

**AGREEMENT TO PROVIDE ON-CALL WATER WELL, PUMP, AND MOTOR
REHABILITATION AND REPAIR SERVICES**

THIS AGREEMENT is made and entered into this 17th day of August, 2021 by and between Layne Christensen Company (“Contractor”), and the City of Santa Ana, a charter city and municipal corporation organized and existing under the Constitution and laws of the State of California (“City”).

RECITALS

- A. On April 28, 2021, the City issued Request for Proposal No. 21-059, by which it sought a qualified contractor to provide on-call water well, pump, and motor rehabilitation and repair services for the Water Resources Division of the City’s Public Works Agency.
- B. Contractor submitted a responsive proposal that was among those selected by the City. Contractor represents that it is able and willing to provide the services described in the scope of work that was included in RFP 21-059.
- C. In undertaking the performance of this Agreement, Contractor represents that it is knowledgeable in its field and that any services performed by Contractor under this Agreement will be performed in compliance with such standards as may reasonably be expected from a professional contracting firm in the field.

NOW THEREFORE, in consideration of the mutual and respective promises, and subject to the terms and conditions hereinafter set forth, the parties agree as follows:

1. SCOPE OF SERVICES

On an on-call basis, and at the City’s sole discretion, Contractor shall perform the services described in the scope of work that was included in RFP No. 21-059, which is attached as Exhibit A and incorporated in full, and as further described in Contractor’s Proposal, which is attached as Exhibit B and incorporated in full.

2. COMPENSATION

- a. City neither warrants nor guarantees any minimum or maximum compensation to Contractor under this Agreement. Contractor shall be paid only for actual services performed under this Agreement at the rates and charges identified in Exhibit B. Contractor is one of three (3) contractors selected to provide services on an as-needed basis under RFP 21-059. The total compensation for services provided by all contractors selected under RFP 21-059 shall not exceed the shared aggregate amount of three million two hundred fifty thousand dollars and zero cents (\$3,250,000) during the term of this agreement, including any extension periods.
- b. Payment by City shall be made within forty-five (45) days following receipt of

proper invoice evidencing work performed, subject to City accounting procedures. Payment need not be made for work which fails to meet the standards of performance set forth in the Recitals and Scope of Work, which may reasonably be expected by City.

3. TERM

This Agreement shall commence on the date first written above and terminate on August 16, 2024, unless terminated earlier in accordance with Section 17, below. The term of this Agreement may be extended for one 2-year period upon a writing executed by the City Manager and City Attorney.

4. PREVAILING WAGES

Contractor is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., ("Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "public works" and "maintenance" projects. If the services being performed are part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and the total compensation is \$1,000 or more, Contractor agrees to fully comply with such Prevailing Wage Laws. Contractor shall defend, indemnify and hold the City, its elected officials, officers, employees and agents free and harmless from any claim or liability arising out of any failure or alleged failure to comply with the Prevailing Wage Laws.

5. INDEPENDENT CONTRACTOR

Contractor shall, during the entire term of this Agreement, be construed to be an independent contractor and not an employee of the City. This Agreement is not intended nor shall it be construed to create an employer-employee relationship, a joint venture relationship, or to allow the City to exercise discretion or control over the professional manner in which Contractor performs the services which are the subject matter of this Agreement; however, the services to be provided by Contractor shall be provided in a manner consistent with all applicable standards and regulations governing such services. Contractor shall pay all salaries and wages, employer's social security taxes, unemployment insurance and similar taxes relating to employees and shall be responsible for all applicable withholding taxes.

6. OWNERSHIP OF MATERIALS

This Agreement creates a non-exclusive and perpetual license for City to copy, use, modify, reuse, or sublicense any and all copyrights, designs, and other intellectual property embodied in plans, specifications, studies, drawings, estimates, and other documents or works of authorship fixed in any tangible medium of expression, including but not limited to, physical drawings or data magnetically or otherwise recorded on computer diskettes, which are prepared or caused to be prepared by Contractor under this Agreement ("Documents & Data"). Contractor shall require all subcontractors to agree in writing that City is granted a non-exclusive and perpetual license for any Documents & Data the subcontractor prepares under this Agreement.

Contractor represents and warrants that Contractor has the legal right to license any and all Documents & Data. Contractor makes no such representation and warranty in regard to Documents & Data which were provided to Contractor by the City. City shall not be limited in any way in its use of the Documents and Data at any time, provided that any such use not within the purposes intended by this Agreement shall be at City's sole risk.

7. INSURANCE

Prior to undertaking performance of work under this Agreement, Contractor shall maintain and shall require its subcontractors, if any, to obtain and maintain insurance as described below:

- a. **Commercial General Liability Insurance.** Contractor shall maintain commercial general liability insurance naming the City, its officers, employees, agents, volunteers and representatives as additional insured(s) and shall include, but not be limited to protection against claims arising from bodily and personal injury, including death resulting therefrom and damage to property, resulting from any act or occurrence arising out of Contractor's operations in the performance of this Agreement, including, without limitation, acts involving vehicles. The amounts of insurance shall be not less than the following: single limit coverage applying to bodily and personal injury, including death resulting therefrom, and property damage, in the total amount of \$2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit. Such insurance shall (a) name the City, its officers, employees, agents, volunteers and representatives as additional insured(s); (b) be primary with respect to insurance or self-insurance programs maintained by the City; and (c) contain standard separation of insureds provisions.
- b. **Business automobile liability insurance,** or equivalent form, with a combined single limit of not less than \$1,000,000 per occurrence. Such insurance shall include coverage for owned, hired and non-owned automobiles.
- c. **Worker's Compensation Insurance.** In accordance with the California Labor Code, Contractor, if Contractor has any employees, is required to be insured against liability for worker's compensation or to undertake self-insurance. Prior to commencing the performance of the work under this Agreement, Contractor agrees to obtain and maintain any employer's liability insurance with limits not less than \$1,000,000 per accident.
- d. **If Contractor is or employs a licensed professional such as an architect or engineer:** Professional liability (errors and omissions) insurance, with a combined single limit of not less than \$2,000,000 per claim with \$2,000,000 in the aggregate.
- e. **The following requirements apply to the insurance to be provided by Contractor pursuant to this section:**
 - (i) Contractor shall maintain all insurance required above in full force and

- effect for the entire period covered by this Agreement.
 - (ii) Certificates of insurance shall be furnished to the City upon execution of this Agreement and shall be approved by the City.
 - (iii) Certificates and policies shall state that the policies shall not be cancelled or reduced in coverage or changed in any other material aspect, by contractor, without thirty (30) days prior written notice to the City.
 - (iv) Contractor shall supply City with a fully executed additional insured endorsement.
- f. If Contractor fails or refuses to produce or maintain the insurance required by this section or fails or refuses to furnish the City with required proof that insurance has been procured and is in force and paid for, the City shall have the right, at the City's election, to forthwith terminate this Agreement. Such termination shall not affect Contractor's right to be paid for its time and materials expended prior to notification of termination. Contractor waives the right to receive compensation and agrees to indemnify the City for any work performed prior to approval of insurance by the City.

8. INDEMNIFICATION

Contractor agrees to defend, and shall indemnify and hold harmless the City, its officers, agents, employees, contractors, special counsel, and representatives from liability: (1) for personal injury, damages, just compensation, restitution, judicial or equitable relief arising out of claims for personal injury, including death, and claims for property damage, which may arise from the negligent operations of the Contractor or its subcontractors, agents, employees, or other persons acting on their behalf which relates to the services described in section 1 of this Agreement; and (2) from any claim that personal injury, damages, just compensation, restitution, judicial or equitable relief is due by reason of the terms of or effects arising from this Agreement. This indemnity and hold harmless agreement applies to all claims for damages, just compensation, restitution, judicial or equitable relief suffered, or alleged to have been suffered, by reason of the events referred to in this Section or by reason of the terms of, or effects, arising from this Agreement. The Contractor further agrees to indemnify, hold harmless, and pay all costs for the defense of the City, including fees and costs for special counsel to be selected by the City, regarding any action by a third party challenging the validity of this Agreement, or asserting that personal injury, damages, just compensation, restitution, judicial or equitable relief due to personal or property rights arises by reason of the terms of, or effects arising from this Agreement. City may make all reasonable decisions with respect to its representation in any legal proceeding. Notwithstanding the foregoing, to the extent Contractor's services are subject to Civil Code Section 2782.8, the above indemnity shall be limited, to the extent required by Civil Code Section 2782.8, to claims that arise of, pertain to, or relate to the negligence, recklessness, or willful misconduct of the Contractor.

9. INTELLECTUAL PROPERTY INDEMNIFICATION

Contractor shall defend, indemnify and hold harmless the City, its officers, agents, representatives, and employees against any and all liability, including costs, and attorney's fees,

for infringement of any United States' letters patent, trademark, or copyright contained in the work product or documents provided by Contractor to the City pursuant to this Agreement.

10. RECORDS

Contractor shall keep records and invoices in connection with the work to be performed under this Agreement. Contractor shall maintain complete and accurate records with respect to the costs incurred under this Agreement and any services, expenditures, and disbursements charged to the City for a minimum period of three (3) years, or for any longer period required by law, from the date of final payment to Contractor under this Agreement. All such records and invoices shall be clearly identifiable. Contractor shall allow a representative of the City to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement during regular business hours. Contractor shall allow inspection of all work, data, documents, proceedings, and activities related to this Agreement for a period of three (3) years from the date of final payment to Contractor under this Agreement.

11. CONFIDENTIALITY

If Contractor receives from the City information which due to the nature of such information is reasonably understood to be confidential and/or proprietary, Contractor agrees that it shall not use or disclose such information except in the performance of this Agreement, and further agrees to exercise the same degree of care it uses to protect its own information of like importance, but in no event less than reasonable care. "Confidential Information" shall include all nonpublic information. Confidential information includes not only written information, but also information transferred orally, visually, electronically, or by other means. Confidential information disclosed to either party by any subsidiary and/or agent of the other party is covered by this Agreement. The foregoing obligations of non-use and nondisclosure shall not apply to any information that (a) has been disclosed in publicly available sources; (b) is, through no fault of the Contractor disclosed in a publicly available source; (c) is in rightful possession of the Contractor without an obligation of confidentiality; (d) is required to be disclosed by operation of law; or (e) is independently developed by the Contractor without reference to information disclosed by the City.

12. CONFLICT OF INTEREST CLAUSE

Contractor covenants that it presently has no interest and shall not have interests, direct or indirect, which would conflict in any manner with performance of services specified under this Agreement.

13. NOTICE

Any notice, tender, demand, delivery, or other communication pursuant to this Agreement shall be in writing and shall be deemed to be properly given if delivered in person or mailed by first class or certified mail, postage prepaid, or sent by fax or other telegraphic communication in the manner provided in this Section, to the following persons:

To City: Clerk of the City Council
City of Santa Ana
20 Civic Center Plaza (M-30)
P.O. Box 1988
Santa Ana, CA 92702-1988
Fax 714- 647-6956

Executive Director
Public Works Agency
City of Santa Ana
20 Civic Center Plaza (M-21)
P.O. Box 1988
Santa Ana, CA 92702

To Contractor: Layne Christensen Company
1717 W Park Avenue
Redlands, CA 92373
Attn: Ricky Trujillo, Account Manager

A party may change its address by giving notice in writing to the other party. Thereafter, any communication shall be addressed and transmitted to the new address. If sent by mail, communication shall be effective or deemed to have been given three (3) days after it has been deposited in the United States mail, duly registered or certified, with postage prepaid, and addressed as set forth above. If sent by fax, communication shall be effective or deemed to have been given twenty-four (24) hours after the time set forth on the transmission report issued by the transmitting facsimile machine, addressed as set forth above. For purposes of calculating these timeframes, weekends, federal, state, County or City holidays shall be excluded.

14. EXCLUSIVITY AND AMENDMENT

This Agreement represents the complete and exclusive statement between the City and Contractor regarding the subject matter herein, and supersedes any and all other agreements, oral or written, between the parties. In the event of a conflict between the terms of this Agreement and any attachments hereto, the terms of this Agreement shall prevail. This Agreement may not be modified except by written instrument signed by the City and by an authorized representative of Contractor. The parties agree that any terms or conditions of any purchase order or other instrument that are inconsistent with, or in addition to, the terms and conditions hereof, shall not bind or obligate Contractor or the City. Each party to this Agreement acknowledges that no representations, inducements, promises or agreements, orally or otherwise, have been made by any party, or anyone acting on behalf of any party, which are not embodied herein.

