

SUWANNEE RIVER WATER MANAGEMENT DISTRICT

**MEMORANDUM**

TO: Governing Board

FROM: Sean King, Chief, Office of Minimum Flows and Minimum Water Levels

THRU: Tom Mirti, Deputy Executive Director, Water and Land Resources

DATE: January 29, 2021

RE: Updates to the Hydrologic Modeling Reports and Develop Status Assessment Technical Memos for Lakes Alto, Hampton, and Santa Fe

**RECOMMENDATION**

Authorize the Executive Director to approve Task Work Assignment 19/20-061.007 with Environmental Consulting and Technology, Inc., for technical services to update the hydrologic modeling reports developed in 2017 for Alto, Hampton, and Santa Fe lakes and to develop status assessment technical memos for the minimum flows and minimum water levels for an amount not to exceed \$83,832.00.

**BACKGROUND**

Environmental Consulting and Technology, Inc. (ECT) developed a Storm Water Management Model (SWMM) and report for Lake Hampton as part of Task Work Assignment (TWA) 14/15-050.04. ECT also developed a SWMM model for Alto and Santa Fe lakes as part of District TWA 14/15-050.06. These hydrologic modeling reports are companion reports to the minimum flows and minimum water levels (MFL) reports. The models were peer-reviewed.

On January 12, 2021, the Governing Board approved TWA 19/20-061.003, 19/20-061.004, and 19/20-061.005 to revise the MFL technical reports for Alto, Hampton and Santa Fe lakes. These MFL reports describe the ecological data collection efforts and water resource value assessments used to develop MFL criteria for each lake. This memo authorizes hydrologic modeling analyses previously described in separate reports which also need to be revised. Hydrologic modeling is necessary to evaluate the effects of groundwater drawdowns on lake levels and to determine whether the MFLs are being met.

Development of the North Florida Southeast Georgia (NFSEG) groundwater model allowed for a more robust MFL analysis using NFSEG model results. This TWA is for ECT to update the 2017 model reports to incorporate NFSEG model results, and to develop separate status assessment technical memos for the Alto, Hampton, and Santa Fe lakes.

Funding for this project is included in the Fiscal Year 2020-2021 Final Budget under code 20-2586-1-1102-18-00 and will be assigned to the Lake Hampton MFL code 20-2-586-1-1102-08, Lake Santa Fe MFL code 20-2-586-1-1102-09, and the Lake Alto MFL code 20-2-586-1-1102-06.

SK/pf