

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

Meeting Date: September 12, 2017

Consent [X]
Public Hearing []

Regular []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 01 with Kimley-Horn and Associates, Inc., (R2017-0903) for Water Treatment Plant 11 (WTP11) Production Well 11 Well and Well Head Project in the amount of \$138,402.12.

Summary: On July 11, 2017, the Board of County Commissioners (BCC) approved the Contract for Consulting/Professional Services Water Treatment and Water Resources Engineering Services (Contract) with Kimley-Horn and Associates, Inc., (R2017-0903) to obtain engineering/professional services for utility related projects. CSA No. 1 will provide for construction services related to the Water Treatment Plant 11 Production Well 11 (PW-11) Well and Wellhead Project. PW-11 will provide an additional 900 gallons per minute (gpm) of raw water to WTP 11 and result in improved wellfield management practices. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance is 15% overall. The Contract with Kimley-Horn and Associates, Inc., provides for SBE participation of 28% overall and Minority/Women Business Enterprise (M/WBE) participation of 7%. CSA No. 1 includes an overall SBE and M/WBE participation of 68.47% and 16.04% respectively. The cumulative SBE participation, including CSA No. 1 is 68.47% overall. Kimley-Horn and Associates, Inc., is a Palm Beach County company. The Project is in the FY17 Capital Improvement Plan adopted by the BCC. (WUD Project No. 15-058) District 6 (MJ)

Background and Justification: On August 2, 2015, the Contract Review Committee approved CSA No. 7 for Kimley-Horn and Associates, Inc., in the amount of \$90,163.08 to provide professional engineering, surveying and hydrogeological consulting services for the design of PW-11 a new Floridan Aquifer raw water production well supplying WTP11. PW-11 will provide an additional 900 gpm of raw water to WTP11 and assist with improved wellfield management practices allowing plant operations staff to rest production wells for longer periods of time and also balance raw water quality being treated by WTP11. CSA No. 1 provides for professional engineering and hydrogeological services during construction of the Water Treatment Plant 11 Production Well 11 Well and Wellhead Project. The Project includes the drilling and construction of the raw water production well as well as the installation of a submersible well pump and motor with variable frequency drive (VFD), column pipe, wellhead facilities, electrical supply, instrumentation and above ground site facilities such as lighting and fencing.

Attachments:

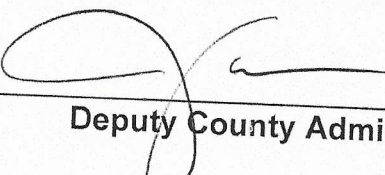
1. Four (4) Original Consultant Services Authorization No. 1
2. Location Map

Recommended By:


Department Director

8-16-17
Date

Approved By:


Deputy County Administrator

9/11/17
Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2017	2018	2019	2020	2021
Capital Expenditures	<u>\$138,402</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>\$138,402</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 W026 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 (1) time capital expenditure from user fees with balances brought forward.

C. Department Fiscal Review: _____

III. REVIEW COMMENTS

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

Jp 1/1/12 C 8/18/17
 OFMB 25 8/18 8/18

Dr. J. Jacobae
Contract Development and Control
8/31/17 

B. Legal Sufficiency:


Assistant County Attorney 8/31/17

C. Other Department Review:

Department Director

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

CONSULTANT SERVICES AUTHORIZATION NO. 1

Project Title: **Water Treatment Plant 11 Production Well 11
Well and Wellhead Construction Phase Services**

Project No. WUD 15-058

Budget Line Item No. 4011-721-W026-6541

District No.: 6

THIS AUTHORIZATION No. 1 to the Contract for Consulting/Professional Services Water Treatment and Water Resources Engineering dated July 11, 2017 (Resolution R2017-0903) 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 28% SBE participation and 7% M/WBE participation. This Consultant Services Authorization includes 68.47% SBE participation and 16.04% M/WBE participation. The cumulative SBE and M/WBE participation, including this authorization is 68.47% and 16.04% participation, respectively. Additional authorization will be utilized to meet or exceed the stated overall participation goal.

1. **CONSULTANT:** Kimley-Horn and Associates, Inc
2. **ADDRESS:** 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411
3. **Description of Services to be provided by the Consultant:**

 Water Treatment Plant 11 Production Well 11 Well and Wellhead Construction Phase Services

 See ATTACHMENT A
4. **Services completed by the Consultant to date (Summary and Status of Authorizations):**

 See ATTACHMENT E.
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 \$138,402.12
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.

