

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

Meeting Date: December 17, 2013                      Consent [X]                      Regular [ ]  
Public Hearing [ ]

Department: Water Utilities Department

I. EXECUTIVE BRIEF

**Motion and Title:** Staff recommends motion to approve: Change Order No. 2 for the Pahokee Dual Zone Monitoring Well Rehabilitation Project (R2013-0768) to the contract with the Layne Christensen Company in the amount of \$160,120.00 and providing a 70-day time extension.

**Summary:** On June 18 2013, the Palm Beach County Board of County Commissioners approved a Contract (R2013-0768) for the rehabilitation of the Western Region North Wastewater Treatment Plant (WRNWWTP) (Pahokee) Dual Zone Monitoring Well with the Layne Christensen Company. Change Order No. 1 provided for additional hours to remove the failed tubing and video logging to aid in the retrieval operations. Due to unforeseen conditions at 1,147 feet of depth, the remaining 6.625 inch tubing could not be completely retrieved and the Fiberglass Reinforced Pipes could not be installed in the existing Lower Monitoring Interval. The Florida Department of Environmental Protection (FDEP) approved a modified plan to address this issue. Change Order No. 2 is significantly less expensive than the alternative to abandonment of the existing monitoring well system and construction of a new monitoring well system. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance is 15% overall. This Contract with Layne Christensen Company provides for SBE participation of 0% overall. Layne Christensen Company is not a local company. (WUD Project No. 10-077) District 6 (JM)

**Background and Justification:** The Palm Beach County Water Utilities Department owns and operates the wastewater treatment plant located in the City of Pahokee. The Deep Injection Well system consisting of one Deep Injection Well and an associated Dual Zone Monitor Well are the mechanism utilized to dispose of and monitor the disposal of the effluent resulting from the collection and treatment of waste from the City. The Florida Department of Environmental Protection has required the repair or replacement of the monitoring well system through a consent order. This project provides for the repair of the Dual Zone Monitoring Well along with modifications of the existing wellhead and monitoring equipment. On June 18, 2013, the Board of County Commissioners approved a Contract with the Layne Christensen Company for the Pahokee Dual Zone Monitoring Well Rehabilitation Project in the amount of \$407,866.00 (R2013-0768).

**Attachments:**

- 1. Location Map
- 2. Change Order No. 2

Recommended By:                       11/25/13  
Department Director                      Date

Approved By:                       12/9/13  
Assistant County Administrator                      Date





