

ATTACHMENT A — STATEMENT OF WORK

INDEPENDENT TECHNICAL PEER REVIEW SERVICES MINIMUM LEVELS REEVALUATION FOR LAKE PREVATT ORANGE COUNTY, FLORIDA

I. INTRODUCTION/BACKGROUND

The minimum flows and levels (MFLs) Program of the St. Johns River Water Management District (District), mandated by state water policy, is a District-wide effort to establish MFLs for priority lakes, streams and rivers, wetlands, springs, and groundwater aquifers. Florida's water management districts are directed by statute and rule to establish MFLs that establish the limit beyond which further withdrawals would be significantly harmful to the ecological structure and functions and/or other environmental beneficial uses (e.g., recreation) of priority water bodies. MFLs also define the minimum hydrologic conditions that must be maintained in these water bodies to prevent significant harm resulting from permitted water withdrawals.

The District has completed a reevaluation of minimum levels for Lake Prevatt in Orange County, Florida. The original MFLs for Lake Prevatt were set over 25 years ago. Therefore, Lake Prevatt was added to the MFLs Priority List and Schedule for reevaluation, to ensure that MFLs for this system are based on the most recent data, modeling, and methods. This system is an important resource within the Central Florida Water Initiative's (CFWI) regional network of MFL water bodies that serve as critical indicators of potential impacts due to groundwater pumping.

As a part of Wekiwa Springs State Park, and a water body within the Wekiva River Basin, Lake Prevatt is designated as an Outstanding Florida Water. Lake Prevatt is used for recreational purposes, offers foraging area for a diverse array of avian and other wildlife, and is connected to the Upper Floridan aquifer. The recommended minimum levels for Lake Prevatt were developed to protect these outstanding biological, scenic, and recreational resources.

MFLs determinations and reevaluations are subject to independent scientific peer review pursuant to decision by a water management district's governing board (373.042(4)(a), F.S.). The MFLs reevaluation for Lake Prevatt was identified for independent scientific peer review by the District's governing board. This work involves review of all scientific or technical data and methodologies, used to establish the MFLs (373.042(6)(a), F.S., and 62-40.473(10), F.A.C.).

Although peer review of an MFLs *assessment* is not contemplated or required by statute, the District has elected to do so in this case. Therefore, this work will include independent scientific peer review of the Lake Prevatt MFLs assessment in addition to the MFLs determination. Peer review of the assessment does not imply nor require any future assessments to be peer reviewed. Review of the Lake Prevatt MFLs will occur as part of the comprehensive CFWI peer review process which involves numerous opportunities for stakeholder input.

II. OBJECTIVES

Consultant shall provide the District with independent scientific peer review of the draft report entitled: "Minimum Levels Reevaluation for Lake Prevatt, Orange County, Florida" hereafter referred to as "draft MFLs Report". The primary focus of this review is on the MFLs reevaluation, including environmental criteria, environmental analyses, hydrological analyses and recommended minimum levels. This work does not include review of the surface water model or groundwater model used in the Lake Prevatt MFLs reevaluation; these have been peer reviewed previously. This work order includes review of the draft MFLs Report and appendices B, C, D, E and F (described below). Appendix A (original 1997 MFLs memo) and Appendix G (Hydroperiod Tool Design; ESRI 2018) will be provided for reference, but review of these documents is not part of this work order.

Consultant shall participate in one or more public workshops aimed at involving interested stakeholders in the peer review of the Lake Prevat MFLs, as part of the comprehensive CFWI peer review process. Consultant may be required to present findings of the Final Peer Review Report to the District Governing Board.

In the event of civil or administrative litigation in which the subject matter of the draft MFLs Report is relevant, Consultant agrees that he/she will make himself/herself available during the period of such litigation as an expert witness under the direction of the District's Office of General Counsel or such other counsel as the District may employ. The District may designate Consultant as a testifying or non-testifying expert and may assert the attorney work product privilege as to the research and report during the period of such litigation. This task, if required, will be completed under a separate work order or contract, and shall include coordination and cooperation with the District's Office of General Counsel.

III. SCOPE

Consultant shall provide peer review of the draft MFLs Report and appendices B, C, D, E and F. This review shall include methodologies and conclusions related to establishing protective minimum levels for Lake Prevat.

Consultant shall assess the following:

1. Appropriateness of environmental criteria, environmental methods, hydrological analyses and recommended minimum levels
2. Validity and appropriateness of methods and procedures used for data analyses, assumptions used, and conclusions drawn regarding the recommended minimum levels
3. Adequacy of data used to support conclusions and recommendations
4. Deficiencies in development of the draft recommended minimum levels for Lake Prevat

IV. TASK IDENTIFICATION

Consultant shall perform the following tasks to accomplish the Scope of Work described above.

Task A - Project Kick-off Meeting and Site Visit

A representative from T. Richardson Soils & Environmental, LLC, shall participate in an in-person kick-off meeting with the District's Project Manager to gain an understanding of the work assignment, the peer review process, and timeframes. This meeting will be public and part of the CFWI peer review process. The District Project Manager will present an overview and summary of the Lake Prevat minimum levels reevaluation and assessment. A representative from Trihydro will attend the kick-off meeting virtually and will record meeting minutes, as needed.