15. ASSIGNMENT

Inasmuch as this Agreement is intended to secure the specialized services of Contractor, Contractor may not assign, transfer, delegate, or subcontract any interest herein without the prior

written consent of the City and any such assignment, transfer, delegation or subcontract without the City's prior written consent shall be considered null and void. Nothing in this Agreement shall be construed to limit the City's ability to have any of the services which are the subject to this Agreement performed by City personnel or by other contractors retained by City.

16. WAIVER

No waiver of breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and signed by the party waiving the breach, failure, right or remedy. No waiver of any breach, failure or right, or remedy shall be deemed a waiver of any other breach, failure, right or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

17. TERMINATION

This Agreement may be terminated by the City upon thirty (30) days written notice of termination. In such event, Contractor shall be entitled to receive and the City shall pay Contractor compensation for all services performed by Contractor prior to receipt of such notice of termination, subject to the following conditions:

- a. As a condition of such payment, the Executive Director may require Contractor to deliver to the City all work product completed as of such date, and in such case such work product shall be the property of the City unless prohibited by law, and Contractor consents to the City's use thereof for such purposes as the City deems appropriate.
- b. Payment need not be made for work that fails to meet the standard of performance specified in the Recitals of this Agreement.

18. NON-DISCRIMINATION

Consultant shall not discriminate because of race, color, creed, religion, sex, marital status, sexual orientation, gender identity, gender expression, gender, medical conditions, genetic information, or military and veteran status, age, national origin, ancestry, or disability, as defined and prohibited by applicable law, in the recruitment, selection, teaching, training, utilization, promotion, termination or other employment related activities or any services provided under this Agreement. Consultant affirms that it is an equal opportunity employer and shall comply with all applicable federal, state and local laws and regulations.

19. JURISDICTION-VENUE

This Agreement has been executed and delivered in the State of California and the validity, interpretation, performance, and enforcement of any of the clauses of this Agreement shall be determined and governed by the laws of the State of California. Both parties further agree that Orange County, California, shall be the venue for any action or proceeding that may be brought or arise out of, in connection with or by reason of this Agreement.

20. PROFESSIONAL LICENSES

Contractor shall, throughout the term of this Agreement, maintain all necessary licenses, permits, approvals, waivers, and exemptions necessary for the provision of the services hereunder and required by the laws and regulations of the United States, the State of California, the City of Santa Ana and all other governmental agencies. Contractor shall notify the City immediately and in writing of its inability to obtain or maintain such permits, licenses, approvals, waivers, and exemptions. Said inability shall be cause for termination of this Agreement.

21. MISCELLANEOUS PROVISIONS

- a. Each undersigned represents and warrants that its signature herein below has the power, authority and right to bind their respective parties to each of the terms of this Agreement, and shall indemnify City fully, including reasonable costs and attorney's fees, for any injuries or damages to City in the event that such authority or power is not, in fact, held by the signatory or is withdrawn.
- b. All exhibits referenced herein and attached hereto shall be incorporated as if fully set forth in the body of this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the date and year first above written.

ATTEST:

CITY OF SANTA ANA

Daisy Gomez
Clerk of the Council

Kristine Ridge
City Manager

APPROVED AS TO FORM
SONIA R. CARVALHO
City Attorney

CONTRACTOR

By: _____

Brandon Salvatierra
Deputy City Attorney

Name: Todd Howard
Title: General Manager

RECOMMENDED FOR APPROVAL

Nabil Saba, PE
Executive Director
Public Works Agency

EXHIBIT A

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Appendix
ATTACHMENT 1: SCOPE OF WORK

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SCOPE OF WORK

INTRODUCTION AND BACKGROUND

The City of Santa Ana is soliciting proposals from qualified firms to provide on-call water well, pump and motor rehabilitation and repair services on an as-needed basis.

The City of Santa Ana is located in the County of Orange in Southern California. The City encompasses 27.2 square miles and a population over 343,000 people. The City of Santa Ana Public Works Agency – Water Resources Division oversees and maintains the daily operations of the Water System and Sanitary Sewer System. The City of Santa Ana's water system has an average day demand of about 43 million gallons (MG) with 45,000 services. It is comprised of approximately 478 miles of water main, 45 MG of storage at five (5) sites, seven (7) MWD connections, 21 groundwater wells, seven (7) pump stations, four (4) pressure regulating stations and utilizes two (2) pressure zones.

WORK DESCRIPTION

The Contractor shall provide water well casing, pump and motor rehabilitation, repair, and replacement related services for the City of Santa Ana at various locations within the City. The work shall include routine and emergency pump pulling and installations, well casing repairs and installations, water well rehabilitations, well video inspections, and/or repair services on various types of pumps on an as-needed basis.

The Contractor shall provide all necessary supervision, labor, materials, tools, transportation and equipment to perform pump pulling and installations, water well and booster rehabilitations, well casing repairs and installations, water well video inspections and chemical treatments, electric motor repairs, electric motor rewindings, sound attenuation, and repair services on various types of pumps and motors, on an as assigned basis, at various locations throughout the City.

The Contractor shall provide transportation for its heavy duty equipment, such as, but not limited to, drilling rig, pump rig, flatbed truck, boom truck, tractor trailer, to and from Contractor's facility to each Water Production worksite. All electric motor repair work shall be transported by the Contractor to an Electrical Apparatus Service Association's (EASA) Accredited Member facility for repair and returned to the City when repairs are complete.

The Contractor shall make adequate provisions for the disposal of water pumping from the well during redevelopment and/or test pumping. All water discharged during these events shall be in compliance with the City's National Pollutant Discharge Elimination System (NPDES) permits and Orange County Flood Control District permits. It shall be the Contractor's responsibility to propose a method to discharge water that is NPDES compliant and may include methods such as water detention through storage tanks or other conforming strategies.

Proposer shall submit hourly rates schedule, which shall include but not limited to, direct and indirect costs for labor, for staff per job classification, material, equipment rates, overhead, incidental supplies, travel, mileage, and fuel. Any special materials will be purchased by the contractor only after discussed and authorized by the City projects manager or designee in writing.

Prior to commencement of services, Contractor shall provide separate quotes and project schedules, upon request by the City, which shall be approved by the City's Public Works Water Resources Division.

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CONTRACTOR RESPONSIBILITIES

The Contractor's services shall include, but are not necessarily limited to, the following:

1. PUMP AND MOTOR REMOVAL SERVICE

The Contractor shall be qualified to perform water well pump and booster pump removals. At the initial setup for pulling a pump, the Contractor shall perform lockout/tagout of the electrical and hydraulic systems and shall disconnect all electrical wiring and appurtenance necessary for the pulling of a deep well pump or a booster pump. The motor, discharge head, submersible cables, column, bowl assembly, strainer, and airline shall be removed by the Contractor. All parts and components shall be inspected closely for excessive cracks, corrosion, holes, wear, or any type of damage which would necessitate repairs or replacement parts. Bore holes shall not be left unattended. The Contractor shall provide equipment necessary (with a lockable design) for closing off any bore holes left unattended.

2. PUMP AND MOTOR RE-INSTALLATION SERVICE

The Contractor shall be qualified to perform pump and motor installation services including all electrical re-installations. The Contractor shall adequately chlorinate the pump assembly prior to installation. After the completion of any rehabilitation work and or repairs, the Contractor shall install the bowl assembly, column, shaft, submersible cable or oil tubing, discharge head, motor and all electrical components associated with and not limited to leads, torqueing to specifications, etc. Witness test shall be performed by City staff. All incidental materials shall be furnished by the Contractor.

3. WELL VIDEO SURVEY SERVICE

The Contractor shall be qualified to perform water well video inspections using color video equipment with side scan and down-hole survey views. Videos shall be provided to the City in a universal serial bus (USB) format and recorded in high definition resolution. Ability to perform these surveys at high resolutions will be given higher consideration. The Contractor shall allow water to flow into the well for a 24 to 48 hour time period in advance of the video survey to produce clear viewing conditions.

The video survey unit shall simultaneously transpose the City's name, well name, footage and the date of inspection on the monitor screen and the video record. A footage counter/recorder shall read in feet and be accurate within two (2) percent of the actual footage.

The video survey camera shall be capable of right angle or normal downhole viewing with a change in camera lens or mechanical movement of the camera. At the direction of the City, the Contractor must be able to provide right angle viewing to view any casing section in a direct elevation view. The video camera shall be capable of providing both vertical and horizontal (side) viewing of the entire casing as it descends into the well.

The Contractor shall also submit a written report to accompany the video survey log, documenting the survey date, static water level, perforation depth intervals and conditions, and total well depth along with photos. The Contractor shall provide information in the report regarding any type of damage to the well casing or issues encountered during the well video survey.

4. WELL TREATMENT SERVICE

The Contractor shall be qualified to provide well treatment services. To perform these tasks, the Contractor shall have the capability to perform mineral analysis, chemical treatment, water quality testing, zone

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testing, well casing patches and similar casing repairs/improvements, and mechanical treatment on well casings. All chemicals used in treating wells shall be State approved for the purpose intended, must be National Sanitation Foundation (NSF) approved, and Public Works approved for quantity and concentration. Disinfection of the wells is required in accordance with American Water Works Association (AWWA) C654 – Standard Disinfection of Wells.

The Contractor's estimates shall include the type and concentration of chemicals (acids, inhibitors, polymers, neutralizers, etc.) to be used; the typical appropriate contact time for the chemicals; and the typical procedure for introducing, mixing, and neutralizing chemicals in the well. In addition, the name(s) and phone numbers of any company(ies) that will supply the treatment chemicals shall be provided. Completed Material Safety Data Sheets (MSDS) for all chemicals used shall include the methods of mechanical treatment (dual swab, wire/nylon brush, sonar jetting, etc.).

The Contractor shall perform wire brushing and it shall be carried out in manner as to clean the casing louvers/perforations and to remove scale and tubercles attached to the wall of the casing. After wire brushing, the well shall be allowed to sit for 24 to 48 hours and sediment fill shall be removed from the bottom of the well to the maximum extent possible using a bailer or scow or equivalent retrieval device.

All bailed material (water and sediment) shall be placed in steel drums or appropriate containers. The sediment, after separation from the water, shall be placed in the containers, properly labeled, and eventually removed from the well site for disposal by the Contractor. All bailed material shall be properly disposed of by the Contractor.

5. PUMP AND MOTOR REHABILITATION SERVICE

The Contractor shall provide rehabilitation services when requested by the City. The Contractor shall rehabilitate one or more of the following pump units:

- Submersibles
- Horizontal split case
- Vertical turbines

Rehabilitation of all pumps and motors may include, but not limited to:

- Line shafts
- Bearings
- Right-angle-gears
- Housing/frame
- Column pipe
- Seals
- Impellers
- Rotor shaft
- Power/control cable attachments
- Thermal/moisture sensors
- Vibrational analysis (include report)
- All other appurtenant components

Upon request, the Contractor shall submit a written proposal to the City for the services described herein. The Contractor shall also include the performance pump curves, manual specifications, and detailed information regarding the new proposed pump and motor within the proposal package. **The Contractor**

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shall also provide a construction project schedule for each given task order regarding rehabilitation services. All rehabilitation work shall be subject to the Project Manager's written approval prior to commencing any work by the Contractor.

