

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY**

=====

<b>Meeting Date:</b>	February 6, 2007	<b>Consent [X]</b>	<b>Regular [ ]</b>
		<b>Public Hearing [ ]</b>	

**Submitted By:** Water Utilities Department  
**Submitted For:** Water Utilities Department

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**I. EXECUTIVE BRIEF**

**Motion and Title:** Staff recommends motion to approve: Consultant Service Authorization No. 8 to Brown & Caldwell, Inc. for wellfield capacity enhancements in the amount of \$209,168.

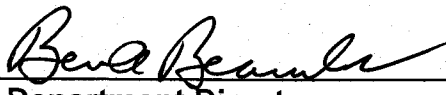
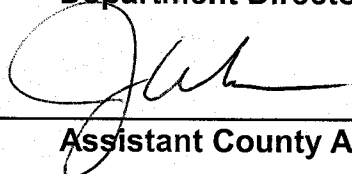
**Summary:** This Consultant Services Authorization provides for engineering and hydrogeological services to optimize the wellfield production capacity at Water Treatment Plants No. 3 and 9. This comprehensive wellfield evaluation will assist with the Water Utilities Department's on-going wellfield rehabilitation program and to provide a long term plan to maintain sustainable wellfield yields. The contract with Brown & Caldwell, Inc. includes the small business (SBE) participation goal of 26%, which exceeds the 15% goal established by the SBE Ordinance. This Consultant Services Authorization includes 24.14% overall participation. The consultant's cumulative SBE participation, including this Authorization, is 30.78% overall.

(WUD Project No. 07-022)                      District 5                      (MJ)

**Background and justification:** On July 11, 2006, the Board executed the Water Utilities Department Wellfield Rehabilitation Continuing Contract with Southeast Drilling Services, Inc. in the amount of \$1,176,000 (R2006-1287). Brown and Caldwell, Inc. will provide hydrogeological services related to the Department's on-going wellfield rehabilitation contract. In addition, they will determine the sustainable yield of each well, recommend wellfield modifications and evaluate the need to construct additional wells to maintain adequate long-term water supply for Water treatment Plant No. 3 and 9. On April 19, 2005, the Board approved a contract for Professional Consulting Engineering Services with Brown & Caldwell (R-2005-0776) for Utility Hydrogeologic Engineering Services.

**Attachments:**

- 1. Location Map
- 2. Two (2) Original Consultant Services Authorization No. 8

<b>Recommended By:</b>	 _____ <b>Department Director</b>	1/9/07 _____ <b>Date</b>	
<b>Approved By:</b>	 _____ <b>Assistant County Administrator</b>	1/22/07 _____ <b>Date</b>	

## II. FISCAL IMPACT ANALYSIS

### A. Five Year Summary of Fiscal Impact:

Fiscal Years	2007	2008	2009	2010	2011
Capital Expenditures	<u>\$209,168.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$209,168.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

**Budget Account No.:** Fund 4011 Dept 721 Unit W006 Object 6541

Is Item Included in Current Budget?      Yes **X**      No

Reporting Category N/A


**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

One time capital expenditure from Water Utilities Department user fees, connection fees and balance brought forward.

C. Department Fiscal Review: Debra M. West

### III. REVIEW COMMENTS

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

  
 Contract Development and Control 11/18/07  
 OFMB  
 Legal Sufficiency:

**B. Legal Sufficiency:**

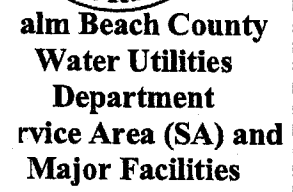
*[Signature]* 1/19/07  
Assistant County Attorney

