnical re-analysis and the ISWS review will happen concurrent.

FEMA's issuance of continued accreditation letters for the Wood River East & West Forks, and Lower Wood River Systems will be dependent on the review of the resubmittals by ISWS and the Illinois Department of Natural Resources.

The Corps of Engineers continues to wait for FEMA to their Upper Wood River resubmittal.

## **500-Year Authorized Level Status**

### Wood River Levee System

Wood continues the design of Bid Package #8, which will be constructed by the Corps of Engineers. A bid opening and award is anticipated before the end of the year.

Execution of the new Project Partnership Agreement for the Wood River Levee System will take place in the next few weeks. This will allow for the utilization of \$16,041,496 of Work In-Kind credit, which has already received preliminary approval.

The remaining \$4,256,759 dollars of Work In-Kind credit needed, will be achieved with eligible Wood design and a relief well abandonment package.

### MESD Levee System

Wood continues to take the Corps' design of the Cahokia Relief Well Project, estimated cost \$8.5 million dollars, and develop the Council's Bid Package #18. Design completion has been delayed due to seismic design guidelines, which Wood will explain during their update report. Council award of the contract may be delayed from November 2019 to January 2020.

The Corps of Engineers has informed Wood, Bid Package #14, a shallow clay trench and filter blanket project with an estimated construction cost of \$4.3 million dollars, scheduled for Board approval in November, cannot be totally built at this time due to the staging area of the MESD Deep Cutoff Wall. Therefore, Bid Package #14 will be divided into Bid Package #14A and #14B, with 14A being built in FY 2020 and 14B being constructed after the Deep Cutoff Wall is completed.

The Corp has also informed us Work In-Kind does not have to be 100% complete in order to utilize the balanced federal funds. This will provide some time flexibility for Bid Packages #18

and #14A, which should provide better bids. However, it still is the intent to complete these projects as soon as possible.

Wood is also continuing the design of Bid Package #11. Design is anticipated to be completed early next year, with Board approval in March 2020. The preliminary estimated construction cost is \$10,000,000 dollars.

As a result of recent flood event flows, it now appears that future Bid Package #12, which is needed for Work In-Kind credit, will involve modifications to MESD pump stations at sites 9 and 10.

The Corps has decided to delay the contract award for the East St. Louis Deep Cutoff Wall Project until November 2019 and bid the project as one contract rather than a base/option approach.

#### Prairie Du Pont/Fish Lake Levee Systems

The design progress for Bid Packages #15, #16, and #17 continues to wait for the Corps' risk assessment.

The first Potential Failure Mode Analysis (PFMA) and the Semi-Quantitative Risk Assessment (SQRA) have been held. Once all discussions are complete, a design, bid schedule, and revised cost estimate will be developed.

The risk assessment review for possible funding not based on a benefit/cost ratio is not anticipated to be completed before the end of the year.