



PROPOSAL PREPARED FOR:

City of Key West ITB # 19007

WWTP WELL REPAIR & MECHANICAL  
INTEGRITY TESTING

DATE: December 20, 2018,  
Time: 3:00 PM

PROPOSAL BY:  
LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)



A GRANITE COMPANY



Water Mineral Services  
5061 Lockett Road  
Fort Myers, Florida 33905  
T 239-275-1029  
F- 239-275-1025  
[dave.tormoehlen@layne.com](mailto:dave.tormoehlen@layne.com)

December 20, 2018

City of Key West  
Office of City Clerks  
1300 White Street  
Key West, Florida 33040

Re: BID #-City of Key West ITB # 19007, WWTP WELL REPAIR & MECHANICAL  
INTEGRITY TESTING

Bid Date: December 20, 2018/ Time: 3:00PM

TO Whom It May Concern,

Layne Christensen Company is pleased to submit the attached proposal for the above referenced project. Layne is a global water management, construction, and drilling company. We provide responsible solutions for the world's most challenging water, mineral, and energy challenges. Our integrated approach allows us to offer more than just individual services. It ensures streamlined communications, expedited timelines, and a constant focus on our overriding values of safety, sustainability, integrity, and excellence.

Layne has a strong commitment to providing a safe and productive workplace. Our emphasis on health and safety encompasses developing site specific safety plans, and is designed to identify, evaluate, and control health and safety hazards for the purpose of protecting employees as well as all onsite personnel.

We hope that you find this proposal acceptable and look forward to working with you. If you have any questions or need any additional information please feel free to contact me at 239-275-1029.

Respectfully,

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David A. Tormoehlen  
General Manager

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**PART 1**

**BIDDING REQUIREMENTS**

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## INVITATION TO BID

Sealed bids for the City of Key West ITB # 19-007 WWTP WELL REPAIR & MECHANICAL INTEGRITY TESTING, addressed to the City of Key West, will be received at the Office of the City Clerk, 1300 White Street., Key West Florida, 33040 until 3:00 p.m. on **Thursday, December 20, 2018** and then will be publicly opened and read. Any bids received after the time and date specified will not be considered.

**Please submit one (1) original, and two (2) flash drives each with one single PDF file of the sections entitled “Bidding Requirements” and “Contract Forms”. Bid package is to be enclosed in a sealed envelope, clearly marked on the outside “ITB #19-007 WWTP WELL REPAIR & MECHANICAL INTEGRITY TESTING addressed and delivered to the City Clerk at the address noted above.**

The project contemplated consists of providing all site work, materials, equipment and labor necessary to accomplish the following:

Provide labor, materials and equipment to repair well IW-1 and perform mechanical integrity tests for deep injection wells IW-1 and IW-2.

Drawings and Specifications may be obtained from Demand Star by Onvia or City of Key West. Please contact Demand Star at [www.demandstar.com](http://www.demandstar.com) or call 1-800-711-1712 or [www.cityofkeywest-fl.gov](http://www.cityofkeywest-fl.gov)

A non-mandatory Pre - Bid meeting will be held on **Wednesday, December 5, 2018 at 10 a.m at the** Richard A. Heyman Environmental Protection Facility conference room at 100 Fleming Key Road, Key West, Florida.

**All persons who wish to attend the pre-bid meeting are required to obtain a day pass from NASKW Commercial/Truck Gate, on the morning of the pre-bid meeting.**

Please provide your name, email address, company information, including address and phone number, to John Paul Castro, [jcastro@cityofkeywest-fl.gov](mailto:jcastro@cityofkeywest-fl.gov), before November 28, 2018 (at least one week prior the pre-bid meeting). An invitation to obtain your access pass will be emailed. Please print a copy of this email invitation and bring it with you to the Commercial Gate, to be received for security screening.

**On the morning of the pre-bid meeting, attendees shall go to the Commercial Gate to obtain your access pass. (Please remember to bring your printed paper copy of the emailed invitation.) Commercial Gate (NAS Truck Entrance) is located at mile marker 9.5 Overseas Highway 1, A1A, on Rockland Key. A vehicle inspection will be required before the day pass will be issued. No fire arms are allowed. Commercial Gate hours of operation are 7:00 a.m. to 10:00 a.m., Monday through Friday.**

**EACH BID MUST BE SUBMITTED ON THE PRESCRIBED FORM AND ACCOMPANIED BY BID SECURITY AS PRESCRIBED IN THE INSTRUCTIONS TO BIDDERS, PAYABLE TO THE**

**CITY OF KEY WEST, FLORIDA, IN AN AMOUNT NOT LESS THAN FIVE (5) PERCENT OF THE AMOUNT BID.**

**THE BIDDER MUST BE A LICENSED CONTRACTOR BY THE STATE OF FLORIDA AND SUBMIT PROOF OF SUCH WITH THE BID.**

The successful Bidder shall furnish documentation showing that he is in compliance with the licensing requirements of the State and the provisions of Chapter 66 Section 87 of the Code of Ordinances of the City of Key West; within 10 days following the Notice of Award and must demonstrate that he holds at a minimum, the following licenses & certificates;

- A. City of Key West Business Tax License Receipt
- B. A valid Certificate of Competency issued by the Chief Building Official of Key West, Florida.

All bid bonds, insurance contracts, and certificates of insurance shall be either executed by or countersigned by a licensed resident agent of the Surety or Insurance Company having his place of business in the State of Florida, and in all ways complying with the insurance laws of the State of Florida. Further, the said Surety or Insurance Company shall be duly licensed and qualified to do business in the State of Florida.

Before a Contract will be awarded for the work contemplated herein, the CITY will conduct such investigation as is necessary to determine the performance record and ability of the apparent low Bidder to perform the size and type of work specified under this Contract. Upon request, the Bidder shall submit such information as deemed necessary by the CITY to evaluate the Bidder's qualifications.

**Any request for information concerning this project must be made in writing, per City of Key West Ordinance Section 2-773, Cone of Silence, to John Paul Castro, Director of Utilities, at [jcastro@cityofkeywest-fl.gov](mailto:jcastro@cityofkeywest-fl.gov).**

As stated above at the time of the bid submittal the Bidder must provide satisfactory documentation of State Licenses. The Bidder shall furnish documentation showing that he is in compliance with the licensing requirements of County, and City licenses as would be required within ten days of the award. The successful Bidder must also be able to satisfy the CITY Attorney as to such insurance coverage and legal requirements as may be demanded by the Bid in question. The CITY may reject bids for any and/or all of the following reasons: (1) for budgetary reasons, (2) if the bidder misstates or conceals a material fact in its bid, (3) if the bid does not strictly conform to the law or is non-responsive to the bid requirements, (4) if the bid is conditional, or (5) if a change of circumstances occurs making the purpose of the bid unnecessary to the CITY. The CITY may also waive any minor formalities or irregularities in any bid, (6) if such rejection is in the best interest of the CITY.

## INSTRUCTIONS TO BIDDERS

### 1. CONTRACT DOCUMENTS

#### A. FORMAT

The Contract Documents are divided into parts, divisions, and sections for convenient organization and reference. Generally, there has been no attempt to divide the sections into work performed by the various building trades, work by separate subcontractors, or work required for separate facilities in the project.

#### B. DOCUMENT INTERPRETATION

The separate sections contained within these Contract Documents are intended to be mutually cooperative and to provide all details reasonably required for the execution of the proposed work.

Should there be any doubt as to the meaning or intent of said Contract Documents, the Bidder should request of the ENGINEER, in writing (at least ten (10) calendar days prior to bid opening) an interpretation thereof. Any interpretation or change in said Contract Documents will be made only in writing in the form of Addenda to the documents which will be available to all registered holders of Contract Documents via Demand star. Bidders shall submit with their Bids, or indicate receipt of, all Addenda. The CITY will not be responsible for any other explanation or interpretations of said Documents.

### 2. GENERAL DESCRIPTION OF THE PROJECT

A general description of the work to be done is contained in the Invitation to Bid. The scope is specified in applicable parts of these Contract Documents.

### 3. QUALIFICATION OF CONTRACTORS

The prospective Bidders must meet the statutorily prescribed requirements before award of Contract by the CITY. Bidders must hold or obtain all licenses and/or certificates as required by the State and Local Statutes to bid and perform the work specified herein.

### 4. BIDDER'S UNDERSTANDING

Each Bidder must inform himself of the conditions relating to the execution of the work, and it is assumed that he will inspect the site and make himself thoroughly familiar with all the Contract Documents. Failure to do so will not relieve the successful Bidder of his obligation to enter a Contract and complete the contemplated work in strict accordance with the Contract Documents. It shall be the Bidder's obligation to verify for himself and to his complete satisfaction all information concerning site and subsurface conditions.

The CITY will make available to prospective Bidders upon request and at the office of the

ENGINEER, prior to bid opening, any information that he may have as to subsurface conditions and surface topography at the worksite.

Each Bidder shall inform himself of, and the Bidder awarded a Contract shall comply with, federal, state, and local laws, statutes, and ordinances relative to the execution of the work. This requirement includes, but is not limited to, applicable regulations concerning minimum wage rates, nondiscrimination in the employment of labor, protection of public and employee safety and health, environmental protection, the protection of natural resources, fire protection, burning and non-burning requirements, permits, fees, and similar subjects.

5. TYPE OF BID

A. LUMP SUM

The BID for the work is to be submitted on a lump sum basis. Lump sum prices shall be submitted for all items of work set forth in the bid. All items required to complete the work specified but not included in the bid shall be considered incidental to those set forth in the bid.

**The Bidder shall submit a Schedule of Values with the BID. It shall be broken down by trade/type of work and include the cost of all LABOR & MATERIALS for use as a basis for payment.**

6. PREPARATION OF BIDS

A. GENERAL

All blank spaces in the BID form must be filled in, as required, preferably in **BLACK ink**. All price information shall be shown in both words and figures where required. No changes shall be made in the phraseology of the forms. Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures. In case of discrepancy between unit prices and extended totals, unit prices shall prevail.

Any BID shall be deemed informal which contains omissions, erasures, alterations, or additions of any kind, or prices uncalled for, or in which any of the prices are obviously unbalanced, or which in any manner shall fail to conform to the conditions of the published Invitation to Bid.

Only one BID from any individual, firm, partnership, or corporation, under the same or different names, will be considered. Should it appear to the CITY that any Bidder is interested in more than one Bid for work contemplated; all Bids in which such Bidder is interested will be rejected.

B. SIGNATURE

The Bidder shall sign his BID in the blank space provided therefore. If Bidder is a corporation, the legal name of the corporation shall be set forth above, together with the signature of the officer or officers authorized to sign Contracts on behalf of the corporation. If Bidder is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign Contracts in behalf of the partnership. If signature is by an agent, other than an officer of a corporation or a member of a partnership, a notarized power-of-attorney must be on file with the CITY prior to opening of Bids or submitted with the Bid, otherwise the Bid will be regarded as not properly authorized.

C. SPECIAL BIDDING REQUIREMENTS

The Bidder's attention is brought to the hiring practices and licenses and permits of the City of Key West. These are defined in the addition to Article 39, ORDINANCES, PERMITS, AND LICENSES, as set forth in the Supplementary Conditions.

The Bidder shall submit with his Bid his experience record showing his experience and expertise in the specified work. Such experience record shall provide at least five current or recent projects (within the past 5 years) of similar work, within the State Florida and preferably Monroe County. For each project the following information shall be provided:

1. Description and location of work.
2. Contract amount.
3. Dates work was performed.
4. Owner and name of Owner's contact person and phone number.
6. Designer and name of Designer's contact person and phone number.

The bidder shall submit with his bid a list of items to be performed by his own labor and that performed by subcontractors or others.

D. ATTACHMENTS

Bidder shall complete and submit the following forms with his bid:

Anti-Kickback Affidavit  
Non-Collusion Affidavit  
Public Entity Crimes Form  
Indemnification Form  
City of Key West Business License Tax Receipt  
Local Vendors Form  
Domestic Partnership Affidavit  
Cone of Silence Affidavit  
Bidders' Checklist

E. PUBLIC ENTITY CRIMES FORM



Pursuant to the requirements of Chapter 287.133, Laws of Florida, pertaining to the sworn statement on Public Entity Crimes and the Convicted Vendor List, all Bidders shall submit a signed and notarized statement with their Bid on the form provided herein.

7. STATE AND LOCAL SALES AND USE TAXES

Unless the Supplementary Conditions contains a statement that the CITY is exempt from state sales tax on materials incorporated into the work due to the qualification of the work under this Contract, the Contractor, as required by the laws and statutes of the state and its political subdivisions, shall pay all state and local sales and use taxes. Prices quoted in the Bid shall include all nonexempt sales and use taxes, unless provision is made in the Bid form to separately itemize the tax.

