

# **EXHIBIT B (SUPPLEMENT)**

## **SCOPE OF SERVICES (UPDATE)**

*for the*

### **Polk Regional Water Cooperative**

#### **Combined Projects Implementation - Phase 1 - Change Order 2**

#### **Background**

The South Florida Water Management District, the Southwest Florida Water Management District, and the St. Johns River Water Management District have individually and collectively determined that groundwater from the Upper Floridan Aquifer, the traditional public water supply source for Central Florida, is a limited resource and cannot meet future public water supply needs in the Central Florida region. In response, the three water management districts partnered with other state agencies, local governments, and private concerns under the auspice of the Central Florida Water Initiative (CFWI). The Polk Regional Water Cooperative (the COOPERATIVE) is the collective Polk County response to the challenges presented by the CFWI.

The COOPERATIVE was created by an inter-local agreement to provide a mechanism for innovative regional cooperation amongst local governments and Polk County. This regional cooperation includes developing, recovering, storing, and supplying water for county or municipal purposes to reduce adverse environmental effects of excessive or improper withdrawals of water from concentrated areas. The intent of the COOPERATIVE is to encourage the development of fully integrated robust public water supply systems comprised of diverse sources managed in a manner that take full advantage of Florida's intense climatic cycles to ensure reliable, sustainable and drought resistant systems, which maximize the use of Alternative Water Supplies to the greatest extent practicable.

The COOPERATIVE selected a consultant team led by Carollo Engineers, Inc. (collectively called TeamOne) (CONSULTANT) to develop the four approved water supply projects. Those projects are:

1. Southeast Water Production Facility (SEWPF) and Lower Floridan Aquifer Wellfield (candidate project)
2. Peace Creek Integrated Water Supply Project (PCIWSP) (candidate project)
3. West Polk Water Production Facility (WPWPF) and Lower Floridan Aquifer Wellfield (candidate project)
4. Peace River and Land Use Transition (PRLUT) (nominated project)

These projects are in various stages of development. To preserve the long-term availability of alternative water supply to Polk County, PRWC desires to develop a water use permit for submittal to the Southwest Florida Water Management District (SWFWMD) for the fifth nominated project, the *Alafia River Basin* project (PROJECT).

The following describes the scope of services. The estimated fees are included as **Attachment A**.

## Alafia River Basin Project Conceptual Plan and Water Use Permitting

### Task 1 Conceptual Water Use Plan and Technical Memorandum

CONSULTANT will further develop a conceptual plan for the PROJECT. As part of the conceptual plan development, CONSULTANT will prepare and submit a technical memorandum (TM) that will be the conceptual plan for the PROJECT and develop information for the application for a Water Use Permit associated with the withdrawal of approximately 10 MGD of water from the Alafia River. CONSULTANT will respond to one (1) request for additional information. Included services under Task 1 are further described in the subtasks below.

#### *Task-1.1 Hydrologic Model Revisions for Reliability and Permitability*

Alafia River Basin draft hydrological model developed by Carollo Engineers Inc. will be used as the basis for the permit application by the CONSULTANT. The draft model will evaluate predicted water availability over long-term variable hydrologic conditions based on historical gaged or estimated streamflows, existing adopted minimum flow and level (MFL) regulations, and existing permitted surface water users on the Alafia River system, which include Tampa Bay Water and Mosaic. The draft model will be updated to support the permit application for the PROJECT and readily enhance collaboration with other stakeholders and regulators. The draft model will be updated with the following goals under consideration:

- Support Alafia River Basin permit applications for a 50-year planning scale.
- Maximize water supply capability for the COOPERATIVE.

Model revisions will include more detailed logic, allowing the model to answer more detailed engineering questions which may arise throughout the permitting process. The improved logic will assist with engineering considerations including system reliability, pump conditions, and generalized storage scenarios.

#### *Task-1.2 50-Year Demand Projections*

CONSULTANT has developed COOPERATIVE's 50-year demand projections as part of the other alternative water supply projects. The TM will summarize this current data and detail how 10 MGD of supply targeted from the Alafia River will help to meet the water supply demand in the region.