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

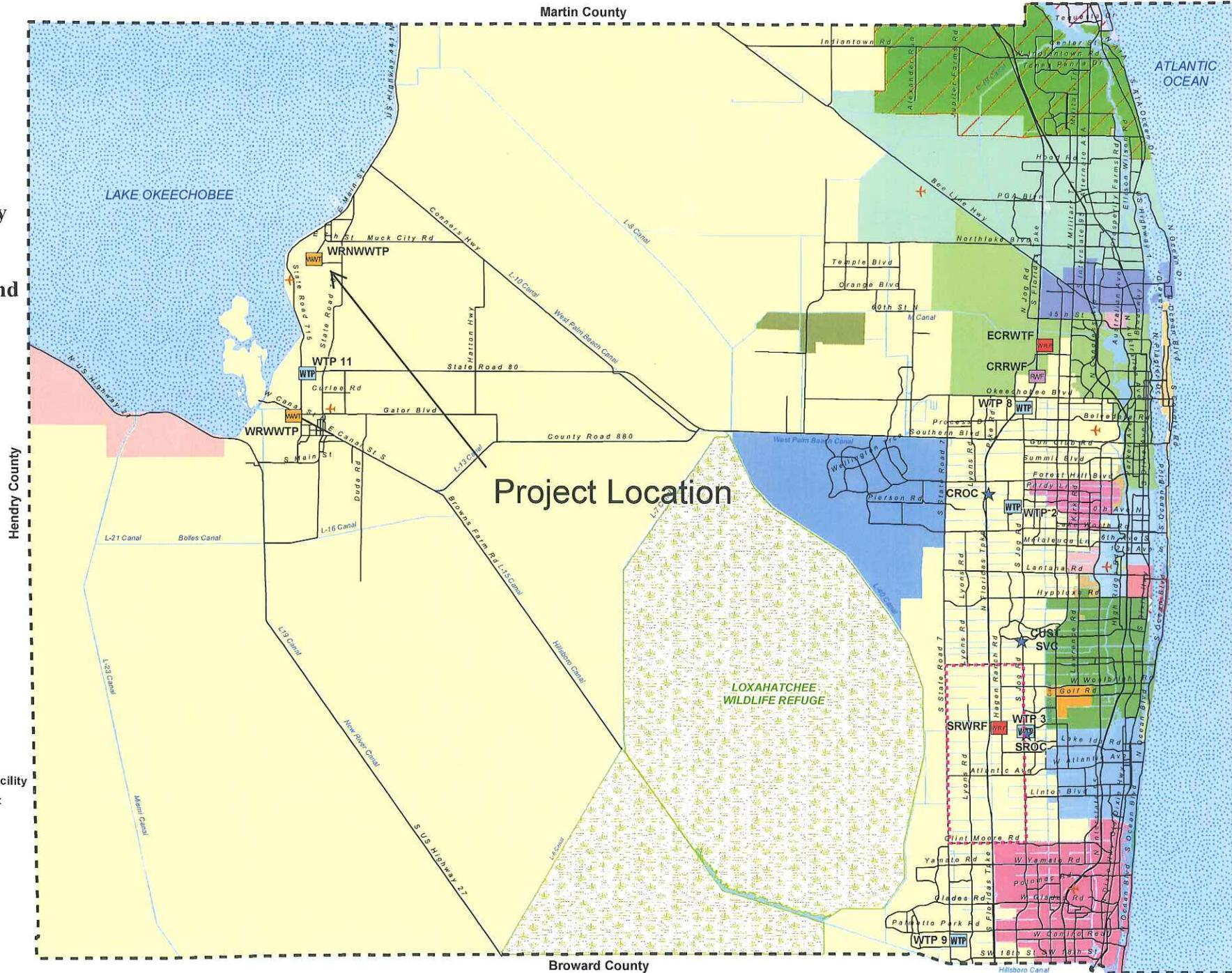
Attachment 1

**Legend**

- Administration
- Water Treatment Plant
- Reclamation Facility
- Wastewater Reclamation Facility
- Wastewater Treatment Plant
- Mandatory Reclaimed SA
- Palm Beach County Limits
- P.B.C.W.U.D. Service Area



NOT TO SCALE



**Project Location**

**PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2**

**Contractor:**  
**Layne Christensen Company**  
**5061 Lockett Road**  
**Fort Myers, Florida 33905**

**CONTRACT NO. R2013-0768**  
**CONTRACT DATE: 6/18/2013**  
**NOTICE TO PROCEED: 6/20/2013**  
**BUDGET LINE ITEM: 4001-720-5GUA-4615**  
**DISTRICT NUMBER 6**

**You are directed to make the following changes in this contract:**

- |  |                     |
|--|---------------------|
| 1. Delete the Following Work from the CONTRACT. These Reductions in Work are Itemized and Described in the Attached Letter from Layne Christensen Company.   |                     |
| • 12 Hours of Unused Time from Item B-2 - Rig Working (12 Hour Day) Remove Wellhead, Attached 6.625-inch Casing and Appurtenances.   | (\$5,220.00)        |
| • 120 Hours of Unused Time from Item B-7 - Rig Working (12 Hour Day) Cut or Mill 6.625-inch Casing to Provide Access to Lower Monitoring Zone.   | (\$52,200.00)       |
| • 12 Hours of Unused Time from Item B-10 - Clean Existing 6.625-inch Casing.   | (\$5,220.00)        |
| • 6 Hours of Unused Time from Item B-12 - Clean Existing 16-inch Casing.   | (\$2,610.00)        |
| • Item B-15 - Install Nominal 6.625-inch and 3.5-inch FRP Tubing, FRP Reducer Couplings, and Cementing Packer Assembly.  | (\$95,440.00)       |
| • Item B-16 - Inflate Packer and Perform Preliminary Pressure Test of 6.625-inch and 3.5-inch FRP Tubing and Packer.   | (\$3,480.00)        |
| • Item B-18 - Fill Upper Monitor Zone with Pea Gravel.   | (\$2,000.00)        |
| • 15 Hours of Unused Time from Item C-6 - (Rig Working (24 Hour Day) Remove Collapsed 6.625-inch Casing.   | (\$6,525.00)        |
| 2. Add the Following Work to the CONTRACT. These Additional Costs are Itemized and Described in the Attached Quote from Layne Christensen Company.   |                     |
| • 141 Hours of Additional Time Required to Complete Item B-11 - Circulate Casing Scale, Rust, Gravel, and Other Solids from the Well.  | \$61,335.00         |
| • 100 Cubic Feet of Additional Cement Grout to Item B-17 - Cement 6.625-inch and 3.5-inch FRP Tubing including Temperature Log Following Each Stage.   | \$2,000.00          |
| • New Item: Rig up for Drilling, Drill to Casing Depth of 1,915 Feet Below Land Surface (+/-) with 14.75-inch Bit using Reverse Air, Drill from Casing Depth to a Total Depth of 2,005 Feet Below Land Surface (+/-) with 12.25-inch Bit using Reverse Air, Condition Borehole and Perform Geophysical Logs. | \$115,640.00        |
| • New Item: Furnish and Install 6.625-inch FRP Tubing and Packer.  | \$136,440.00        |
| • 40 Hours Stand By Time at \$435.00 - Waiting on Regulatory Agency  | \$17,400.00         |
| <b>Total</b>   | <b>\$160,120.00</b> |