6. ELECTRIC MOTOR REPAIR AND REFURBISHMENT

The successful Contractor shall provide all transportation, labor, materials, tests and equipment, delivery/pick up for the repair and refurbishment of electric motors and perform any recondition or rewiring as necessary to return the equipment fully operational. **All electric motor repair shall be done in an EASA Accredited Member service shop, no exceptions.**

a. **All work shall be in accordance with the Electrical Apparatus Service Association's (EASA) Recommended Practice, AR100-2020 latest edition and the National Electrical Manufacturers Association (NEMA) standards for service and repair of electrical apparatus.** The Contractor shall provide a list of approved vendors upon request.

b. **Work shall be in conformance with standards set by, but not limited to, the following organizations:**

1. Underwriters Laboratories (UL)
 - a. Underwriters Laboratories – Certified motors shall be recertified after repair.
 - b. Contractor's shop or his sub-contractor's shop shall be UL-certified to rebuild explosion-proof electric motors for use in hazardous environments.
2. American National Standards Institute (ANSI)
3. American Society for Testing and Materials (ASTM)
4. National Electrical Code (NEC)
5. National Fire Protection Agency (NFPA)
6. National Electrical Manufacturers Association (NEMA)

c. Recondition/Repair of Electric Motors

Reconditioning/repair of electric motors shall include the testing, disassembling, inspection, cleaning, dipping, baking of windings, replacement of bearings, assembly, testing and painting and at minimum include the following:

i. Pre-Disassembly Test

1. Using a 1000V meg-ohm meter, conduct verification of insulation integrity. Record the insulation resistance of the motor as brought in from the City. Acceptable criteria is 5 meg-ohms or higher.
2. Verify that heaters are operational and that other attached features, such as thermocouples, have continuity.
3. Single-phase test to check for open rotors. (After disassembly, rotors will be inspected for evidence of damaged, cracked or open circuit bars or end rings. If there is evidence of faults, the rotor will be growl-tested.) The detection of any defect during testing shall be reported promptly to the City.
4. Documentation covered under this section shall include the condition of mechanical fits (i.e. shaft run out), cracked, broken or missing parts, test run at full voltage, current readings, meg reading

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and surge comparison test as received. The City shall be notified if acceptable criteria are not met.

ii. Motor Disassembly

1. Completely disassemble motor and steam clean all mechanical parts using a mild detergent compatible with winding insulation; thoroughly rinse; bake dry.
2. Disassembly documentation shall include the cause of failure and/or conditions contributing to failure.

iii. Motor Inspection

1. Visually inspect coils and windings for excessive wear, signs of conductor overheating or fatigue that possibly would not be apparent during an electrical test.
2. All stators shall be surge- tested with an electronic surge tester specifically designed to apply a surge voltage stress test simultaneously between turns of a coil, between phases, from winding to ground and to detect short-circuited turns in winding under test. Testing shall be per EASA, IEEE 62.2, 112 and 7.2.3 standards. Infrared imaging shall be provided pre and post test.

iv. Mechanical Fit

1. Measure the bearing bores, shells, housings and shaft journals using a micrometer. Shaft fits and housing fits shall comply with AR100-2020. Machine work shall be approved by the Project Manager before being performed or machine work may not be paid for. Bearing journals, seal surfaces and bearing housing restoration shall be done by metalizing and machining or boring and sleeving. Documentation of before and after measurements shall be made.
2. Replace bearings per manufacturer's specifications. All grease fittings, plugs, etc. shall be replaced unless otherwise indicated by the Project Manager. Bearings shall be properly lubricated and bearing oil reservoirs shall be drained for shipping and installation. The Contractor shall be responsible for filling the bearing oil reservoir upon installation. All equipment shall be tagged with information as to whether or not bearing oil reservoirs were filled and what type of lubricant was used.

v. Rotor Balancing

1. All rotors of motors rated at 50 HP/3600/1800 RPM and above shall be dynamically balanced, with the rotor running at rated speed where practical, but not less than 600 RPM in the balance stand. The balancing speed shall also be rapid enough so the balance machine sensitivity can reliably measure the maximum allowable residual unbalance.
2. A printout tape from the balance/analyzer shall be furnished detailing the final balance values. This tape will be attached to the recondition/repair/rewind documents when the motor is delivered.

vi. Motor Leads

Motor leads shall be permanently tagged with non-magnetic markers. Motor lead configuration shall not be altered.

vii. Insulation

1. Windings shall be double-dipped with Class H varnish and baked.
2. Machine-finished surfaces bore of the stator lamination and periphery of the rotor laminations shall be cleaned of all varnish and foreign materials. Photo documentation of this process shall be made prior to and after lamination.

viii. Final Test

1. A 1000 volt meg-ohm meter shall be used to verify insulation continuity. **This reading shall be 100 meg-ohms or greater and documented.** After reassembly, motor shall be test-run at rated

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voltage and frequency. No load voltage and phase currents shall be recorded. Vibration mills displacement shall be measured and recorded in the horizontal, vertical and axial planes on both ends of the motor, or top and bottom of vertical motors and documentation of current reading and vibration readings shall be provided to the Project Manager.

2. A 5KV meg-ohm meter shall be used to verify insulation continuity of all 4160V motors.

ix. Paint

1. Exterior of motor shall be properly cleaned of rust and foreign material, prime painted and finish painted with a good grade of machinery enamel, the same color as received unless otherwise specified. Nameplates, machined surfaces and internal parts shall be protected from paint.
2. When needed, the interiors of motor frames and parts shall be painted with an insulating paint. This includes rotors, bearing brackets, frame interiors and air deflectors. Windings shall not be painted.

x. Incidentals

1. In the event that the motor is in poor condition and cannot be repaired, reconditioned or made as new, the Contractor shall notify the Project Manager or Designee immediately.
2. All incidental parts requiring replacement, such as bearings, coils, etc. shall be considered included in other items of bid and no additional compensation shall be allowed.

7. REWINDING OF ELECTRIC MOTORS

When rewinding is done in conjunction with a recondition or repair, many of the items below will be redundant and shall not be performed or charged. The items below apply to stator only (including all labor, materials and testing necessary for work completion) and shall at a minimum include:

a. Pre-Disassembly Test

1. Using a 1000 meg-ohm meter, conduct verification for insulation integrity. Acceptable criteria is 5 meg-ohms or higher.
2. A 5KV meg-ohm meter shall be used to verify insulation integrity of all 4160V motors.
3. Verify that heaters are operational and other attached features such as thermocouples have continuity.
4. Pre-disassembly documentation shall include the condition of mechanical fits (i.e. shaft run out), cracked, broken or missing parts, test run at full voltage, current readings, meg reading and surge comparison test as received. The Project Manager shall be notified if acceptable criteria are not met.

b. Stripping

1. Windings shall be removed by temperature-controlled burnout with oven temperature suppression. Burn-out temperature shall not exceed 750 degrees Fahrenheit.
2. Windings shall be removed in such a fashion not to damage or distort the core iron. Upon removal of the old windings and insulation, the core shall be thoroughly cleaned and inspected for burrs, etc.
3. After the burnout procedure, the Contractor shall perform a stator core loss test to ensure the stator laminations are not heat damaged. If the stator core losses exceed four (4) watts per pound of core steel, notify the Project Manager prior to proceeding forward.

c. Winding

1. General: Rewound motors shall meet or exceed all O.E.M. operating characteristics, unless otherwise specified by the Project Manager. NEMA Class H insulation shall be used, unless otherwise specified. Magnet wire shall be a Quad Build, insulated wire of domestic manufacture that meets or exceeds NEMA specification MW-35A. After winding and **prior to resin treatment**, windings will be surge-comparison tested and the results documented.

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2. The copper cross-sectional area shall be at least as large as the original winding.
3. Resin Treatment: Windings shall be double-dipped with Class H varnish and baked.
4. Check all coils for overall coil shape. Perform a high frequency turn-to-turn dielectric test (surge test) in accordance with IEEE 522. Submit test results to the City. This shall be done prior to installation into the stator.

d. Motor Leads

Motor leads shall be replaced as the original leads. Leads will be permanently tagged with non-magnetic markers. Lead lengths shall be identified by the City when a request for service is made.

e. Insulation

Windings shall be double-dipped with Class H varnish and baked. Insulation shall be tested phase-to-phase and phase-to-ground at 1000 volts dc and yield a one minute test result of 1000 meg-ohms or better.

f. Final Test

A 1000 volt meg-ohm meter shall be used to verify insulation continuity. This reading shall be 100 meg-ohms or greater and documented. After reassembly, motor shall be test-run at full voltage and documentation of current reading and vibration readings shall be provided to the end user. (NOTE: a 5KV meg-ohm meter shall be used on all 4160V motors.) Copper DC resistance tests, phase-to-phase, on rotor winding from slip rings shall be performed. If the rewound rotor fails to pass any test, the rotor shall be rejected. The Contractor shall rebuild and retest until all tests are approved by the City.

8. WELL PUMPING REDEVELOPMENT SERVICES

Following mechanical redevelopment, the City may elect to have Contractor proceed with pumping redevelopment which shall consist of intermittent pumping and surging of the well and discharging to waste via permitted storm drain channels. The Contractor shall make adequate provisions for the disposal of water pumped from the well during redevelopment and/or test pumping. Such provisions shall include, but not be limited to, furnishing and installing discharge piping from the pumping unit of sufficient size and length to conduct water to a point as designated by the City and upon request providing temporary storage tanks to contain the discharge.

The Contractor shall also furnish acceptable orifices, meters or other approved devices, which will accurately measure the pumping rate. Upon request, an airline complete with properly calibrated gage shall be provided by the Contractor to measure the elevation of water in the well. Contractor may be required to collect pumped groundwater into sedimentation tanks prior to discharge to a storm drain in order to comply with the waste discharge requirements of the regulating agency(s). Redevelopment records shall be maintained showing production rate, total acre footage discharged, and all other pertinent information concerning well development.

9. PRODUCTION TESTING OF REHABILITATED WELLS

Upon request, the Contractor shall provide production testing of rehabilitated and or new wells to determine the optimum rate of pumping and shall include a step drawdown test and a constant-rate discharge test in accordance with AWWA A100-20 standards (latest edition). Prior to the start of the step drawdown test, a period of at least 24 hours of non-pumping conditions shall be met following the pumping development work. The Contractor shall provide qualified personnel during the step-drawdown and constant-rate discharge test and shall ensure proper operation of the pumping test equipment and assist in water level monitoring if requested by the City.

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a. Discharge Water

1. Discharge water shall be conveyed from the pump to the point of discharge at the well site. It is imperative to ensure that no damage by flooding or erosion is caused to the chosen drainage structure or water disposal site, or to nearby lands and/or streets.
2. The Contractor shall provide all piping and discharge lines. The point of discharge location will be provided by the City and the Contractor will be responsible for all devices and piping to convey the water to that discharge point.
3. No fluids will be permitted to flow offsite (except to proper drainage facilities) or to properties not owned by the City. All discharges will meet the requirements of the City's NPDES permits and Orange County Flood Control permits.

b. Step-Drawdown Test

1. Prior to starting the step-drawdown test in the well, the static water level shall be measured. The well shall be "step" tested at rates determined by the City. The step-drawdown test for the well is estimated to require approximately 12 pumping hours with each step being 3 to 4 hours in duration unless specified otherwise.
2. The Contractor shall operate the pump and change the discharge as directed by the City. Both a gate valve and an engine throttle shall control the discharge of the pump unless specified otherwise. The discharge shall be controlled and maintained at approximately the desired discharge for each step with an accuracy of plus or minus five (5) percent.
3. Pump discharge shall be measured with an instantaneous flow meter dial and a totalizer meter and stopwatch, as approved by the City. Both an air-line and electric sounder shall be furnished by the Contractor for water level measurements. During the step-drawdown test, the Contractor shall record sand content measurements at 30-minute intervals.

c. Constant Rate Discharge Test

1. After a 24-hour recovery period from the end of the step-drawdown test, the City may request the Contractor to perform a constant-rate discharge test. This test shall be run for a period of 24 hours, or until the pumping level remains constant for at least 4 hours, or until the City terminates the test. A recovery period of 24 hours shall follow the termination of the constant-rate discharge test, at which time the City will collect residual drawdown (recovery) data.
2. During the constant-rate discharge test, the Contractor shall also conduct the final sand content testing. The sand content shall be determined by averaging the results of samples collected at the following times during the final pumping test:
 - i. Five (5) minutes after start of the test
 - ii. After 1/4 of the total planned test time has elapsed
 - iii. After 1/2 of the time has elapsed
 - iv. After 3/4 of the time has elapsed
 - v. Near the end of the pumping test

d. Aborted Tests

1. Whenever continuous pumping at a uniform rate has been specified, failure of pumping operations for a period greater than one (1) percent of the elapsed pumping time shall require suspension of the test until the water level in the pumped well has recovered to its original level.
2. Recovery shall be considered "complete" after the well has been allowed to rest for a period at least equal to the elapsed pumping time of the aborted test, except that if any three (3) successive water level measurements spaced at least 20 minutes apart show no further rise in the water level in the pumped well, the test may be resumed immediately.
3. The City shall be the sole judge as to whether this latter condition exists.

