

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

Meeting Date: May 15, 2007

Consent

Regular

Public Hearing

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

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Service Authorization No. 10 to Brown & Caldwell, Inc. for Water Treatment Plant No. 3 New Production Wells in the amount of \$230,067.

Summary: This Consultant Services Authorization provides for engineering and hydrogeological services to design and permit four new raw water wells for Treatment Plant No. 3. The additional wells are needed to improve system reliability and 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 42.68% overall participation. The consultant's cumulative SBE participation, including this Authorization, is 28.00% overall.

(WUD Project No. 07-118)

District 5


(MJ)

Background and Justification: 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. The Water Treatment Plant No. 3 wellfield production rates have declined below the projected design yield. Wellfield rehabilitation efforts have regained most of the required production. Additional wells are needed to maintain sustainable yields and to allow adequate rest periods during the well rotation cycle which will minimize future wellfield rehabilitation. A minor modification of the South Florida Water Management District (SFWMD) twenty year water use permit is included in the authorization to match the proposed well site locations to the permit locations.

Attachments:

1. Location Map
2. Two (2) Original Consultant Services Authorization No. 10

Recommended By:  04/18/07
Department Director Date

Approved By:  5/1/2007
Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2007	2008	2009	2010	2011
Capital Expenditures	<u>\$230,067.00</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>\$230,067.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

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: Delram West

III. REVIEW COMMENTS

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

John D. ... 4-26-07
 OFMB
 CN
 4-24-07
 4/24/07

Jim J. ... 4/27/07
 Contract Development and Control
 4/27/07

B. Legal Sufficiency:

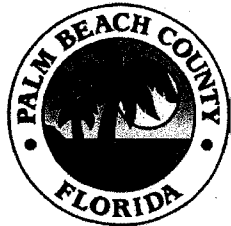
James ... 4/30/07
 Assistant County Attorney

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.