**This item complies with current County policies.**

**C. Other Department Review:**

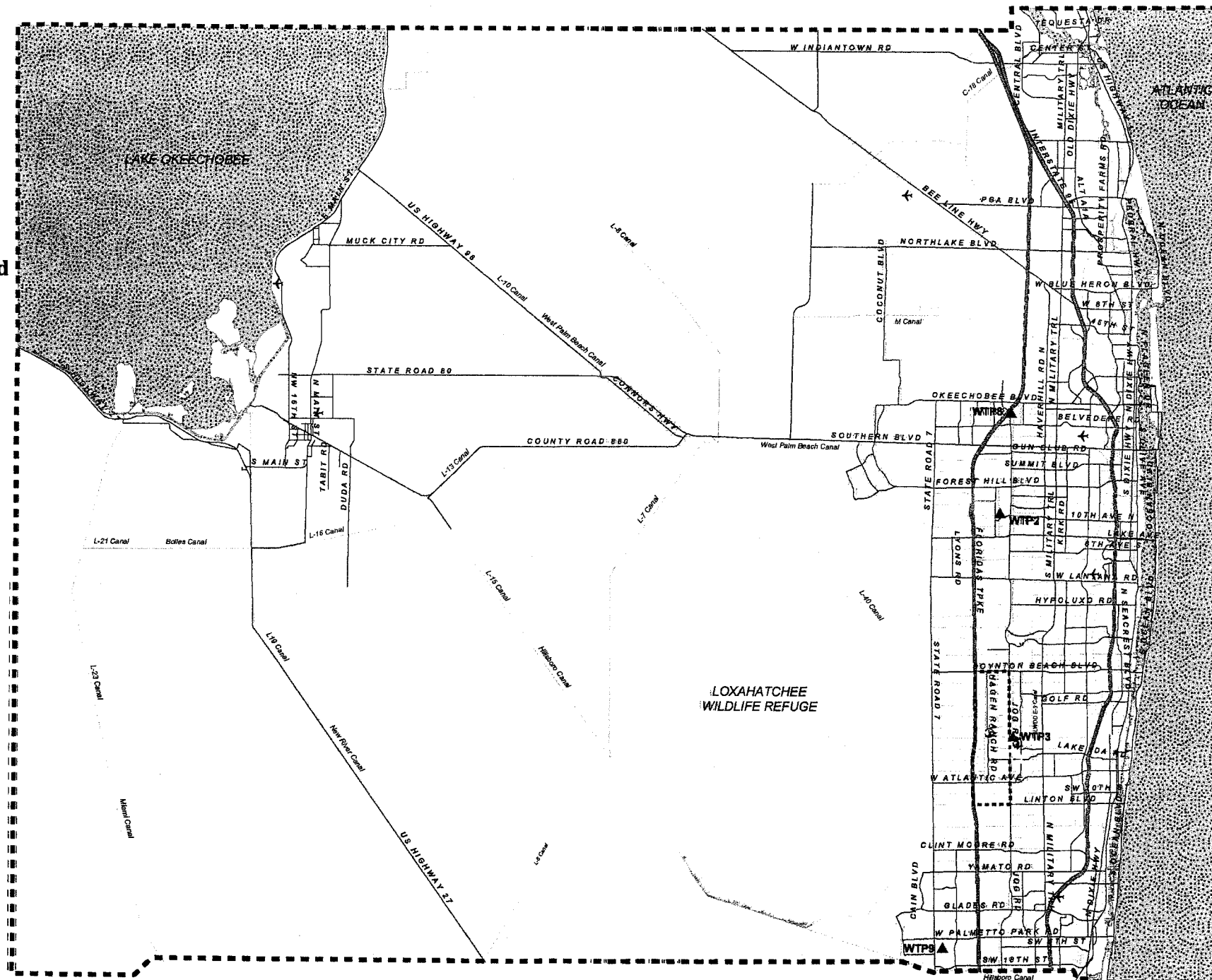
Purchasing Department Director

This summary is not to be used as a basis for payment.



## Attachment 1

### Water Treatment Plant



**CONSULTANT SERVICES AUTHORIZATION NO. 8  
WELLFIELD CAPACITY ENHANCEMENTS**

**Project No. 07-022**

**WUD Budget Line Item No. 4011-721-W006-6541**

**Project Title: Well Capacity Enhancements**

**District No.: 1, 2, 3, 5 & 6**

**THIS AUTHORIZATION # 08** to the Contract for Consulting/Professional Services dated April 19, 2005 with an effective date of June 1, 2005 (Resolution/Document R2005 0776), by and between Palm Beach County and the Consultant identified herein, is for the Consultant Services described in Item 3 of this Authorization. The Contract provides for 26% SBE participation. This Consultant Services Authorization includes 24.14 %. The cumulative SBE participation, including this authorization is 30.78% overall. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. **CONSULTANT:** Brown and Caldwell
2. **ADDRESS:** 1800 South Australian Avenue, West Palm Beach, Florida 33409
3. **Description of Services to be provided by the Consultant:**

Provide services to assist the County in assessing the condition of the wells in WTP 3 and WTP 9 wellfields, also reviewing the pump capacities and operation of the weelfields in an effort to improve their effectiveness and recommend a long term well maintenance program.

**See EXHIBIT "A".**

4. **Services completed by the Consultant to date:**

**See EXHIBIT "B" and "C".**

5. **Consultant shall begin work promptly on the requested services.**
6. **The compensation to be paid to the Consultant for providing the requested services shall be:**

A. **Computation of time charges plus expenses, not to exceed \$ N/A**

B. **Fixed price of \$209,168**

7. **This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.**

## EXHIBIT E

**PROJECT NO. WUD 07-022****AUTHORIZATION NO. 8**

**Budget Line Item No. 4011-721-W006-6541**

8. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated with an effective date of April 15, 2005 remain in full force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

**CONSULTANT:**

**PALM BEACH COUNTY  
A POLITICAL SUBDIVISION OF  
THE STATE OF FLORIDA  
BOARD OF COUNTY  
COMMISSIONERS OF PALM  
BEACH COUNTY, FLORIDA**

FIRM: BROWN AND CALDWELL

**Signed:**

**Addie L Greene, Chairperson**

Typed Name: Ronald M. Ash P.E.