Included in the kick-off meeting will be a site visit facilitated by the District.

Task B - Peer Review Draft MFLs Report

Consultant shall review the draft MFLs Report and appendices (specified below) including associated methodologies, assumptions, and recommendations related to the development of protective minimum levels for Lake Prevat. The documents to be reviewed include:

- Shadik, C.R., E. Revuelta, A. Sutherland, A. Karama, and H. N. Capps Herron. 2025. Minimum Levels Reevaluation for Lake Prevat, Orange County, Florida. Draft Report. Bureau of Water Supply Planning, SJRWMD
- Appendix B: Hydrological Analyses
- Appendix C: Environmental Methods, Data and Metrics
- Appendix D: MFLs Status Assessment

- Appendix E: WRVs Assessment
- Appendix F: DEM Development

This work does not include review of Appendix A (original 1997 MFLs memo), Appendix G (Hydroperiod Tool Design; ESRI 2018), the Lake Prevatt surface water model or the ECFTXv2.0 groundwater model used for the MFLs assessment. The draft MFLs Report and all appendices will be provided to the Consultant.

Consultant shall attend a public teleconference to share their initial comments and listen to comments from stakeholders. After the workshop, the Consultant shall review all comments provided by stakeholders and may consider these in their draft technical memorandum (Task C).

Deliverable: Consultant shall prepare and give a PowerPoint presentation at the public teleconference, which summarizes their initial findings.

Task C - Draft Peer Review Technical Memorandum (TM)

Consultant shall prepare a draft TM summarizing the findings and recommendations related to the peer review of the draft MFLs report and submit to the District's Project Manager.

Consultant shall include the following items in the review process and provide answers to the following questions in the TM.

1. Validity and appropriateness of environmental analyses and criteria:
 - Are the environmental data used to develop environmental criteria adequate and appropriate?
 - Are the methods and procedures used to develop and assess environmental criteria appropriate?
 - Have all relevant environmental values been evaluated?
 - Are assumptions reasonable and consistent given best available information?
2. Validity and appropriateness of hydrological analyses:
 - Are the hydrological data used to develop and assess environmental criteria adequate and appropriate?
 - Are the hydrological analyses used to develop and assess environmental criteria appropriate?
 - Are assumptions reasonable and consistent given best available information?
3. Appropriateness of recommended MFLs:
 - Are data used to support conclusions and recommendations adequate and appropriate?
 - Are the assumptions used and conclusions made in the development of protective minimum levels reasonable and appropriate given best available information?

Consultant shall attend a public teleconference to share their draft TM comments and listen to additional comments from stakeholders. Afterwards, the Consultant will be provided with all stakeholder comments and may consider these in their final technical memorandum (Task D).

Deliverable: Consultant shall prepare a draft TM summarizing peer review findings and recommendations including any suggested improvements. Consultant shall present the conclusions and recommendations from the draft TM at a public teleconference.

Task D. Final Peer Review Technical Memorandum (TM)

Consultant shall prepare a final TM that summarizes their findings and recommendations regarding the draft MFLs report and submit to the District's Project Manager.

Deliverable: Final TM summarizing findings and recommendations regarding the draft MFLs report.

V. TIME FRAMES AND DELIVERABLES

The expiration date of this Work Order is June 30, 2025. Specific timeframes as they apply to tasks, deliverables, and meetings are included in Table 1.

TABLE 1. SCHEDULE

Task	Description	Date
A	Project Kick-off Meeting and Site Visit	February 25, 2025
B	Presentation of Initial Findings at Public Teleconference	April 10, 2025
C	Draft Technical Memorandum Presentation of Draft TM at Public Teleconference	April 23, 2025
D	Final Technical Memorandum	May 15, 2025

Consultant shall employ an internal quality review process so that only high quality, complete, and correct products are provided to the District. Deliverables prepared by Consultant shall be clear, concise, thorough, and grammatically correct. Consultant shall present data for technical products in a well-organized format. Findings should be based on a logical derivation from the facts and data. Upon request by District's Project Manager, consultant shall provide written confirmation by a principal of the firm that quality assurance procedures were followed prior to release of a given deliverable. References shall be appropriately cited.

Consultant shall submit the complete report in editable digital format, including all graphics and tables integrated with the text of the report. All report materials produced for the District under this contract shall become property of the District and may be edited by the District in consultation with consultant for style, writing quality, and format.

VI. BUDGET/COST SCHEDULE

This Work Order is for a lump sum amount of **\$42,166**. Consultant shall invoice the District monthly based on a percent complete per task (Table 2). Invoices shall include documentation (progress report) listing work completed and work planned.

TABLE 2. BUDGET

Task	Description	Total Dollars by Task
	Project Management and Administration	\$4,336
A	Project Kick-off Meeting and Site Visit	\$1,450
B	Peer Review and Presentation of Initial Findings at Public Teleconference	\$20,400
C	Draft Technical Memorandum and Presentation of Draft TM at Public Teleconference	\$9,324
D	Final Technical Memorandum	\$6,656
Total Budget		\$42,166