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

New Production Wells
at Water Treatment
Plant No. 3

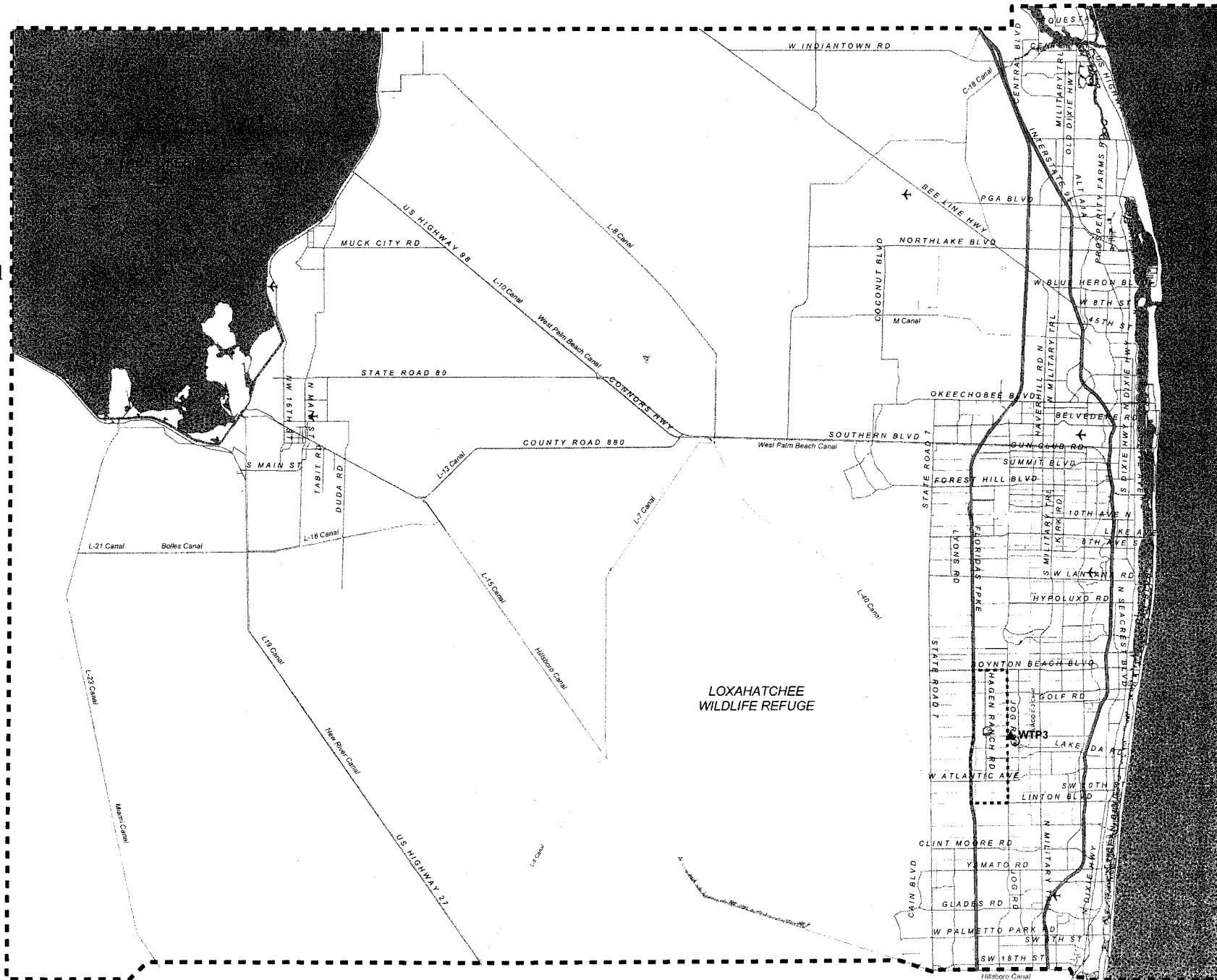
Attachment 1

Legend

▲ Water Treatment Plant



NOT TO SCALE



CONSULTANT SERVICES AUTHORIZATION NO. 10

Project No. WUD 07-118

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

Project Title: Water Treatment Plant 3 New Production Wells

District No.: 5

THIS AUTHORIZATION # 10 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 42.68 %. The cumulative SBE participation, including this authorization is 28.00% 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:

Design of four new wells at to be located in the Water Treatment Plant #3 Wellfield.

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 \$
 - B. Fixed price of \$230,067
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.

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: Ronald M. Ash

Typed Name: Ronald M. Ash

Title: Vice President

Date: 04-09-07

ATTEST:

M. Adalberto Hiale
(Signed)

Addie L. Greene, Chairperson

ATTEST:

Sharon Bock

(Clerk & Comptroller)

APPROVED AS TO FORM AND LEGAL
SUFFICIENCY:

(County Attorney)

EXHIBIT A

CONSULTANT SERVICE AUTHORIZATION NO. 10

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

**SCOPE OF WORK
FOR
WATER TREATMENT PLANT 3 NEW PRODUCTION WELLS**

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 (Reference Document R2005 0776). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing services related to the design of four new production wells located in the Water Treatment Plant (WTP) No. 3 wellfield. The work includes locating the wells, designing the wells, wellheads and pipelines required to connect the wells to the existing system.

BACKGROUND

The Water Treatment Plant 3 wellfield is located in the general vicinity west of Delray Beach from east of Florida's Turnpike to just east of Jog Road between Lake Worth Drainage District (LWDD) canals L-30 and L-31. The wellfield currently consists of 25 production wells; the first wells in this wellfield were drilled in 1973 and the most recent were constructed in 2003. The water treatment plant served by the wellfield is a membrane softening water treatment plant with a rated capacity of 30 million gallons per day (MGD). The COUNTY has been assessing the available wellfield capacity of wells in the wellfield and it is determined that additional wells are required at WTP No. 3 to increase reliability during droughts and wellfield maintenance. There are several available well sites that were included in the most recent Consumptive Use Permit (CUP) approved in 2003. In addition, there are other potential well sites located in the vicinity of the WTP No. 3 wellfield in many of the new developments built over the past few years.

SCOPE OF SERVICES

The CONSULTANT shall perform the engineering Scope of Services as described herein. This Scope of Work describes those specific engineering and professional services to be provided by the CONSULTANT for the addition of up to four wells to the WTP No. 3 wellfield.

The services described herein are based on the preparation of contract documents for one (1) construction contract for the construction of the expansion to the wellfield.

Task 1: Preliminary Design

The CONSULTANT will provide preliminary design services related to the project as described in the following sub-tasks:

Sub-task 1.1 Production Well Siting. The CONSULTANT will conduct reconnaissance to evaluate, based on the visual inspection in the field, the suitability of the well sites previously selected and identified by PBCWUD for well permitting, design, construction and access (for future maintenance).

Sub-task 1.2 Well Site Surveys. The CONSULTANT will obtain the services of a licensed surveyor to provide a construction layout survey for each site, provide a platted survey to the center of the road for driveway access and design surveys. The survey will include a 60' x 40' well site and include to the center of the road. The surveys will also show plat book and page, tract number for well site, property lines, easements, right-of-way, lot numbers and road names. Elevations of center of road, bottom and top of curb, sidewalk, well site on 20' or smaller grid also shall be included.

Sub-task 1.3 Environmental Audits. Phase I and limited Phase II environmental audits will be conducted at up to four (4) sites identified through the site visits. A memorandum will be prepared documenting the results of these audits, with recommendations for well site relocations, as applicable. The following work will be completed as part of this task:

Sub-sub-task 1.3.1 Records Review. Review existing state and Federal environmental databases for any facilities within a mile of any portion of the proposed wellfield area that may have a record of, or potential for, groundwater contamination

Sub sub-task 1.3.2 Aerial Photographs. Obtain and review historic aerial photographs for land uses on and around the wellfield area that may have introduced the potential for contamination

Sub sub-task 1.3.3 Field Verification. Conduct a field investigation of the proposed wellfield area and the surrounding area, extending to one mile, to field verify for potential contamination sources.