**NOT VALID UNTIL SIGNED BY BOTH OWNER AND ENGINEER. SIGNATURE OF THE CONTRACTOR INDICATES HIS AGREEMENT HEREWITH INCLUDING ANY ADJUSTMENT IN THE CONTRACT SUM OR CONTRACT TIME, AND NO ADDITIONAL COST OR TIME INDICATED HEREIN WILL BE RELATED TO THIS CHANGE**

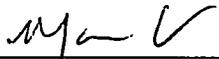
The original Contract Sum was:	<b>\$407,866.00</b>
Net change by previous Change Orders:	<b>\$77,200.00</b>
The Contract Sum prior to this Change Order was:	<b>\$485,066.00</b>
The Contract Sum will be <b>decreased</b> by this Change Order:	<b>\$160,120.00</b>
The new Contract Sum including this Change Order will be:	<b>\$645,186.00</b>
The Contract time will be increased by:	<b>70 Days</b>
The Date of Substantial Completion including this Change Order:	<b><u>December 27, 2013</u></b>
The Date of Final Completion including this Change Order:	<b><u>January 26, 2014</u></b>

**EXECUTION OF THIS CHANGE ORDER ACKNOWLEDGES FINAL SETTLEMENT OF, AND RELEASES, ALL CLAIMS FOR COSTS AND TIME ASSOCIATED, DIRECTLY OR INDIRECTLY, WITH THE ABOVE-STATED MODIFICATION(S) INCLUDING ALL CLAIMS FOR CUMULATIVE DELAYS OR DISRUPTIONS RESULTING FROM, CAUSED BY, OR INCIDENT TO SUCH MODIFICATIONS AND INCLUDING ANY CLAIM THAT THE ABOVE STATED MODIFICATION(S) CONSTITUTES IN WHOLE OR PART, A CARDINAL CHANGE TO THE CONTRACT.**

**PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2**

Palm Beach County Water Utilities  
Department  
**ENGINEER**

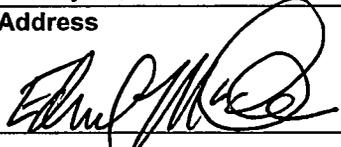
P.O. Box 16097  
W. Palm Beach, FL 33416  
**Address**

  
**Signature**  
Maurice Tobin, P.E.,  
Director of Engineering

11/15/13  
**DATE**

Layne Christensen Company  
**CONTRACTOR**

1065 Lockett Road  
Fort Myers, Florida 33905  
**Address**

  
**Signature**  
Ed McCullers, V.P.

NOVEMBER 7, 2013  
**DATE**

Palm Beach County Water Utilities  
Department  
**OWNER**

P.O. Box 16097  
W. Palm Beach, FL 33416  
**Address**

**Signature,**  
Priscilla A. Taylor, Mayor 

**DATE**

PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2

CHANGE ORDER CATEGORIZATION

<input checked="" type="checkbox"/> OWNER INITIATED —	<input checked="" type="checkbox"/> QUANTITY OVERRUNS/UNDER-RUNS —
<input checked="" type="checkbox"/> DIFFERING SITE CONDITIONS —	<input checked="" type="checkbox"/> REQUEST BY ANOTHER AGENCY —
<input type="checkbox"/> ZONING/CODE/ORDINANCE CHANGES —	<input type="checkbox"/> REIMBURSABLE —
<input type="checkbox"/> ERRORS/OMISSIONS IN DESIGN —	<input type="checkbox"/> NON-REIMBURSABLE —