8. SUBMISSION OF BIDS

**All BIDS must be submitted not later than the time prescribed, at the place, and in the manner set forth in the Invitation to Bid. BIDS must be made on the BID forms provided herewith, submit one (1) ORIGINAL and two (2) FLASH DRIVES each containing a single PDF file of the entire bid package.**

**Each BID must be submitted in a sealed envelope, so marked as to indicate the Bidder's name and its contents (project name and number) without being opened, and addressed in conformance with the instructions in the Invitation to Bid.**

9. MODIFICATION OR WITHDRAWAL OF BIDS

Prior to the time and date designated for receipt of BIDS, any BID submitted may be withdrawn by notice to the party receiving BIDS at the place designated for receipt of BIDS. Such notice shall be in writing over the signature of the Bidder or by telegram. If by telegram, written confirmation over the signature of the Bidder shall be mailed and postmarked on or before the date and time set for receipt of BID. No BID may be withdrawn after the time scheduled for opening of BIDS, unless the time specified in paragraph AWARD OF CONTRACT of these Instructions to Bidders shall have elapsed.

10. BID SECURITY

BIDS must be accompanied by cash, a certified check, or cashier's check drawn on a bank in good standing, or a bid bond issued by a Surety authorized to issue such bonds in the state where the work is located, in the amount of five (5) percent of the total amount of the Bid submitted. This bid security shall be given as a guarantee that the Bidder will not withdraw his BID for a period of ninety (90) days after bid opening, and that if awarded the Contract, the successful Bidder will execute the attached Contract and furnish properly executed Performance and Payment Bonds, each in the full amount of the Contract price within the time specified. Agent and Surety phone numbers must be provided.

The Attorney-in-Fact who executes this bond in behalf of the Surety must attach a notarized copy

of his power-of-attorney as evidence of his authority to bind the Surety on the date of execution of the bond. Where State Statute requires, certification by a resident agent shall also be provided.

If the Bidder elects to furnish a Bid Bond, he shall use the Bid Bond form bound herewith, or one conforming substantially thereto in form and content.

11. RETURN OF BID SECURITY

Within 15 days after the award of the Contract, the CITY will return the bid securities to all Bidders whose BIDS are not to be further considered in awarding the Contract. Retained bid securities will be held until the Contract has been finally executed, after which all bid securities, other than Bidders' bonds and any guarantees, which have been forfeited, will be returned to the respective Bidders whose Bids they accompanied.

12. AWARD OF CONTRACT

Within 90 calendar days after the opening of Bids, the CITY will accept one of the Bids or will act in accordance with the following paragraphs. The acceptance of the Bid will be by written notice of award, mailed to the office designated in the Bid, or delivered to the Bidder's representative. In the event of failure of the lowest responsive, responsible Bidder to sign the Contract, provide additional documents, insurance certificate(s) and evidence of holding required licenses and certificates, the Owner may award the Contract to the next lowest responsive, responsible Bidder. Such award, if made, will be made within 120 days after the opening of Bids.

The CITY reserves the right to accept or reject any or all Bids, and to waive any informalities and irregularities in said Bids.

13. BASIS OF AWARD

The award will be made by the Owner on the basis of the BID from the lowest, responsive, responsible BIDDER which, in the Owner's sole and absolute judgment will best serve the interest of the Owner.

14. EXECUTION OF CONTRACT

The successful Bidder shall, within 10 working days after receiving Notice of Award, sign and deliver to the CITY an original Contract and two (2) copies in the form hereto attached, together with the insurance certificate as required in the Contract Documents and evidence of holding required licenses and certificates. Within 10 working days after receiving the signed Contract from the successful Bidder, the City's authorized agent will sign the Contract. Signature by both parties constitutes execution of the Contract.

16. FAILURE TO EXECUTE CONTRACT AND FURNISH BID BOND

The Bidder who has a Contract awarded to him and who fails to promptly and properly execute the Contract shall forfeit the bid security that accompanied his bid, and the bid security shall be

retained as liquidated damages by the CITY, and it is agreed that this said sum is a fair estimate of the amount of damages the CITY will sustain in case the Bidder fails to enter into a Contract. Bid security deposited in the form of cash, a certified check, or cashier's check shall be subject to the same requirement as a Bid Bond.

17. TIME OF COMPLETION

The time of completion of the work to be performed under this Contract is the essence of the Contract. Delays and extensions of time may be allowed in accordance with the provisions stated in the General Conditions.

When the Contractor receives a Notice to Proceed, he shall commence work as soon as possible and shall complete all work within the number of calendar days stipulated in this Bid.

The term of this contract will be **110** calendar days.

NOTE TO BIDDER: Use preferably BLACK ink for completing this BID form.

**PROPOSAL FORM**

To: The City of Key West  
Address: 1300 White Street, Key West, Florida 33040  
Project Title: WWTP WELL REPAIR & MECHANICAL INTEGRITY TESTING - ITB #19-007

Bidder's contact person for additional information on this BID:

Company Name: Layne  
Contact Name & Telephone #: Dave Tormoehlen 239-275-1029  
Email Address: Dave.Tormoehlen@Layne.com

**BIDDER'S DECLARATION AND UNDERSTANDING**

The undersigned, hereinafter called the Bidder, declares that the only persons or parties interested in this Bid are those named herein, that this Bid is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Bid is made without any connection or collusion with any person submitting another Bid on this Contract.

The Bidder further declares that he has carefully examined the Contract Documents for the construction of the project, that he has personally inspected the site, that he has satisfied himself as to the quantities involved, including materials and equipment, and conditions of work involved, including the fact that the description of the quantities of work and materials, as included herein, is brief and is intended only to indicate the general nature of the work and to identify the said quantities with the detailed requirements of the Contract Documents, and that this Bid is made according to the provisions and under the terms of the Contract Documents, which Documents are hereby made a part of this Bid.

**CONTRACT EXECUTION**

The Bidder agrees that if this Bid is accepted, he will, within 10 days, not including Sundays and legal holidays, after Notice of Award, sign the Contract in the form annexed hereto, and will at that time, deliver to the Owner evidence of holding required licenses and certificates, and will, to the extent of his Bid, furnish all machinery, tools, apparatus, and other means of construction and do the work and furnish all the materials necessary to complete all work as specified or indicated in the Contract Documents.



In Words

\_\_\_\_\_ Dollars & Zero \_\_\_\_\_ Cents

Payment for materials & equipment authorized by the Owner in a written Change Order but not listed in the Schedule of Values will be provided at suppliers' invoice plus 15 %.

List items to be performed by CONTRACTOR's own forces and the estimated total cost of these items. (Use additional sheets if necessary.)

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**SUBCONTRACTORS**

The Bidder further proposes that the following subcontracting firms or businesses will be awarded subcontracts for the following portions of the work if the Bidder is awarded the Contract:

\_\_\_\_\_  
Name

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
Street City State Zip

Name

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_  
Street City State Zip

\_\_\_\_\_  
Name

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

\_\_\_\_\_  
Name

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

SURETY

Travelers Casualty and Surety Company of America

whose address is

1 Tower Square

Hartford

CT

06183

Street

City

State

Zip

BIDDER

The name of the Bidder submitting this Bid is

Layne Christensen Company

doing business at

5061 Lockett Rd.

Ft. Myers

FL

33905

Street

City

State

Zip

which is the address to which all communications concerned with this Bid and with the Contract shall be sent.

The names of the principal officers of the corporation submitting this Bid, or of the partnership, or of all persons interested in this Bid as principals are as follows:

See Attached LLC Officers

\_\_\_\_\_  
\_\_\_\_\_

If Sole Proprietor or Partnership

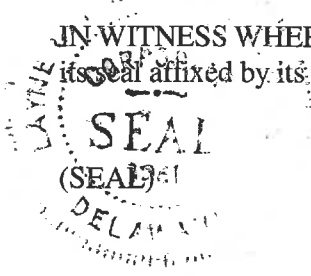
IN WITNESS hereto the undersigned has set his (its) hand this \_\_\_\_\_ day of \_\_\_\_\_ 2018.

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Title

If Corporation

IN WITNESS WHEREOF the undersigned corporation has caused this instrument to be executed and its seal affixed by its duly authorized officers this 18th day of December 2018.



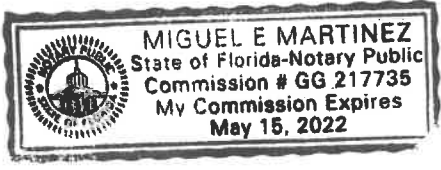
Layne Christensen Company  
Name of Corporation

By Dave Tormoehlen  
Dave Tormoehlen  
Title General Manager  
Attest Miguel E. Martinez

Sworn and subscribed before this 18<sup>th</sup> day of December, 2018

NOTARY PUBLIC, State of FL, at Large

My Commission Expires: May 15, 2022



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**FLORIDA BID BOND**

BOND NO. N/A

AMOUNT: \$ N/A

KNOW ALL MEN BY THESE PRESENTS, that Layne Christensen Company

hereinafter called the PRINCIPAL, and Travelers Casualty and Surety Company of America

a corporation duly organized under the laws of the State of Connecticut

having its principal place of business at 1 Tower Square Hartford, CT 06183

in the State of Connecticut,

and authorized to do business in the State of Florida, as SURETY, are held and firmly bound unto

City of Key West

hereinafter called the OBLIGEE, in the sum of Five Percent (5%) of Bid Amount

DOLLARS (\$ (5%) of Bid Amount ) for the payment for which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these present.

THE CONDITION OF THIS BOND IS SUCH THAT:

WHEREAS, the PRINCIPAL is herewith submitting his or its Bid for **ITB # 19-007 / WWTP WELL REPAIR & MECHANICAL INTEGRITY TESTING** said Bid, by reference thereto, being hereby made a part hereof.

WHEREAS, the PRINCIPAL contemplates submitting or has submitted a bid to the OBLIGEE for the furnishing of all labor, materials (except those to be specifically furnished by the CITY), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the Bid and the Contract Documents, entitled:

**ITB 19-007 / WWTP WELL REPAIR & MECHANICAL INTEGRITY TESTING**

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check, certified check, or bid bond in the amount of five (5) percent of the base bid be submitted with said bid as a guarantee that the Bidder would, if awarded the Contract, enter into a written Contract with the CITY for the performance of said Contract, within 10 working days after written notice having been given of the award of the Contract.

NOW, THEREFORE, the conditions of this obligation are such that if the PRINCIPAL within 10 consecutive calendar days after written notice of such acceptance, enters into a written Contract with the OBLIGEE and furnishes the Performance and Payment Bonds, each in an amount equal to 100 percent of the base bid, satisfactory to the CITY, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the OBLIGEE and the Surety herein agrees to pay said sum immediately upon demand of the OBLIGEE in good and lawful money of the United States of America, as liquidated damages for failure thereof of said PRINCIPAL.

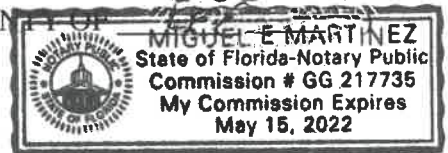
Signed and sealed this 12th day of December, 2018.

Layne Christensen Company  
PRINCIPAL

By *Dave Tormoehlen*  
Dave Tormoehlen



STATE OF Florida  
L & E county, SS  
COUNTY OF



Travelers Casualty and Surety Company of America  
SURETY

By *Isabel Barron*  
Isabel Barron, Attorney-In-Fact

By *Margaret A. Ginem*  
Margaret A. Ginem Florida Resident Agent  
Licence # P121741

**ANTI - KICKBACK AFFIDAVIT**

STATE OF Florida )  
 ) : SS  
COUNTY OF Lee )

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

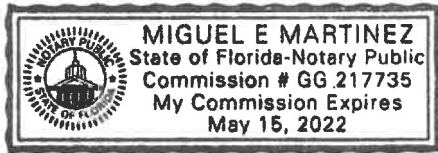
By:   
Dave Tormoehlen

Sworn and subscribed before me this 18<sup>th</sup> day of December, 2018.

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: May 15, 2022







SWORN STATEMENT UNDER SECTION 287.133(3)(A)  
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted with Bid or Bid for \_\_\_\_\_  
\_\_\_\_\_

2. This sworn statement is submitted by Layne  
(Name of entity submitting sworn statement)

whose business address is 5061 Lockett Rd. Fort Myers, FL 33905  
\_\_\_\_\_

and (if applicable) its Federal Employer Identification Number (FEIN) is 48-0920712  
\_\_\_\_\_

(If the entity has no FEIN, include the Social Security Number of the individual  
signing this sworn statement \_\_\_\_\_)

3. My name is Dave Tormoehlen  
(Please print name of individual signing)

and my relationship to the entity named above is General Manager

4. I understand that a “public entity crime” as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that “convicted” or “conviction” as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an “affiliate” as defined in Paragraph 287.133(1)(a), Florida Statutes, means
- a. A predecessor or successor of a person convicted of a public entity crime; or
  - b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term “affiliate” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm’s length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
7. I understand that a “person” as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with public entity. The term “person” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies).

Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of

Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

David A. J.  
(Signature)  
12/18/18  
(Date)

STATE OF Florida

COUNTY OF LEE

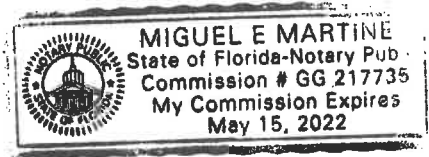
PERSONALLY, APPEARED BEFORE ME, the undersigned authority,

DAVE Bronckler who, after first being sworn by me, affixed his/her  
(Name of individual signing)

Signature in the space provided above on this 18<sup>th</sup> day of December, 2018.

My commission expires: May 15, 2022

Miguel E. Martine  
NOTARY PUBLIC





**INDEMNIFICATION**

To the fullest extent permitted by law, the CONTRACTOR expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents, and employees (herein called the "indemnitees") from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR, its Subcontractors or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of CONTRACTOR's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the CONTRACTOR under workers' compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the CONTRACTOR or of any third party to whom CONTRACTOR may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONTRACTOR: Layne

SEAL:



5061 Lockett Rd. Ft. Myers, FL 33905

Address

*David A. Tormeohlen*

Signature

Dave Tormeohlen

Print Name

General Manager

Title

DATE: 12/18/2018

**LOCAL VENDOR CERTIFICATION PURSUANT TO CKW ORDINANCE 09-22 SECTION 2-798**

The undersigned, as a duly authorized representative of the vendor listed herein, certifies to the best of his/her knowledge and belief, that the vendor meets the definition of a "Local Business." For purposes of this section, "local business" shall mean a business which:

- a. Principle address as registered with the FL Department of State located within 30 miles of the boundaries of the city, listed with the chief licensing official as having a business tax receipt with its principle address within 30 miles of the boundaries of the city for at least one year immediately prior to the issuance of the solicitation.
- b. Maintains a workforce of at least 50 percent of its employees from the city or within 30 miles of its boundaries.
- c. Having paid all current license taxes and any other fees due the city at least 24 hours prior to the publication of the call for bids or request for Bids.

- **Not a local vendor pursuant to Ordinance 09-22 Section 2-798**
- Qualifies as a local vendor pursuant to Ordinance 09-22 Section 2-798

If you qualify, please complete the following in support of the self-certification & submit copies of your County and City business licenses. Failure to provide the information requested will result in denial of certification as a local business.

Business Name Layne Phone: 239-275-1029

Current Local Address: 5061 Luckett Rd. Fort Myers, FL, 33906 Fax: 23-275-1025  
(P.O Box numbers may not be used to establish status)

Length of time at this address: 9 years

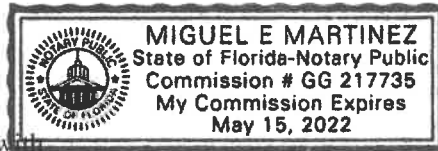
[Signature] Date: 12/18/2018  
Signature of Authorized Representative

STATE OF Florida COUNTY OF Lee

The foregoing instrument was acknowledged before me this 18<sup>th</sup> day of December, 2018.

By DAVE Tormachter, of LAYNE  
(Name of officer or agent, title of officer or agent) (Name of corporation acknowledging)

or has produced identification Known to me as identification  
(Type of identification)



[Signature]  
Signature of Notary

Return Completed form with  
Supporting documents to:  
City of Key West Purchasing

Print, Type or Stamp Name of Notary

project manager  
Title or Rank

**EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT**

STATE OF Florida )  
 : SS  
COUNTY OF LEE )

I, the undersigned hereby duly sworn, depose and say that the firm of Layne  
provides benefits to domestic partners of its employees on the same basis as it provides benefits to  
employees' spouses per City of Key West Ordinance Sec. 2-799.

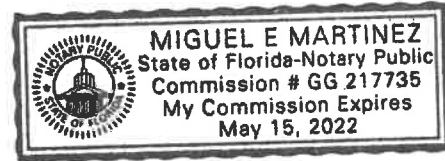
By: Dave Tormoehlen  
Dave Tormoehlen

Sworn and subscribed before me this  
18<sup>th</sup> Day of December, 2018.

Miguel E. Martinez

NOTARY PUBLIC, State of FLORIDA at Large

My Commission Expires: May 15, 2022



**CONE OF SILENCE AFFIDAVIT**

STATE OF Florida )  
 : SS  
COUNTY OF Lee )

I the undersigned hereby duly sworn depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of Layne have read and understand the limitations and procedures regarding communications concerning City of Key West issued competitive solicitations pursuant to City of Key West Ordinance Section 2-773 Cone of Silence.

By: *Dave Tornoehlen*  
Dave Tornoehlen

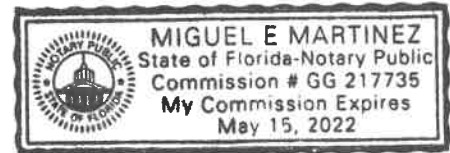
Sworn and subscribed before me this

18th Day of December, 2018.

*Miguel E. Martinez*

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: May 15, 2022



## **BIDDER'S CHECKLIST**

(Note: The purpose of this checklist is to serve as a reminder of major items to be addressed in submitting a bid and is not intended to be all inclusive. It does not alleviate the Bidder from the responsibility of becoming familiar with all aspects of the Contract Documents and proper completion and submission of his bid.)

1. All Contract Documents thoroughly read and understood. [ ✓ ]
2. All blank spaces in Bid filled in, using black ink. [ ✓ ]
3. Total and unit prices added correctly and attached Schedule of Values [ ✓ ]
4. Addenda acknowledged. [ ✓ ]
5. Subcontractors are named as indicated in the Bid. [ ✓ ]
6. Experience record included. [ ✓ ]
7. Bid signed by authorized officer and notarized. [ ✓ ]
8. Bid Bond completed and executed, including power-of-attorney dated the same date as Bid Bond. [ ✓ ]
9. Bidder familiar with federal, state, and local laws, ordinances, rules and regulations affecting performance of the work. [ ✓ ]
10. Bidder, if successful, able to obtain and/or demonstrate possession of required licenses and certificates within (10) ten calendar days after receiving a Notice of Award. [ ✓ ]
11. BID submitted intact with the volume entitled "Bidding Requirements" and "Contract Forms", 1 original, and 2 flash drives as stated in the invitation to bid. [ ✓ ]
12. Bid Documents submitted in sealed envelope and addressed and labeled in conformance with the instructions in the Invitation to Bid. [ ✓ ]

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

## ACKNOWLEDGMENT

State of California  
County of Santa Cruz )

On December 12, 2018 before me, Maria Gomez, Notary Public  
(insert name and title of the officer)

personally appeared Isabel Barron,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.



Signature *Maria Gomez* (Seal)  
Maria Gomez, Notary Public



**POWER OF ATTORNEY**

**Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company**

Attorney-In-Fact No. **232494**

**KNOW ALL MEN BY THESE PRESENTS:** That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Isabel Barron**, of the City of **Watsonville**, State of **California**, their true and lawful Attorney-In-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

*This Power of Attorney is limited to bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof for Granite Construction Incorporated and all subsidiaries and affiliates, alone or in joint venture.*

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this **3rd** day of **February**, 2017.

**Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company**



State of Connecticut

City of Hartford ss.

By:

  
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

**In Witness Whereof**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2021



  
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is


**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which will remain in full force and effect through December 31, 2018.

Bond Executed on December 12, 2018



Kevin E. Hughes, Assistant Secretary



**To verify the authenticity of this Power of Attorney, call 1-800-421-3880 to contact us. Please refer to the Attorney-In-Fact number, the above-named individual and the details of the bond to which the power is attached.**



# FLORIDA DEPARTMENT OF FINANCIAL SERVICES

**MARGARET ANN GINEM**

**License Number : P121741**

## Resident Insurance License

• 0220 - GENERAL LINES (PROP & CAS)

## Issue Date

11/15/2012

### Please Note:

A licensee may only transact insurance with an active appointment by an eligible insurer or employer. If you are acting as a surplus lines agent, public adjuster, or reinsurance intermediary manager/broker, you should have an appointment recorded in your own name on file with the Department. If you are unsure of your license status you should contact the Florida Department of Financial Services immediately. This license will expire if more than 48 months elapse without an appointment for each class of insurance listed. If such expiration occurs, the individual will be required to re-qualify as a first-time applicant. If this license was obtained by passing a licensure examination offered by the Florida Department of Financial Services, the licensee is required to comply with continuing education requirements contained in 626.2815 or 648.385, Florida Statutes. A licensee may track their continuing education requirements completed or needed in their MyProfile account at <https://dife.fdfs.com>. To validate the accuracy of this license you may review the individual license record under "Licensee Search" on the Florida Department of Financial Services website at <http://www.MyFloridaCFO.com/Division/Agents>



Jimmy Patronis  
Chief Financial Officer  
State of Florida



# LICENSES

LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)



A GRANITE COMPANY

**STATE OF FLORIDA**  
**WATER WELL CONTRACTOR LICENSE**  
Issued under the provisions of Chapter 373, Florida Statutes

To

**Robert Baker, Jr.**

by the  
NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

License No **3041** Expires **07/31/2019**



EXECUTIVE DIRECTOR



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**CONSTRUCTION INDUSTRY LICENSING BOARD**

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE  
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

**SHEMWELL, KEVIN DUANE**

LAYNE CHRISTENSEN COMPANY  
1800 HUGHES LANDING BLVD  
THE WOODLANDS TX 77380

**LICENSE NUMBER: CGC1523303**

**EXPIRATION DATE: AUGUST 31, 2020**

Always verify licenses online at [MyFloridaLicense.com](http://MyFloridaLicense.com)



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



# EQUIPMENT

Layne has million of machinery and equipment, the specific pieces of equipment to be utilized for any particular project are based upon availability at the time a notice to proceed is issued. Please see the attached Specifications and Data Sheets describing some of our equipment.

PROPOSAL BY:  
LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)





## ***GEOPHYSICAL LOGGING SERVICES***

***Layne's Geophysical Logging personnel have been involved in nearly every injection well completion in Florida since 1998. With over 20 years experience in open and cased hole engineering, Layne personnel are capable of meeting all injection well completion needs and more.***



### ***ARTEX 2012 Model 6400 Wireline Unit with Kenworth Chassis***

- Shooting Panel for Perforating Capability
- Model 950 Split Drum
- 16,000' of 3/8" - 7 conductor Rochester Cable
- 7,000' of 3/8" Coax Video Cable
- Hydraulic Winch System
- 15KW Hydraulic Generator
- Warrior Logging System utilized for Acquisition of most Logs
- Matrix Logging System utilized for Acquisition of TelevIEWer
- Aries CCV Surface Equipment utilized for Video

***All logging tools and acquisition systems are state of the art instruments built in 2011-2012***

#### **VIDEO CAPABILITIES:**

##### ***High Resolution Video Log***

- Aries CCV surface equipment with on-screen footage display  
& 2 DVD recorders

#### **CASED HOLE LOGGING CAPABILITIES:**

##### ***Radioactive Tracer Survey***

- State of Florida Radioactive materials license (I-131 Solution)

##### ***Cement Bond Log***

##### ***Collar Log***

##### ***Temperature Log***

##### ***Casing Inspection Log***

#### **OPEN HOLE LOGGING CAPABILITIES:**

##### ***X-Y Caliper Log***

##### ***Gamma Ray Log***

##### ***Dual Induction/LL3 with SP Log***

##### ***Borehole Compensated Sonic Log***

##### ***Fluid Conductivity/Temperature/ Flowmeter***

##### ***Acoustic TelevIEWer Log***

##### ***Fluid Sample Capability***





A GRANITE COMPANY

## CEMENTING SERVICES



**RHOSONICS** - Model 9690 Ultrasonic Density Analyzer  
- Nonnuclear

**HALLIBUTRON** - Model MC-II Flow Analyzer  
- accurate Flow Measurements with Totalizer

**CLARKSON C VALVE** - squeeze valve for precise mixing

**COOLPOINT** - vortex shedding flowmeter  
- accurate measure of mix water



8BBL mixing tank

2 x 10BBL chase tanks

Auxiliary Mixing Hopper on back deck  
- facilitates custom blending while pumping

5" Intake to make up to all Layne Cement Silos  
- 1700 ft<sup>3</sup> and 2200 ft<sup>3</sup> silos available for storing bulk cement on the job site

All Tanks and piping Stainless Steel, Galvanized trailer



**CATERPILLAR ENGINES** - twin C9, 300hp each  
- Tier III Emissions Certified

**ALLISON** HT740 transmission

**NOV** JWS340 Triplex downhole pump  
- 10,000psi and up to 7bbl per minute

**DOUBLE LIFE** 250 mixing pumps  
- dry mechanical seals

Leading the Injection Well Industry with modern, mix on the fly cementing technology and are also capable of providing custom cement blends in dry bulk.