Sub sub-task 1.3.4 Water Sampling. Install four (4) production zone boreholes (to approximately 130-150 feet) to evaluate soil and groundwater conditions. Soils will be profiled in the uppermost 20 feet and between 90 feet and 140 feet from the split spoon samples. Groundwater will be sampled and provided to the COUNTY for laboratory analysis. The parameters for analysis will be determined by the results of the three previous tasks, but at a minimum, should include analysis for the eight RCRA metals and organic compounds from one of the following groups: The Mixed Product Analytical Group, the Unknown/Waste Oil Group, or TCL Organics.

Sub sub-task 1.3.5 Production Well Siting Documentation. A memorandum summarizing the reconnaissance efforts and any noted compliance issues will be prepared and submitted to the COUNTY. It is assumed that the sites previously selected by the COUNTY will be suitable for the new wells. Therefore, this scope of work does not include efforts in selecting new sites outside of the limits of the proposed wellfields.

Sub-task 1.4 Raw Water Pipeline Routing and Modeling. The pipeline route each of the raw water pipelines to the four wells will be identified and modifications to the hydraulic model will be made to reflect the expanded wellfield layout. A majority of the pipelines from

each well site to the property development boundary has already been installed. The CONSULTANT shall design the segments between the end of the developer pipelines to tie in to the raw water line.

Sub sub-task 1.4.1 Pipeline Route Field Reconnaissance. Based on the proposed well locations, field reconnaissance will be performed to identify each viable pipeline route that will connect the existing developer lines to the existing raw water pipelines. It is assumed that the pipelines will be installed in easements currently owned by, or that will be obtained by, the COUNTY. It is assumed that no more than 300 feet of lineal pipe will be required to connect the four wells to the respective raw water pipeline. Accordingly, this scope of work does not include property acquisition assistance, including boundary surveys, O&E investigations, appraisals or land negotiations.

Sub sub-task 1.4.2 Hydraulic Model Analysis. CONSULTANT will obtain the hydraulic model of the existing wellfield and modify this model to reflect the proposed wellfield expansion. The model expansion will be developed using the COUNTY's H2O Net software and run under various alternative pumping conditions to determine the range of operating pressures under which each pump will operate.

Sub sub-task 1.4.3 Existing Well Pump Operation. Using the hydraulic models, the CONSULTANT will evaluate the impact the wellfield expansion will have on the existing well pumps. This evaluation will be made to determine if modifications to the pumps are required.

Sub sub-task 1.4.4 Wellfield Layout. Recommendations for expansion of the wellfield, including the sizing and locations of raw water piping and modifications to the existing pumping systems will be made as part of the Technical Memorandum prepared as sub-task 1.7 below. The issue of whether three phase power is available at each of the well sites will be investigated as part of this sub-task.

Sub-task 1.5 Wellhead Design Recommendations. Recommendations for the design of applicable civil, mechanical and electrical facilities for the wellfield expansion will be prepared, including:

- Typical Wellhead Layout Sketches
- Typical Well Site Layout Sketches (4 sites)
- Civil, Other Site and Security Recommendations
- Overall Electrical Supply Plan and Preliminary One Line Diagrams
- Communication System Recommendations

Sub-task 1.6 Preliminary Design Meeting. A meeting will be held with PBCWUD staff to discuss the basis for design of the project upon completion of the above-described work. The basis for the design will include the hydrogeological, civil, mechanical, electrical, instrumentation and control systems for the wellfield. Meeting minutes will be prepared and will serve as a record of the design parameters used in the final design. A preliminary opinion of probable construction costs, also and a schedule for implementation will also be available for discussion.

Task 2: PERMITTING

PBCWUD's existing water use permit currently provides for the construction of additional wells serving WTP No. 3 at various locations. The COUNTY is not seeking to increase its allocation in the WTP No. 3 wellfield at this time, only to add well locations to the permit to better operate the wellfield with its existing allocation. Two of the four well locations to be

used during this project have already been modeled and included under the current consumptive use permit, but two others have not, so this scope of work includes working with the SFWMD to add the two proposed well sites into the permit.

This task also includes obtaining permits required by the Palm Beach County Building and Public Right-of-Way Departments, the raw water main permits obtained through the Health Department, and site sanitary surveys for the wells through the Florida Department of Environmental Protection (FDEP). PBCWUD will provide all permit fees.

Sub-task 2.1 Groundwater Modeling. Based on the well locations selected/obtained by PBCWUD, groundwater modeling using the COUNTY's existing model will be made in support of the withdrawals at these locations, assuming no increase in allocation to the overall wellfield.

Sub-task 2.2 Permit Modification Application. A permit modification document will be prepared and submitted to the SFWMD in support of the modification to the COUNTY's Water Use Permit to add two well locations to the WTP No. 3 wellfield portion of the CUP. Additionally, the SFWMD will be notified that the COUNTY proposes to install wells at two already permitted locations. If "moving" a proposed well location in the Permit is possible instead of adding additional well locations to the permit, this strategy will be employed.