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e. Records

1. The Contractor shall keep accurate records of the pumping test of the well and furnish copies of all records to the City upon completion of the test. The records shall also be available to the City for inspection at any time during the test. The records shall include physical data describing the construction features such as, but not limited to:
 - i. Well depth and diameter
 - ii. Complete screen description
 - iii. Length and setting
 - iv. A description of the measuring point and its measured height above land surface and/or mean sea level
 - v. The methods used in measuring water levels and pumping rates
2. The Contractor shall also keep records on the type of pumping equipment used at the well site including engines, drive components, bowls, lines, and shafts. The Contractor will keep records of operation of equipment during the test including engine rpm and horsepower, fuel use, and other essential information that will be useful in designing a pump system.

10. MACHINE WORK

Upon request, the Contractor shall provide machine work services. Machine work shall apply to, but not be limited to, the drilling and tapping of broken bolts, customized (1) - 2" coupling at the base of the discharge head, the repairing of damaged locking rings and stators, the replacing of power cords, power cord assemblies and power cord connectors and repairs to impellers, covers, volutes, mounting rails, bearing journals, discharge heads, and pump shafts.

11. DOCUMENTATION

All rehabilitations, repairs, and installations shall be supplemented with reports and documentation that provides accurate details about the new installation or repairs (including a pump and motor schematics and pump performance curves). Within ten (10) business days of completing a full rehabilitation, the Contractor shall provide these documents to the City for review. All new pump and motor installations shall come with plaques that maintain up-to-date and accurate information regarding the performance and capacity of the units.

Documentation shall include, but is not limited to, the following:

- a. Pre-Disassembly Testing report for all activities as described.
- b. Photo documentation of existing condition prior to fulfilling each described criteria of the disassembly test.
- c. Motor Disassembly report, including photo documentation before and after cleaning.
- d. Motor Inspection report, including stator core loss testing results. Photo documentation of coils, windings and conductors showing any signs of excessive wear or failure.
- e. Mechanical fit measurements shall be recorded as specified. Photo documentation shall be submitted for all replaced bearings, grease fittings, plugs, etc.
- f. Rotor balancing report as specified.
- g. Insulation report as specified above. Before and after photo documentation of the windings prior to varnishing and baking.
- h. Final test report as specified.
- i. Pump Reconditioning report as specified.
- j. Pump curve and pump/motor schematic.

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All testing, inspections and incidentals related to required reports shall be considered included within the bid items for said testing report and no additional compensation shall be allowed.

12. MINIMUM QUALIFICATIONS

- a. All electric motor repair shops shall be EASA Accredited and shall provide a copy of the certification upon request by the City. **Failure to provide a sub-contractor that is an EASA Accredited Member as a part of the proposal may be grounds for proposal rejection.**
- b. Contractor or Contractor's subcontractor shall be certified as an UL Facility and shall provide a copy of the certification upon request by the City.
- c. Contractor shall be responsible for obtaining all original equipment manufacturer (OEM) technical documents, drawings and parts when necessary.
- d. Contractor shall have all engineering, design, metalizing, welding, heat treating, machining, balancing, calibrating and testing capabilities necessary to completely refurbish/rewind electric motors.
- e. Equipment used for inspecting, calibrating and testing pumps and motors shall be up-to-date and have calibration certificates, less than one year old, traceable to National Institute of Standards and Technology (NIST) standards where applicable.

13. SECURITY REQUIREMENTS

Public Works Agency field representative will unlock the Public Works Agency facilities entry gates on the first day of work to allow Contractor access. Contractor shall then supply their own padlock(s) for some entry gates as specified by the Public Works Agency. Contractor's padlock(s) shall lock onto the Public Works Agency's padlock connecting to the chain-link, which enables both the Public Works Agency field representative and Contractor to unlock the entry gates. After completion of work, padlock(s) shall be removed by the Contractor.

Contractor and/or subcontractors shall notify the Public Works Agency field representative upon arrival and departure to or from jobsite.

14. PARTS, MATERIALS AND WARRANTIES

The Public Works Agency will reimburse the Contractor for the cost of repair parts, materials, and replacement equipment, plus 15 percent markup, provided the Contractor has obtained the City's prior written approval of Contractor's written estimate. All replacement equipment shall be approved by the Public Works Agency prior to the purchasing of the equipment. The Contractor shall provide manufacturer documentation to the Public Works Agency for any replacement equipment. The Contractor shall submit an invoice with attached applicable receipts for a particular job to the Project Manager.

The Contractor shall assure that all materials, parts, and workmanship supplied shall be free from original or developed defects. Contractor shall provide a minimum of one year warranty for materials and parts and thirty days on workmanship. Should original or developed defects and/or failures appear within the minimum warranty of one year after work completion, Contractor shall, at its expense, rectify such defects and/or failures and make all replacements and adjustments that are required.

Corrective work shall be performed by the Contractor and given the highest priority after Public Works Agency's notification to do so, and shall be completed to the satisfaction of the Project Manager. The Contractor shall proceed diligently to complete said work within the time allotted as approved by the Project Manager.

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15. AS-NEEDED REPAIRS

At the direction of Project Manager, the Contractor shall provide a written estimate including labor and parts, materials and equipment needed to perform the As-Needed Repairs. Upon written approval from the Project Manager, the Contractor shall perform the As-Needed Repairs.

At its sole and absolute discretion, Public Works Agency reserves the right to accept or reject the quote provided.

16. VALUE ADDED SERVICES

The Contractor may propose additional related services that the City has not specifically identified in this RFP to accomplish the stated goals of this RFP. Value added related services will be considered by the City and may or may not be incorporated in the agreement. All parts and materials must be supplied new and factory approved.

Additional work/locations may be added during the Contract period. Upon request by the Project Manager, the Contractor shall provide a written quotation for any additional work/location(s), based on the rates submitted. The Contractor shall be paid for additional work/locations in accordance with the rates submitted. Upon Contract Manager's negotiation and acceptance of the Contractor's written quotation the additional work/location(s) may be added to the Contract by amendment or change order.

17. STORAGE FACILITIES

The Public Works Agency will not provide storage facilities for the Contractor. The Public Works Agency will not be liable or responsible for any damage, by whatever means, or for theft of materials or equipment on the jobsite.

18. CLEANING AND RESTORATION OF SITES

The Contractor shall visually inspect the site during and after work is performed for liquid spills, oil and grease deposits, hard water strains, debris, trash, refuse, etc. Upon request, the Contractor shall provide professional cleaning services to remove persistent deposits such as oil and grease stains by means of pressure washing and chemical cleaning with detergents, caustic sodas, etc. that are eco-friendly. The sites shall be cleaned and restored to previous if not better condition after any well rehabilitation work performed that requires dismantling, installing or fabricating.

The Contractor shall be responsible for the following:

1. Liquid and oil deposits

The Contractor is responsible during the duration of the job to contain and clean up any types of spills or leaks. This pertains to equipment, vehicles, tools, etc. Spill containment and or absorbent ground tarp is required for equipment stored on site over long periods of time. All containers of fuel, solvents and or chemicals shall be stored on spill containment berms or secondary containment.

2. Materials

The Contractor is responsible for the removal of all used materials through the duration and completion of the job, and all debris derived from these services shall be removed from City property. Disposal shall be at the Contractor's expense and that includes but is not limited to debris, trash, refuse, etc.

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3. Restrooms

When applicable, the Contractor shall furnish their own restroom facilities and are responsible for said facilities onsite.

4. Storm Water Pollution Prevention (SWPP)

The Contractor shall not allow any debris from its operations under this Contract to be deposited in the storm drains and/or gutters in violation of the City's NPDES permit.

5. Site Maintenance

The Contractor shall maintain the site and keep the premises free from accumulation of waste material and the Contractor shall remove all rubbish, implements, surplus material, and temporary facilities generated by the work.

6. Cleanup

The Contractor is responsible for leaving the work area free of all debris generated by this work at the end of each workday and for final cleanup when the job is completed.

The City shall perform inspections of the site prior to the work being performed and identify the conditions of concerns if any remain during and after the work is completed.

19. SPECIAL SAFETY REQUIREMENTS

All Contractor's operators shall to observe all applicable State of California Occupational Safety and Health Administration (Cal/OSHA) and Public Works' safety requirements while at Public Works job sites.

20. ADDITIONAL RESPONSIBILITIES OF THE CONTRACTOR

Contractor and or Contractor's subcontractors must possess and maintain the following active and valid licenses as applicable to individual subcontractor:

1. State of California Water Well Drilling Contractor's C-57 License or Contractor's "A" License.
2. State of California Limited Specialty Contractor's C-61, subcategory Machinery and Pump Contractor's D-21 License.
3. Have a minimum of five years of experience performing groundwater wells and pump pulling services. If a Subcontractor is used, Subcontractor must also have a minimum of five years of experience performing services as stated above. Also, the Contractor's project manager(s), and Subcontractor's project manager(s), if any, must have a minimum of five years of experience performing groundwater wells, pump pulling services, video inspections and/or motor repairs. In addition, the Contractor's project manager(s) and Subcontractor's project manager(s), if any, must have the following certifications:
 - State of California Division of Occupational Safety and Health Administration Hazardous Waste Operations Emergency Response (HAZWOPER) Certification
 - National Ground Water Association (NGWA) Certification - Pump Installation
 - Electrical Apparatus Service Association (EASA) Accredited Member Status

Provide all labor, equipment, materials, tools, and supervision required to perform as-needed pump pulling

EXHIBIT B

CITY OF SANTA ANA PUBLIC WORKS AGENCY

WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES RFP NO.: 21-059

**PROPOSAL BY: RICKY TRUJILLO
LAYNE CHRISTENSEN COMPANY**

**1717 W Park Ave.
Redlands, CA 92373
Ph: 909-390-2833
Fax: 909-390-5540
WWW.LAYNE.COM**



A GRANITE COMPANY



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COVER LETTER

Name of Bidder: Layne Christensen Company

Entity: Corporation

Business Address: 1717 W Park Avenue
Redlands CA 92373

Phone : 909 390-2833


Website: www.layne.com

FTI: 48-0920712

DIR: 1000004273

CSLB: 510011 Class: A C57 C61/D09 C10 C61/D21

Contact: Ricky Trujillo, Account Manager
Cell: 909 957-7782
Fax: 909 390-5540
Email: ricky.trujillo@gcinc.com
Address: 1717 W Park Ave., Redlands CA 92373



Todd Howard, General Manager

5/18/2021
Date

WATER RESOURCES

1717 West Park Avenue, Redlands, CA 92373 | Office: 909.390.2833 | Fax: 909.390.6097 | layne.com



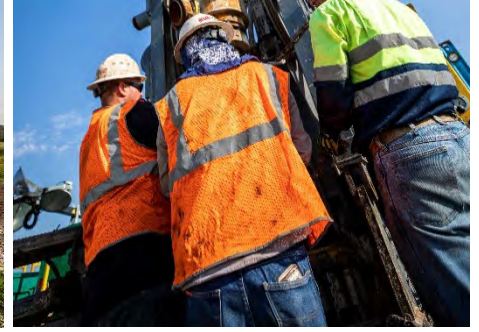
City of Santa Ana On-Call Well & Pump Maintenance Services

Layne Christensen Company is pleased to submit our proposal for the above referenced project. Upon review of our capabilities, project approach and references, we believe you will choose Layne as your preferred partner on this project. Layne understands the contract service provider may be needed to respond to both standard scheduled maintenance emergency and non-emergency types of request and is fully prepared to satisfy these types of request.