Consultant Services Authorization No. 1

Project No. WUD 15-058

Project Title: **Water Treatment Plant 11 Production Well 11
Well and Wellhead Construction Phase Services**

8. SBE participation is included in Attachment D under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each subconsultant (Letter of Intent to perform as an SBE).
9. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 6/4/2014 remain in full force and effect.

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

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Sharon R. Bock, Clerk & Comptroller,
Palm Beach County

Palm Beach County,
Board of County Commissioners

ATTEST:

Signed: _____

Signed: _____

Paulette Burdick, Mayor

JCS


Typed Name: _____
Deputy Clerk

Date


Approved as to Form and Legal
Sufficiency

Signed: _____

Typed Name: _____
County Attorney

ATTEST:

(Witness Signature)

MARK D. MILLER, V.P.
(Name and Title)

CONSULTANT:

(Signature)

Kevin Schanen, V.P.
(Name and Title)

7/5/17
Date

LIST OF ATTACHMENTS

Project No. WUD 15-058

Consultant Services Authorization No. 1

**Project Title: Water Treatment Plant 11 Production Well 11
Well and Wellhead Construction Phase Services**

ATTACHMENT - A	Scope of Work
ATTACHMENT - B	Budget Summary
ATTACHMENT - C	Project Schedule
ATTACHMENT - D	SBE Schedule 1, 2, 3a and 4
ATTACHMENT - E	Authorization Status Report - Summary and Status of Authorizations
ATTACHMENT - F	Authorization Status Report – Summary of SBE Tracking
ATTACHMENT - G	Location Map

ATTACHMENT A
CONSULTANT SERVICES AUTHORIZATION NO. 1
PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK
FOR

Water Treatment Plant 11 Production Well 11
Well and Wellhead Construction Phase Services

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services - Palm Beach County Utilities Department Project No. WUD 17-007 (CONTRACT) with Kimley-Horn and Associates, Inc. (CONSULTANT) to provide engineering services for various general activities on (Reference Document R2017-0903). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing services related to the Water Plant 11 Well PW-11 well and wellhead construction phase services.

BACKGROUND

The following scope of services consists of construction phase services for Water Treatment Plant 11 proposed Production Well 11 (PW-11). The design and permitting phases have been completed and the project is currently being bid.

SCOPE OF SERVICES

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

Construction Phase Services

The Consultant's site visits will be for the purpose of endeavoring to provide the Owner a greater degree of confidence that the completed work of its contractors will conform to the construction documents. The Consultant neither guarantees the performance of contractors, nor assumes responsibility for any contractor's failure to perform its work in accordance with the contract documents. Work that the Consultant believes does not comply with the contract documents will be brought to the attention Palm Beach County Water Utilities and the contractor. The Consultant shall have no responsibility for any contractor's means, methods, techniques, equipment choice and usage, sequence, schedule, safety programs, or safety practices, nor shall the Consultant have any authority or responsibility to stop or direct the work of any contractor.

Consultant will provide construction phase services including hydrogeological services, performance testing, operational testing and startup of well, electrical and I&C construction phase services and preparation of a well completion report for well PW-11 Floridan Aquifer well. Consultant will utilize subconsultant services of JLA Geosciences, Inc. (JLA) for the hydrogeologic consulting services, and Hillers Electrical Engineering, Inc. (HEE) for electrical consulting services and SCADA programming of well.

Rev. 5-27-15

Consultant will attend on-site kick-off (pre-construction), progress meetings and make ten (10) onsite site visits to review construction progress and prepare site visit reports as well as attend construction coordination meetings as part of the site visits; provide coordination during construction, review geophysical and video logs of well PW-11, review contractor's submittals, provide onsite hydrogeologic observation during critical elements of rehabilitation, well logging, acid treatment; post rehabilitation development testing and specific capacity testing; and witness post- rehabilitation videos. It is assumed that the construction will be substantially complete in ten (10) months and be at final completion twelve (12) months.