Sub-task 2.3 Request for Additional Information (RAI). The CONSULTANT will respond to up to one Request for Additional Information from the SFWMD based upon the submitted permit modification.

Sub-task 2.4 Raw Water Main Permits. The CONSULTANT will coordinate with PBCWUD and the Health Department to obtain raw water main permits for each of the four pipelines connecting each of the wells to the closest existing raw water main.

Sub-task 2.5 FDEP Well Sanitary Surveys. The CONSULTANT will coordinate with PBCWUD and the FDEP to obtain site sanitary clearances for each of the four wellsites.

Subtask 2.6 Palm Beach County Right-of-Way Permits. The CONSULTANT will coordinate with PBCWUD and the County Right of Way Department to obtain permits for each of the four pipelines connecting the wells to the closest existing raw water main.

Sub-task 2.7 Palm Beach County Building Permits. The CONSULTANT will coordinate with PBCWUD and the County Building Department to obtain permits for each of the well sites.

Task 3: DESIGN

The design of the wellfield expansion project is described below.

Sub-task 3.1 Wellfield Expansion Design. For the wellfield expansion, the CONSULTANT will prepare the hydrogeological, civil, structural, mechanical, electrical and instrumentation design for the new production wells, the wellheads and the raw water piping systems based on the approved design memorandum.

Sub-task 3.2 Draft Contract Documents. Draft contract documents, including the drawings and technical specifications (Division 2-16), for the bidding of a single contract for construction for all of the work will be prepared. PBCWUD will be responsible for producing the front end specifications (Divisions 0-1).

Sub sub-task 3.2.1 Drawings. Construction drawings showing the extent of the work for the wellfield expansion, including production well construction, the wellhead civil, structural, mechanical and electrical work, and the raw water piping will be prepared. The drawings will include the following sheets:

- One (1) Cover Sheet
- One (1) Location/Vicinity Plan Sheet
- Four (4) Site Plans and Detail Sheets
- One (1) Well Construction/Improvements Sheet
- Three (3) Mechanical Standard Sheets
- Nine (9) Electrical Detail Sheets
- Three (3) Instrumentation and Control Sheets
- Two (2) Miscellaneous Sheets

Sub sub-task 3.2.2 Technical Specifications. Technical specifications, in conformance with PBCWUD standards will be prepared, for inclusion in the contract documents. The specifications will be prepared in CSI format and include Technical Specification Divisions 2-16.

Sub sub-task 3.2.3 Front End Specifications. PBCWUD will be responsible for producing the front end specifications based on comments provided by the CONSULTANT. The CONSULTANT will provide comments in the form of either handwritten mark-ups to a paper copy of PBCWUD's specifications or in electronic "red-line/strike-out" format, at PBCWUD's request, including:

- Division 0, including the advertisement, instructions to bidders, information for bidders, bid forms, and recommendations regarding substantial and final completion requirements.
- Division 1, including the scope of work, measurement and payment, contractor restrictions and limitations, and recommendations to other Division 1 General Requirements.

Sub sub-task 3.2.4 Design Review Meetings. Seven (7) full size copies of the Contract Documents will be prepared for review at the 60% and 90% complete stages of the design.

- 60% Review Meeting. The CONSULTANT will attend and document a 60% design review meeting to include a review of the following:
 - Preliminary Drawings of Civil, Mechanical, Electrical, and Instrumentation Improvements.
 - Specifications Outline
- Meeting with each of the two homeowners associations to obtain input into the design process.
- 90% Review Meeting. The CONSULTANT will attend and document a 90% design review meeting to include a review of the following:
 - All Drawings
 - All Technical Specifications
 - Comments to Front End Specifications

Sub sub-task 3.2.5 Final Contract Documents. Seven (7) full size copies of the proposed final (90%) Contract Documents will be submitted for review by PBCWUD. Comments received from this review (at a meeting) will be incorporated in the 100% complete Contract Document submittal. Seven (7) full size copies, two (2) half size copies, and one (1) electronic (Autocad) copy of the 100% complete Contract Documents will be furnished.

TASK 4: OPINION OF PROBABLE CONSTRUCTION COST

An opinion of probable construction costs at the 100% complete design stage of the project will be prepared and provided to PBCWUD.

TASK 5: BIDDING ASSISTANCE

The CONSULTANT will assist PBCWUD with the bidding and award of a single construction contract for the project. The following subtasks are included as part of this task:

Sub-task 5.1 Bidding Documents. Copies of the bidding documents will be distributed and records of all plan holders will be maintained. In addition, one (1) electronic set of the contract documents will be furnished to planholders, as designated by PBCWUD.

Sub-task 5.2 Inquiries. Respond to bidders' inquiries.

Sub-task 5.3 Addenda. Prepare addenda necessary to clarify the bidding documents as prepared by CONSULTANT and distribute to all plan holders of record. This task includes the preparation of a maximum of one (1) addendum to the bidding documents, subsequent to the advertisement date, to incorporate changes requested by PBCWUD.