Layne has a long history of outstanding work performed and response times with other government entities and water departments through contract service agreements having similar requirements and scope. This is accomplished in part by our ability to allocate resources in a quick and efficient manner. Layne has 12 fully equipped pump rigs and cranes that are located at our Redlands Facility, located less than 50 miles from the City. Our Redlands facility also houses a fully functional machine shop that helps with quick turnaround, repairs of well and booster pumps. Layne also has locations in Santa Paula and Hanford working in nearby location which can be re-located to other jobsites if productivity and schedule permits. Layne is fully confident and able to respond to the needs with prompt and speedy services. Because of the various Layne locations throughout the United States, we have national agreements with vendors that allows us to purchase pump materials at discounted price. This allows us to pass on these savings to our partners.

The project will be executed by Layne's Water Resource Division located in Redlands, CA. This group provided a full suite of water related products and services. The project references and experienced detailed in the following pages will show that we are dedicated to completing and all projects in safe, timely, efficient fashion. You will have the full resources of Layne's Water Resource Division committed to the successful outcome of all projects

If you have any questions regarding our submittal or require additional information, please do not hesitate to contact Ricky Trujillo, Account Manager at 909.390.2833/ Mobile 909.957.7782 or ricky.trujillo@gcinc.com. We look forward to being deemed qualified and responsible bidder and welcome the opportunity to meet with you and your team to discuss any questions in regards to this project



SECTION 03: GENERAL COMPANY INFORMATION AND EXPERIENCE

ABOUT LAYNE

Established in 1882, Layne offers a rich history of delivering safe, professional, and reliable water solutions throughout North America.

Layne began as a domestic water-well drilling company in South Dakota. From those humble roots Layne has evolved into a national water and minerals solutions provider serving both public and private sectors. In June 2018, Layne became a wholly owned subsidiary of Granite Construction, Inc. Layne is headquartered in the Woodlands, Texas and has 24 offices from upstate New York to Southern California.

From water-well drilling to related infrastructure services, Layne is an expert at providing solutions to their clients for their water needs, with an enduring commitment to safety. Our specialties include water-well drilling, specialized drilling techniques, pump design and service, well rehabilitation, and water treatment. Layne offers comprehensive solutions for government agencies, commercial and municipal water suppliers, industrial, and agricultural clients. Layne teams identify and develop new water sources and deliver potable water to communities and facilities throughout North America.

Water users look to Layne when they are seeking a trusted partner that will consistently deliver projects safely, on time, on budget, and as promised. Layne's full circle of water solutions provide clients a single point of accountability for even the most complex projects. With 138 years of experience, Layne has earned a reputation for minimizing risk while maximizing peace of mind through operational excellence and client satisfaction.

The water resources division is the national leader in water wells. Layne has drilled nearly 1,000 wells in the past 5 years alone, with a combined pumping capacity of 1 billion gallons per day. In Layne's 130+ year history, we have successfully completed more than 50,000 water wells. As a trusted partner, our team provides capabilities to optimize our customers assets. Our team is largely comprised of veteran employees providing exceptional service that renders success to each client by increasing production, improving efficiency, and reducing cost.

Layne is uniquely qualified to safely complete the work under this contact per the required specifications and expectations for the City of Santa Ana. Layne is a licensed well driller in the State of California. Our license number is 510011.

CORPORATE RESOURCES



Granite Construction Incorporated offers a national workforce of 7,200 and a combined revenue of \$3.4 billion annually. As an industry leader in the transportation, water resources and mineral exploration markets throughout North America, Granite provides infrastructure solutions for construction, program management, alternative procurement, and is a vertically integrated contractor with aggregate materials reserves throughout the U.S.

RECENT ACCOLADES:

- 2019, Named to World's Most Ethical Companies List for ten consecutive years
- 2018, Forbes Magazine, one of America's Best Mid-Size Employers
- 2018, Engineering News Record (ENR) Magazine Top 400 Contractors List - Ranked #24
- 2018, ENR Sourcebook, #1 Highways, #5 Mining, #6 Solar, #7 Bridges, #10 Dams/Reservoirs, #16 Airports, #17 Mass Transit/ Rail, #21 Power

SAFETY BY CHOICE

The protection of our employees, the public and the environment is at the core of everything we do. Safety is more than a business commitment—it's our moral obligation.

MARKETS

Granite specializes in complex infrastructure projects for transportation, industrial and specialty markets.

SERVICES

General Contracting, Construction Management, Design-Build, CMAR, CM/GC, Pavement Preservation, Disaster & Emergency Response, and Construction Materials Testing.

NATIONAL WORKFORCE

7,200 employees

HEADQUARTERS

Established in 1922, Corporate Headquarters located on 585 West Beach St., Watsonville, CA 95076. Phone (831)724-1011

STOCK MARKET/TRADING SYMBOL

New York Stock Exchange (NYSE: GVA) and is part of the S&P MidCap 400 Index, the MSCI KLD 400 Social Index and the Russell 2000 Index.

OFFICE LOCATIONS

Granite and its subsidiaries operate over 75 office locations throughout the United States, Canada, Mexico, and South America.

EQUIPMENT FLEET

Granite's equipment fleet exceeds \$650 Million and includes more than 1,500 pieces of heavy equipment and 3,500 trucks, trailers, and vehicles.

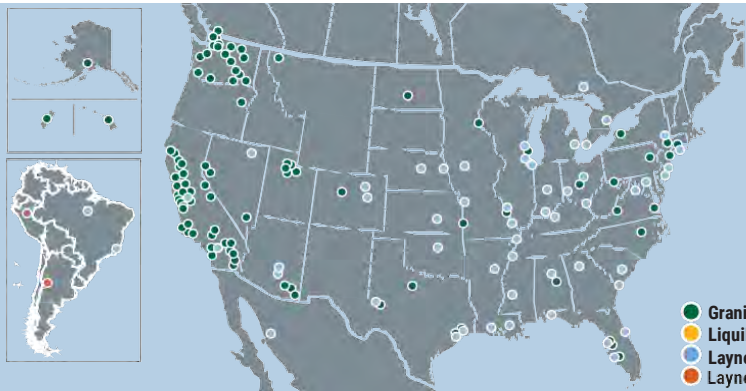
CONSTRUCTION MATERIALS

Granite operates 50 aggregate facilities throughout the west, producing specialty aggregates, sand/gravel, and asphalt concrete.

ANNUAL REVENUE & BONDING CAPACITY

\$3.4 billion annual revenue

\$5 billion aggregate bonding capacity



- Granite
- LiquiForce
- Layne
- Layne Affiliates

LAYNE CORPORATE COMMITMENT TO THE CITY OF SANTA ANA.

Layne's senior management teams support the effort to secure and complete this project work. Senior management has provided its support in committing company-wide resources to successfully complete this project.





KEY PERSONNEL FOR PROJECT EXECUTION

Layne's key personnel for the completion of this project have been attached in Section 4.



RELATED PROJECT EXPERIENCE

Our project experience has been detailed and attached in Section 5.

Having successfully completed other similar projects, Layne is confident that we have the proper resources available to complete this project on time.

The foundation of Layne's project execution is open, honest, and daily communication. Our Operator, Project Manager, and Operations Manager communicate daily. Layne's field crews are provided with a detailed job letter that explains the entire scope of work, completion schedule, major material items deliveries, and the use of subcontractors required to successfully carry out the timely completion of our work.

Our operator will communicate daily with your field representative the status of the work and discuss critical path items that will need coordination between our two companies. Our project manager and field operations manager will communicate with your office project manager frequently to ensure project objectives are being completed as specified.

Our pre-mobilization activities will consist of the following:

- Project scheduling and material ordering will commence once the written contract for the project is executed.
- Utility locates will be initiated as required.
- Obtain any required work permits.
- Ensure field crews have proper training
- Ensure all field equipment has been inspected and readied for field work
- Project submittals will be provided as required. Provide SDS for all chemical products brought onto the site.
- Layne will develop the field performance plan, site-specific health and safety plan, quality assurance/quality control plan and activity hazard analysis.
- A pre-mobilization conference will be completed in advance of mobilization to confirm and verify project completion parameters.

- Following the pre-mobilization conference, Layne will mobilize our equipment, tooling, personnel, and materials to the job site.
- Once fieldwork begins, Layne will perform the following items:
 - Daily equipment inspections
 - Daily tailgate safety meetings before the beginning of each work shift
 - Daily communication with the on-site field representative
 - Daily "look ahead" of upcoming work and complete pre-planning objectives

There will be occasions when our plans and procedures will have to be modified to meet unanticipated conditions, weather conditions, or other unforeseen external factors. These changes will be documented and discussed with your firm as required.



SAFETY

Layne considers safety as our number one priority on this project.

Layne safety performance standards meet and often exceed compliance with federal, state, and local laws and regulations. As a result of this culture, Layne's safety record has outpaced industry averages because we know that safer employees, contractors, and work environments result in more effective operations.

Layne believes that all accidents are preventable, so we continue to work towards the goal of 100% safe working hours. Layne's employee commitment to HSE is as stated below:

- I will take ownership of safety for myself and those around me.
- I will respect the communities I work in and always be a role model for safe behavior.
- I will assess the risks involved in every task before I begin.
- I will properly inspect, maintain, and operate all vehicles, tools, and equipment.
- I will exercise STOP WORK where I perceive a situation to be unsafe or otherwise have concerns about safety.

At Layne, we have the following expectations of each other:

- We expect that every employee is committed to ZERO incident operations and performing work safely or not at all.
- We expect that employees will follow and hold your co-workers accountable for following all of our safety policies and wearing/using all of the required PPE.

- We expect that employees will report all incidents (injury, illness, property damage, environmental or vehicle) so that we can ensure that we do a thorough incident investigation and prevent reoccurrence.
- We expect that employees will not text and drive and use a hands-free device when talking on a cell phone.
- We expect that employees will do a JSA before each task (at a minimum once per shift for each task)
- We expect that employees will operate and maintain all vehicles, tools, and equipment as if it were your own
- We expect that if an employee see something that does not look or feel right, they will say something.

To carry out a safe work environment, Layne will implement the following improvement cycle:

- 1) Plan: Plan the work so that all crew members are protected and know what needs to be done.
 - Participate and follow the daily Take 5 plan
 - Be active in protecting oneself, others, the public and the environment
 - Participate in safety processes
 - Stop and ask for guidance if you do not understand or have any doubts about a how to do something
 - Set a plan in motion and stick to the plan
 - Follow safe work practices
 - Don't deviate from your supervisors Take 5 without approval and a new plan
 - Assess hazards continuously throughout the shift
 - Maintain good housekeeping and organization
 - Request training or guidance
 - Report Near Misses
 - Set a good example
- 2) Check: Make sure the plan is the right plan
 - Conduct observations and planned inspections
 - Speak up when an unsafe act or condition is noticed
 - Don't walk by something that is wrong
 - Evaluate the tasks recorded in the Take 5 and note any confusion or additional direction needed
 - Ask for feedback from the crew
- 3) Adjust: Use the information you get from checking. Continue the same path or adjust the plan.
 - Employees notify your supervisor of unsafe work conditions that exist OR that you THINK might exist so the plan can be adjusted.
 - Supervisors use your observations and inspections to improve the plan.

If required, Layne's HSE department can deliver in-house safety training to any team member requiring it that covers all phases of the health and safety field and it is compliant with the most up-to-date OSHA, MSHA, and DOT regulations.

On the job site, all Layne field employees will possess the necessary personal protective equipment and detailed, site-specific safety information that covers issues including

confined space entry, environmental health and safety plans, and on-site monitoring. Every Layne field employee has Stop Work Authority because every employee is responsible for safety.

Layne has a comprehensive, industry-leading health and safety program, which can be viewed at www.graniteconstruction.com/company/safety-choice. All Layne field employees have access to this data in the development and implementation of site-specific health and safety plans.

Our safety program is composed of, but not limited to, the following:

- Supervisor's Accident Prevention Manual
- Safety Practices Manual
- Hazard Communication Manual
- Fleet Manual
- Emergency Response Plans
- Site Specific Health and Safety Plan Auditing Forms
- Procedures Mentoring Program

All Layne field employees tasked with project execution have OSHA construction site training (forklifts, backhoes, manlifts, and cranes). Most of the Layne field employees have Red Cross First Aid and CPR training. As required, training compliance documentation can be provided prior to project mobilization.