Consultant will provide hydrogeological support and observation services during Upper Floridan Aquifer well PW-11 construction including contractor mobilization, surface casing installation, pilot hole drilling, geophysical logging, casing installation, grouting casing in place for each lift of cement, completion interval drilling and associated testing, preliminary well development, acid treatment, pump development and testing. Consultant will also provide well performance testing, including water level measurements, specific capacity analysis, and basic water quality testing (conductivity, chlorides, silt density indices~SDI's and sand testing). Consultant will provide up to 400 hours of on-site hydrogeological services (JLA).

Consultant will review drilling, geologic and geophysical data and provide recommendations for casing setting depths and completion intervals. Consultant will review pump test results and provide recommendations for permanent pump setting depth and recommended in service pumping rate.

Consultant will review water quality testing results, which include clearance water quality in accordance with PBCHD regulations and additional water quality for membrane projections. Water sampling will be provided by the general contractor and/or well driller.

Consultant will provide contract document interpretation, shop drawing and pay request review and change order requests. Consultant will answer requests for additional information and issue clarifications. These construction phase services assume the well location, and formation water disposal determined above will not change during construction. Shop drawing submittal will be reviewed for conformance with the intent of the contract documents. Shop drawing will be submitted directly to the Consultant. The Consultant will review the submittal and return copies to the contractor and Palm Beach County Water Utilities.

Consultant will prepare a well completion report for well PW-11, including a summary of the lithologic logs, field logs, hydrologic and water quality data, and preparation of figures, data, lithologic logs, and appropriate attachments. The well completion report and data will be used for well clearance when the well is requested to be placed into service. Up to four (4) final copies of the report will be furnished to Owner.

It is anticipated that the construction phase from notice to proceed to substantial completion will take approximately ten (10) months, with well construction activities being approximately seven (7) months. Final completion will take an additional two (2) months after substantial completion, approximately twelve (12) months after Notice to Proceed.

The installation of the wellhead piping, valves, instrumentation, well pump, column piping, and electrical service for operation of the well PW-11 is assumed to be included under the drilling and rehabilitation phase. Consultant will provide up to ten (10) site visits to review the progress of this work, and attend pump and equipment startup and operational testing.

Consultant will attend up to eight (8) onsite progress meetings to discuss progress, review construction related issues, and provide coordination where needed, as well as attend one (1) pre-construction meeting.

Rev. 5-27-15

Consultant, under HEE subconsultant, will modify the water plant PLC to include well PW-11 operation and control

Consultant will prepare and submit a FDEP certification of construction completion and request for clearance to place PW-11 into operation (FDEP Form 62-555.900(9)). Record drawing information will be provided and included with the certification package.

Consultant will prepare record drawings based on information provided by the contractor and information collected in the field during site visits. The effort in preparing record drawings is based on the construction being within general conformance of the bid documents without significant changes to the design documents. Consultant will furnish four (4) copies of 24x36 drawings and electronic form in pdf and CADD format to PBCWUD.

If the construction of the project is postponed or cancelled at the two hold-points defined in the construction contract, Consultant will coordinate with PBCWUD termination of this CSA and remaining compensation required to close the project out to PBCWUD satisfaction.

ITEMS PROVIDED BY OWNER

1. Final bid and contractor contract documents

DELIVERABLES

1. Record drawings – 6 copies 24x36 format, CADD format

ITEMS NOT INCLUDED

1. Well matrix modifications or water plant programming beyond listed herein.

COMPENSATION

The services included in this CSA supplement are based on a lump sum value of \$138,402.12.

SBE PARTICIPATION

1. SCHEDULE 3(A) – Professional Services Activity Report

This form shall be submitted by the prime contractor with each payment application when SBE and/or M/WBE sub-consultants are utilized in the performance of the contract. This form shall contain the names of all SBE and M/WBE sub-consultants, specify the sub-consultants dollar amount for each sub-consultants and show amount drawn and payments to date issued to sub-consultants.

2. SCHEDULE 4 – SBE-M/WBE Payment Certification

A schedule 4 for each SBE and/or M/WBE sub-consultant shall be completed and signed by the proposed SBE and/or M/WBE after receipt of payment from the prime. When applicable, the prime shall submit this form with each application submitted to the county for payment to document payment issued to a sub-consultant in the performance of the contract.

SBE participation is included in the **ATTACHMENT F** under this authorization. The attached Schedule 1 defines the SBE applied to this CSA/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intent to Perform as an SBE).