Sub-task 5.4 Pre-Bid Conference. Attend one (1) pre-bid conference. This task also includes conducting a single visit to the site of the work with prospective bidders. Document meeting in minutes distributed to all bidders of record.

Sub-task 5.5 Bid Opening. Attend one bid opening and prepare tabulation of the three apparent low bids.

Sub-task 5.6 Bid Review Meeting. Attend one meeting with PBCWUD to review the acceptability of subcontractors, suppliers, equipment and other information submitted by the apparent low bidder. Consult with PBCWUD concerning the acceptability of substitute materials and equipment proposed by the apparent low bidder.

Sub-task 5.7 Award. Review the submittals of the three apparent low bidders, evaluate, and provide written recommendations to PBCWUD recommending award of the contract.

TASK 6: PROJECT MANAGEMENT

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

Sub-Task 9.1 – 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 6.2 – Project Meetings. Attend and participate in project meetings with the County staff, in accordance with the Schedule, Attachment B. A total of eighteen (18) 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 (7).
3. Draft deliverable review meetings (4).

ASSUMPTIONS AND CLARIFICATIONS

This scope of work is based on the various assumptions, clarifications and exceptions noted previously, as well as the following:

- Access will be provided to the site of the work during design and construction activities, as reasonably requested.
- All equipment will be furnished under the construction contract. Separate equipment procurements are not included in this scope of work.
- Any temporary or permanent construction easements or easement agreements necessary for access to or construction of the work will be provided by PBCWUD. This scope of work does not include assistance with property acquisition.
- Public information, awareness and involvement activities are not included in this scope of work.
- All excavations and associated surface restorations required during preliminary design and design phases, such as potholing to locate underground utilities, will be provided by PBCWUD.
- A copy of available record drawings, in paper format, depicting the layout, construction and details of the existing wellfield, will be furnished to CONSULTANT by PBCWUD for CONSULTANT's use in preparing the contract documents. PBCWUD will field locate all water and wastewater utilities and the CONSULTANT will coordinate with PBCWUD's surveyor on the location of existing utilities. All required topographical and boundary surveys necessary to complete the work associated with the design and bidding of the wellfield expansion, exclusive of the raw water piping, will be furnished to the CONSULTANT by PBCWUD in electronic format. It is further assumed that this information will be provided to the CONSULTANT by PBCWUD in accordance with the project schedule.
- Pigging, or otherwise cleaning, of the existing raw water piping system is not included in this scope of work.
- Not more than 300 lineal feet of raw water main will be required to connect the 4 new wells to the existing raw water piping. It is understood that the developers have already designed and installed a majority of the raw water lines required for this project. It is further understood that there are no aerial or sub-aqueous crossings no jack and bore for the raw water piping system.

- For the wellfield expansion, it is assumed that submersible pumps, located above ground, will be employed; that landscaping will not be required at each wellsite; and, that security fencing will be required for any aboveground electrical equipment. Also, that no stormwater retention/detention will be required.
- It is assumed that no new roadways will be constructed under this project.
- It is assumed that three phase power is readily available at each well site.
- For the wellfield expansion, it is assumed that communications for remote control and monitoring of the wells will be provided by radio telemetry utilizing PBCWUD standards.
- Upon completion of construction, the CONSULTANT will supply record drawings and certification that the WTP No. 3 Wellfield Expansion Project was constructed in accordance with the construction permit. The CONSULTANT will certify the electrical and instrumentation portion of the work. The CONSULTANT will not provide services, including pressure testing and bacteriological clearances, necessary to obtain approval to operate the wells.
- All electronic files exchanged between PBCWUD and the CONSULTANT will be in a format compatible with MS Office 2003 and Autocad.
- No permitting costs are included in the Scope of Work.

COMPENSATION

The CONSULTANT shall provide assistance to the County in accordance with the attached budget, for a lump sum amount of \$230,067. 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

**Authorization No. 10
Water Treatment Plant 3 New Production Wells
Project Budget**

LABOR CATEGORY	RAW HOURLY RATE							TOTAL HOURS	LABOR @ 3.0 MULT
		1	2	3	4	5	9		
Chief Professional	60.00	36	24	50	4	20	24	158	\$28,440.00
Chief Professional	56.00	24	40	40	8	22	44	178	\$29,904.00
Supervising Professional	49.00	8	0	8	16	0	0	32	\$4,704.00
Financial Administrator	39.00	0	0	0	0	0	8	8	\$936.00
Senior Professional	34.00	54	150	40	8	52	0	304	\$31,008.00
Drafter	22.00	8	0	100	0	8	0	116	\$7,656.00
Project Coordinator	20.00	5	36	56	4	0	56	157	\$9,420.00
Office Support Services	19.00	6	32	40	4	32	34	148	\$8,436.00
TOTAL LABOR HOURS		141	282	334	44	134	166	1,101	
TOTAL LABOR DOLLARS									\$120,504.00
SUBCONTRACTORS									
Barnes Ferland Associates Inc.	\$27,515								\$27,515
Royal Consulting Services Inc.		\$6,500							\$6,500
Hillers Electrical Engineering	\$4,500		\$24,000	\$2,000	\$2,000				\$32,500
Dennis Leavy Surveying	\$19,060								\$19,060
Centerline Drilling	\$12,620								\$12,620
SUBTOTAL SUBCONTRACTORS									\$98,195
SUBCONTRACTOR MARKUP (10%)									\$9,820
TOTAL SUBCONTRACTORS									\$108,015
EXPENSES									
Travel							\$200.00		\$200
Copies, Production, Postage		\$598.00	\$150.00	\$400.00	\$0.00	\$200.00			\$1,348
TOTAL EXPENSES									\$1,548
TOTAL FEE FOR AUTHORIZATION NO. 10									\$230,067