ATTEST:

**Title:** Vice President

**Sharon Bock**

Date:

(Clerk & Comptroller)

**ATTEST:**

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

(Signed)

(County Attorney)

## **EXHIBIT A**

### **CONSULTANT SERVICE AUTHORIZATION NO. 8**

#### **PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES**

#### **SCOPE OF WORK FOR WELLFIELD CAPACITY ENHANCEMENTS**

##### **INTRODUCTION**

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/Professional Services - Palm Beach County Utilities Department Project No. WUD 05-003 (CONTRACT) with Brown and Caldwell (CONSULTANT) to provide engineering services for various general activities on (Resolution/Document R2005 0776). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing services related to the wellfields at Water Treatment Plants (WTP) 3 and 9 in connection with optimizing raw water capacity through various means including well rehabilitation, pumps, pipelines and operations.

##### **BACKGROUND**

There are 26 wells at WTP 3 that directly feed into the WTP 3 membrane softening water treatment plant, of which 3 wells are used for blending; there are 24 wells in the WTP 9 wellfield that directly feed into the WTP 9 membrane softening plant. These wells have experienced declining production levels, increases in sand production and other related issues. Consequently the flow to the water treatment plants is reduced.

There are current active projects in connection with repairing, rehabilitating and re-furbishing the production wells at WTP 3 and WTP 9. It is important that these wells operate efficiently and produce an adequate amount of water to meet demands. During these well rehabilitation activities, the COUNTY has requested that the CONSULTANT provide assistance to staff to support the effectiveness of the well rehabilitation efforts, look at underlying causes for issues with the wells and make recommendations about a future maintenance program. The CONSULTANT has compiled the following scope of work to provide guidance and recommendations to staff to address their concerns. Staff has also requested that the CONSULTANT determine what additional well measurements could be made available to the water treatment plant operators to improve their understanding of the immediate condition of the production wells on a continuing basis. These data could assist in wellfield optimization upon completion of well rehabilitation efforts and permit operators to monitor the condition of the wells and implement an effective long term maintenance program.

The staff has requested that the following goals be incorporated as part of this effort:

- Determine the overall capability of the aquifer at WTP 3 and WTP 9
- Establish a realistic expectation from the wells in the areas of the two water treatment plants.
- Recommend modifications to rehabilitate the wells for optimum production

- Determine the sustainable capacity of each well
- Determine the sustainable capacity of each wellfield
- Review pump operation, appropriateness of size and effectiveness of pumps
- Recommend a long term well optimization and maintenance program.

## **SCOPE OF SERVICES**

CONSULTANT shall perform the engineering Scope of Services as described herein.

### ***Phase 1 Production Well Enhancements***

The CONSULTANT will perform an independent assessment of the wells and wellfields at WTP 3 and WTP 9 accounting for the condition of the wells from the available information, their efficiency, water production and water quality in order to determine a priority for rehabilitation based upon data supplied by the County staff and rehabilitation contractor. A level of service (metric required to maintain viability) for the wells will be assessed for each category of rehabilitation required. Existing information will be evaluated and a level of confidence in that information determined. The need for additional data will be assessed and a plan to obtain the data discussed with staff. The following sub-tasks will be performed in order to analyse the available information and provide COUNTY staff with recommendations regarding the current rehabilitation program, and the long term expectations regarding the raw water capacity from the production wells and wellfields.

It is anticipated that the COUNTY and Well Contractor will provide data to the CONSULTANT that is accurate and representative. The CONSULTANT will not be independently collecting data for this project and will be making professional judgements based solely upon the data provided.

#### ***Task 1.1: Existing Well Condition Assessment***

**Sub-task 1.1.1 Accumulate and review existing well data.** Data will include factors such as location, operational data, performance/efficiency, installation/construction, water quality, maintenance costs, current and future needs. These data will be obtained from County staff.

**Sub-task 1.1.2 Staff Interviews.** Interview water plant and other staff about current well condition and general useage of wells and operations of the wellfield.

**Sub-task 1.1.3 Field Inspection.** Where determined necessary by the data compilation, the CONSULTANT will visit the production wells to visually inspect the condition of the wells and wellheads. Sixteen hours of time is anticipated to be spent on field inspection at the two wellfields. A visit to a few representative wells in each wellfield with County staff including operations and engineering staff is anticipated.

#### ***Task 1.2: Well Rehabilitation Effectiveness***

The CONSULTANT will provide responsive feedback to staff through meetings, e-mails and telephone calls to enable staff to take action in a timely manner.

##### **Sub-task 1.2.1 On-going Well Rehabilitation Results and Effectiveness**

As well rehabilitation proceeds, the CONSULTANT should be receiving copies of the contractor's notes and data on progress. These data will be reviewed and discussed with County staff on a regular basis at bi-weekly meetings.