ATTACHMENT - B									
BUDGET SUMMARY									
		Labor Classification and Hourly Rate							
		Principal	Senior	Project		Analyst/			Sub
Task			Professional	Manager	Professional	Intern	Support	Total	Consultant
Number	Task Description		/Project Mgr			Engineer	Staff	Labor	Services
	Services During Construction								
	Project Management		6		12		4	3,279.00	
	Meetings (8)		12		32		6	7,470.00	
	Shop Draw ings		12		24	4	4	6,630.00	
	Coordination/Observation (10 site visits)		6		10	40		6,753.00	
	Pressure Testing				2	6	2	1,050.00	
	Progress Payment Review		6		16			3,483.00	
	Record draw ings		2		16	24		5,049.00	
	Final FDEP Release		4		8	8	6	3,282.00	
	Punchlist		6		8	12	6	4,131.00	
	Startup		4		6	8		2,508.00	
	SCADA Programing (HEE)							0.00	\$3,828.32
	HEE Electrical							0.00	\$18,374.80
	JLA Hydrogeology							0.00	\$72,564.00
	Subtotal Task 2	0	58	0	134	102	28	43,635.00	\$94,767.12
	Labor Subtotal Hours	0	58	0	134	102	28		322
	Labor Raw Costs	\$78.00	\$73.50	\$53.00	\$45.00	\$34.00	\$28.00		
	Labor Multiplier	3.0	3.0	3.0	3.0	3.0	3.0		
	Labor SubTotal	234.00	220.50	159.00	135.00	102.00	84.00		
	Labor Total	\$0.00	\$12,789.00	\$0.00	\$18,090.00	\$10,404.00	\$2,352.00	43,635.00	
								43,635.00	
	Subconsultant Labor Total	\$ -							\$94,767.12
	Subconsultant Multiplier								1.0
	Subcontract Total	\$ -							\$94,767.12
	Out of Pocket Expenses (mileage, copies, etc)								\$0
	Project Total	\$ -							\$138,402.12

ATTACHMENT - C

PROJECT 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>Completion Date</u> <u>From Notice to Proceed</u>
Record Drawings & Permit Close-out	10 months
Well Completion Report	10 months
Construction Phase Services (RFI's, shop drawing review, meetings,site visits, punchlist and SCADA programming)	12 months after Well Contractor NTP

ATTACHMENT D
SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE CONSULTANT/SUBCONSULTANTS

PROJECT NAME: Water Treatment Plant 11 Production Well 11 Well & Wellhead Construction Phase Services PROJECT NO. WUD 15-058
NAME OF PRIME CONSULTANT: Kimley-Horn and Associates, Inc. ADDRESS: 561-845-0665 FAX NO. : 561-863-6392
DESCRIPTION OF SERVICES: Construction Phase Services

PLEASE LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT.
PLEASE ALSO LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUB-CONSULTANTS ON THIS
PROJECT. IDENTIFY ALL APPLICABLE CATEGORIES OF CONSULTANT/SUBCONSULTANTS

(Check one or both Categories)							
	<u>M/WBE</u>	<u>SBE</u>	Consultant/Sub-consultant Dollar Amount and Percentage of Services				
Name, Address and Phone Number	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. JLA Geosciences, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$72,564.00 52.43%	_____
2. Hillers Electrical Engineering, Inc.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____X_____	_____	\$22,203.12 16.04%	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
(Please use additional sheets if necessary)		Total	_____	_____	_____	\$94,767.12	_____
Total SBE Participation 68.47%, M/WBE Participation: 16.04%							

NOTE: 1. The percentages listed on this form must be supported by the sub-consultant included on Schedule 2 in order to be counted toward goal attainment.
2. Firms may be certified by Palm Beach County as an SBE and/or M/WBE

OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: WUD 15-058 PROJECT NAME: Water Treatment Plant 11 Production Well 11 Well Construction Phase Services

TO: Kimley-Horn and Associates, Inc.
(Name of Prime Consultant)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise X Minority Business Enterprise

Black Hispanic Women Caucasian X Other (Please Specify)

Date of Palm Beach County Certification: April 4, 2014

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

1. Well PW-11 Hydrogeolical and Construcion Phase Services

Total SBE-M/WBE Participation **52.43%**


If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage \$72,564.00 JLA Geosciences, Inc.
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

JLA Geosciences, Inc.
Print name of SBE-M/WBE Sub-consultant

By: 
(Signature)