EXHIBIT B

RAW HOURLY RATE TABLE FY 2005

Level	Staff	Rate Range \$
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
Water Treatment Plant 3 New Production Wells**

SCHEDULE

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

<u>Engineering Services</u>	<u>Duration in Days</u>	<u>Completion Date From Notice-to-Proceed</u>
Kick-off Meeting	1	May 25, 2007
Draft Preliminary Design Completed	90	August 17, 2007
Review Meeting	1	August 31, 2007
60% Design Completed	30	October 12, 2007
90% Design Completed	30	November 9, 2007
Bid Documents Prepared	21	November 30, 2007
Opinion of Probable Cost	21	November 30, 2007
Bid	40	January 9, 2008
Award Recommendation	30	January 16, 2008

* Based upon an expected Notice to Proceed date of May 15, 2007.

ATTACHMENT C

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS

PROJECT NAME: Wellfield Capacity Enhancements

NAME OF PRIME BIDDER: Brown and Caldwell

CONTACT PERSON: Helen V. Madeksho-Hickman

BID OPENING DATE: _____

PROJECT NUMBER: WUD 07-022

ADDRESS: 1800 S Australian Avenue, Suite 202

PHONE NO. 561-684-3456 FAX NO. 561-684-9902

DEPARTMENT Water Utilities

PLEASE IDENTIFY ALL APPLICABLE CATEGORIES

Name, Address and Telephone Number of Minority Contractor	(Check one or both Categories)		Dollar Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
Barnes Ferland and Associates Inc 3655 Maguire Boulevard, Suite 150 Orlando, Florida 32803	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$27,515.00	\$	\$	\$	\$
Centerline Drilling Inc 1696 Old Okeechobee Road, Suite 3-C West Palm Beach, Florida 33409	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$	\$	\$12,620.00	\$
Dennis J Leavy & Associates Inc. 460 Busness Park Way, Suite D, Royal Palm Beach , FL 33411	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$	\$	\$	\$19,060.00	\$
Hillers Electrical Engineering 23257 State Road 7, Suite 100 Boca Raton, FL 33428	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$	\$32,500.00	\$	\$	\$
Royal Consulting Services 211 West Warren Avenue Longwood, FL 32750	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$	\$	\$6,500.00	\$	\$
PRIME CONTRACTOR TO COMPLETE:	TOTAL		\$27,515.00	\$32,500.00	\$6,500.00	\$31,680.00	\$ -

BID PRICE: \$ 230,067.00

Total Value of SBE Participation: \$98,195.00

- NOTE:
- 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.
 - 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.
 - M/WBE information is being collected for tracking purposes only.

ATTACHMENT C

SCHEDULE #2

PROJECT NO. WUD 07-118

LIAISON: _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS SUBCONSULTANT

TO: BROWN & 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

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

Certification date 1-4-05

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: \$ 12,620.00
(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.

Centerline Drilling Inc.
(Name of SBE Consultant)

Date: 4-9-07

By: [Signature]
Signature of Small Business Contractor

ATTACHMENT C

SCHEDULE #2

PROJECT NO. WUD 07-118

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 February 01, 2007

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: \$ \$ 32,500
(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: 4/12/07

By: P. Hiller
Signature of Small Business Contractor

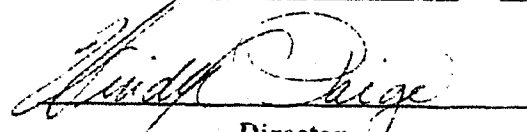
*Florida Statewide
&
Inter-Local Certification*



Florida Department of Management Services
Office of Supplier Diversity

Hillers Electrical Engineering, Inc.

is certified as a Minority Business Enterprise
under the provisions of Chapter 287, Florida Statutes and Inter-Local Agreement.
for a one year period from February 1, 2007 to February 1, 2008


Director

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 : April 10, 2007

By: Brian L Roy
Signature of Small Business Contractor

ATTACHMENT C

SCHEDULE #2

PROJECT NO. WUD 07-118

LIAISON: _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS SUBCONSULTANT

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

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

_____ an individual
_____ a partnership

_____ X a corporation
_____ 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:): Hydrogeological and engineering services for Water Treatment Plant #3 Wellfield

at the following price: \$ 27,515.00

(Amount must match subcontractor's quote)