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**PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2**

**COST SUMMARY**

<b><u>C.O. #</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ADDITIONS</u></b>	<b><u>(DELETIONS)</u></b>	<b><u>NET CHANGE</u></b>
1	Fishing tool design and fabrication and deletion of remaining work	\$77,200.00	\$0.00	\$77,200.00
2	Drill New LMZ	\$332,815.00	(\$172,695.00)	\$160,120.00
3				
4				
<b>Total</b>		<b>\$410,015.00</b>	<b>(\$172,695.00)</b>	<b>\$237,320.00</b>

**PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2**

**SCOPE OF WORK**

1. Circulate Casing Scale, Rust, Gravel, and Other Solids from the Well.
  2. Cement 6.625-inch and 3.5-inch FRP Tubing including Temperature Log Following Each Stage.
  3. Rig up for Drilling, Drill to Casing Depth of 1,915 Feet Below Land Surface (+/-) with 14.75-inch Bit using Reverse Air, Drill from Casing Depth to a Total Depth of 2,005 Feet Below Land Surface (+/-) with 12.25-inch Bit using Reverse Air, Condition Borehole and Perform Geophysical Logs.
  4. Furnish and Install 6.625-inch FRP Tubing and Packer.
-

**CHANGE ORDER ADDITIONS/DELETIONS SUMMARY**

PROJECT:	<b>Pahokee DZMW Rehabilitation</b>	<u>APPROVAL LIMITS:</u>						
CONTRACTOR:	<b>Layne Christensen Company 5061 Lockett Road Fort Myers, Florida 33905</b>	DEPARTMENT HEAD	CONTRACT REVIEW COMMITTEE	DEPARTMENT HEAD PLUS CONTRACT REVIEW COMMITTEE				
PROJECT NO.:	<b>WUD 10-077</b>							
RESOLUTION NO.:	<b>R2013-0768</b>	(Amount)	(Days)	(Amount)	(Days)	(Amount)	(Days)	
DATE APPROVED:	<b>June 18, 2013</b>	INDIVIDUAL C.O.	\$25,000.00	12 Days	\$50,000.00	25 Days	\$60,000.00	N/A
CONTRACT AMOUNT:	<b>\$407,866.00</b>	CUMMULATIVE C.O.	\$25,000.00	12 Days	\$75,000.00	37 Days	\$100,000.00	N/A

C.O. #	DATE APPROVED	NET CHANGE	DEPARTMENT HEAD		CONTRACT REVIEW COMMITTEE		TOTAL DEPT. HEAD & CONTRACT REVIEW COMM.		BOARD OF COUNTY COMMISSIONERS		TOTALS
			(ADDS PLUS DEDUCTS) AMOUNT	DAYS	(ADDS PLUS DEDUCTS) AMOUNT	DAYS	(ADDS PLUS DEDUCTS) AMOUNT	DAYS	(ADDS PLUS DEDUCTS) AMOUNT	DAYS	
1	10/2/2013	\$77,200.00	\$0.00	0	\$77,200.00	0	\$77,200.00	0	\$0.00	0	\$77,200.00
2	Pending	\$160,120.00	\$0.00	0	\$0.00	0	\$0.00	0	\$160,120.00	70	\$160,120.00
3											
4											
5											
6											
7											
8											
9											
10											
11											
<b>TOTAL</b>		<b>\$237,320.00</b>	<b>\$0.00</b>	<b>0</b>	<b>\$77,200.00</b>	<b>0</b>	<b>\$77,200.00</b>	<b>0</b>	<b>\$160,120.00</b>	<b>70</b>	<b>\$237,320.00</b>

Notes:

1. Net Change reflects the net amount of additions plus deductions.
2. Adds plus Deducts reflects the net value of unrelated changes for use in determining the approval authority for the Change Order.
3. Liquidated Damages = \$1,000 (Stage 1), = \$2,000 (Stage 2) and = \$1,000 (After Substantial Completion).