### **Sub-task 1.2.2 Well Rehabilitation Progress Meetings**

The CONSULTANT will participate in the regularly scheduled bi-weekly well rehabilitation progress meetings and pass on relevant comments or opinions to COUNTY staff.

### **Sub-task 1.2.3. Well Rehabilitation Procedures**

The CONSULTANT will review the procedures proposed and implemented by the Well Rehabilitation Contractor and make recommendations to County staff, based upon preliminary results of wells that have been rehabilitated including whether the procedures should be modified. An expert in the field of Well Rehabilitation, employed by the CONSULTANT, will be involved in reviewing the procedures employed by the Contractor, will visit the site of the work and will be involved as the work progresses.

### ***Task 1.3 Aquifer Analysis***

Available wellfield data including specific capacity data and pumping test data will be used to determine the overall aquifer characteristics. An approximate a sustainable yield for the wellfield will be derived. The CONSULTANT will use the Palm Beach County South County groundwater model used for the Consumptive Use Permit process in 2003, to determine the sustainable yields for the wellfields and simulate wellfield operating scenarios within the CUP guidelines.

### ***Task 1.4 Deliverable***

The CONSULTANT will prepare a technical memorandum documenting the work conducted in this Phase and provide recommendations related to any substantial changes that should be made to specific production wells in order to materially improve the expected well production. The report will include wellfield operating scenarios for each wellfield, and a determination as to whether additional wells may be necessary to meet projected supply demands.

## ***Phase 2: Potential System Enhancements***

Using data supplied by the County from its current and historic records and the drilling contractor in charge of Well Rehabilitation, the CONSULTANT will review and analyze the equipment and above-ground well facilities connected with WTP 3 and WTP 9 wellfields. Upon completion of the reviews, recommendations regarding cost effective improvements, change-outs or adjustments to the system will be discussed with staff to improve wellfield capacity and energy efficiency. The CONSULTANT's well rehabilitation expert will review the work performed as part of this task to provide review and input into the findings and resulting recommendations. A Technical Memorandum summarizing the results will be submitted to the County. The following sub-tasks will be undertaken to meet these objectives:

### **Sub-Task 2.1: System Overview**

Data will be obtained from the County regarding operation of the wells, including flow data, pipeline sizes, pumped water levels, wellhead pressures, equipment, pump materials, field electrical data, pump curves and pump-setting depths. It is anticipated that the data provided to the CONSULTANT will be accurate and representative. The CONSULTANT will not be independently collecting data for this phase and will be making professional judgements based solely upon the data provided. The CONSULTANT will discuss operation of the



system with County staff in engineering and operations. From these data, the CONSULTANT will compare design parameters with actual conditions for the following:

- Head conditions, pipeline hydraulics
- Operational aspects of pumps and pipelines, including voltage
- Pump Data – curves, settings, pump speed, service factor, fabrication
- Sensor conditions – flowmeters, transducers and other measuring equipment
- Venting, foot and air release valve configurations

#### **Sub-Task 2.2: Well Rehabilitation Contractor's Report**

The drilling contractor conducting well rehabilitation services for the County will be supplying data to staff related to existing and rehabilitated conditions of the system including pumps and pipeline pressures. The CONSULTANT will review this information for incorporation into the overall system review.

#### **Sub-Task 2.3 System Analysis**

From the information on each of the two wellfields, the CONSULTANT will analyze pump settings, curves and pipeline pressures to determine the optimum operating settings for the two wellfields during wet season and dry season conditions. Obtaining the necessary field measurements for this task will be coordinated with County staff.

#### **Sub-Task 2.4 Systems Recommendations**

Upon completion of Sub-Tasks 2.1 through 2.3, the CONSULTANT shall prepare a Technical Memorandum documenting the results of the system analyses and containing recommendations for potential adjustments to the system, including changes to the size, depth settings or operation of the pumps and ancillary equipment. Pump-setting information will include recommendations for wet and dry season pumpage levels and will be integrated with the outcome of the results of Task 1 which examines the capabilities of the wells themselves.

### ***Phase 3: Long Term Maintenance Plan***

During this Phase, the CONSULTANT will assess the information acquired during previous phases to present a recommended long term maintenance plan with scheduled monitoring, and an equipment renewal and replacement plan to continue the wellfield capacities at post rehabilitation levels. The CONSULTANT's expert will provide an overview of the proposed maintenance plan and review recommendations resulting from this task. Recommendations regarding a spare parts inventory for the larger equipment, for example pumps, will be included. This will be accomplished through the following sub-tasks:

#### **Sub-Task 3.1 Individual Production Well Assessment**

The assessment of each facility's production well will review present and recommend future maintenance efforts with particular focus on sand-producing wells. The assessment will recommend methods for enhanced well management including maintenance frequency and will establish a routine maintenance schedule.