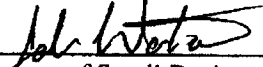
You have projected the following described work, and the undersigned is projecting completion of such work as follows:

<u>Items</u>	<u>Projected Commencement Date</u>	<u>Projected Completion Date</u>
Environmental Audits	May 2007	August 2007
Pipeline Routing and Modeling	May 2007	August 2007
Design - Well Pump and Well	May 2007	August 2007

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: 4/11/07

By: 
Signature of Small Business Contractor



June 20, 2005

Office of
Small Business Assistance
50 South Military Trail, Suite 209
West Palm Beach, FL 33415
(561) 616-6840
FAX: (561) 616-6850
www.pbcgov.com/osba

Barnes, Ferland and Associates, Inc.
1601 Belvedere Rd Ste 400-E
West Palm Beach, FL 33406

Dear Patrick Barnes:

The Palm Beach County Office of Small Business Assistance has completed its review of the documents you submitted for certification and is pleased to announce that your firm has been certified as a Small/Minority Business Enterprise (S/MBE) for three (3) years. Enclosed is your certificate.

Your firm shall be subject to the provisions of the Palm Beach County Purchasing Ordinance and all State and Federal laws relating to the transaction of business.

This certification entitles you to participate in contracting opportunities when the products and services offered by your firm are being considered for bid. As an additional service to your firm, you will be included in the Palm Beach County Directory of certified SBE firms. If you wish to have your firm's services changed, please contact our office at (561) 616-6840.

Your company's certification is subject to periodic review to verify your continued eligibility. Any changes you report to the Purchasing Department must also be reported to OSBA. Your company name and vendor code must be the same in both departments. Failure to report changes in the status of your firm may result in your firm being decertified. Remember, whenever you respond to a County bid you must do so under the name of Barnes, Ferland and Associates, Inc. with vendor code VC0000013408.

Sincerely,

Patricia Wilhelm,
Certification Specialist.

**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

"An Equal Opportunity
Affirmative Action Employer"

printed on recycled paper

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

CERTIFIES THAT

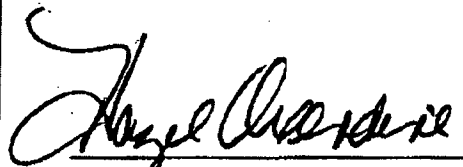
BARNES, FERLAND & ASSOCIATES, INC.

VENDOR #VC000013408

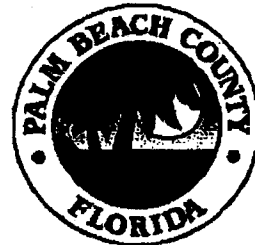
is a Small/Minority Business Enterprise as prescribed by Section 2-80.21 - 2-80.34 of the Palm Beach County Code for a three year period from June 20, 2005 to June 19, 2008.

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

**Environmental Consulting Services
Geologist**



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
Deputy County Administration
Verdenia C. Baker

State of Florida



Department of State

I certify from the records of this office that BARNES, FERLAND AND ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on April 5, 1994.

The document number of this corporation is P94000026169.

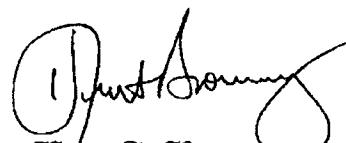
I further certify that said corporation has paid all fees due this office through December 31, 2007, that its most recent annual report/uniform business report was filed on February 12, 2007, and its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capitol, this the
Twelfth day of February, 2007



CR2EO22 (01-07)