Our standard personal protective equipment for each field employee is as follows: hard hats per ANSI Z89.1-1997, safety glasses with side protection per ANSI Z87.1-1989, steel toed boots per ASTM F2413-11, high visibility vest or shirt per ANSI/ISEA 107-2010, hearing protection and appropriate work gloves. While working in a high dust environment, employees are required to wear dust masks. All company vehicles come equipped with a working-Class A/B/C fire extinguisher, first aid kits, and have current proof of insurance and vehicle registration.

Layne is committed to working diligently and safely on this project. A site-specific health and safety plan will be prepared and administered while on site. Layne will practice a behavioral-based safety program that utilizes a hazard identification risk assessment. Each work shift will begin with a tailgate safety meeting. The crew will review the expected field operations each day and determine what the potential risks are in performing that work. The crew will then review and implement safe work practices to eliminate and/or reduce the risk of a safety incident. All our crews are expected to work in the "green" (safe) zone and to not take any risks with respect to performing their work. All field employees and site visitors can stop work if they feel there is a safety risk associated with performing the work.



QUALITY CONTROL

Layne utilizes a large number of reporting measures to ensure quality assurance and quality control for our drilling and test pumping operations.

These reports would be utilized throughout the project. A typical summary of the items covered in our program would include the following: Non-DOT and DOT travel, rig up operations, review of well design, daily shift reports, daily safety inspections, tailgate meetings per working shift, drilling operations (mud properties, deviation survey, pipe tally, etc.), material inspections prior to installation, well installation (mud thinning operations, casing/screen/tremie tally, annular material installation

(actual vs theoretical), etc.), well development (methodology/time spent per foot of screen, material recovered, water quality parameters and test pumping (water quality, sand content, etc.). Copies of our reporting measures are provided to the Owner. Project specifications are reviewed prior to field work and any project specific items that are not covered in our normal QA/QC program are added to meet the needs of the project.



NOISE REDUCTION

Layne has the ability to self-perform the installation of sound walls or subcontract this service out.

A larger number of our drilling operations are completed in urban areas where sound minimization is required. In addition to installing sound walls, Layne uses whisper quiet generators and sound mitigating mufflers on other equipment.



TEAM STRUCTURE

PROJECT ORGANIZATION CHART - LAYNE CHRISTENSEN

LAYNE CHRISTENSEN CO.
1717 W PARK AVE.
REDLANDS CA 92373
PH: (909) 390-2833
FX: (909) 390-5540



TODD HOWARD
GENERAL MANAGER
REDLANDS, CA OFFICE

MARK HOWARD
BUSINESS DEVELOPMENT MANAGER
REDLANDS, CA OFFICE

RICKY TRUJILLO
ACCOUNT MANAGER
REDLANDS, CA OFFICE

GARY GRACE
PROJECT MANAGER
REDLANDS, CA OFFICE

RIGOBERTO PEREIDA
R & I SUPERVISOR
REDLANDS, CA OFFICE

RON WEBER
FIELD SUPERVISOR
REDLANDS, CA OFFICE



Key Personnel

TODD HOWARD, GENERAL MANAGER

Mr. Howard has been in the water well industry since 1983, specializing in water well rehabilitation, pump engineering and application. Mr. Howard manages the Western Regions Operations for pump repair, well rehabilitation, electrical and construction services. He is also the current Chair of Layne's National Rehabilitation Committee. Mr. Howard developed and implemented the Roto Scrub well rehabilitation technology as well as Layne's proprietary NSF certified well chemistry in use today throughout the Western United States

MARK HOWARD, BUSINESS DEVELOPMENT MANAGER

Mr. Howard has been in the water well industry since 1978, specializing in water well rehabilitation, pump engineering, and application. Mr. Howard manages the Western Region in Business Development and oversees the Account Management team.

RICKY TRUJILLO, ACCOUNT MANAGER

Mr. Trujillo has 21 years of experience in all aspects of water supply services. He specializes in municipal and industrial water supply design, construction services, well rehabilitation, pump repair and troubleshooting, as well as investigative and remedial services. Mr. Trujillo manages projects through completion, to ensure timely and successful delivery of every project, with monthly/quarterly reports as may be required for each project.

GARY GRACE, PROJECT MANAGER

Mr. Grace has in-depth knowledge and experience in the following operations: Deep Well Pumps and Booster, Water Well Rehabilitation, Well Destruction, and Pump Installation. Mr. Grace currently estimates costs of projects, quotes and bids jobs as well as manages ongoing projects. Communicates job expectations and manages sub-contractors performance, stays within budget by monitoring expenditures, identifying variances and calculating required resources. Ensured all local regulations were met and codes enforced, avoiding fines and delays. He uses his field experience and applies it to his daily tasks as a project manager. Mr. Grace is able foresee some potential issues from on the job experiences and adjust his quotes and estimates to assure the field crew has the budget and the equipment to get the job done safely and efficiently. He was a pump rig operator for 10 years on Smeal, Taylor, Simco and Old General "A" frame rigs.

RIGOBERTO PEREIDA, R & I SUPERVISOR

Mr. Pereida has in-depth knowledge and experience in the following operations: Deep Well Pumps and Booster, Water Well Rehabilitation, Well Destruction, and Pump Installation. He has successfully completed rehabilitations and aqua freed process system. Mr. Pereida has supervised major projects by selecting, assigning, and scheduling employees. Communicated job expectations and managed sub-contractors performance, stayed within budget by monitoring expenditures, identifying variances and calculating required resources. Ensured all local regulations were met and codes enforced, avoiding fines and delays. He is a certified crane operator on swing cab and fixed cab cranes large and small. He holds a Class A with endorsements for hazmat, tanker, doubles and triples. Pump rig operator for 13 years on Smeal, Tayler, Simco and Old General "A" frame rigs and cranes.

WATER RESOURCES

RONALD WEBER, FIELD SUPERVISOR

Mr. Weber has been in the Water Industry since 1979. He is knowledgeable of turbine, submersible and booster pump installation. As well as mud rotary, reverse and auger rig drilling. He will determine the safe production rate of each water well; and take accurate measurements of flow, pumping level, specific capacity and sand production. Knowledgeable in the use and safe handling of Cl₂, Muriatic Acid, sodium Thiosulfate, Soda Ash and Caustic Soda. Areas of specialized competence are water well development; pump efficiency testing, injection and production well rehabilitation, water pump installation, and water well drilling.

MAX PALMER, AREA AND ELECTRICAL MANAGER

Mr. Palmer is responsible for schedules, assigning work and training employees. He also ensures the proper maintenance of equipment, compliance with electrical codes and adherence to safety regulations. Mr. Palmer will assist with electrical system installation, troubleshooting and repair as needed. Designing electrical systems and circuits, as well as contributing to improved designs



Relevant Project Experience / Client References

City of Riverside-3750 University Ave, Riverside CA

Well Rehabilitation Project 2019-2020-Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump, Pump Development Repair and Install New Turbine Pumps.

Contract Value \$550,000.00

Contact Information:

Eric Escobar, PE
Public Utilities, Water Engineering
Main (951) 826-5482
Direct (951) 826-5821
Cell (951) 288-7139
Email EEscobar@riversideca.gov

Eastern Municipal Water District- 2270 Trumble Rd, Perris CA 92572

Ongoing Well Maintenance And Repair Services- Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump, Pump Development, Engineer Repair and Install New Turbine Pumps

Contract Value \$300,000-\$600,000 / Year

Contact Information:

Dave Brown
Mechanical Service Manager
Main (951) 928-3777 ext.6269
Cell (951) 300-7162
Email browne@emwd.org

Los Angeles Department of Water & Power-111 N. Hope St, Los Angeles CA 90012

Ongoing Well Maintenance And Repair Services- Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump, Pump Development, Installation of New and Repaired Submersible pumps

Contract Value \$900,000 / Year

Contact Information:

Ralph Herrera, PE
Water Operation Division
Main (213) 367-8614
Email Rafael.herrera@ladwp.com

WATER RESOURCES



City of Beverly Hills-345 Foothill Road, Beverly Hills CA 90210

Ongoing Well Maintenance And Repair Services- Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump, Pump Development, Engineer Repair and Install New Turbine Pumps, Booster Pump Removal, Repair & Installation

Contract Value \$200,000-\$600,000 / year

Contact Information:

John Moreno
Water System Supervisor
Main (310) 288-2802
Cell (805) 340-0684
Email jmoreno@beverlyhills.org

Los Angeles County Department of Public Works- 900 S Fremont Ave, Alhambra CA 91803

West Coast Basin Sea Water Barrier Injection Well Redevelopment Services. Injection Pipe Removal Video Survey, Well Redevelopment, Repair & Installation of Injection Piping

Contract Value \$ 950,000 / Year

Contact Information:

Adam Lee
Storm Water Engineering Division Ass. Civil Engineer
Main (626) 458-6185
Email awlee@dpw.lacounty.gov

San Bernardino County - Special Districts Dept

Maintenance Contract 16-370- Well & Pump Maintenance

Contract Value \$ 1,500,000 **Completion Date:** June 30, 2019

Contact Information:

Rich Allen
Main (760) 962-1508
Email rallen@sdd.sbcounty.gov

WATER RESOURCES

CITY OF SANTA ANA
RFP NO.: 21-059
WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES

APPENDIX

ATTACHMENT 3: PROPOSER'S REFERENCES

List and describe fully the contracts performed by your firm which demonstrate your ability to provide the supplies, equipment or services included in the scope of the proposal specifications. Attach additional pages if required. The City reserves the right to contact each of the references listed for additional information regarding your firm's qualifications.

Reference

Customer Name: City of Riverside Contact Individual: Eric Escobar
Address: 3750 University Ave Phone Number: (951) 288-7139
Riverside CA Facsimile Number: _____
Contract Amount: \$550,000.00 Year: 2020

Description of supplies, equipment, or services provided:

Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump Pump Development Repair and Install New Turbine Pumps.

Reference

Customer Name: City of Beverly Hills Contact Individual: John Moreno
Address: 345 Foothill Road Phone Number: (310) 288-2802
Beverly Hills CA 90210 Facsimile Number: _____
Contract Amount: \$200,000-\$600,000 / year Year: Ongoing

Description of supplies, equipment, or services provided:

Ongoing Well Maintenance And Repair Services- Pump Removal, Video Log, Wire Brush and Bail, Chemical Injection, Dual Swab Airlift, Furnish Install & Remove Test Pump, Pump Development, Engineer Repair and Install New Turbine Pumps, Booster Pump Removal, Repair & Installation

Reference

Customer Name: City of San Jacinto Contact Individual: Art Mullen
Address: 166 East Main Street Suite 2 Phone Number: (951) 487-7381
San Jacinto, CA 92583 Facsimile Number: _____
Contract Amount: \$ 255,000 Year: 2020

Description of supplies, equipment, or services provided:

Bath Well- Pump removal, Well rehabilitation, Well development, Furnish & Install 700' Vertical Turbine Pump Equipment

CITY OF SANTA ANA
RFP NO.: 21-059
WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES

Reference

Customer Name: City of Victorville Contact Individual: Arnold Villareal
Address: 14343 Civic Drive Phone Number: (760) 955-2993
Victorville, CA 92392 Facsimile Number: (760) 269-0088
Contract Amount: \$197,000 Year: 2018

Description of supplies, equipment, or services provided:

Well 136 Full Rehab & Test Pump - Pump equipment was removed due to lost in production. The well was video logged, wire brushed, roto scrubbed, injection of Innova solution, dual swabbed airlifted, and test pumped. Removal and installation of 382' of 8" x 2.5"x 1.5" Oil lubricated pump assembly. 1500 gpm @ 500 TDH with a pump setting of 460'. 1000 HP test eng

**THIS FORM MUST BE COMPLETED AND INCLUDED WITH THE PROPOSAL.
PROPOSALS THAT DO NOT CONTAIN THIS FORM WILL BE CONSIDERED NONRESPONSIVE.**

Licenses & Insurance



CONTRACTORS STATE LICENSE BOARD



▼ Contractor's License Detail for License # 510011

DISCLAIMER: A license status check provides information taken from the CSLB license database. Before relying on this information, you should be aware of the following limitations.