Jim Andersen, President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 6/30/17

OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: WUD 15-058 PROJECT NAME: Well Treatment Plant 11 Production Well 11 Construction Phase Services

TO: Kimley-Horn and Associates, Inc.
(Name of Prime Consultant)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise X Minority Business Enterprise X

Black Hispanic X Women Caucasian Other (Please Specify)

Date of Palm Beach County Certification: October 16, 2018

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Electrical Engineering Construction Phase Services and PLC programming

Total SBE-M/WBE Participation 16.04%,

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage \$22,203.12

Hillers Electrical Engineering, Inc.
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Hillers Electrical Engineering, Inc.
Print name of SBE-M/WBE Sub-consultant

By: P. Hillers
(Signature)

Paul Hillers, P.E. President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 7/5/17

OSBA Schedule 3(A)
PROFESSIONAL SERVICES ACTIVITY REPORT – N/A

Project No.: WUD 15-058
Task Authorization No: 1

REPORTING PERIOD: _____

Prime Consultant Address: Kimley-Horn and Associates, Inc.
City/State: West Palm Beach, FL Zip 33411
Contact Person: Mark D. Miller Phone #561-845-0665
Contract Name: WATER PLANT & WATER RESOURCES ENGINEERING CONSULTING SERVICES
Contract Term: _____ Contract Amount: \$138,402.12
Total Percentage performed by the Prime's Firm: 31.53% SBE-M/WBE Firm: 68.47%
Service Type: Architectural _____ Engineering X Surveying _____
Other (Specify) _____
Have Sub-Consultants completed work with its own workforce for this application?
Yes X No _____

Note: If yes, complete below:

SUB-CONSULTANTS

1. Firms Name: JLA Geosciences, Inc.
Address/Tel: 1931 Commerce Lane, Suite 3, Jupiter, FL 33458 (561)746-0228
Estimated Start Date: _____ Contract Amount: \$72,564.00
SCOPE OF WORK: Raw Water Quality Evaluation
Percentage/Hrs Completed: _____ Amount Paid To Date _____
2. Firm's Name: Hillers Electrical Engineering, Inc.
Address//Tel: 23257 State Rt 7, Suite 100, Boca Raton, FL 33428 (561) 451-9165
Estimated Start Date: _____ Contract Amount: \$22,203.12
SCOPE OF WORK: _____
Percentage/Hrs Completed: _____ Amount Paid To Date _____
3. Firm's Name: _____
Address/Tel: _____
Estimated Start Date: _____ Contract Amount _____
SCOPE OF WORK: _____
Percentage/Hrs Completed: _____ Amount Paid To Date _____

I certify that the above is true to the best of my knowledge

Mark D. Miller

Vice President

Signature/Title

ATTACHMENT - E

AUTHORIZATION STATUS REPORT

SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	SBE Total Amount	SBE Participation %	Approved By	Date Approved	WUD No. Assigned	Consultant's Project No.
1	WTP 11 PW-11 Well Construction Phase Svcs	Pending	\$138,402.12	\$94,767.12	68.47%				
Total			\$138,402.12	\$94,767.12	68.47%				