#### **Sub-Task 3.2 Wellfield Assessment**

The assessment of each facility's wellfield will include a long term equipment maintenance program for pumps, pipelines, valves, and related appurtenances. Wellfield inventories will be made and renewal and replacement frequencies will be established. A generalized pump specification recommendation for inventory purposes will be made as part of this sub-task.

### **Sub-Task 3.3 Presentation of Results**

Present the results of the project to County staff engaged in operation and maintenance of the WTP 3 and WTP 9 wellfields between submittal of draft and final deliverables in order to solicit feedback on the maintenance plan. This is anticipated to be a short, informal meeting. Some participants may be connected via conference call.

### **Sub-Task 3.4 Deliverable**

Compile a Wellfield Rehabilitation and Maintenance Plan for wellfields at WTP 3 and WTP 9 which may be used as a guide to maintain the wellfield in a sustainable manner.

## **Phase 4 – Project Management**

Project management includes Task Order administration and project meetings with County staff in accordance with the following subtasks:

### **Sub-Task 4.1 – Task Order Administration.**

Prepare Project Management Plan. Monitor progress of work on a weekly basis to assure compliance with established schedule, budget and work quality requirements. Management of sub-consultants including work quality review.

### **Subtask 4.2 – Project Meetings.**

Attend and participate in project meetings with the County staff. A total of ten meetings have been budgeted for as follows:

1. One project kickoff meeting (1).
2. Monthly project coordination meetings with County staff during the course of work (8).
3. Draft deliverable review meeting (1).

## **COMPENSATION**

The CONSULTANT shall provide assistance to the County in accordance with the attached budget, for a lump sum amount of \$194,060. The budget summary is shown in Attachment A.

## **SBE PARTICIPATION**

As prescribed under Section 7.5 of the CONTRACT, SBE participation is included in Attachment B under the Authorization. The attached Schedule I defines this SBE participation.

ATTACHMENT A	Budget Summary
ATTACHMENT B	Project Schedule
ATTACHMENT C	SBE Schedules 1,2
ATTACHMENT D	Location Map

Attachment A  
Authorization No. 08  
Well Rehabilitation for WTP 3 and WTP 9  
Project Budget

LABOR CATEGORY	RAW HOURLY RATE	TASKS				TOTAL HOURS	LABOR @ 3.0 MULT
		1	2	3	4		
Chief Professional	54.00	146	44	44	56	290	\$46,980.00
Supervising Professional	54.00	48	32	28	0	108	\$17,496.00
Managing Professional	59.00	58	158	60	16	292	\$51,684.00
Senior Professional	42.00	33	52	32	8	125	\$15,750.00
Senior Professional	35.00	40	48	8	0	96	\$10,080.00
Financial Administrator	34.00	0	0	0	8	8	\$816.00
Designer/Drafter	32.00	10	0	2	0	12	\$1,152.00
Project Coordinator	20.00	0	0	0	44	44	\$2,640.00
Office Support Services	19.00	14	26	6	14	60	\$3,420.00
<b>TOTAL LABOR HOURS</b>		349	360	180	146	1,035	
<b>TOTAL LABOR DOLLARS</b>							<b>\$150,018.00</b>
<b>SUBCONTRACTORS</b>							
Royal Consulting*		\$25,000					\$25,000
Hillers Electrical			\$11,000				\$11,000
Barnes				\$14,500			\$14,500
							\$0
							\$0
							\$0
<b>SUBTOTAL SUBCONTRACTORS</b>							<b>\$50,500</b>
<b>SUBCONTRACTOR MARKUP (10%)</b>							<b>\$5,050</b>
<b>TOTAL SUBCONTRACTORS</b>							<b>\$55,550</b>
<b>EXPENSES</b>							
Travel		\$2,000.00	\$350.00	\$250.00	\$150.00		\$2,750
Copies, Production, Postage		\$200.00	\$300.00	\$250.00	\$100.00		\$850
<b>TOTAL EXPENSES</b>							<b>\$3,600</b>
<b>TOTAL FEE FOR AUTHORIZATION NO. 08</b>							<b>\$209,168</b>

**EXHIBIT B****RAW HOURLY RATE TABLE FY 2005**

<b>Level</b>	<b>Staff</b>	<b>Rate Range \$</b>
A-D	Office Support Services	9-19
B-C	Project Assistant	9-14
D-F	Project Coordinator	14-20
B-E	Field Technician	9-24
B-H	Drafter	9-39
E-J	Designer	15-54
D-G	Inspector	14-34
E	Professional I	15-24
F	Professional II	18-28
G	Professional III	22-34
G	Financial Administrator	22-34
F-L	Computer/IT Services Specialist	18-63
H	Senior Professional	28-39
I	Principal Professional	29-47
J	Supervising Professional	36-54
K	Lead/Managing Professional	46-59
L	Chief Professional	49-62
M-O	Vice President/Company Officer/Expert	55-80

\*Professional designation includes Engineer, Geologist, Hydrogeologist, Scientist and Construction Engineer categories.

