SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
2379 BROAD STREET
BROOKSVILLE, FLORIDA 34604-6899
TELEPHONE: 352-796-7211

November 13, 2023

RFP 23-4227 – SWUCA SALTWATER INTRUSION MODEL

ADDENDUM #1
(Acknowledgment is Required)

The Respondent shall acknowledge its review and receipt of this Addendum by signing below and including a signed copy of this Addendum with its bid submittal. Failure to do so could result in disqualification of the bid.

Please note that double underlined information (*example*) is added wording and stricken information (~~*example*~~) is deleted wording.

I. CLARIFICATIONS

1. Please note, on the Solicitation Cover Sheet of RFP 23-4227, the Virtual Oral Presentations date is hereby replaced with January 4, 2024.

2. Please note, the footer date of RFP 23-4227 is hereby replaced with October 20, 2023.

3. Please note, all references to "~~MODFLOW-USG~~" are hereby replaced with "MODFLOW-USG-Transport."

4. Please note, Subsection 1.8.5, Experience and Past Performance, has been replaced in its entirety with the following:

   This section of the proposal should provide a history of past projects and successful modeling experience within the last 5 years showing development of large regional groundwater and saltwater transport models, experience with Florida hydrogeology, and experience with building models with MODFLOW-USG-Transport and/or MODFLOW 6.

   Experience shall demonstrate the respondent's accomplishments and ability to effectively complete this Project. A single model or project does not have to demonstrate all areas of expertise. Rather, the sum of all projects shall show the full range of experience and expertise.

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II. QUESTIONS AND ANSWERS

1. **Question:** **Task 3.3.1 in the Request for Proposal requests conversion of the current model in SEAWAT to MODFLOW-USG. It is our understanding that MODFLOW-USG does not solve the transport equation. Please clarify if the intent is to use MODFLOW-USG with non-USGS (GSI) released USG-Transport, and enhancement of MODFLOW-USG including solute transport, to complete the conversion.**

   Answer: The program to be used is MODFLOW-USG-Transport. Please refer to Clarification 3 of this Addendum.

2. **Question:** **Would the groundwater flow and transport models in MODFLOW 6 (in which MODFLOW-USG is a subset) be an acceptable alternative to using MODFLOW-USG/USG-Transport for the conversion of the current model in SEAWAT?**

   Answer: This PROJECT will utilize MODFLOW-USG-Transport. Please refer to Clarification 3 of this Addendum.

   Experience with MODFLOW 6 will be considered equivalent to experience with MODFLOW-USG-Transport. Please refer to Clarification 4 of this Addendum.

3. **Question:** **For sections 3.3.4.1 and 3.3.4.2 in the Request for Proposal, what are the metrics to determine whether a model is 60% calibrated?**

   Answer: Please refer to Subsection 3.3.4.2.

   Since the boundary conditions and most parameters internal to the model are being set by the East Central Florida Transient Model – Expanded (ECFTX) and Districtwide Regulatory Model (DWRM) outside the ECFTX domain, it is expected that the water level calibration will only require minor modifications. The majority of the calibration will focus on the saltwater movement.

   General trends and changes in concentrations are just as important as magnitudes at specified locations; however, it is difficult if not impossible to quantify the achievement of simulating trends and changes. As such, the District is relying on the Consultant's expertise in development of saltwater transport models to help us mutually determine stipulations to use prior to the start of work.

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Ari Horowitz
Procurement Specialist
cc: Project Manager

ACKNOWLEDGEMENT OF ADDENDUM #1

BY: _____
DATE

_____
(TYPE/PRINT NAME AND TITLE)

_____
COMPANY NAME

End of Addendum #1 for RFP 23-4227

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