ATTACHMENT - F

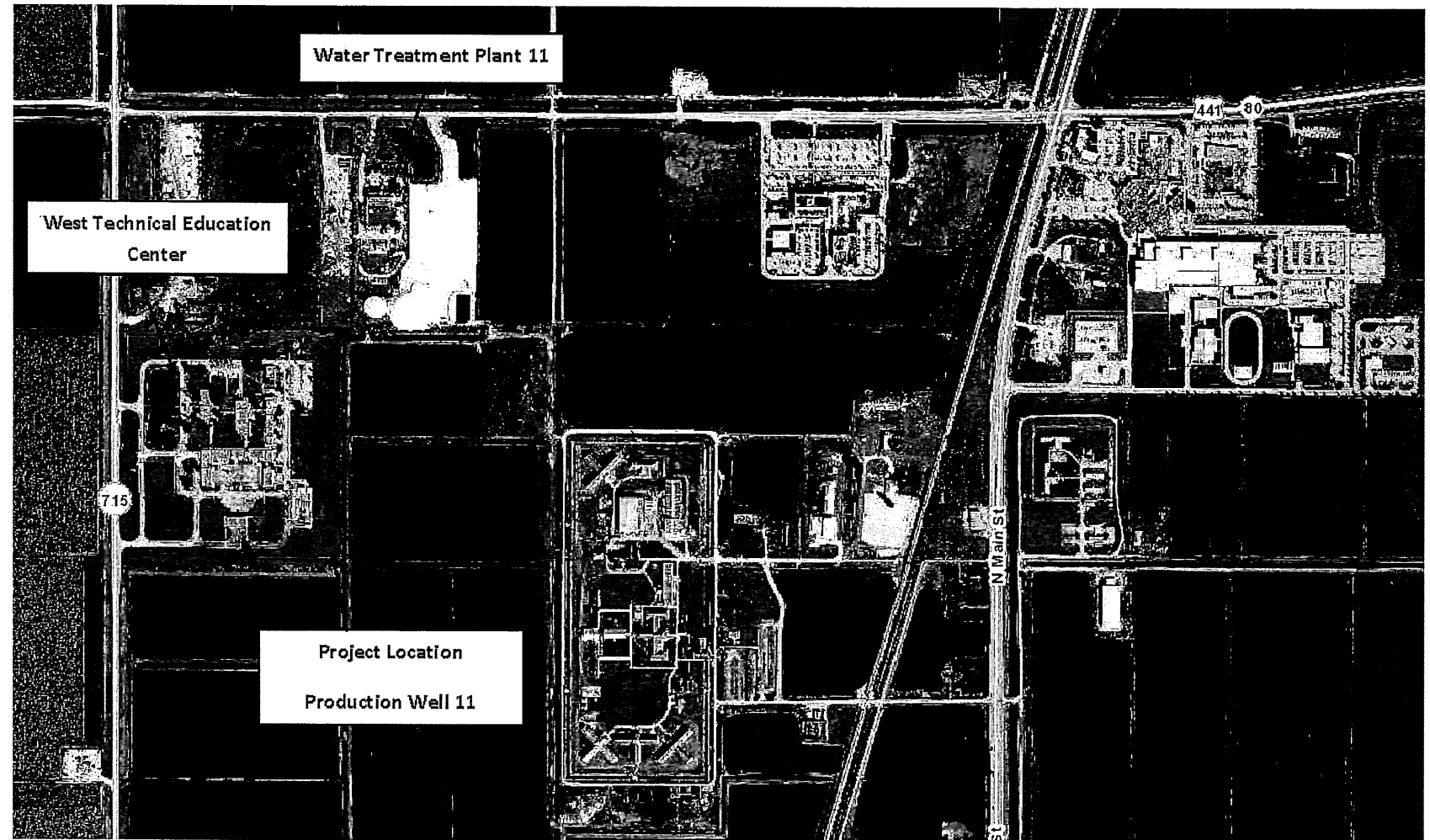
AUTHORIZATION STATUS REPORT

SUMMARY OF
SBE / MINORITY BUSINESS TRACKING

	Total	SBE
Current Proposal		
Value of Authorization No. 1	\$138,402.12	
Value of SBE - M/WBE Letters of Intent	\$94,767.12	\$94,767.12
Actual Percentage	68.47%	
Signed Authorizations		
Total Value of Authorizations	\$0.00	
Total Value of SBE - M/WBE Signed Subcontracts	\$0.00	\$0.00
Actual Percentage	0.00%	
Signed Authorizations Plus Current Proposal		
Total Value of Authorizations	\$138,402.12	
Total Value of Subcontracts & Letters of Intent	\$94,767.12	\$94,767.12
Actual Percentage	68.47%	68.47%
GOAL	28.00%	

ATTACHMENT - G

LOCATION MAP



WUD15-058 Production Well 11 Well and Wellhead Construction Phase Services

HYDROGEOLOGIC CONSULTANTS

HYDROGEOLOGIC CONSULTANTS

1907 Commerce Lane, Suite 104
Jupiter, Florida 33458
(561) 746-0228

June 28, 2017 (Revised)

Electronic Submission

Mark Miller, P.E.
Kimley-Horn & Associates, Inc.
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411

RE: *Proposal for Hydrogeologic Consulting Services for Palm Beach County Water Utilities Dept. Water Plant #11 UFA Well PW-11 Construction Observation, Testing and Reporting Services*

Dear Mark:

JLA Geosciences, Inc., is pleased to have the opportunity to provide Hydrogeologic Services to Kimley-Horn and Associates, Inc. (KHA) and its client, Palm Beach County Water Utility Department (PBCWUD) for the above referenced project. Our proposed scope of work will include construction and testing phase services for one (1) Upper Floridan Aquifer supply well indentified as PW-11, located near the Lake Region Water Treatment Plant in Belle Glade, Florida. Note our proposal from last year has been revised to reduce fee by having the project managed by a PG/Project Manager instead of a Principal (me) and daily summary logs preparation were removed from the scope of work. Instead, field notes will be scanned and copied for the record.