October 17, 2013

VIA ELECTRONIC MAIL

**Palm Beach County Board of County Commissioners**  
**Water Utilities Department**  
 Attn.: Diana M. Rivera, P.E., Project Manager  
 8100 Forest Hill Blvd.  
 West Palm Beach, FL 33413

Re.: Palm Beach County Project No. WUD 10-077  
 Pahokee Wastewater Treatment Facility Deep Injection Lower Zone Monitor Well

Dear Ms. Rivera:

Tomorrow was the scheduled Substantial Completion date for the project as per the Notice to Proceed. To date Layne Christensen Company has performed additional work with no additional time yet added to the contract, has not been released to procure certain materials or engage certain subcontractors and as of today the final scope of work has not yet been defined. Obviously the definition of Substantial Completion cannot be determined when the scope of work has yet to be finalized. We feel an extension of contract time is warranted and hereby request such; however, we cannot at this time ask for a specific number of days as the scope of work is still evolving so we reserve the right to do so at a later date.

We are eager to assist Palm Beach County in establishing a fully-functional monitor well. As per Tom Uram, we have prepared the following proposal to drill out the existing monitor well, perform the necessary geophysical logging and furnish and install 6-5/8" FRP tubing:

ITEM	CHANGE IN VALUE
New Item: Rig up for drilling, drill to casing depth of 1,915' bls +/- with 14.75" bit using reverse air, drill from casing depth to total depth of 2,005' +/- with 12.25" bit using reverse air, condition borehole and perform a full suite of geophysical logs (XYC, DIL, BHC, static FCT)	Add \$115,640.00
Delete Item B-15, Install 3.5" FRP Tubing and Packer	Deduct \$95,440.00
New Item: Furnish and Install 6.625" FRP Tubing and Packer	Add \$136,440.00
Reallocate funds as contingency due to downhole conditions	
Delete Item B-18, Fill Upper Zone with Gravel	Deduct \$2,000.00
Add 100 CF to Item B-17, Cement FRP tubing, @ \$20/CF	Add \$2,000.00
<b>Net Change to Contract:</b>	<b>Add \$156,640.00</b>

**WATER RESOURCES**

5061 Lockett Road, Fort Myers, FL 33905 | Office: 239.275.1029 | Fax: 239.275.1025 | layne.com

Please note that this proposed modification is based upon the following:

- Mutually-agreeable extension of contract time.
- Change order to also address existing additional work and contract time due.
- Additional work as described herein to be performed under 24 hour per day, 5 day per week work schedule.
- All drilling done open circulation, solids will be collected and water will be discharged to on-site pond.
- 6.625" FRP to be Future Pipe RedBox 1250.
- Use of standard external cementing packer typical of UIC DZMWs.
- Cementing to be done by tremmie method on backside of FRP.
- No standby time is included.

Please note that we have contacted Future Pipe and if we were to order the FRP tubing before close of business tomorrow they could produce it in approximately one week. After that, they say the lead time on the FRP is subject to change. Please also note that the contract currently does not provide for standby time, so Palm Beach County will have to give us direction this week on how we are to proceed with the project.

We do have another project scheduled for this drilling rig so we would like to expedite completion of this project for you rather than contemplate standby time so you can still try to meet your goals for FDEP consent order compliance.

Please contact me if you have any questions about this proposal.

Respectfully,  
Layne Christensen Company



Chris Bannon,  
Project Manager

CC: Thomas Uram, P.G., Palm Beach County Water Utilities Dept.

## WATER RESOURCES



October 25, 2013

VIA ELECTRONIC MAIL

**Palm Beach County Board of County Commissioners  
Water Utilities Department**

Attn.: Diana M. Rivera, P.E., Project Manager  
8100 Forest Hill Blvd.  
West Palm Beach, FL 33413

Re.: Palm Beach County Project No. WUD 10-077  
Pahokee Wastewater Treatment Facility Deep Injection Lower Zone Monitor Well

Dear Ms. Rivera:

We have been lead to believe that we will be authorized via Work Directive to proceed with the scope change we proposed on October 17th as soon as Palm Beach County receives authorization and approval from FDEP to proceed with the differing scope.