## **ATTACHMENT - B**

### **PROJECT SCHEDULE**

#### **SCHEDULE**

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-To-Proceed):

#### **Engineering Services**

#### **Completion Date**

#### **From Notice-to-Proceed**

Draft Production Well Enhancements

May 17, 2007

Technical Memorandum

Final Production Well Enhancements

July 12, 2007

Technical Memorandum

Draft System Enhancements

June 14, 2007

Technical Memorandum

Final System Enhancements

July 12, 2007

Technical Memorandum

Draft Long Term Maintenance Plan

August 9, 2007

Final Long Term Maintenance Plan

September 28, 2007

**ATTACHMENT C**

**SCHEDULE #1**

**LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS**

PROJECT NAME:	<u>Wellfield Capacity Enhancements</u>	PROJECT NUMBER:	<u>WUD 07-022</u>
NAME OF PRIME BIDDER:	<u>Brown and Caldwell</u>	ADDRESS:	<u>1800 S Australian Avenue, Suite 202</u>
CONTACT PERSON:	<u>Helen V. Madeksho-Hickman</u>	PHONE NO.	<u>561-684-3456</u>
BID OPENING DATE:	<u></u>	FAX NO.	<u>561-684-9902</u>
		DEPARTMENT	<u>Utilities</u>

Name, Address and Telephone Number of Minority Contractor	PLEASE IDENTIFY ALL APPLICABLE CATEGORIES (Check one or both Categories)							Dollar Amount	
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)		
Barnes, Ferland & Associates 3655 Maguire Boulevard, Suite 150 Orlando, Florida 32803	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$14,500.00	\$	\$	\$	\$		
Hillers Electrical Engineers, Inc. 23257 State Road 7, Suite 100 Boca Raton, FL 33428 (561) 451-9165	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$11,000.00	\$	\$	\$		
Royal Consulting Services, Inc. 211 West Warren Avenue Longwood, FL 32750 (407) 831-3095 phone (407) 831-5095 fax	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$	\$25,000.00	\$	\$		
	<input type="checkbox"/>	<input type="checkbox"/>	\$	\$	\$	\$	\$		
	<input type="checkbox"/>	<input type="checkbox"/>	\$	\$	\$	\$	\$		
PRIME CONTRACTOR TO COMPLETE:	TOTAL		\$14,500.00	\$11,000	\$ 25,000.00	\$	-	\$	-
BID PRICE: \$209,168.00	Total Value of SBE Participation:		\$50,500.00						

NOTE:

1. The amount listed on this form for a Subcontractor must be supported by price or percentage included on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
3. M/WBE information is being collected for tracking purposes only.



## ATTACHMENT C

### SCHEDULE #2

PROJECT NO. \_\_\_\_\_

LIAISON: \_\_\_\_\_

#### LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS SUBCONSULTANT

TO: Brown and Caldwell  
(Name of Prime or General Bidder)

The undersigned intends to perform work in connection with the above project as (check one):

\_\_\_\_\_ an individual

\_\_\_\_\_ ☒ a corporation

\_\_\_\_\_ a partnership

\_\_\_\_\_ a joint venture

\_\_\_\_\_ The undersigned is certified by Palm Beach County as a SBE.

Certification date June 20, 2005

Attach proof of SBE certification, either letter or certificate from certifying agency if SBE firm is not listed in current Palm Beach County Directory

OR

\_\_\_\_\_ The undersigned agrees to apply to Palm Beach County for certification as an SBE within seven days of bid opening.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed: ): Portions of Subtask 2.3 System Analysis and Subtask 3.2 Wellfield Assessment

at the following price: \$ \$14,500 Lump Sum  
(Amount must match subcontractor's quote)

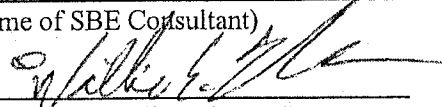
You have projected the following described work, and the undersigned is projecting completion of such work as follows:

<u>Items</u>	<u>Projected Commencement Date</u>	<u>Projected Completion Date</u>
Subtask 2.3 System Analysis	1/22/07	2/28/07
Sybtask 3.2 Wellfield Assessment	1/22/07	2/28/07

0%, of the dollar value of the subcontract will be sublet and/or awarded to non-small business contractors and/or non-small business suppliers. The undersigned will enter into a formal agreement for the work with you conditioned upon your execution of a contract with Palm Beach County.

Barnes, Ferland and Associates, Inc.  
(Name of SBE Consultant)

Date : 1/8/07

By:   
Signature of Small Business Contractor

(1) BFA has recently changed Palm Beach County offices and is in the process of getting the new location certified. Additionally, BFA is a certified MBE with the State (see the attached). If you have any questions, please contact Hazel Oxendine, Office of Small Business Assistance.