- ▶ CSLB complaint disclosure is restricted by law (B&P 7124.6) If this entity is subject to public complaint disclosure click on link that will appear below for more information. Click here for a definition of disclosable actions.
- ▶ Only construction related civil judgments reported to CSLB are disclosed (B&P 7071.17).
- ▶ Arbitrations are not listed unless the contractor fails to comply with the terms.
- ▶ Due to workload, there may be relevant information that has not yet been entered into the board's license database.

Data current as of 5/21/2021 4:18:26 PM

Business Information

LAYNE CHRISTENSEN COMPANY
1717 WEST PARK AVENUE
REDLANDS, CA 92673
Business Phone Number:(909) 390-2833

Entity Corporation
Issue Date 05/04/1987
Expire Date 05/31/2023

License Status

This license is current and active.



State of California

Department of Industrial Relations

Back to DIR>> (<https://www.dir.ca.gov/>)

Contractor Information

Legal Entity Name LAYNE CHRISTENSEN COMPANY
 Corporation
 Active
 1000004273
 07/01/20
 06/30/23
 1717 W PARK AVE REDLANDS 92373 CA United States of America
 1717 W PARK AVE REDLANDS 92373 CA United States of America
 monique.lewinski@gcinc.com
 LAYNE CHRISTENSEN COMPANY
License Number (s)
 CSLB:510011
 CSLB:510011

Legal Entity Information

Corporation Entity Number: 247-53949
Federal Employment Identification Number: 480920712
President Name: Robert C. VanGorder
Vice President Name: Kent M. Wartick
Treasurer Name: Kenneth B. Olson
Secretary Name: Aaron Storm
CEO Name:

Agency for Service:

Agent of Service Name: CT CORPORATION SYSTEM
Agent of Service Mailing Address: 818 WEST 7TH STREET LOS ANGELES 90017 CA United States of America

Worker's Compensation

Do you lease employees through Professional Employer Organization (PEO)?: No
Please provide your current worker's compensation insurance information below:

PEO	PEO	PEO
PEO InformationName	Phone	Email
Insured by Carrier		
Policy Holder Name:	LAYNE CHRISTENSEN CO	
Insurance Carrier:	Valley Forge Ins Co	
Policy Number:	WC 274978630	
Inception date:	10/01/20	
Expiration Date:	10/01/21	

About DIR

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Acceso al idioma (<http://www.dir.ca.gov/Bilingual-Services-Act/default.html>)Frequently Asked Questions (<https://www.dir.ca.gov/faqslist.html>)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
09/24/2020

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.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LIC #0C36861 Alliant Insurance Services, Inc. 100 Pine Street, 11th Floor San Francisco, CA 94111	1-415-403-1491	CONTACT NAME: Kimberly Leikam PHONE (A/C, No, Ext): 415-403-1491 E-MAIL ADDRESS: kleikam@alliant.com	FAX (A/C, No): 415-874-4818
INSURED Layne Christensen Company 585 West Beach Street Watsonville, CA 95076		INSURER(S) AFFORDING COVERAGE INSURER A: VALLEY FORGE INS CO 20508 INSURER B: CONTINENTAL CAS CO 20443 INSURER C: TRANSPORTATION INS CO 20494 INSURER D: INSURER E: INSURER F:	

COVERAGES

CERTIFICATE NUMBER: 60314837

REVISION NUMBER:

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.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:		GL2074978689	10/01/20	10/01/23	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 2,000,000 MED EXP (Any one person) \$ Nil PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 10,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		BUA2074978692	10/01/20	10/01/23	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		CUE2068209453	10/01/20	10/01/21	EACH OCCURRENCE \$ 8,000,000 AGGREGATE \$ 8,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY A ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) C If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N/A	WC274978630 (CA) WC274978644 (AOS/StopGap) WC274978658 (NY) WC274978661 (MT, WI, HI)	10/01/20 10/01/20 10/01/20 10/01/20	10/01/21 10/01/21 10/01/21 10/01/21	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 2,000,000 E.L. DISEASE - EA EMPLOYEE \$ 2,000,000 E.L. DISEASE - POLICY LIMIT \$ 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

EVIDENCE OF INSURANCE FOR BIDDING, PRE-QUALIFICATION AND COMPLIANCE PURPOSES

CERTIFICATE HOLDER

CANCELLATION

FOR INFORMATION ONLY 585 West Beach Street Watsonville, CA 95076 USA	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
---	---

CITY OF SANTA ANA

RFP NO.: 21-059

WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES

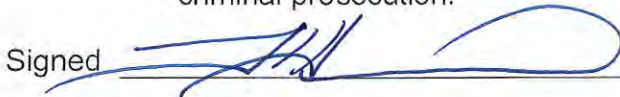
NON-COLLUSION AFFIDAVIT

(Title 23 United States Code Section 112 and Public Contract Code Section 7106)

In conformance with Title 23 United States Code Section 112 and Public Contract Code 7106 the BIDDER declares that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the BIDDER has not directly or indirectly induced or solicited any other BIDDER to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any BIDDER or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the BIDDER has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the BIDDER or any other BIDDER, or to fix any overhead, profit, or cost element of the bid price, or of that of any other BIDDER, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the BIDDER has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Note: The above Non-collusion Affidavit is part of the Proposal. BIDDERS are cautioned that making a false certification may subject the certifier to criminal prosecution.

Signed



Todd A. Howard, General Manager

State of California

County of _____

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me

See Attached Jurat

Notary Public Signature

Notary Public Seal

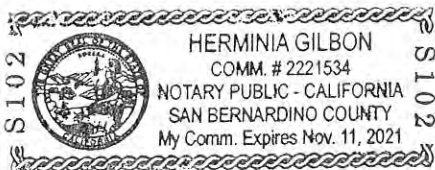
CALIFORNIA JURAT WITH AFFIANT STATEMENT**GOVERNMENT CODE § 8202**

- ☒ See Attached Document (Notary to cross out lines 1–6 below)
☐ See Statement Below (Lines 1–6 to be completed only by document signer[s], *not* Notary)

*Signature of Document Signer No. 1*_____
Signature of Document Signer No. 2 (if any)

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.

State of California

County of San Bernardino

Subscribed and sworn to (or affirmed) before me

on this 26th day of May, 20 21,
by *Date* *Month* *Year*(1) Todd A. Howard(and (2) N/A),
*Name(s) of Signer(s)*proved to me on the basis of satisfactory evidence
to be the person(s) who appeared before me.Signature 

Signature of Notary Public
Herminia Gilbon, Notary Public

Seal
Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached DocumentTitle or Type of Document: Non-Collusion Affidavit Document Date: No DateNumber of Pages: 2 Signer(s) Other Than Named Above: None

CITY OF SANTA ANA
RFP NO.: 21-059
WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES

NON-LOBBYING CERTIFICATION

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

Signed: _____

Title: Todd A. Howard, General Manager

Firm: Layne Christensen Company

Date: 5/26/2021

CITY OF SANTA ANA
RFP NO.: 21-059
WATER WELL, PUMP AND MOTOR REHABILITATION AND REPAIR SERVICES

NON-DISCRIMINATION CERTIFICATION

The undersigned consultant or corporate officer, during the performance of this contract, certifies as follows:

1. The Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
2. The Consultant shall, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
3. The Consultant shall send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Consultant shall comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
5. The Consultant shall furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation, to ascertain compliance with such rules, regulations, and orders.
6. In the event of the Consultant's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, the contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulations, or order of the Secretary of Labor, or as otherwise provided by law.

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7. The Consultant shall include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontract or purchase order as the administering agency may direct as means of enforcing such provisions, including sanctions for noncompliance; provided, however, that in the event the Consultant becomes involved in, or is threatened with, litigation with a subconsultant or vendor as a result of such direction by the administering agency, the Consultant may request that the United States enter into such litigation to protect the interests of the United States.
8. Pursuant to California Labor Code Section 1735, as added by Chapter 643 Stats. 1939, and as amended, no discrimination shall be made in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical handicaps, mental condition, marital status, or sex of such persons, except as provided in Section 1420, and any consultant of public works violating this Section is subject to all the penalties imposed for a violation of the Chapter.

Signed:  _____

Title: Todd A. Howard, General Manager

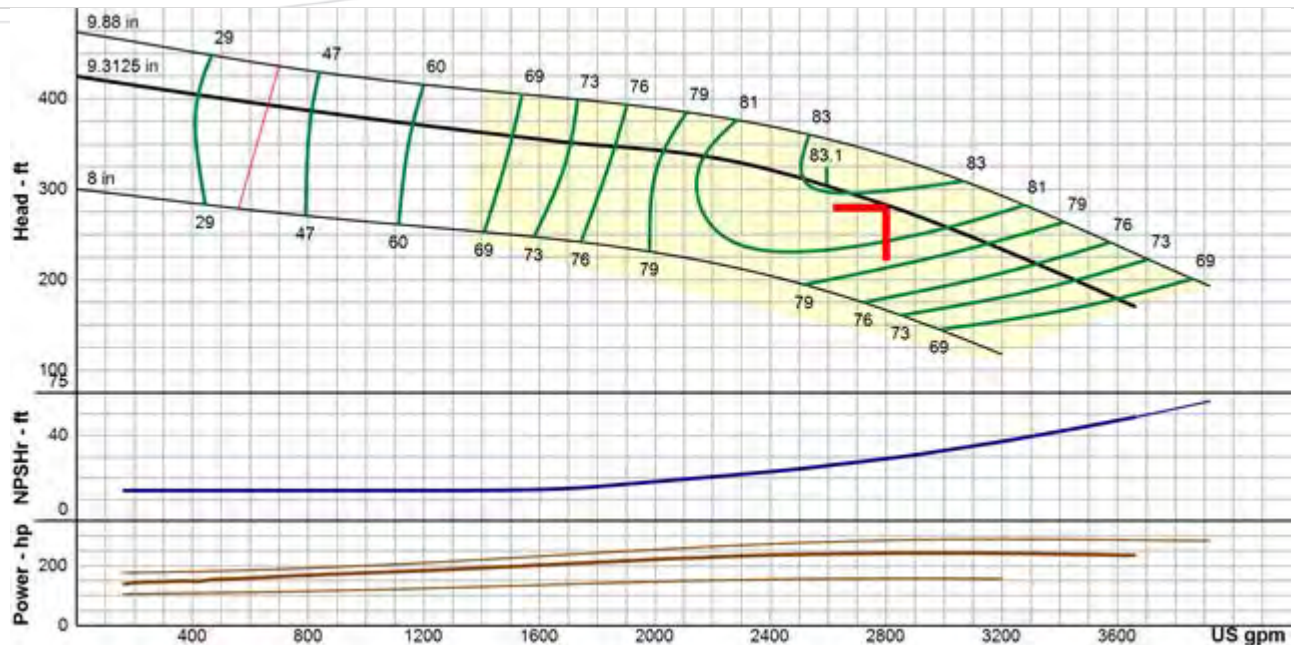
Firm: Layne Christensen Company

Date: 5/26/2021



Performance Curve

Product Name: VIT - Short Set Lineshaft Turbine Pumps
Product Id: GWT_VIT



Curve & hydraulic data presented is nominal performance based on ANSI/HI 14.6 acceptance grade 1B. Design values are guaranteed within the following tolerances: Flow $\pm 5\%$, Head $\pm 3\%$, and optionally either Power $+ 4\%$ or Efficiency $- 3\%$ at manufacturer's discretion.

