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SJRWMD REQUEST FOR QUALIFICATIONS #38414 DISCIPLINE C: PEER REVIEW AND EXPERT SERVICES FOR ENVIRONMENTAL ASSESSMENT

BOB BURLESON, PE

PROJECT MANAGER/SENIOR ENGINEER | 38 YEARS EXPERIENCE

Areas of Specialization

- Water Resources Engineering
- Surface and Groundwater Hydrology
- Watershed Planning
- Hydrologic, Hydrodynamic, and Water Quality Modeling
- Urban and Agricultural Best Management Practices
- Wetland Treatment Systems
- Qualified as an Expert Witness by the Florida Department of Administrative Hearings in Hydrology, Water Resources Engineering and Modeling of Surface Water Systems

Education

- ME, Agricultural Engineering, University of Florida, 1988
- BSE, Agricultural Engineering, University of Florida, 1984
- BSBA, Finance, University of Florida, 1979

Professional Registrations

• Professional Engineer, FL #42497, 1990

Summary of Experience

Mr. Burleson's areas of expertise include water resources engineering, surface and groundwater hydrology, watershed planning, surface water quality modeling, stormwater management, reclaimed water reuse, and urban and agricultural best management practices (BMPs). His professional experience includes hydrologic research and analysis, water quality assessments, stormwater master plans, floodplain analysis, watershed and water quality modeling, effluent disposal and wetland treatment system design, and wetland mitigation. He has provided MFL assessments, modeling, alternatives analyses, peer review and expert witness services to SJRWMD since 2006.

Relevant Project Experience

Water Resource and Human-Use Values Assessment of the Wekiva River System, SJRWMD, Seminole and Orange Counties, FL. Performing environmental, ecological, engineering, and hydrological services to determine MFLs for the Wekiva River System (Wekiva River, Little Wekiva River, Wekiwa Springs and Run and Rock Springs/Rock Run). Available hydrologic and water quality data, SJRWMD studies, and other related studies and recreational and economic information were gathered, collated, and are being used to perform supporting analyses and assessments.

Technical Peer Review, Draft MFLs for Lochloosa Lake, SJRWMD, Alachua County, FL. Performed independent scientific peer review of the draft Minimum Levels Determination for Lochloosa Lake (draft MFLs Report). The focus of this review was on the environmental criteria, analyses, assumptions and appropriateness of the recommended minimum levels for Lochloosa Lake.

Water Resource Value (WRV) Assessment of Silver Glen Springs and Alexander Springs and Alexander Creek, SJRWMD, Marion and Lake Counties, FL. Performed environmental, ecological, engineering, and hydrological services to assess whether the hydrologic regime defined by the multiple MFLs recommended by the District protects water resource and human use values for the Alexander Springs and Alexander Springs Creek. Provided technical support to District staff in the MFL determination for Silver Glen Springs.

Water Resource and Human-Use Values Assessment of Silver Springs and Silver River, SJRWMD, Marion County, FL. Performed environmental, ecological, engineering, and hydrological services to assess whether the hydrologic regime defined by the multiple MFLs recommended by the District protects water resource and human use values for Silver Springs and Silver River. Available hydrologic and water quality data, SJRWMD studies, recreational and economic information, and HEC-RAS model were gathered, collated, and were used to perform supporting analyses and assessments. Provided support to SJRWMD during rule-making activities and administrative hearings.

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TONY JANICKI, PHD

PRINCIPAL SCIENTIST | 50 YEARS EXPERIENCE

Areas of Specialization

- Expert Witness
- Aquatic Ecology
- Water Quality Modeling and Analysis
- Statistical Analysis
- Monitoring Programs
- Limnology
- Estuarine Ecology
- Biological Assessments
- MFLs

Education

- PhD, Biology, West Virginia University, 1980
- MS, Biology, West Virginia University, 1976
- BS, General Science, Gannon University, 1973

Professional Registrations

None

Summary of Experience

Dr. Janicki's expertise is in the areas of aquatic ecology, water quality modeling and assessments, monitoring program design, limnology, estuarine ecology, and biological assessments. His clients include the Tampa Bay, Sarasota Bay, and Charlotte Harbor National Estuary Programs, Florida Department of Environmental Protection, and all five water management districts. He has directed MFL development and evaluation efforts for all five water management districts.

Janicki Environmental, Inc.

Relevant Project Experience

Scientific Support for MFLs, SJRWMD, FL. Providing scientific review, analysis, and expert witness testimony related to the development of MFLs for priority springs within the District's jurisdiction. Review assessments of the effects of flow reduction scenarios on water resource values (WRVs) including emergent and floodplain wetland vegetation, water quality, and ecology of springs, lakes, and spring run river systems. Analyses include review of mechanistic and stochastic models used in support of developing MFLs for these systems and developing alternative or refined approaches to evaluate the effects of rainfall, runoff, and groundwater and surface water flows on WRVs that together reflect the ecological integrity of these systems.

Technical Support and Expert Witness Testimony, Lower Santa Fe and Ichetucknee Rivers, SRWMD, FL. Served as project manager, expert witness, and technical reviewer. The District's Lower Santa Fe and Ichetucknee Rivers and Priority Springs MFL rules were in the process of being adopted by FDEP, when the District and FDEP received a request for an administrative hearing challenging the MFL rule. The MFL technical report was prepared with significant input from contractors, including Dr. Janicki; therefore, the District requested Dr. Janicki's services to provide expert witness testimony in relation to his contributions to the project.

Lower Hillsborough River MFLs, SWFWMD, FL. Assisted in establishing the original minimum flow for the lower Hillsborough River, was a member of the District's team and provided technical review and analysis of District work products, and was the District's technical representative to the scientific peer review panel for the lower Hillsborough River minimum flow. Also directed the recent reevaluation of minimum flows for the Lower Hillsborough River.

Lower Suwannee and Waccasassa Rivers MFLs, SRWMD, FL. Led development of MFLs by supervising the development of regression models to predict salinities at fixed stations, locations of isohaline positions, and salinities as a function of flow and location in west Florida estuaries. Also led the analysis of fisheries data relating changes in flows and salinity in the lower Suwannee River to changes in fish community structure in Suwannee Sound.