**ATTACHMENT C**

**SCHEDULE #2**

PROJECT NO. \_\_\_\_\_

LIAISON: \_\_\_\_\_

**LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS SUBCONSULTANT**

TO: Brown and Caldwell  
(Name of Prime or General Bidder)

The undersigned intends to perform work in connection with the above project as (check one):

\_\_\_\_\_ an individual

\_\_\_\_\_ ☒ a corporation

\_\_\_\_\_ a partnership

\_\_\_\_\_ a joint venture

\_\_\_\_\_ The undersigned is certified by Palm Beach County as a SBE.

*reciprocity w/ State of Florida*

Certification date Feb 21, 2006

Attach proof of SBE certification, either letter or certificate from certifying agency if SBE firm is not listed in current Palm Beach County Directory

OR

\_\_\_\_\_ The undersigned agrees to apply to Palm Beach County for certification as an SBE within seven days of bid opening.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed: ): \_\_\_\_\_

at the following price: \$ 11,000.00  
(Amount must match subcontractor's quote)

You have projected the following described work, and the undersigned is projecting completion of such work as follows:

<u>Items</u>	<u>Projected Commencement Date</u>	<u>Projected Completion Date</u>
--------------	--	--------------------------------------

0%, of the dollar value of the subcontract will be sublet and/or awarded to non-small business contractors and/or non-small business suppliers. The undersigned will enter into a formal agreement for the work with you conditioned upon your execution of a contract with Palm Beach County.

Hillers Electrical Engineering Inc  
(Name of SBE Consultant)

Date: 1/8/07

By: Paul Hillers  
Signature of Small Business Contractor

*P. Hillers*

**ATTACHMENT C**

**SCHEDULE #2**

PROJECT NO. \_\_\_\_\_

LIAISON: \_\_\_\_\_

**LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS SUBCONSULTANT**

TO: Brown and Caldwell \_\_\_\_\_  
(Name of Prime or General Bidder)

The undersigned intends to perform work in connection with the above project as (check one):

\_\_\_\_\_ an individual \_\_\_\_\_ **X** a corporation

\_\_\_\_\_ a partnership \_\_\_\_\_ a joint venture

\_\_\_\_\_ The undersigned is certified by Palm Beach County as a SBE.

Certification date 2/3/2005

Attach proof of SBE certification, either letter or certificate from certifying agency if SBE firm is  
not listed in current Palm Beach County Directory **See Attached**  
OR

\_\_\_\_\_ The undersigned agrees to apply to Palm Beach County for certification as an  
SBE within seven days of bid opening.

The undersigned is prepared to perform the following described work in connection with the  
above project (specify in detail particular work items or parts thereof to be performed:

Task 1 - Data Collection And Evaluation
Task 2 -Groundwater Model Update
Task 3 -Groundwater Modeling Analysis
Task 4- Predictive Simulations
Task 5- Presentation of Model Results
Task 6 - Meetings

at the following price: \$ 25,000

(Amount must match subcontractor's quote)

You have projected the following described work, and the undersigned is projecting completion of such work as follows:

<u>Items</u>	<u>Projected Commencement Date</u>	<u>Projected Completion Date</u>
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0%, of the dollar value of the subcontract will be sublet and/or awarded to non-small business contractors and/or non-small business suppliers. The undersigned will enter into a formal agreement for the work with you conditioned upon your execution of a contract with Palm Beach County.

Royal Consulting Services, Inc.  
(Name of SBE Consultant)

Date : 1/8/2007

By: Brian L. Ray  
Signature of Small Business Contractor

***PALM BEACH COUNTY  
OFFICE OF SMALL BUSINESS ASSISTANCE***

**CERTIFIES THAT**


***ROYAL CONSULTING SERVICES, INC.***

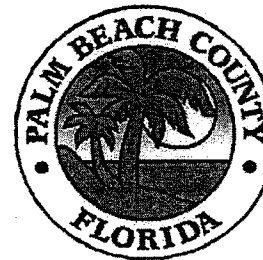
**VENDOR #VC0000013411**

***is a Small Business Enterprise as prescribed by Section 2-80.21 - 2-80.34 of the Palm Beach  
County Code for a three year period from February 3, 2005 to February 2, 2008.***

The following Services and/or Products are covered under this certification:

**Professional Engineering Services  
Environmental Engineers**

  
**Hazel Oxendine, Director**



**Palm Beach County Board of County Commissioners**

**Tony Masilotti, Chairman  
Addie L. Greene, Vice Chairperson  
Karen T. Marcus  
Jeff Koons  
Warren H. Newell  
Mary McCarty  
Burt Aaronson**