#### *Task-1.3 Technical Memorandum Development*

CONSULTANT shall prepare TM which comprises the various features for the project, this shall include the following:

- Introduction and background on the COOPERATIVE and alternative water supply (AWS)

projects

- A map of potential facility locations
- A limited and preliminary siting analysis for surface water intakes, treatment facility and raw water storage facilities will be undertaken by the CONSULTANT. The siting analysis research of the Polk County and Hillsborough County's property appraiser's website for up to 15 parcels, a description of the potential sites and recommended locations for the intakes, water treatment plant and raw water storage facilities. Potential sites for analysis will be examined jointly by the COOPERATIVE and CONSULTANT.
- Description of the assumptions, analysis and results of the demand projections developed in Task -1.2.
- Conceptual description of the project, its components and how it generally relates to the other AWS projects.
- Conceptual layout, sizing and potential location(s) for surface water intakes and estimated amount of land necessary for up to two intakes – with the primary intake along the North Prong Alafia River West of the Nichols minimum flow level gage and potentially one intake along the South Prong Alafia River.
- Conceptual layout, sizing and potential locations for surface water supply storage/reservoir and estimated amount of land necessary for one surface water reservoir.
- Conceptual layout, sizing, potential location and estimated amount of land necessary for surface water treatment plant.
- Conceptual layout, sizing and potential routing for raw water mains to tie the surface water intake to the surface water treatment plant and reservoir.
- Conceptual layout, sizing and potential routing for a finished water transmission system to tie into the proposed southwest side of the Southeast transmission system.
- Description of the assumptions, analysis and results of the hydrologic model developed in Task-1.1 and addressing average-day and peak-hour Alafia River withdrawals, system reliability and compliance with existing maximum flow and levels (MFLs).
- Description of the permit duration and compliance reports in accordance with Chapter 373.236, F.S.
- Conceptual description of the baseline hydrologic and biological data monitoring plan for the Alafia River watershed.
- Description of available water conservation plan(s) and submittal of available water conservation plans (completed by others).
- Discussion on issuance of a 50-year permit

- Compliance of water use with the public interest and WUP regulation and guidance documents.
- Documentation of legal control or ownership of properties where the facilities of the PROJECT will be located.
- Summary and recommendations.

CONSULTANT will prepare a presentation of the TM results to be provided at one workshop with the COOPERATIVE.

## Task 2 Water Use Permitting

CONSULTANT will use the work products prepared under scope of services to supplement the WUP application form and SWFWMD Form E, in conformance with the CFWI Applicant's Handbook, to develop a Water Use Permit application submitted to the SWFWMD. This task includes a response to one request for additional information (RAI) and one meeting with the SWFWMD up to the budget authorized. Any additional work beyond the scope described herein necessary to obtain a WUP will be addressed under additional services proposals between COOPERATIVE and CONSULTANT.

## DELIVERABLES

- Revised hydrologic model of the Alafia River System
- Technical memorandum for the Alafia River Basin Project conceptual plan.
- Water Use Permit application
- RAI response for the Alafia River Basin project

## Consultant Responsibilities

All CONSULTANT Responsibilities identified in Exhibit B of the Combined Projects Implementation – Phase 1 Agreement apply to this Exhibit B (Supplement).

## Assumptions Made in Scope Development

All assumptions identified in Exhibit B of the Combined Projects Implementation – Phase 1 Agreement apply to this Exhibit B (Supplement).

## Compensation

CONSULTANT will provide the scope of services identified herein on a time and expenses basis up to a not-to-exceed cost of \$69,543.00. Direct costs incurred related to completion of this scope of services including travel, copying, shipping, per diem, computer and equipment charges, car rental and lodging are included in the hourly rates provided in the CONSULTANT's Fee Schedule. Other expenses, if incurred and approved by COOPERATIVE will be billed at cost. A summary of labor costs is included in Attachment A.

Invoices will be submitted monthly in accordance with the Combined Projects Implementation – Phase 1 Agreement between the COOPERATIVE AND CONSULTANT.

## Schedule

CONSULTANT shall proceed with performing the service identified herein immediately upon receipt of an executed written contract or task order from CONSULTANT. The estimated schedule is provided in Attachment C. The schedule is dependent upon the timelines of the coordination and review meetings and data availability. The actual project schedule will be determined by mutual agreement between the CONSULTANT and COOPERATIVE.

Attachment A  
Fee Schedule

Task No.	Polk Regional Water Cooperative	Total Hours	Total Labor Costs
Alafia River Basin Conceptual Plan and Water Use Permitting			
Task AR-1	Conceptual Water Use Plan and Technical Memorandum		
AR-1.1	Hydrologic Model Revisions for Reliability and Permitability	28	\$7,228.00
AR-1.2	50-Year Demand Projections	15	\$3,105.00
AR-1.3	Technical Memorandum Development	211	\$35,730.00
	Subtotal - Task 1	254	\$46,063.00
Task AR-2	Water Use Permitting		
	Subtotal - Task 2	110	\$20,480.00
	TOTAL PROJECT HOURS AND LABOR COSTS	364	\$66,543.00
	Allowance for Ecological and Geotechnical Desktop Surveys and Hydrologic and Biological Data Monitoring Plan		\$3,000.00
TOTAL PROJECT COSTS		364	\$69,543.00