LCC Ultratite and LCC Ultratite Sulfate Resistant cement blends available for acidic and/or CO<sub>2</sub> environments and are preapproved by Florida Department of Environmental Protection.



# RESUMES

LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
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FX: 239.275.1025  
[www.layne.com](http://www.layne.com)







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## David A. Tormoehlen

General Manager, Injection Well Operations

### Experience

General Manager	Layne Christensen, Ft. Myers, FL	(2018 – Present)	<b>Areas of Specialized Competence</b>
Regional Manager	Hydro Resources, Reno, NV	(2014 – 2017)	
Vice President	Layne Christensen, South East US	(2012 – 2014)	
General Manager	Layne Christensen, Denver, CO	(1990 -- 2012)	
Operations Manager	Layne Christensen, Denver, CO	(1987 – 1990)	
Field Superintendent	Layne Christensen, St. Louis, MO	(1984 – 1987)	
Field Operations	Layne Christensen, St. Louis, MO	(1977 -- 1984)	Specialized Drilling Contractor

### Education

▪ Master of Science-Organization Leadership and Management	Regis University, Denver, Colorado	Operations Management
▪ Bachelor of Science-Business Admin.	University of Phoenix, Denver Campus, Colorado	Project & Contract Administration
▪ Graduate Level Academic Certificate, Executive Leadership	Regis University, Denver, Colorado	

### Licenses & Certifications

▪ State of Colorado Water Well Drilling Contractor	Well Design & Repair
▪ State of Colorado Pump Installation Contractor	
▪ State of California Water Well Drilling Contractor	Pump Design & Repair
▪ State of Nevada Water Well Drilling Contractor	
▪ State of Nevada Exploration and O&G Drilling Contractor	
▪ American Red Cross First Aid & CPR	Well Testing & Rehabilitation
▪ OSHA 10 Hour	
▪ MSHA	
▪ Forklift	
▪ Machine Shop	
▪ Accident Prevention & HIRA	

### Representative Projects

Over 30 years of drilling operations experience, including all facets of well construction, well maintenance and repair projects. Over 40 years of specialized construction and management experience throughout the Western, Rocky Mountain, South Eastern and Midwest areas of the United States. Projects spanned Public/Private Water, Mining, Environmental, Water and Energy sectors.

Broad business experience leading and developing organizations, examining new markets and opportunities, business development, developing and implementing operating standards, monitoring key performance indicators, deal transaction oversight, and streamlining operations.

### Responsibilities

Daily direction and leadership of the Injection Well group: responsible for growth strategies, developing and implementing client-focused solutions.



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# Miguel Martinez

## Project Manager, Injection Well Operations

### Experience

Project Manager	Layne Christensen Company	(2016 - Present)
Drilling Optimization Supervisor	National Oilwell Varco	(2013 – 2016)
Chief Geophysical Logging Engineer	Youngquist Brothers Inc	(2011 to 2013)
Sr. LWD/ Directional Driller Engineer	Weatherford Directional Services	(2007 to 2011)
Sr. Logging While Drilling Engineer	Schlumberger Limited	(2004 to 2007)

### Areas of Specialized Competence

### Education

- Associate of Applied Science, ITT Technical Institute Miami, FL

### Licenses/Certifications

- SafeLand/ Safe Gulf Certified
- HUET Certified
- OPECO Assessor Certification

### Representative Water Resource Projects

**10 years of Oilwell drilling experience, including well bore directional control, logging while drilling and drilling optimization specializing in nuclear logging tool, high telemetry tools, BHA analysis, vibration mitigation, and project management.**

**2+ years of experience in Injection Well Geophysical logging, including MITS, open and cased hole logging, Perforating and pipe recovery in Oil and Injection wells.**

- Over 30 MITS in the state of Florida (RTS test)
- 8 different Injections Well construction projects as a Geophysical Logging Engineer
- Multiple Water production well construction projects as a Geophysical Logging Engineer

### Responsibilities

Construction Management, Bid Preparation, Job Costing, Permitting, Purchasing, Subcontractor Oversight, Scheduling, Site Layout, Wellhead Design, Shop Drawings, Submittals, Pay Requests, Final Walkthroughs and Punch-list Completions

- Construction Management
- Bid Preparation
- Subcontractor Oversight
- Job Costing
- Procurement
- Geophysical Logging
- Drilling Optimization
- Personnel Management



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# John Cathey

Geophysical Logging Services, Injection Well Operations

## Experience

Geophysical Logging Manager	Layne Christensen Company	(2011 – Present)
Geophysical Logging Manager	Youngquist Brothers, Inc.	(2007-2011)
Geophysical Logging Supervisor	Youngquist Brothers, Inc.	(2002-2011)
Cased Hole Operator/Engineer	American Cased Hole Specialists	(1995 – 2002)

## Areas of Specialized Competence

Geophysical Well Logging

Cased Hole Engineering

Operations

Scheduling

## Education

- Broward County Fire Academy Davie, FL
- Florida Atlantic University Boca Raton, FL,
- Southwestern Oklahoma University Weatherford, OK

## Training

- First Aid/CPR
- 24 Hour Radiation Safety Course For Well Loggers
- Explosives /User Training
- Pressure Control Training

## Representative Projects

*Background in cased hole logging and perforating in Oklahoma.*

*Florida Deep Well experience began in 2002. Involved in nearly every injection well completion in South Florida 2006 - 2010. Worked with engineers and FDEP to improve MIT procedures and protocol for geophysical logging.*

## Responsibilities

Current responsibilities include *oversight and scheduling of Geophysical Logging operations.*

Previous responsibilities included all areas of *geophysical well logging on multiple UIC injection well projects in South Florida.* Developed a working relationship with FDEP on multiple *Mechanical Integrity Tests* performed in South Florida between 2003 and 2010. *Coordinated Radioactive Tracer Surveys* with engineers, city and state officials as well as other completion activities such as Injection Tests.



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# Craig Brugger

## Project Manager, Injection Well Operations

### Experience

Project Manager

Layne Christensen Company  
Youngquist Brothers, Inc.  
Youngquist Brothers, Inc.  
J & M Pump Service, Inc.

(2009 – Present)  
(1999-2000)  
(2002-2009)  
(1992 – 1999)

**Areas of  
Specialized  
Competence**

### Education

- Hialeah High School

Hialeah, FL

Construction  
Management

### Licenses

- State of Florida Certified Building Contractor

Wellhead  
Design

### Representative Projects

***Over twenty years of progressive construction project management experience including eleven years overseeing the construction of injection well systems Specializes in site preparations and system completions.*** Manages installation of temporary utilities and containment pads, cuttings disposal plans and emplacement of equipment on site to facilitate well construction Supervises construction of permanent wellheads, piping, annular pressure systems, electrical work, structural concrete, roadways and drainage. Oversees instrumentation and controls subcontractors. Representative Florida DEP Class I UIC injection well projects completed include

- *TEC Polk Power Station (1 IW + 1 DZMW),*
- *Charlotte County – Burnt Store (1 IW),*
- *Fort Pierce Utility Authority (2 IWs + 1 DZMW),*
- *City of Key West (2 IWs),*
- *Palm Bay (1 IW + 1 DZMW),*
- *Tropical Farms (2 IWs + 1 DZMW)*
- *Lee County – Pinewoods (1 IW + 1 DZMW).*

Bid Preparation

Subcontractor  
Oversight

### Responsibilities

Construction Management, Bid Preparation, Job Costing, Permitting, Purchasing, Subcontractor Oversight, Scheduling, Site Layout, Wellhead Design, Shop Drawings, Submittals, Pay Requests, Final Walkthroughs and Punch-list Completions.



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## Luis F. Morey

Geophysical Logging Services, Injection Well Operations

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### Experience

Geophysical Logging Engineer	Layne Christensen Company	(2015 – Present)
Casedhole Wireline Operator	Nine Energy Services Inc.	(2014-2015)
Geophysical Logging Operator/Engineer	Youngquist Brothers, Inc.	(2007-2013)
Scalehouse Operator	Youngquist Brothers Rock	(2006 – 2007)

### Areas of Specialized Competence

Geophysical Well Logging

Operations

Equipment Operations

Jobsite Management

### Education

- Associates degree in Microsoft Network Southwest Florida College,
- Engineering and Data Base Administration Fort Myers, FL( 2003-2006)

### Training

- 24 Hour Radiation Safety Course For Well Loggers
- OSHA 10 Hour Construction

### Representative Projects

*Assisted or managed MIT Logging operations for Class 1 injection well MIT Projects*

*Florida Deep Well experience began in 2007. Trained on the job to become familiar with all phases of well logging.*

### Responsibilities

Current responsibilities include *Wireline Operations and Well Logging. Project management onsite during well logging operations.*

Previous responsibilities included all areas of *geophysical well logging on multiple UIC injection well projects in South Florida.*



WATER · MINERAL · ENERGY

## David Bauer

Non-Drilling Operations Manager, Injection Well Operations

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### Experience

Non-Drilling Operations Manager	Layne Christensen Company	(2015 – Present)
R&I Pump Superintendent	Layne Christensen Company	(2012-2015)
Well and Pump Superintendent	Well Masters Inc.	(2010-2012)
Senior Pump Tech	Diversified Drilling	(2007-2010)
Well and Pump Tech	Greiner Well Service and Drilling	(1975-2007)

### Areas of Specialized Competence

Well and pump rehabilitation

Well pump maintenance

Trouble shooting well problems

Mechanical Integrity Testing on Wells

### Education

- William Henry Harrison High School
- Many years of Water Well Association Work Shops

### Licenses Held

- NCCA Certified Crane Operator
- Class A CDL with tanker endorsement

### Current Safety Certifications

- OSHA 10
- First Aid
- CPR
- Backhoe Safety
- Safe Driver Training
- Respirator and Fit Test
- Rigging Safety
- Forklift Safety

### Representative Projects

*Over 35 years in the well and pump business, starting as a laborer and working up to field superintendent, and finally operations manager for non-drilling projects. Duties included all aspects of well and pump installation, service, maintenance, and rehabilitation.*

- *Mechanical integrity testing on wells.*

### Responsibilities

Oversee daily operations of R&I crews, see all material is available for job and crews understand scope of work and responsibilities to safely and efficiently complete work. Communicate with customers about their needs, and how we can help them.



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JUAN NIETO

Foreman, R&I Pump, Injection Well Operations

### Experience

Foreman- - R &I Pump	Layne Christensen Comp.	(2015-present)
R & Pump Tech	Layne Christensen Com.	(2012-2015)
Derrick Hand	Layne Christensen Co.	(2010-2012)
Derrick Hand	Youngquist Brothers	(2006-2012)
Driller Versa Drill Rig	Youngquist Brothers	(2005-2006)
Farm Tech	University of Florida	(1996-2006)
Mechanic	U.S. ARMY	(1992-1995)

### Education

- Immokalee High School
- U.S. ARMY

### Licenses Held

- Class A CDL

### Current Safety Certifications

- OSHA 10
- First Aid
- CPR
- Backhoe Safety
- Safe Driver Training
- Respirator and Fit Test
- Rigging Safety
- Forklift Safety

### Representative Projects

*Have over 10 years in deep injection wells procedures. Started as a floor hand moved up to a derrick hand then moved over to repair and installation pumps. Started as a field tech on the R&I pump crew and now currently am a foreman on the crew.*

### Responsibilities

Oversee all procedures and operations with R&I crew. Ensure all supplies with all tools and required parts are ready so the job runs smoothly with no down time. Supply all personal with proper safety equipment required by policy. Ensure all follow safe working operations per company and OSHA policy. Lead a 3 man crew through all R&I, time sheets, JSA, daily safety meetings and operations to be performed daily.