Kurt S. Browning
Secretary of State



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

New Production Wells
at Water Treatment
Plant No. 3

Legend

▲ Water Treatment Plant



NOT TO SCALE

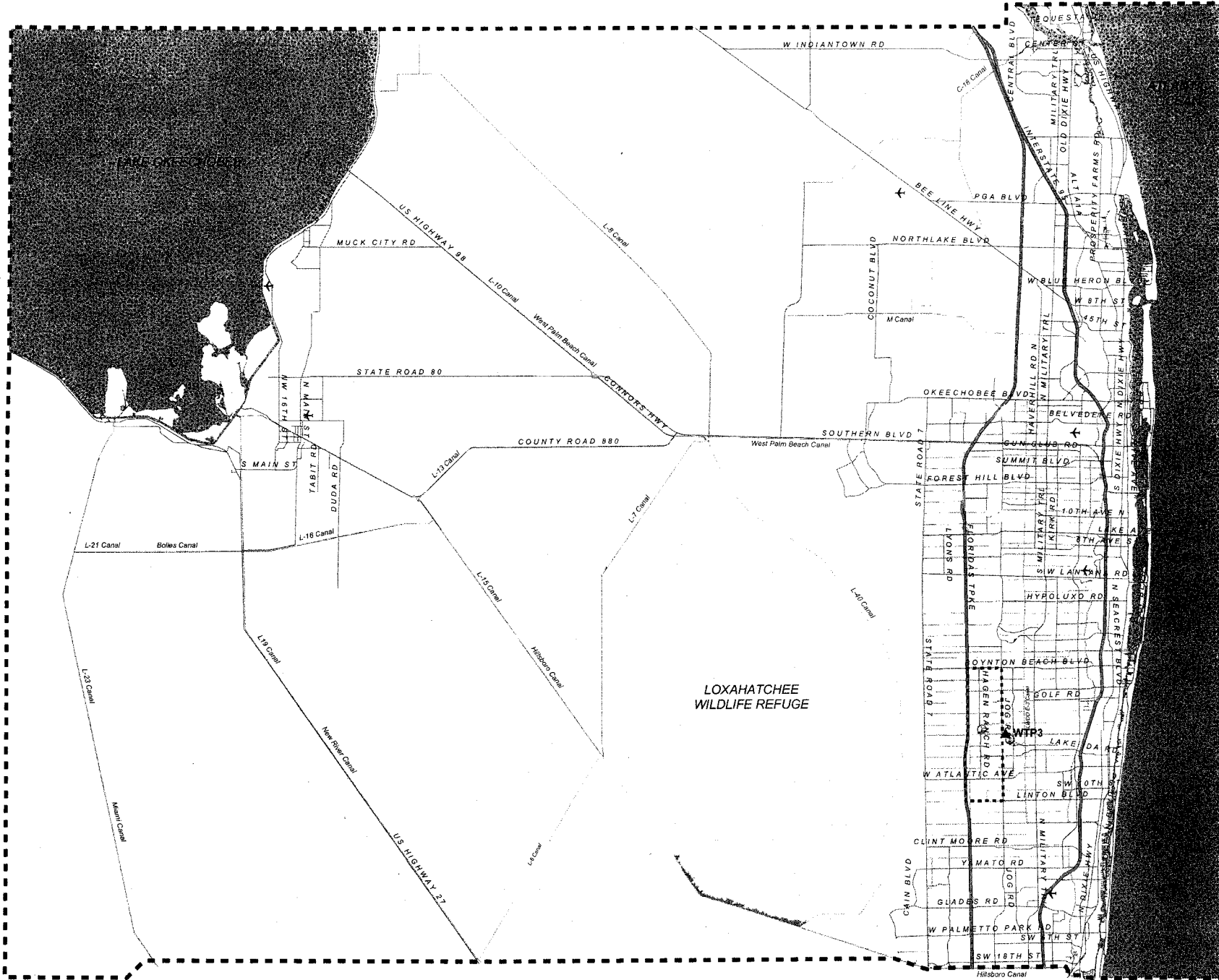


EXHIBIT - B

AUTHORIZATION STATUS REPORT

(CONTINUED)

SUMMARY AND STATUS OF
REQUESTS FOR AUTHORIZATION

Auth.No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	BC Project Number
1	Energy Efficiency Evaluation	approved	\$197,924.00	09/27/05	05-186	129383
2	Lake Region WTP Well Construction Observation	approved	\$329,800.00	10/18/05	03-169	129372
3	Aquifer Recharge and Lake Augmentation for Riverbridge	approved	\$99,970.00	12/06/05	05-072	129652
4	WTP 3 and 9 Well Corrosion Study	approved	\$49,996.00	12/21/05	06-018	129454
5	Wellfield Emergency Power Assessment - Ph I	approved	\$44,766.00	01/18/06	06-054	129722
6	Asset Management - Ph I	approved	\$49,944.00	01/18/06	06-049	129709
6S1	Asset Management Program Assistance - Phase 1A	approved	\$99,162.00	07/26/06	06-049	130484
6S2	Asset Management Program Assistance - Phase 1B	approved	\$98,875.00	09/29/06	06-049	130484
7	Effluent Capacity Improvements SRWRF	approved	\$199,866.00	12/05/06	07-002	131575
8	Wellfield Capacity Enhancements	approved	\$209,168.00	02/06/07	07-022	131618
5S1	Electrical Generator Feasibility	approved	\$56,528.00	01/30/07	06-054	132269
9	WTP3 Pilot Study	approved	\$62,660.00	02/07/07	06-161	132274
10	WTP3 New Wells	proposal	\$230,067.00		07-118	
Total			\$1,728,726.00			

EXHIBIT - C

AUTHORIZATION STATUS REPORT

SUMMARY OF SMALL BUSINESS TRACKING SYSTEM

	Total	SBE
Current Proposal		
Value of Authorization No. 10	\$230,067	
Value of SBE Letters of Intent	\$98,195	\$0
Actual Percentage	42.68%	
Signed Authorizations		
Total Value of Authorizations	\$1,498,659	
Total Value of SBE Signed Subcontracts	\$385,930	\$385,930
Actual Percentage	25.75%	25.75%
Signed Authorizations Plus Current Proposal		
Total Value of Authorizations	\$ 1,728,726.00	
Total Value of Subcontracts & Letters of Intent	\$484,125	\$ 385,930.00
Actual Percentage	28.00%	22.32%
Goal	26.00%	