The following tasks identify our proposed scope of work with our associated costs for your consideration.

- 1.0 **Contractor Coordination and Project Management** – Attend monthly construction progress meetings at PBCWUD CROC during the estimated 6 month project and be the principal liaison to KHA and the County for well construction related work; provide project planning and coordination, assist with pre-construction activities, meetings with the well contractor, client, engineering project management team and owner’s representatives, review shop drawings for all down hole well related items not including surface piping, mechanical, electrical and instrumentation.

Professional and support services

\$ 8,280.00

- 2.0 **Floridan Aquifer Water Supply Well Construction Phase Services PW-11** – Provide hydrogeologic observation services, hydrogeologic direction and well design/construction expertise during construction of Floridan aquifer production well PW-9. JLA hydrogeologist staff will be present on site during critical phases of well construction including: pilot hole drilling, geophysical logging, casing installation and cement grouting, completion interval drilling, flow and water quality testing, well development, step drawdown testing, and well video observation. Observe and direct well acid treatment if required. Recommend constructed depths of bore holes, casings and open intervals. Direct step drawdown testing, perform water level measurements, specific capacity analysis and water quality testing. This task will include

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PBCWUD WTP11 Well PW-11 Construction Services Proposal**June 28, 2017 (revised)****Page 2 of 2**

providing geologist's lithologic logs; well construction daily field logs; water quality field data summaries; and copies of the geophysical logs provided by the Contractor. This task will also include preparation of weekly summary reports, technical evaluation and review of data and work to support monthly progress meetings. Digital photos will be taken of significant activities during construction of the well. The proposed budget is based on an estimated 6-month construction schedule for the contractor to substantially complete well PW-11. The estimate of labor hours is based on the attached summary.

Professional and support services \$ 52,124.00

- 3.0 **Well Completion Report** - Prepare lithologic logs and complete geologic interpretations; review well construction field logs and compile summary; complete analysis of all hydrologic and water quality field data; geophysical log analysis, summarize pumping test methods and results. Prepare a well completion report for PW-9 and PW-10 including figures, data tables, geologic geophysical logs, pump test data and water quality data.

Professional and support services \$ 12,160.00

TOTAL PROPOSAL LUMP SUM PRICE \$ 72,564.00

This proposal was prepared based on the information provided to date and our understanding of the project. If you feel that we have omitted anything or have not clearly defined the anticipated scope of work, we will gladly review additional information, and modify the scope and associated costs accordingly.

We look forward to working with KHA and PBCWUD on this important project. Thanks for this opportunity and if you have any questions please don't hesitate to call me.

Sincerely,
JLA Geosciences, Inc.