### Areas of Specialized Competence

Well and pump rehabilitation

Well pump maintenance

Trouble shooting well problems

Mechanical Integrity Testing on Wells

Submersible pump installation



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# Joshua Brown

## Drilling Superintendent / Cementer, Injection Well Operations

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### Experience

Drilling Superintendent	Layne Christensen Company	(2016-Present)
Cementer/Relief Superintendent	Layne Christensen Company	(2010-2016)
Cementer	All Webbs Enterprises	(2009-2010)
Cementer/MIT Supervisor	Youngquist Brothers, Inc.	(2005-2007)
Cementer	Youngquist Brothers, Inc.	(2002-2009)
Site Prep/Floor Hand/Derrick Hand	Youngquist Brothers, Inc.	(2000-2002)

**Areas of  
Specialized  
Competence**

### Education

- Cape Coral High School Cape Coral, FL

Drilling  
Management  
and Operations

### Certifications

- 2011-30-Hour Occupational Safety and Health Training course in Construction Safety and Health
- 2011 - 24 Hour Hazardous Waste Operations and Emergency Response Standard (HAZWOPER)
- 2016 – 8 Hour Hazardous Waste Operations and Emergency Response Supervisor and Refresher
- Layne-Christensen Certification to run loaders, forklifts and track hoe
- First Responder and CPR
- Class B CDL

Safety  
Operations

### Responsibilities

- Supervise daily drilling operations
- Supervise acid operations
- Operate and maintain the cementing unit, silos, and bulk haulers
- Calculate the amount cement, water, and bentonite used during a cement stage
- Calculate differential pressure and annular volume of casing
- Supervise and preform jobs such as plug and abandon, pilot hole plug back, pressure grout, and trimie grout
- Operate frontend loaders and excavators
- Ensure that safety policies and procedures are used and enforced
- Effectively communicate with engineers and client to ensure project needs are satisfied





# Jay Swartzentruber

## Drilling Superintendent, Injection Well Operations

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### Experience

Drilling Superintendent	Layne Christensen Company	(2011 – Present)
Drilling Superintendent	All Webs Enterprises, Inc.	(2008-2011)
Drilling Superintendent	Youngquist Brothers, Inc.	(1992-2008)
Tool Pusher	Peek & Rowan Drilling	(1984-1992)
Driller	G & H Drilling	(1979-1984)

### Areas of Specialized Competence

### Representative Projects

***Thirty years experience in the drilling industry, 16 years with Youngquist Brothers specializing in Class I UIC deep injection wells.***

***14 years with G&H Drilling. Peek & Rowan Drilling specializing in oil and Gas Industry.***

Recent projects include *TEC Polk Power (1 IW + 1 DZMW)*. Projects recently completed for previous employer include:

- 2010: Sarasota County – *Venice Gardens (1 IW + 2 MWs)*
- 2009: Sarasota County – *Center Road (IW Duplex Steel Liner)*
- Miami-Dade *(1 DZMW)*
- PBC *Solid Waste Authority (IW Liner)*
- 800 + wells in Oil and Gas Industry

**\*\*\*Additional project information available upon request\*\*\*.**

### Responsibilities

- Drilling Supervision
- Project Management
- Site Safety
- Rig Mobilization and Demobilization
- Mud Management
- Lost Circulation Remedies
- Installation of Casings
- Cementing
- Deviation Surveys
- Daily Drilling Logs
- Packer Testing
- Coring
- Reverse Air Drilling
- Mud Rotary
- Drilling
- Pump Testing
- Injectivity Testing

- Project Management
- Lost Circulation Remedies
- Drilling Supervision
- MIT Testing
- Directional Drilling
- BOP and Well Control



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## Doug Johnston CHST, CET Regional Safety Specialist II

### Experience

Regional Safety Specialist II	Layne Christensen Company	(2016 - Present)
Safety Specialist II	Alliant Energy- LGS	(2013 - 2016)
Owner/President	Frontline Safety Solutions, LLC	(2010 - 2013)
Outreach OSHA Instructor	Kirkwood Community College (OTI)	(2010 - 2013)
Site Safety Director	ADM-Bowker Mechanical	(2008 - 2013)

### Areas of Specialized Competence

### Education

- Local 125 Plumbers & Pipefitters Apprenticeship Cedar Rapids, Iowa

### Licenses/Certifications

- Construction Health & Safety Technician (CHST)
- Certified Environmental, Safety & Health Trainer (CET)
- OSHA Authorized Instructor Construction & General Industry (502 & 503)
- Safe Start Certified Instructor

Construction Safety  
Safety and Health Management  
OSHA Trainer  
Fall Protection Competent Person  
Machine Guarding Procedures  
Safe Start Instructor

### Representative Safety Projects

29 years of Safety and Construction/General Industry experience. Experienced Safety Professional in the Supervision, training, qualification, and professional development of management and craft personnel. 10+ years in development and implementation of proactive Safety cultures in a wide array of projects from Nuclear Plants, Hospitals as well as Generating Facilities.

- Qualified Rigger 1 & Qualified Signal Person Instructor
- Fall Protection Competent Inspector-Capital Safety
- Developed curriculum for OSHA Training for Train the Trainer Courses, Employee Training as well as Credit Students
- Sought out by Corporate Safety to develop Policies and Procedures
- Expert Witness in Workman's Comp Legal proceedings- Cedar Rapids, Iowa

### Responsibilities

Drive Safety Culture by developing and implementing a proactive Culture where employees are highly engaged. Collaborate with Corporate Safety to develop and implement Safety Training and Compliance Material. Provide Safety expertise for both Employees, as well as Management.



# INSURANCE CERTIFICATE

PROPOSAL BY:  
LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)





**SUPPLEMENT TO CERTIFICATE OF INSURANCE**

**DATE**  
09/18/2018

**NAME OF INSURED:** Layne Christensen Company



# CERTIFICATE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY)  
08/01/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

<b>PRODUCER</b> Aon Risk Insurance Services West, Inc. San Francisco CA Office 425 Market Street Suite 2800 San Francisco CA 94105 USA	<b>CONTACT NAME:</b> PHONE (A/C. No. Ext): (866) 283-7122      FAX (A/C. No.): (800) 363-0105 E-MAIL ADDRESS: PRODUCER CUSTOMER ID #: 570000040151																					
	<table border="1"> <thead> <tr> <th colspan="2">INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A:</td> <td>Zurich American Ins Co</td> <td>16535</td> </tr> <tr> <td>INSURER B:</td> <td></td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE		NAIC #	INSURER A:	Zurich American Ins Co	16535	INSURER B:			INSURER C:			INSURER D:			INSURER E:			INSURER F:	
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INSURER C:																						
INSURER D:																						
INSURER E:																						
INSURER F:																						
<b>INSURED</b> Layne Christensen Company P O Box 50085 Watsonville CA 95076-5123 USA																						

Holder Identifier :

**COVERAGES**      **CERTIFICATE NUMBER:** 570072522958      **REVISION NUMBER:**

LOCATION OF PREMISES/ DESCRIPTION OF PROPERTY (Attach ACORD 101, Additional Remarks Schedule, if more space is required)  
FOR BIDDING AND PREQUALIFICATION ONLY

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	COVERED PROPERTY	LIMITS
	<input type="checkbox"/> PROPERTY <input type="checkbox"/> CAUSES OF LOSS <input type="checkbox"/> DEDUCTIBLES <input type="checkbox"/> BASIC BUILDING <input type="checkbox"/> BROAD CONTENTS <input type="checkbox"/> SPECIAL <input type="checkbox"/> EARTHQUAKE <input type="checkbox"/> WIND <input type="checkbox"/> FLOOD				BUILDING PERSONAL PROPERTY BUSINESS INCOME EXTRA EXPENSE RENTAL VALUE BLANKET BUILDING BLANKET PERS PROP BLANKET BLDG & PP	
A	<input checked="" type="checkbox"/> INLAND MARINE <input type="checkbox"/> CAUSES OF LOSS <input type="checkbox"/> NAMED PERILS <input checked="" type="checkbox"/> Direct Physical Loss	<b>TYPE OF POLICY</b> Builders Risk  <b>POLICY NUMBER</b> MBR 5371199-08 Master Bldrs Risk for Cer	08/01/2018	08/01/2020	<input checked="" type="checkbox"/> Reporting Form- Any <input checked="" type="checkbox"/> Earthquake Limit <input checked="" type="checkbox"/> Flood Limit	SEE BELOW SEE BELOW SEE BELOW
	<input type="checkbox"/> CRIME <input type="checkbox"/> TYPE OF POLICY					
	<input type="checkbox"/> BOILER & MACHINERY / EQUIPMENT BREAKDOWN					

CERTIFICATE NUMBER: 570072522958

SPECIAL CONDITIONS / OTHER COVERAGES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
JOB#      JOB NAME: BIDDING AND PREQUALIFICATION  
LIMITS OF LIABILITY: 100% OF CONTRACT VALUE ANY ONE OCCURRENCE OR TO BE DETERMINED BY CATASTROPHE ZONE PER POLICY TERMS AND CONDITIONS DIRECT PHYSICAL LOSS REPLACEMENT COST DEDUCTIBLES FOR EARTHQUAKE, FLOOD, NAMED STORMS AND ALL OTHER PERILS TO BE

<b>CERTIFICATE HOLDER</b>  FOR INFORMATION ONLY 585 West Beach Street Watsonville CA 95076 USA	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE 
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AGENCY CUSTOMER ID: 570000040151

LOC #:

# ADDITIONAL REMARKS SCHEDULE

Page \_ of \_

<b>AGENCY</b> Aon Risk Insurance Services West, Inc.		<b>NAMED INSURED</b> Layne Christensen Company	
<b>POLICY NUMBER</b> See Certificate Number: 570072522958			
<b>CARRIER</b> See Certificate Number: 570072522958	<b>NAIC CODE</b>	<b>EFFECTIVE DATE:</b>	

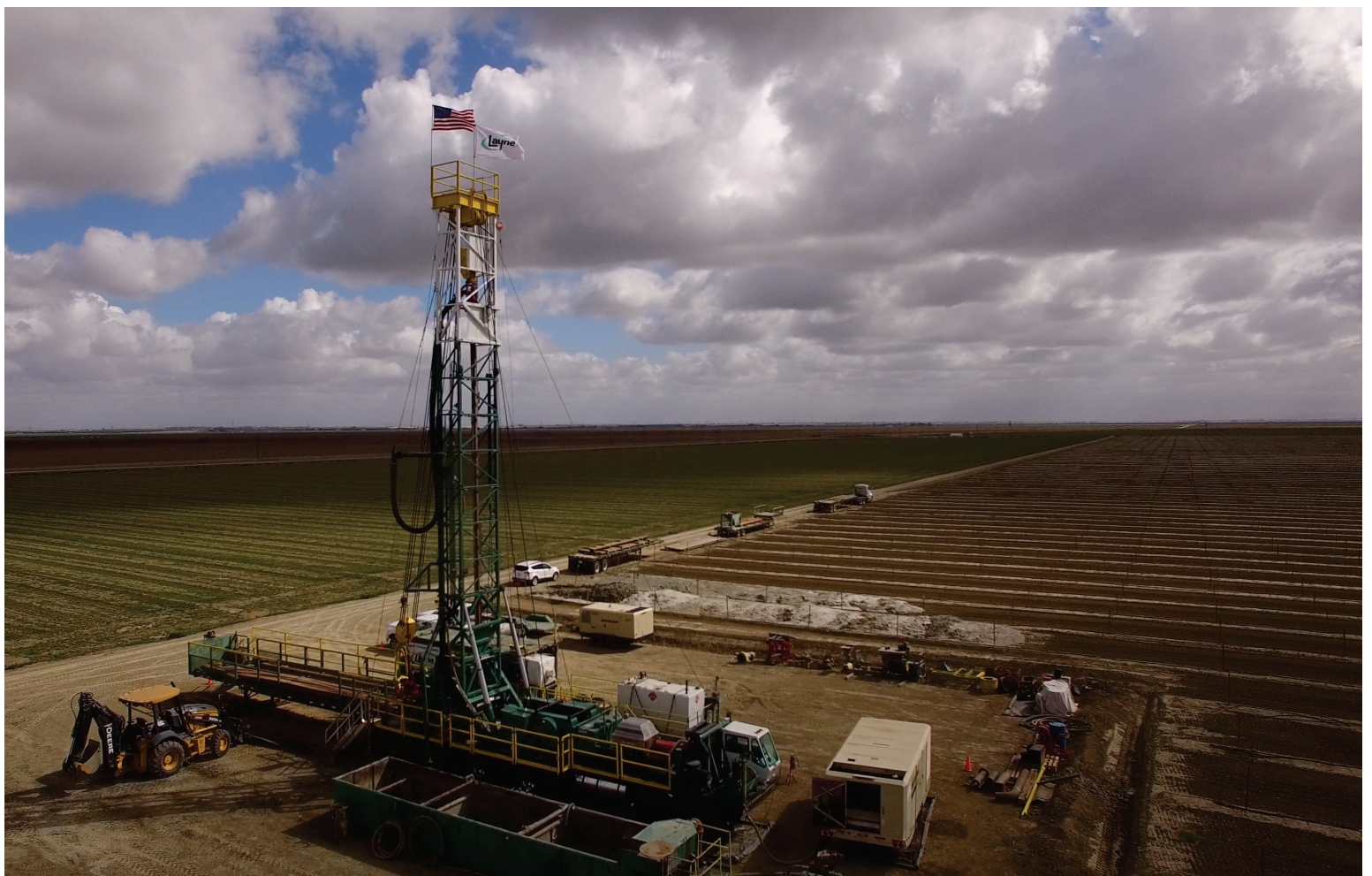
### ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**  
**FORM NUMBER: ACORD 24    FORM TITLE: Certificate of Property Insurance**