**County Administrator**

**Robert Weisman**



**Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities**

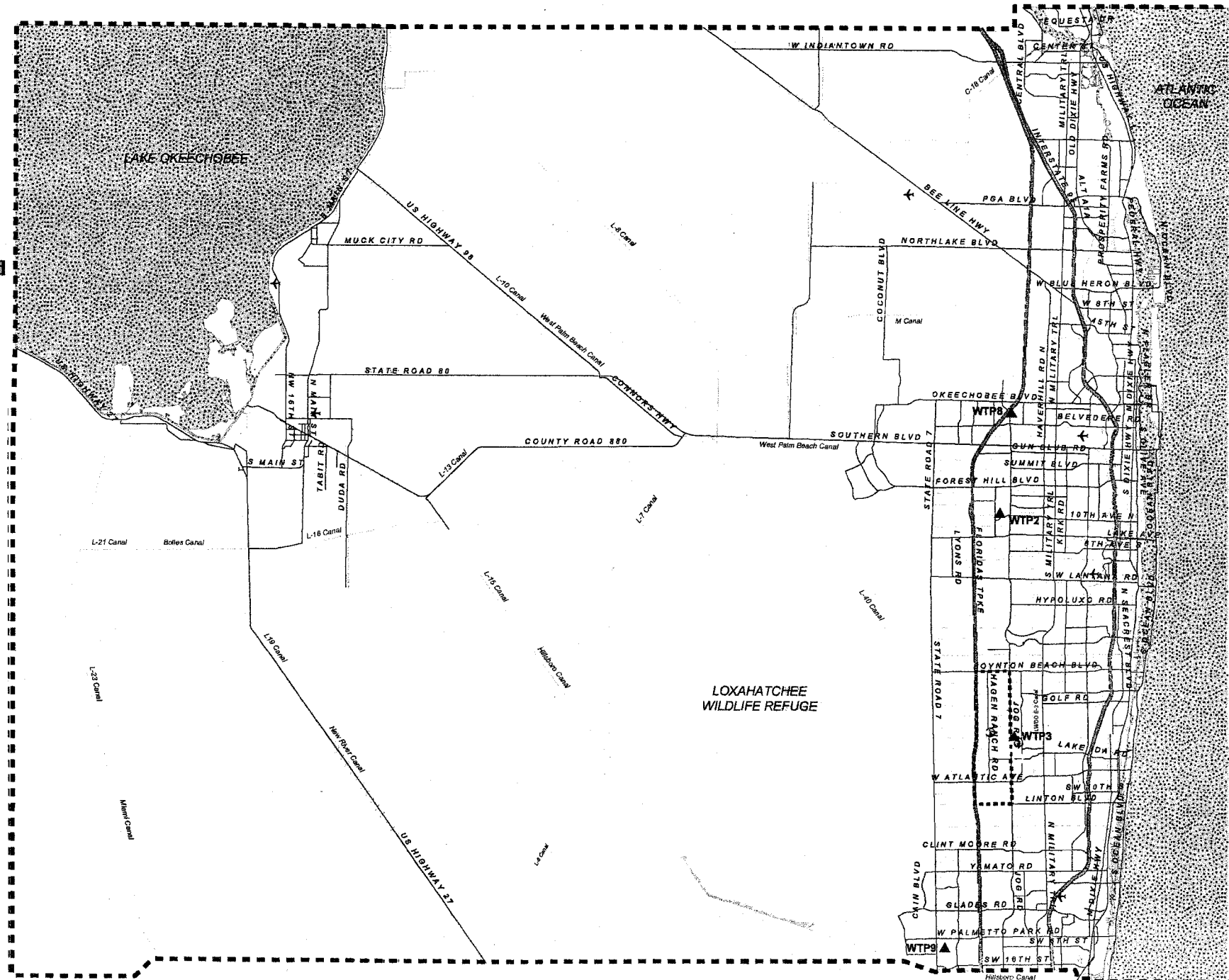
Wellfield Capacity  
Enhancements

Legend

Water Treatment Plant



NOT TO SCALE



[illegible]

**EXHIBIT - C**

**AUTHORIZATION STATUS REPORT**

**SUMMARY OF  
SMALL BUSINESS TRACKING SYSTEM**

	Total	SBE
Current Proposal		
Value of Authorization No. 8	\$ 209,168.00	
Value of SBE Letters of Intent	\$ 50,500.00	\$ 50,500.00
Actual Percentage	24.14%	24.14%
Signed Authorizations		
Total Value of Authorizations	\$ 1,170,303.00	
Total Value of SBE Signed Subcontracts	\$ 374,130.00	\$ 374,130.00
Actual Percentage	31.96%	31.96%
Signed Authorizations Plus Current Proposal		
Total Value of Authorizations	\$ 1,379,471.00	
Total Value of Subcontracts & Letters of Intent	\$ 424,630.00	\$ 424,630.00
Actual Percentage	30.78%	30.78%
Goal	26.00%	