Our proposal of October 17<sup>th</sup> was based upon all other open issues being addressed by the same change order that will authorize this scope change. In addition to the scope change detailed in that October 17<sup>th</sup> proposal, the following other items will need to be addressed by that same change order:

- The deletion of 12 hours of Item B-2, Remove Wellhead @ \$435.00/hour.
- The deletion of 120 hours of Item B-7, Cut or Mill 6.625" Casing @ \$435.00/hour.
- The deletion of 12 hours of Item B-10, Clean Existing 6.625" Casing @ \$435.00/hour.
- The addition of 141 hours of Item B-11, Circulate Scale/Rust/Gravel @ \$435.00/hour.
- The deletion of 6 hours of Item B-12, Clean Existing 16" Casing @ \$435.00/hour.
- The deletion of 1 LS of Item B-16, Preliminary Pressure Test of 3.5" FRP @ \$3,480.00.
- The addition of 48 hours through October 25<sup>th</sup>, plus a further 12 hours per weekday after October 25 until authorized to resume work, of Bid Item C-4, Standby Time with Rig On Site and Crew Off Site @ \$435.00/hour.
- As of today, the addition of approximately 70 days of contract time before Substantial Completion to provide for the additional work done to date, the additional work involved in the proposed change of scope and the lead times for materials and subcontractors that we have not yet been authorized to release.

**WATER RESOURCES**

5061 Luckett Road, Fort Myers, FL 33905 | Office: 239.275.1029 | Fax: 239.275.1025 | layne.com



WATER · MINERAL · ENERGY

We are eager to complete this rehabilitation and provide Palm Beach County with a rebuilt, fully-functioning monitor well. It is important that a Work Directive instructing us to move forward with a new scope of work also needs to clearly spell out how we will be compensated under the subsequent change order. Just as Palm Beach County needs and deserves a clear understanding of the value it receives for the prices it pays, Layne also needs and deserves a clear understanding of the compensation we will receive for the scope of work we will perform.

We look forward to FDEP approving the new scope of work shortly and Palm Beach County quickly thereafter providing us with a detailed Work Directive that is accompanied by specifics regarding the subsequent change order to follow.

Respectfully,  
Layne Christensen Company

A handwritten signature in black ink, appearing to read "Chris Bannon".

Chris Bannon,  
Project Manager

CC: Thomas Uram, P.G., Palm Beach County Water Utilities Dept.

## WATER RESOURCES

5061 Lockett Road, Fort Myers, FL 33905 | Office: 239.275.1029 | Fax: 239.275.1025 | layne.com

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**PALM BEACH COUNTY – WESTERN REGION NORTH WWTP  
DUAL ZONE MONITORING WELL REPAIR PROJECT NO. WUD 10-077  
CHANGE ORDER NO. 2**

**SCHEDULE 1**

**PARTICIPATION OF SBE/MWBE CONTRACTORS**

PROJECT NAME: Pahokee Monitoring Well Repair

PROJECT NO. WUD 10-077

NAME OF PRIME CONTRACTOR: Layne Christensen Company

CHANGE ORDER NO. 2

CONTACT PERSON: Ed McCullers, Vice President

PHONE NO: 239-275-1029

FAX NO: 239-275-1025

CONTRACT DATE: June 18, 2013

DEPARTMENT: Water Utilities

\*\*\*\*\*

Name, Address and Phone Number of M/WBE	Type of Work To Be Performed	Contract Amount			
		Black	Hispanic	Women	Other(Please Specify)
-----					
1.		\$ ___	\$ ___	\$ ___	\$ <u>0</u>
-----					
2.		\$ ___	\$ ___	\$ ___	\$ <u>0</u>
-----					
3.		\$ ___	\$ ___	\$ ___	\$ <u>0</u>
-----					
4.		\$ ___	\$ ___	\$ ___	\$ <u>0</u>
-----					
5.		\$ ___	\$ ___	\$ ___	\$ <u>0</u>
-----					
TOTALS		\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>

PRIME CONTRACTOR TO COMPLETE:

ORIGINAL CONTRACT PRICE: \$407,866.00 ORIGINAL PARTICIPATION: \$0.00 % PARTICIPATION: 0.00%

ADJUSTED CONTRACT PRICE: \$645,186.00 ADJUSTED PARTICIPATION: \$0.00 % PARTICIPATION: 0.00%