LOCATION OF PREMISES / DESCRIPTION OF PROPERTY

**SPECIAL CONDITIONS / OTHER COVERAGES**

**DETERMINED BY CASTASTROPHE ZONE**  
**OWNER AND CONTRACTORS OF EVERY TIER ARE INCLUDED AS AN ADDITIONAL NAMED INSURED PER THE ATTACHED ENDORSEMENTS**



# EXPERIENCE

LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)



A GRANITE COMPANY





## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
SCWRF IW-1	August 2018	Collier County Zamira Del Toro Project Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-6279 Fax: 239-252-5378 Email: zamiradeloro@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	24" 2,590'	N/A	N/A	3,000'	P
Southwest & Northeast WRF 8 Wells	July 2018	City of St. Petersburg Ralph Craig, Hydrogeologist 1635 Third Avenue North St. Petersburg, FL 33713 Phone: 727-892-5669 Fax: 727-823-9152 Email: Ralph.Craig@stpete.org	ASRUS Pete Larkin, P.G., Vice President 13329 N. Armenia Avenue Tampa, FL 33613 Phone: 813-382-8516 Email: plarkin@asrus.net	24" 950'	N/A	N/A	1,110'	RTS
Southwest Cape Coral WRF- IW -1	June 2018	Gina Lanzilotta, Senior Buyer Financial Services/Procurement City of Cape Coral PO Box 150027 Cape Coral FL 33915-0027 Phone: 239-574-0834 Fax: 239-574-0837 Email: glanzilo@capecoral.net	Stantec Ms. Anamaria Sarmiento 2600 Douglass Road, Suite 600 Coral Gables, FL 33134 Direct: 786 313-5508 Mobile: 954 599-1561 anamaria.sarmiento@stantec.com	24" 2950'	18" FRP 2940'	C	3020'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Burnt Store IW-2	May 2018	Charlotte County Kathleen Lindback, Contract Specialist 18500 Murdock Circle Port Charlotte, FL 33948 Phone: 941-743-1376 Fax: 941-743-1384 E-mail: kathy.lindback@charlottecountyfl.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	24" 2503"	18" FRP 2492'	C	3000'	P
NCWRF IW-1	March 2018	Collier County Zamira Del Toro Project Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-6279 Fax: 239-252-5378 Email: zamiradeloro@colliergov.net	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	24" 2,575'	N/A	N/A	3,250'	P
West County Energy Center IW-1	March 2018	Florida Power & Light Matthew Wetmore, PGD Env. Leader West County Energy Center 20505 State Road 80 Loxahatchee, FL 33470 Phone: 561-904-4907 E-mail: Matthew_Wetmore@FPL.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	20" 2,778'	16" FRP 2,778'	F	3,411'	A
West County Energy Center IW-2	March 2018	Florida Power & Light Matthew Wetmore, PGD Env. Leader West County Energy Center 20505 State Road 80 Loxahatchee, FL 33470 Phone: 561-904-4907 E-mail: Matthew_Wetmore@FPL.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	20" 2,720'	16" FRP 2,720'	F	3,250'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
NCWRF IW-2	January 2018	Collier County Zamira Del Toro Project Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-6279 Fax: 239-252-5378 Email: zamiradeltoro@colliergov.net	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	24" 2,582'	N/A	N/A	3,250'	P
Sole Mia Biscayne Landing IW-2	December 2017	Sole Mia SCS Engineers Biscayne Landing 2200 Northeast 143 St. North Miami, FL Phone: 305-412-8185 E-mail: kramirez@scsengineers.com	SCS Engineering Kevin Ramirez 7700 Kendall Drive Suite 300 Miami, FL 33156 Phone: 305-412-8185 Fax: 305-412-8105 Email: kramirez@scsengineers.com	16" 2,520'	11.75" FRP 2,505'	F	3,250'	A
NCRWTP Vanderbilt IW-1	October 2017	Collier County Howard Brogdon, Plant Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5252 Fax: 239-252-6450 Email: HowardBrogdon@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	20" 2,497'	16" FRP 2,375'	C	3,330'	P
Plant Smith IW-1	August 2017	Gulf Power Company Richard M. Markey, Super. of Water One Energy Place Pensacola, FL 32520 Phone: 850-444-6573 Fax: 850-444-6217 Email: rmmarkey@southernco.com	CH2M HILL Jeffrey D. Lehnen, P.G. 3011 SW Williston Road Gainesville, FL 32608 Phone: 352-335-5877 Fax: 352-335-2959 Email: jeff.lehnen@ch2m.com	9-5/8" 4,870'	6" FRP 1,180'	F	7,058'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
RO Plant North Plant IW -2	July 2017	Glenn Lanzillo, Senior Buyer, Materials Services/Procurement City of Cape Coral PO Box 150027 Cape Coral FL 33915-0027 Phone: 239-574-0834 Fax: 239-574-0837 Email: glanzilo@capecoral.net	Water Science Associates Andrew McThenia P.G. 13620 Metro Ave. Suite 110 Ft. Myers, FL. 33912 Phone: 239-246-1972 andy@wsaconsult.com	22" 2062'	16" FRP 2048'	C	3000'	P
North Lee WTP IW-1	June 2017	Lee County Utilities Rand Edelstein, P.G. 2115 Second Street Fort Myers, FL 33901 Phone: 239-533-8164 Fax: 239-267-7997 Email: REdelstein@leegov.com	Johnson Engineering, Inc. Lonnie Howard, President 2122 Johnson Street Fort Myers, FL 33901 Phone: 239-334-0046 Fax: 239-334-3661 Email: LVH@johnsoneng.com	20" 2,585'	12" FRP 2,580'	C	2950'	P
Turkey Point IW-1	May 2017	Florida Power and Light Company Joseph Fazio, P.E., Proj. Eng. P.O. Box 14000 Juno Beach, FL 33408 Phone: 561-691-2451 Fax: 561-694-3360 Email: joseph.fazio@fpl.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	24" 2,985'	18" FRP 2,975'	F	3,230'	A
Zemel Road Landfill IW-1	March 2017	Charlotte County Public Works Solid Waste Division 25550 Harbor View Road Unit 2 Port Charlotte, FL 33980 Phone: 941-764-4360	Johnson Engineering, Inc. Lonnie Howard, President 2122 Johnson Street Fort Myers, FL 33901 Phone: 239-334-0046 Fax: 239-334-3661 Email: LVH@johnsoneng.com	12" 2,486'	8" FRP 2,466'	F	2710'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Palm Bay N.Regional WWTP IW -1	September 2016	City of Palm Bay Susan Blair, CPPB, FCCM 120 Malabar Road SE Palm Bay, FL 32907 Phone: 321-952-3424 Fax: 321-952-3401 Email: susan.blair@pbfl.org	Wade Trim Christopher Little P.E. 3790 Dixie Highway NE, Suite D Palm Bay, FL 32905 Phone: 321-728-3389 Fax: 321-728-3393 Email: Clittle@WadeTrim.com	20" 2,053'	N/A	N/A	3005'	P
South Collier WTP IW -2	August 2016	Collier County Alica Abbot 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5344 Fax: 239-252-6450 Email: AlicaAbbott@colliergov.net	WSP- Parsons Brinckerhoff Wm. Scott Manahan, P.E., Operations Manager 1567 Hayley Lane, Suite 202 Fort Myers, FL 33907 Phone: 239-481-6494 Fax: 239-481-6393 Email: scott.manahan@pbworld.com	24" 2,550'	16" FRP 2,549'	C	3,200'	P
South Collier WTP IW -1	August 2016	Collier County Alica Abbot 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5344 Fax: 239-252-6450 Email: AlicaAbbott@colliergov.net	WSP- Parsons Brinckerhoff Wm. Scott Manahan, P.E., Operations Manager 1567 Hayley Lane, Suite 202 Fort Myers, FL 33907 Phone: 239-481-6494 Fax: 239-481-6393 Email: scott.manahan@pbworld.com	24" 2,278'	16" FRP 2,125'	C	3,200'	P
Polk Power IW-2	June 2016	Tampa Electric Company Catherine Magliocco, P.E., Proj. Mgr. P.O. Box 111 Tampa, FL 33601 Phone: 813-228-1346 Fax: 813-228-1560 Email: camagliocco@tecoenergy.com	HydroGeo Consulting, LLC Michael Weatherby, P.G. 11307 Hoot Owl Ct. Riverview, FL 33569 Phone: 813-643-1737 Email: michaelweatherby2015@gmail.com	18" 4,215'	10-3/4" FRP 4,228'	C	8,000'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Polk Power IW-1	June 2016	Tampa Electric Company Catherine Magliocco, P.E., Proj. Mgr. P.O. Box 111 Tampa, FL 33601 Phone: 813-228-1346 Fax: 813-228-1560 Email: camagliocco@tecoenergy.com	HydroGeo Consulting, LLC Michael Weatherby, P.G. 11307 Hoot Owl Ct. Riverview, FL 33569 Phone: 813-643-1737 Email: michaelweatherby2015@gmail.com	18" 4,210'	10-3/4" FRP 4,220'	C	8,000'	P
Lee/Hendry SWD Facility IW-1	May 2016	Lee/Hendry SWD Facility Michael W. LeBlanc S.E.P. 5500 Church Road Felda, FL 33930 Phone: 239-369-7831 Fax: 239-368-6912 Email: MLeBlanc@leegov.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	12" 2,396'	6.96" FRP 2,391'	F	3,066'	A
NRWWTP IW-8	February 2016	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,585'	N/A	N/A	3,507'	P
NRWWTP IW-7	February 2016	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,585'	N/A	N/A	3,506'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
IW-1	August 2015	City of Punta Gorda David Brooks, Supervisor WWT 326 West Marion Ave. Punta Gorda, FL 33950 Phone: 941-575-5059 Fax: 941-628-6319 Email: DBrooks@pgorda.us	Cardno ENTRIX Andrew McThenia, P.G., Senior Staff Scientist 13700 Ben C. Pratt Six Mile Cypress Pkwy. #1 Fort Myers, FL 33912 Phone: 239-574-1919 Fax: 239-574-8106 Email: Andrew.McThenia@cardno.com	20" 2,500'	N/A	N/A	2,850'	P
East Port IW-2	July 2015	Charlotte County Kathleen Lindback, Contract Specialist 18500 Murdock Circle Port Charlotte, FL 33948 Phone: 941-743-1376 Fax: 941-743-1384 E-mail: kathy.lindback@charlottecountyfl.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	20" 2,965'	N/A	N/A	3,246'	P
Peele-Dixie IW-1	July 2015	City of Fort Lauderdale Kimberly Nedd, Project Manager 100 N. Andrews Avenue Fort Lauderdale, FL 33301 Phone: 954-828-5064 Fax: 954-828-5074 Email: Knedd@fortlauderdale.gov	Hazen and Sawyer, P.C. Albert Muniz, P.E. 2101 NW Corporate Blvd., Suite 301 Boca Raton, FL 33431 Phone: 561-997-8070 Fax: 561-997-8159 Email: amuniz@hazenandsawyer.com	24" 3,000'	16" FRP 2,983'	C	3,500'	P
West Port IW-1	July 2015	Charlotte County Kathleen Lindback, Contract Specialist 18500 Murdock Circle Port Charlotte, FL 33948 Phone: 941-743-1376 Fax: 941-743-1384 E-mail: kathy.lindback@charlottecountyfl.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	12" 1,274'	N/A	N/A	1,650'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Burnt Store IW-1	June 2015	Charlotte County Kathleen Lindback, Contract Specialist 18500 Murdock Circle Port Charlotte, FL 33948 Phone: 941-743-1376 Fax: 941-743-1384 E-mail: kathy.lindback@charlottecountyfl.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	7.625" 2,494'	4.5" FRP 2,494'	F	3,268'	A
Center Road IW-1	May 2015	Sarasota County Public Utilities H. Cliff Harrison, P.G. 1001 Sarasota Center Blvd. Sarasota, FL 34240 Phone: 941-232-9835 Fax: 941-861-0986 Email: hharriso@scgov.net	Ardaman & Associates, Inc. Douglas Dufresne, P.G. 8008 South Orange Avenue Orlando, FL 32809 Phone: 407-855-3860 Fax: 407-859-8121 Email: DDufresne@ardaman.com	18" 1,540'	12.75" Duplex 1,504'	C	1,900'	P
Three Oaks IW-1	April 2015	Lee County Utilities Rand Edelstein, P.G. 2115 Second Street Fort Myers, FL 33901 Phone: 239-533-8164 Fax: 239-267-7997 Email: REdelstein@leegov.com	Johnson Engineering, Inc. Kim Arnold, P.G. 2122 Johnson Street Fort Myers, FL 33901 Phone: 239-461-3329 Fax: 239-334-3661 Email: Karnold@johnsoneng.com	20" 2,100'	16" FRP 2,100'	F	3,015'	A
Key West IW-2	November 2014	City of Key West Elizabeth Ignoffo, E.I. 3110 Flagler Avenue Key West, FL 33040 Phone: 305-809-3966 Fax: 305-809-3857 Email: eignoffo@cityofkeywest-fl.gov	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	24" 2,775'	N/A	N/A	3,004'	P





## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Key West IW-1	October 2014	City of Key West Elizabeth Ignoffo, E.I. 3110 Flagler Avenue Key West, FL 33040 Phone: 305-809-3966 Fax: 305-809-3857 Email: eignoffo@cityofkeywest-fl.gov	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	24" 2,758'	N/A	N/A	3,000'	P
Pinewoods IW-1	October 2014	Lee County Utilities Rand Edelstein, P.G. 2115 Second Street Fort Myers, FL 33901 Phone: 239-533-8164 Fax: 239-267-7997 Email: REdelstein@leegov.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	14" 2,585'	9.625" FRP 2,582'	F	3,050'	A
RO WTP IW-1	September 2014	Gasparilla Island Water Association Bonnie Pringle, Utility Director P.O. Box 310 Boca Grande, FL 33921 Phone: 941-964-2423 Fax: 941-964-0625 E-mail: bonniegiwa@comcast.net	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	11.75" ID 1,490'	7.625" FRP 1,485'	C	1,700'	P
East Port IW-1	September 2014	Charlotte County Alisa True, Contract Specialist 18500 Murdock Circle Port Charlotte, FL 33948 Phone: 941-743-1549 Fax: 941-743-1384 E-mail: alisa.true@charlottefl.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	8" 2,977'	N/A	N/A	3,242'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Northwest WRF IW-1	June 2014	City of St. Petersburg Ralph Craig, Hydrogeologist 1635 Third Avenue North St. Petersburg, FL 33713 Phone: 727-892-5669 Fax: 727-823-9152 Email: Ralph.Craig@stpete.org	CH2M HILL Pete Larkin, P.G., Project Manager 4350 W. Cypress St., Suite 600 Tampa, FL 33607 Phone: 813-874-0777 Fax: 813-874-3056 Email: pete.larkin@ch2m.com	30" 756'	N/A	N/A	1,115'	N/A
Northwest WRF IW-2	June 2014	City of St. Petersburg Ralph Craig, Hydrogeologist 1635 Third Avenue North St. Petersburg, FL 33713 Phone: 727-892-5669 Fax: 727-823-9152 Email: Ralph.Craig@stpete.org	CH2M HILL Pete Larkin, P.G., Project Manager 4350 W. Cypress St., Suite 600 Tampa, FL 33607 Phone: 813-874-0777 Fax: 813-874-3056 Email: pete.larkin@ch2m.com	30" 756'	N/A	N/A	1,110'	N/A
NRWWTP IW-5	June 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,507'	P
NRWWTP IW-4	May 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,501'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
NRWWTP IW-3	May 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,505'	P
Norwood WTP DIW	May 2014	City of North Miami Beach "Jeff" Huren An, Ph.D., P.E. 17050 NE 19th Avenue North Miami Beach, FL 33162 Phone: 305-948-2967 Fax: 305-957-3502 Email: jeff.an@citynmb.com	MWH Americas, Inc. Neil A. Johnson, P.G. 100 S. Dixie Hwy, Suite 300 West Palm Beach, FL 33325 Phone: 561-650-0070 Fax: 561-650-0074 Email: neil.a.johnson@mwhglobal.com	20" 2,858'	14.5" FRP 2,853'	F	3,420'	P
WTP IW-1	May 2014	City of Pompano Beach Phil Hyer, Utilities Superintendent 1201 NE 5 Avenue Pompano Beach, FL 33061 Phone: 954-545-7030 Fax: 954-545-7046 Email: phyer@copbfl.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	24" 2,291'	16" 2,271'	C	2,901'	P
NRWWTP IW-2	May 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,521'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
NRWWTP IW-1	April 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,512'	P
NRWWTP IW-6	April 2014	Broward County Gregory M. Balicki, P.E. 2555 W. Copans Road Pompano Beach, FL 33069 Phone: 954-831-0903 Fax: 954-831-0798 Email: gbalicki@broward.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,990'	N/A	N/A	3,510'	P
NCRWTP IW-2	April 2014	Collier County Howard Brogdon, Plant Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5252 Fax: 239-252-6450 Email: HowardBrogdon@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	20" 2,495'	16" FRP 2,460	C	3,200'	P
GPIWA WTP	March 2014	Greater Pine Island Water Association Bill Thatcher, General Manager 5281 Pine Island Road Bokeelia, FL 33922 Phone: 239-283-1071 Fax: 239-283-7792 Email: wthatcher@pineislandwater.com	RMA Geologic Consultants, Inc. Daniel Acquaviva, P.G., Vice President 12771 World Plaza Ln., Bldg. 87, Suite 1 Fort Myers, FL 33907 Phone: 239-415-1818 Fax: 239-415-1919 Email: Dacquaviva@rma-geologic.com	18" 1,955'	12" FRP 1,951'	F	3,138'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
CSID IW-2	January 2014	Coral Springs Improvement District Edward Stover, Chief Operator 10300 NW 11th Manor Coral Springs, FL 33071 Phone: 954-752-1797 Fax: 954-757-4850 Email: eds@fladistricts.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	24" 2,900'	N/A	N/A	3,500'	P
CSID IW-1	January 2014	Coral Springs Improvement District Edward Stover, Chief Operator 10300 NW 11th Manor Coral Springs, FL 33071 Phone: 954-752-1797 Fax: 954-757-4850 Email: eds@fladistricts.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	12" 3,006'	N/A	N/A	3,500'	P
Marco Island IW-2	October 2013	City of Marco Island Bruce Weinstein, Ph.D. 50 Bald Eagle Drive Marco Island, FL 34145 Phone: 239-389-5000 Fax: 239-389-4359 Email: bweinstein@cityofmarcoisland.com	Cardno ENTRIX John Mayhut, Senior Project Scientist 13700 Ben C. Pratt Six Mile Cypress Pkwy. #1 Fort Myers, FL 33912 Phone: 239-574-1919 Fax: 239-574-8106 Email: John.Mayhut@cardno.com	24" 2,638'	16" FRP 2,629'	C	3,230'	P
NCRWTP IW-2	July 2013	Collier County Howard Brogdon, Plant Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5252 Fax: 239-252-6450 Email: HowardBrogdon@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	20" 2,495'	16" FRP 2,460'	C	3,200'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
NCRWTP IW-1	July 2013	Collier County Howard Brogdon, Plant Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-5252 Fax: 239-252-6450 Email: HowardBrogdon@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	18" 1,955'	12" FRP 1,951'	F	3,138'	A
WRF IW-2	June 2013	Collier County Peter Schalt, Senior Project Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-4285 Fax: 239-252-5378 Email: PeterSchalt@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	24" 2,582'	N/A	N/A	3,250'	P
WRF IW-1	June 2013	Collier County Peter Schalt, Senior Project Manager 3339 Tamiami Trail East, Suite 303 Naples, FL 34112-5361 Phone: 239-252-4285 Fax: 239-252-5378 Email: PeterSchalt@colliergov.net	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	24" 2,575'	N/A	N/A	3,250'	P
SCRWWTP IW-1	May 2013	South Central Regional WWT&DB Dennis Coates, Executive Director 1801 N. Congress Avenue Delray Beach, FL 33445 Phone: 561-272-7061 Fax: 561-265-2357 Email: dcoates@scrwwtp.org	Hazen and Sawyer, P.C. Albert Muniz, P.E. 2101 NW Corporate Blvd., Suite 301 Boca Raton, FL 33431 Phone: 561-997-8070 Fax: 561-997-8159 Email: amuniz@hazenandsawyer.com	24" 2,430'	N/A	N/A	3,024'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
West County Energy Center IW-1	May 2013	Florida Power & Light Matthew Wetmore, PGD Env. Leader West County Energy Center 20505 State Road 80 Loxahatchee, FL 33470 Phone: 561-904-4907 E-mail: Matthew_Wetmore@FPL.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	20" 2,778'	16" FRP 2,778'	F	3,411'	A
West County Energy Center IW-2	May 2013	Florida Power & Light Matthew Wetmore, PGD Env. Leader West County Energy Center 20505 State Road 80 Loxahatchee, FL 33470 Phone: 561-904-4907 E-mail: Matthew_Wetmore@FPL.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	20" 2,720'	16" FRP 2,720'	F	3,250'	A
Sawgrass WWTP IW-3	April 2013	City of Sunrise Ted Petrides, P.E. 777 Sawgrass Corporate Parkway Sunrise, FL 33325 Phone: 954-888-6000 Fax: 954-846-7404 Email: Tpetrides@sunrisefl.gov	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,988'	N/A	N/A	3,350'	P
Sawgrass WWTP IW-1	April 2013	City of Sunrise Ted Petrides, P.E. 777 Sawgrass Corporate Parkway Sunrise, FL 33325 Phone: 954-888-6000 Fax: 954-846-7404 Email: Tpetrides@sunrisefl.gov	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,700'	N/A	N/A	3,200'	P



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
Sawgrass WWTP IW-2	April 2013	City of Sunrise Ted Petrides, P.E. 777 Sawgrass Corporate Parkway Sunrise, FL 33325 Phone: 954-888-6000 Fax: 954-846-7404 Email: Tpetrides@sunrisefl.gov	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,720'	N/A	N/A	3,200'	P
WWTP Injection Well	January 2013	City of West Melbourne Keith Mills, Deputy City Mgr. 2240 Minton Road West Melbourne, FL 32904 Phone: 321-837-7777 Fax: 321-768-2390 Email: kmills@westmelbourne.org	CH2M HILL Gerrit Bulman, Hydrogeologist 800 Fairway Drive, Suite 350 Deerfield Beach, FL 33441 Phone: 954-426-4008 Fax: 954-698-6010 Email: gbulman@ch2m.com	14" 1,980'	N/A	N/A	2,409'	P
Polk Power IW-1 (Re-Rate)	January 2013	Tampa Electric Company Catherine Magliocco, P.E., Proj. Mgr. P.O. Box 111 Tampa, FL 33601 Phone: 813-228-1346 Fax: 813-228-1560 Email: camagliocco@tecoenergy.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	18" 4,210'	10-3/4" FRP 4,220'	C	8,000'	P
Polk Power IW-2	January 2013	Tampa Electric Company Catherine Magliocco, P.E., Proj. Mgr. P.O. Box 111 Tampa, FL 33601 Phone: 813-228-1346 Fax: 813-228-1560 Email: camagliocco@tecoenergy.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	18" 4,215'	10-3/4" FRP 4,228'	C	8,000'	P





## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
SRWWTP IW-1	Sept. 2012	City of Hollywood Jeff Jiang, P.E., Project Manager 1621 N. 14 Avenue Hollywood, FL 33022 Phone: 954-921-3930 Fax: 954-921-3258 Email: fjiang@hollywoodfl.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,880'	N/A N/A	N/A	3,500'	P
SRWWTP IW-2	Sept. 2012	City of Hollywood Jeff Jiang, P.E., Project Manager 1621 N. 14 Avenue Hollywood, FL 33022 Phone: 954-921-3930 Fax: 954-921-3258 Email: fjiang@hollywoodfl.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	24" 2,880'	N/A N/A	N/A	3,499'	P
IW-1	June 2012	San Antonio Water System Kevin Morrison, P.G. 2800 US Highway 281 North San Antonio, TX 78298 Phone: 210-233-3667 Fax: 210-233-4853 Email: kevin.morrison@saws.org	Subsurface Technology, Inc. Larry McDonald 6925 Portwest Drive, Suite 110 Houston, TX 77024 Phone: 713-880-4640 Fax: 713-880-3248 Email: lmcDonald@subsurfacegroup.com	9-5/8" 4,195'	7" 4,165'	F	5,040'	A
Plant Smith IW-1	June 2012	Gulf Power Company Richard M. Markey, Super. of Water One Energy Place Pensacola, FL 32520 Phone: 850-444-6573 Fax: 850-444-6217 Email: rmmarkey@southernco.com	CH2M HILL Jeffrey D. Lehnen, P.G. 3011 SW Williston Road Gainesville, FL 32608 Phone: 352-335-5877 Fax: 352-335-2959 Email: jeff.lehnen@ch2m.com	9-5/8" 4,870'	6" FRP 1,200'	F	7,058'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
IW-3	May 2012	Imperial Irrigation District Jose Perez, Technical Representative 485 E. Villa Road El Centro, CA 92243 Phone: 760-339-0570 Fax: 760-339-0838 Email: jperez@iid.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	9-5/8" 2,120'	7" 2,735'	F	2,740'	A
Deep Injection Well #1	April 2012	City of North Port Jerry Manning, Plant Ops. Mgr. 6644 W. Price Blvd. North Port, FL 34291 Phone: 941-426-9500 Fax: 941-426-5409 Email: jmanning@cityofnorthport.com	CDM Smith Jason Sciandra, P.E., Senior Project Manager 2180 West First Street, Suite 400 Fort Myers, FL 33901 Phone: 239-938-9600 Fax: 239-339-6418 Email: SciandraJA@cdmsmith.com	24" 1,106'	14" 1,100'	F	3,200'	A
Central Plant IW	March 2012	City of Plantation Victor Pedlar, Water Ops. Super. 400 NW 73 Avenue Plantation, FL 33317 Phone: 954-452-2544 Fax: 954-452-2546 Email: vpedlar@plantation.org	Hazen and Sawyer, P.C. Michael Wengrenovich, P.E. 4000 Hollywood Blvd., 750N N. Tower Hollywood, FL 33021 Phone: 954-987-0066 Fax: 954-987-2949 Email: mwengrenovich@hazenandsawyer.com	16" 2,778'	11-3/4" FRP 2,664'	C	3,340'	P
Turkey Point IW-1	March 2012	Florida Power and Light Company Joseph Fazio, P.E., Proj. Eng. P.O. Box 14000 Juno Beach, FL 33408 Phone: 561-691-2451 Fax: 561-694-3360 Email: joseph.fazio@fpl.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	24" 2,990'	18" FRP 2,990'	F	3,230'	A



## Layne Christensen Company UIC Well Mechanical Integrity Testing References

Well	Date Completed	Owner Contact	Consultant Contact	Final Casing (Diam. / Depth) *	Injection Tubing (Diam. / Depth) *	Tubing Annulus **	Total Well Depth	Type of Pressure Test ***
IW-1	December 2011	Imperial Irrigation District Jose Perez, Technical Representative 485 E. Villa Road El Centro, CA 92243 Phone: 760-339-0570 Fax: 760-339-0838 Email: jperez@iid.com	McNabb Hydrogeologic Consulting, Inc. David McNabb, P.G. 601 Heritage Drive, Suite 110 Jupiter, FL 33458 Phone: 561-623-5468 Fax: 561-623-5469 Email: david@mcnabbhydroconsult.com	9-5/8" 2,194'	7" 2,724'	F	2,750'	A
Polk Power IW-1	August 2011	Tampa Electric Company Catherine Magliocco, P.E., Proj. Mgr. P.O. Box 111 Tampa, FL 33601 Phone: 813-228-1346 Fax: 813-228-1560 Email: camagliocco@tecoenergy.com	MWH Americas, Inc. Edward Rectenwald, P.G. 5237 Summerlin Commons Blvd., Office 105 Fort Myers, FL 33907 Phone: 239-275-2228 ext. 2740 Fax: 239-236-0022 Email: edward.rectenwald@mwhglobal.com	18" 4,210'	10-3/4" FRP 4,220'	C	8,000'	P
IW-1	May 2010	St. Lucie West Services District Dennis Pickle, District Manager 450 SW Utility Drive Port St. Lucie, FL 34986 Phone: 772-340-0220 Fax: 772-871-5726 Email: dpickle@slwsd.org	HydroDesigns, Inc. Aimee Fratarcangeli, P.G. 10401 Brushfield Street Riverview, FL 33569 Phone: 813-610-5071 Fax: 813-671-8552 Email: geode933@aol.com	12" 2,704'	7-5/8" FRP 2,664'	F	3,295'	A



# ADDENDUM ACKNOWLEDGMENT

LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)





## THE CITY OF KEY WEST

1300 White St. Key West FL 33040 Phone: (305) 809-3700

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**Invitation to Bid # 19-007**  
**WWTP WELL REPAIR AND MECHANICAL INTEGRITY TESTING**  
**Project No. SE35041701**

**ADDENDUM # 1**

December 11, 2018

This addendum includes answers to questions regarding drawing details and bridge limits:

Q: Can you please verify the information provided in the bid with regards to weight limits for Fleming Bridge?

A: Photo attached below of the weight limits.

Q: Regarding the concrete work on the repair of IW-1, in the concrete notes number 9 states that all accessories are to be "galvanized". Please clarify if this is to include bars and fabric mentioned in notes 5 & 6 such as the #5 Vert. and #4 Ties @ 12" described in the drawing Detail B.

A: Note 9 pertains only to accessories such as spacers, chairs, etc. It does not pertain to the #5 vert and #4 ties.

Q: If more readily available, could a 36" Tube be used to form the encasement around the casing?

A: Yes.

Q: Could the MIT be performed on IW-2 prior to the repair work being started on IW-1?

A: Yes.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 by acknowledging addendum in their proposal or by submitting the addendum with the bid package. Bids submitted without acknowledgement or without this addendum may be considered non-responsive.

\_\_\_\_\_  
Signature- David A. Tormoehlen - General Manager

\_\_\_\_\_  
Layne Christensen Company  
Name of Business or Corporation



**THE CITY OF KEY WEST**  
1300 White St. Key West FL 33040 Phone: (305) 809-3700





# OFFICER & DIRECTORS REPORT, AUTHORIZATION TO SIGN, LCC CERTIFICATE OF SECUTARY & STATE OF FL. CERTIFCATE

PROPOSAL BY:  
LAYNE CHRISTENSEN COMPANY  
5061 LUCKETT ROAD  
FORT MYERS, FL 33905  
PH: 239.275.1029  
FX: 239.275.1025  
[www.layne.com](http://www.layne.com)



# Officer and Director Report



## Layne Christensen Company

Active

Subsidiary

US

### Officers

Richard A. Watts	President & Group Manager
Jigisha Desai	Vice President & Treasurer
Bradley G. Graham	Vice President & Controller
Denise C. McClanahan	Vice President
Kevin P. Maher	Vice President
Jami Phillips	Group Controller & Assistant Secretary
Kenneth B. Olson	Assistant Secretary
Nicholas B. Blackburn	Assistant Secretary
Curtis J. Schmidt	Assistant Secretary
Aaron Storm	Secretary
Thomas P. Healy	Assistant Secretary

### Directors

James H. Roberts



**LAYNE CHRISTENSEN COMPANY  
CERTIFICATE OF SECRETARY**

---

I, Kenneth B. Olson, Assistant Secretary of LAYNE CHRISTENSEN COMPANY, a Delaware corporation (the “Company”), do hereby certify that the following is a true and correct copy of resolutions duly adopted on June 14, 2018; that the Directors acting were duly and regularly elected; and that the resolutions adopted have not been repealed and are still in full force and effect:

**AUTHORIZATION TO EXECUTE DOCUMENTS AND AGREEMENTS**

**RESOLVED**, that the below listed officers are authorized to execute and deliver on behalf of the Company all documents, agreements and undertakings required in connection with construction contract formation and operations of the Company:

Richard A. Watts	President & Group Manager
Jigisha Desai	Vice President & Treasurer
Bradley G. Graham	Vice President & Controller
Denise C. McClanahan	Vice President
Kevin P. Maher	Vice President
Jami Phillips	Group Controller & Assistant Secretary
Kenneth B. Olson	Assistant Secretary
Nicholas B. Blackburn	Assistant Secretary
Thomas P. Healy	Assistant Secretary
Curtis J. Schmidt	Assistant Secretary
Aaron Storm	Secretary

**RESOLVED FURTHER**, that the authority provided for herein shall be in accordance with applicable policies, procedures and delegations of authority previously approved and the Granite Construction Incorporated Delegation of Authority and Policy then in effect.

**AUTHORIZATION TO ATTEST DOCUMENTS AND AGREEMENTS**

**RESOLVED**, that the below listed officers are authorized to attest documents, agreements and undertakings required in connection with construction contract formation and operations of the Company:

Richard A. Watts	President & Group Manager
Jigisha Desai	Vice President & Treasurer
Bradley G. Graham	Vice President & Controller
Denise C. McClanahan	Vice President
Kevin P. Maher	Vice President
Jami Phillips	Group Controller & Assistant Secretary
Kenneth B. Olson	Assistant Secretary
Nicholas B. Blackburn	Assistant Secretary
Curtis J. Schmidt	Assistant Secretary
Thomas P. Healy	Assistant Secretary
Aaron Storm	Secretary

**AUTHORIZATION OF APPROVED BORROWERS**

**RESOLVED**, that the below listed individuals are authorized borrowers on behalf of the Company:

James H. Roberts	Director
Jigisha Desai	Vice President & Treasurer
Bradley G. Graham	Vice President & Controller

**RESOLVED FURTHER**, that the authority provided herein is subject to limits of authority previously approved and the Granite Incorporated Construction Delegation of Authority and Policy then in effect.


**AUTHORIZATION OF APPROVED CHECK SIGNERS**

**RESOLVED**, that the below listed individuals are authorized to sign checks and drafts drawn on the Company's accounts:

James H. Roberts	Director
Jigisha Desai	Vice President & Treasurer
Bradley G. Graham	Vice President & Controller
Kenneth B. Olson	Assistant Secretary
Jami Phillips	Group Controller & Assistant Secretary

**RESOLVED FURTHER**, that the authority provided herein is subject to limits of authority previously approved and the Granite Incorporated Delegation of Authority and Policy then in effect.

Dated: June 14, 2018

  
\_\_\_\_\_  
Kenneth B. Olson

# *State of Florida*

## *Department of State*

I certify from the records of this office that LAYNE CHRISTENSEN COMPANY is a Delaware corporation authorized to transact business in the State of Florida, qualified on July 9, 1981.

The document number of this corporation is 849662.

I further certify that said corporation has paid all fees due this office through December 31, 2018, that its most recent annual report/uniform business report was filed on May 1, 2018, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Sixteenth day of July, 2018*



*Ken DeFoner*  
*Secretary of State*

Tracking Number: CU1911043953

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Detail By Document Number](#) /

## Detail by Entity Name

Foreign Profit Corporation

LAYNE CHRISTENSEN COMPANY

### Filing Information

**Document Number** 849662  
**FEI/EIN Number** 48-0920712  
**Date Filed** 07/09/1981  
**State** DE  
**Status** ACTIVE  
**Last Event** NAME CHANGE AMENDMENT  
**Event Date Filed** 04/24/1996  
**Event Effective Date** NONE

### Principal Address

1800 HUGHES LANDING BOULEVARD  
SUITE 800  
THE WOODLANDS, TX 77380

Changed: 04/26/2016

### Mailing Address

1800 HUGHES LANDING BOULEVARD  
SUITE 800  
THE WOODLANDS, TX 77380

Changed: 04/26/2016

### Registered Agent Name & Address

CT CORPORATION SYSTEM  
1200 S. PINE ISLAND ROAD  
PLANTATION, FL 33324

Name Changed: 05/20/1992

Address Changed: 05/20/1992

### Officer/Director Detail

#### **Name & Address**

Title President

WATTS, RICHARD A.

1800 HUGHES LANDING BOULEVARD  
 SUITE 800  
 THE WOODLANDS, TX 77380

Title VP, CFO

GRAHAM, BRADLEY G.  
 585 WEST BEACH STREET  
 WATSONVILLE, CA 95076

Title Asst. Secretary

BLACKBURN, NICHOLAS B.  
 585 WEST BEACH STREET  
 WATSONVILLE, CA 95076

Title Asst. Secretary

SCHMIDT, CURTIS J  
 1800 HUGHES LANDING BOULEVARD  
 SUITE 800  
 THE WOODLANDS, TX 77380

Title Secretary

STORM, AARON  
 1800 HUGHES LANDING BOULEVARD  
 SUITE 800  
 THE WOODLANDS, TX 77380

Title Director

ROBERTS, JAMES H.  
 585 WEST BEACH STREET  
 WATSONVILLE, CA 95076

Annual Reports

Report Year	Filed Date
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2018	05/01/2018
2018	08/22/2018

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Florida Department of State, Division of Corporations