James L. Andersen, P.G.
Principal Hydrogeologist

JLA:jl

Attachment: JLA Hydrogeo Svs Estimate PBCWUD PW-11 rev

Construction phase services for (1) 17.4-inch/14-inch diameter Floridan Aquifer Well										SHEET 1 OF 1	
CLIENT: Palm Beach County Water Utility Department/Kimley-Horn										FILE NO. 16-025	
ESTIMATOR: Jim Andersen, P.G., JLA Geosciences										DATE: 8/8/2016 6/28/2017 rev	
DESCRIPTION:											
Construction phase services for PBCWUD Upper Floridan Aquifer Production Well PW-11. Scope of work consists of construction observation, inspection and testing services for (1) 17.4-inch/14-inch diameter PVC cased well to a depth of approximately 1350 feet. Site is WTP-11 in Belle Glade FL.											
MAN HOURS/EXPENSES											
Principal	Prof Geologist /PM	Senior Hydro II	Senior Hydro I	Hydro II	Hydro I	Hydro Tech	Admin	Equipment Costs	Mileage	LINE TOTAL	TASK TOTAL
NO. TASK											
1.0 Well Drilling Contractor Coordination and Project Management											
Perform shop drawing review for all down hole well related items not including surface piping, mechanical, electrical and instrumentation.											
Progress Meetings, once monthly (6 months)											
Progress Meetings minutes documentation											
Project Management subtotal											
2.0 Lake Region Well PW-11 Construction Services											
Preliminary Site Visit, Mobilize Drilling Rig, Pit casing installation											
Drill borehole, caliper log, install and grout 30-inch surface casing											
Drill pilot hole to penetrate Floridan aquifer, geophysical logging											
Ream pilot borehole, caliper logging											
Install and grout 20-inch intermediate well casing											
Reverse air drill open hole section, water quality sampling, flow testing											
Log bore hole using geophysical suite, caliper, and flow test suite											
Ream pilot borehole, caliper logging, gravel backfill borehole											
Install and grout final 17.4-inch/14-inch diameter PVC well casing											
Casing alignment testing, removal of gravel backfill											
Jetting Development											
Acidization											
Development using test pump											
Step drawdown testing											
Post construction well video											
Technical Review and Evaluations											
Final site inspection											
Production well PW-9 subtotal											
4.0 Prepare Well Completion Report											
Prepare Summary Report for well PW-11 Construction and Testing											
Lithologic Log Prep, Data											
Data analysis											
Figures											
Production costs											
Production Well Completion Report subtotal											
TOTAL HOURS											
LABOR (\$/HOUR)											
TOTALS											

H E E

HILLERS ELECTRICAL ENGINEERING, INC.

June 29, 2017

Mark Miller, P.E.
Kimley-Horn
1920 Wekiva Way, Suite 200
West Palm Beach, FL 33411

Subject: Lake Region (WTP11) Well PW-11

Dear Mark:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide Kimley-Horn a revised proposal for the electrical and I&C construction services as well as the PLC programming services associated with the above referenced project. The scope of services is as follows:

Construction Services

- Attend pre-construction meeting
- Review electrical, well pump and I&C shop drawings
- Answer RFI's
- Issue clarifications and small design modifications
- Periodic site visits
- Prepare preliminary and final punch list
- Assist with start-up services
- Prepare "As-Built" drawings
- Perform the PLC programming services and coordination with the SCADA group

The following is a list of shop drawings we intend to review:

Electrical

- directional bore conduit
- raceways
- cables
- manhole and JB
- lighting
- breakers
- well motor
- VFD
- support devices
- concrete encased duct bank

I&C

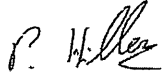
- control panel
- RTU
- instruments
- antenna & tower

Page 2
Mark Miller, P.E.

Our proposed electrical and I&C construction services as well as PLC programming services fee is \$ 22,203.12.

If you have any questions, please do not hesitate to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Hillers", with a stylized flourish at the end.

Paul Hillers

PBCWUD WTP11 Well 11 Construction Engineering Services								
HILLERS ELECTRICAL ENGINEERING, INC.								
Scope Fee Breakdown								
6/29/2017								
Rate	\$210.16	\$153.36	\$142.00	\$142.00	\$113.60	\$65.32		
	Project Manager	Professional Eng	Programmer	Lead Engineer	Construction Coord.	Secretarial	Total	TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	TASK COST
pre-con meeting	1	4					5	\$823.60
electrical & motor shop drawing review (11 sub	2	33					35	\$5,481.20
I&C shop drawing review (4 subm)	1	16					17	\$2,663.92
site visits (4 x)	1				16		17	\$2,027.76
meetings (1x)					4		4	\$454.40
RFI's electrical (2x)	1	6					7	\$1,130.32
RFI's I&C (1x)		3					3	\$460.08
minor change orders (1x)		1		2			3	\$437.36
punchlist final (1x)	1				6		7	\$891.76
start-up serv 2 persons (elec/I&C & program)	1		8		8		17	\$2,254.96
record drawings		4		8			12	\$1,749.44
programming 3 site visits **	2		24				26	\$3,828.32
Total Hours	9	63	32	10	34		148	
Total Labor Cost	\$1,891.44	\$9,661.68	\$4,544.00	\$1,420.00	\$3,862.40			\$22,203.12
** 1st visit to analyze, program well and modify well polling program, 2nd perform I/O checks, 3rd to troubleshoot								

ATTACHMENT 2
Location Map