Series	GWT_VIT	Max Power on Design Curve	242.00 Hp
Size	14RHHC	Max Power on Max Imp Trim	289.00 Hp
Additional Size	-	Guaranteed Max Power on Design Curve	251.68 Hp
Speed	1,770 RPM	Guaranteed Max Power on Max Imp Trim	300.56 Hp
Number of Stages	4	Flow at BEP	2,594 USgpm
Frequency	60 Hz	Head at BEP	304 ft
Impeller Trim	9.3125 in	NPSH Required	29.2 ft
Additional Impeller	-	Specified NPSH Avail.	33.17 ft
Impeller Maximum Trim	9.88 in	Specified NPSH Avail. Margin	1.1
Specified Flow	2,800 USgpm	Min Flow	648 USgpm
Specified Head	280 ft	Flow on Max Imp Trim @ Max Power	3,200 USgpm
Flow at Design	2,800 USgpm	Shut Off Head	425 ft
Head at Design	283 ft	Shut Off Power	135 Hp
Run Out Flow	3,662 USgpm	Shut Off Disc Pressure	184 psi
Run Out Head	170 ft	Fluid Type	Water
Run Out Power	235 Hp	Water Temperature	68 °F
Run Out Efficiency	66.8 %	Allowable Sphere Size	1.18 in
Run Out Npshr	48.7 ft	Exact Bowl Diameter	14 in
Efficiency at Design	82.60 %	Curve Id	E6414RFPC1
Guaranteed Efficiency at Design	80.12 %	Thrust K Factor	16 lb/ft
Best Efficiency	83.1 %	Add Thrust K Factor	16 lb/ft
Driver Size	300 Hp	Max Lateral	1.001 in
Power at Design	242.00 Hp	Total Flow Derate Factor	1
Guaranteed Power	251.68 Hp	Total Head Derate Factor	1
Flow on Design Trim @ Max Power	2,914 USgpm	Total Efficiency Derate Factor	1
Service Factor	No	Total NPSHr Derate Factor	1
		Acceptance Grade	1B



City of Santa Ana 7/1/2021 thru 6/30/2021

Prevailing Wage Rates

Description	Crew Size	Rate	Unit	Quantity
Rig and Service Truck	2 Men	\$380.00	Hour	1
Rig and Service Truck	3 Men	\$495.00	Hour	1
Rig and Service Truck	4 Men	\$610.00	Hour	1
Combo Rig and Service Truck	2 Men	\$380.00	Hour	1
Rotary Crane 12 Ton & Below	1 Man	\$225.00	Hour	1
Crane 12 Ton & Below	2 Man	\$383.00	Hour	1
Rotary Crane – 30 Ton	1 Man	\$337.00	Hour	1
Rotary Crane – 75 Ton	1 Man	\$416.00	Hour	1
Delivery Truck	1 Man	\$127.00	Hour	1
Service Truck	2 Men	\$320.00	Hour	1
Tractor Trailer	1 Man	\$178.00	Hour	1
Wire Brush Rental		\$815.00	Each	1
Air Compressor Rental (450 CFM & Smaller)		\$140.00	Each	1
Air Compressor Rental (451 CFM & Larger)		\$140.00	Each	1
Water Treatment	1 Man	\$215.00	Hour	1
Electrician and Service Truck	1 Man	\$190.00	Hour	1
Service Truck with Boom	1 Man	\$200.00	Hour	1
Welding Truck	1 Man	\$190.00	Hour	1
General Shop Labor	1 Man	\$113.00	Hour	1
Machine Shop Labor	1 Man	\$113.00	Hour	1
Welding Shop Labor	1 Man	\$113.00	Hour	1
Additional Rig Helper	1 Man	\$126.00	Hour	1
Tube and Shaft Repair 2" – 2-1/2"		\$13.75	Foot	1
Tube and Shaft Repair 3" – 4"		\$15.25	Foot	1
Video Log		\$1,365.00	Well	1
Camera Operator	1 Man	112.00	Hour	1
Photo Still Shots		No Charge	Each	1
Duplicate Tape/DVD		No Charge	Each	1
Test Pump, Operator & Fuel 300 HP & Below	1 Man	\$ 388.00	Hour	1
Test Pump, Operator & Fuel 301 HP – 500 HP	1 Man	\$400.00	Hour	1
Test Pump, Operator & Fuel 501 HP - 750 HP	1 Man	400.00	Hour	1

WATER RESOURCES

Test Pump, Operator & Fuel 751 HP - 1000 HP	1 Man	\$400.00	Hour	1
Portable Steam Cleaner		252.00	Day	1
Service Truck	1 Man	\$160.00	Hour	1
Aqua Freed Unit	1 Man	\$220.00	Hour	1
Chemical Trailer	3 Men	\$611.00	Hour	1
Chemical Trailer	2 Men	\$494.00	Hour	1
Chemical Neutralization Trailer and Operator	1 Man	\$217.00	Hour	1
Backhoe with Trailer and Truck	1 Man	\$265.00	Hour	1
Water Truck	1 Man	\$265.00	Hour	1
Bore Blasting (0 - 500 Ft)		\$5,250.00	Lump Sum	1
Bore Blasting (500 - 1000 Ft)		\$6,300.00	Lump Sum	1
Bore Blasting (1000 - 1500 Ft)		\$7,875.00	Lump Sum	1
Bore Blasting (1500 - 2000 Ft)		\$12,075.00	Lump Sum	1
OVERTIME:				
Operating Engineer: 6				
Saturday & Over 8 hours per day x1.5		\$144.00	Man hour	1
Over 12 hrs. One Day/Over 12 hrs. Saturday x2		\$195.00	Man hour	1
Sunday/ Holiday		\$250.00	Man Hour	1
Operating Engineer: Group 8				
Saturday & Over 8 hours per day x1.5		\$144.00	Man hour	1
Over 12 hrs. One Day/Over 12 hrs. Saturday x2		\$144.00	Man hour	1
Sunday/ Holiday		\$250.00	Man Hour	1
Operating Engineer: Group 10				
Saturday & Over 8 hours per day x1.5		\$144.00	Man hour	1
Over 12 hrs. One Day/Over 12 hrs. Saturday x2		\$144.00	Man hour	1
Sunday/ Holiday		\$250.00	Man Hour	1
Laborer: Group 1				
Saturday & Over 8 hours per day x1.5		\$110.00	Man Hour	1
Over 12 hrs. One Day/Over 12 hrs. Saturday x2		\$155.00	Man Hour	1
Sunday/ Holiday		\$155.00	Man Hour	1

WATER RESOURCES

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**APPENDIX
ATTACHMENT 2: FEE PROPOSAL**

Certification - I certify that I have read, understand and agree to the terms and conditions of this Request for Proposal. I have examined the **ATTACHMENT 1: SCOPE OF WORK**. I am familiar with all the existing conditions and limitation that may impact work requests. I understand and agree that I am responsible for reporting any errors, omissions or discrepancies to the City for clarification prior to the submission of my proposal.

Proposer shall submit hourly rates schedule, which shall include but not limited to, direct and indirect costs for labor, for staff per job classification, material, equipment rates, overhead, incidental supplies, travel, mileage, and fuel. Any special materials will be purchased by the contractor only after discussed and authorized by the City projects manager or designee in writing.

Prior to commencement of services, Contractor shall provide separate quotes, upon request by the City, which shall be approved by the City's Public Works Water Resources Division.

FEE SCHEDULE

The undersigned declares that he/she has carefully examined the request for proposal, that he/she has examined the Proposed Scope of Services, and hereby proposes to furnish all material and do all the work required to complete the said work in accordance with said Proposed Scope of Services, for the unit price(s) set forth in the following schedule:

Note: **This contract is subject to prevailing wages.**

TO: CITY COUNCIL OF THE CITY OF SANTA ANA

FROM: Layne Christensen Company

MOTOR & PUMP SPECIFICATIONS

Motor:	US Motor 250 HP, 3 PH, 460 VAC, Frame 445TPA WPI
Discharge Head:	12"X12"
Existing Pump:	Goulds Pump, 16DMC, 3 STG, 298' 7" feet overall length, 12-inch diameter, 10-foot sections
Well Casing:	16-inch casing, 1015 feet deep, refer to Appendices for historical information
Housing:	Concrete housing with hatched roof, refer to appendices for site maps
Location:	921 W Walnut St, Santa Ana CA 92703

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GENERAL	UNIT	QUANTITY	PRICE	TOTAL
Removal of motor, discharge head & pump ¹	LS	1	\$ 12,000.00	\$ 12,000.00
Installation of motor, discharge head & pump	LS	1	\$ 12,000.00	\$ 12,000.00
New bowls performance certification	EA	1	\$ 1,600.00	\$ 1,600.00
Water well disinfection	EA	1	\$ 4,650.00	\$ 4,650.00
Step drawdown test	EA	1	\$ 1,100.00	\$ 1,100.00
Sound attenuation ⁵	LS	1	No Bid	No Bid
PUMP WORK				
New complete pump with 2,800 GPM at 280 feet TH, high efficiency (83.1%) or better ²	EA	1	\$ 11,000.00	\$ 11,000.00
12-inch 5 feet column & collar	EA	2	\$ 880.00	\$ 1,760.00
12-inch 10-feet column & collar	EA	27	\$ 630.00	\$ 17,010.00
12-inch threaded bronze retainers	EA	28	\$ 319.00	\$ 8,932.00
Rubber line shaft bearings	EA	28	\$ 16.00	\$ 448.00
10-foot 1 15/16-inch head shaft	EA	1	\$ 900.00	\$ 900.00
10-feet 416 SS 1 15/16-inch line shaft & coupling	EA	27	\$ 504.00	\$ 13,608.00
5-foot 416 1 15/16-inch line shaft	EA	2	\$ 355.00	\$ 710.00
1 15/16-inch 416 SS shaft couplings	EA	2	\$ 60.00	\$ 120.00
12-inch 20 feet suction pipe	EA	1	\$ 730.00	\$ 730.00
SS 12-inch suction cone strainer	EA	1	\$ 550.00	\$ 550.00
300' of SS sounding tube ⁴	FT	300	\$ 2.00	\$ 600.00
Sounding Kit	EA	1	\$ 90.00	\$ 90.00
MOTOR WORK				
New complete 250 HP, 460VAC, 3Ph, 60Hz or equal ²	EA	1	\$ 18,325.00	\$ 18,325.00
Top Bearings	EA	1	\$ 1,500.00	\$ 1,500.00
Bottom Bearings	EA	1	\$ 82.00	\$ 82.00
Two band heaters 115v, 115 Watt	LS	1	\$ 120.00	\$ 120.00
Three coil thermostat NC or NO	LS	1	\$ 90.00	\$ 90.00
Set of tin plated copper terminals or lugs	LS	1	\$ 45.00	\$ 45.00
Tellus 68 oil	LS	1	\$ 250.00	\$ 250.00
WELL WORK				
Mobilization & Demobilization	LS	1	\$ 5,600.00	\$ 5,600.00
Under Water video of well (before/after)	EA	2	\$ 1,650.00	\$ 3,300.00

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Wire brushing of well section under water & perforations (1080 feet)	EA	1	\$ 11,750.00	\$ 11,750.00
Chemical treatment during wire brushing (optional) ³	LS	1	\$ 85,000.00	\$ 85,000.00
Bail & dispose of all dirt & debris (if needed)	LS	1	\$ 7,500.00	\$ 7,500.00
SONAR Jet of perforations (1015 Feet)	LS	1	\$ 8,300.00	\$ 8,300.00
TOTAL				
				\$229,670.00

Proposed new pump: Make: Goulds , Model No.: 14rHHC , GPM: 2800 , TDH: 280 , Eff.: 82.60%

1. Contractor must include all costs involved in accessing the equipment including removal of pump through the building hatch and or working around building roof and hatch. Please refer to Appendix A for a site map as reference.
2. Contractor to provide pump curve, lead time for procurement of parts along with turn around/completion date.
3. Chemical treatment during wire brushing will not be used in the evaluation of the bids. If chemical treatment is applied, the bid price must include cost of the chemicals, chemicals handling (application & mixing), used chemicals neutralization and disposal.
4. New Stainless Steel line for sounding will be provided and installed, with necessary mounting brackets, and one gauge calibrated for sounding.
5. Sound attenuation shall be required for major work. Sound attenuation for engine noise shall be limited to a maximum of 75 dB(A) at 23 feet when operating at full rated load. Sound proofing solution to be approved by the Project Manager.

Contractor shall submit additional labor, material and equipment rates along with fee schedule. Contractor's labor and equipment rate sheet shall list rates for all labor designations, equipment and materials.

BIDDER INFORMATION:

Legal Company Name: Layne Christensen Company

Complete address: 1717 W Park Ave, Redlands CA 92373

Phone Number: (909) 390-2833

Email Address: ricky.trujillo@gcinc.com

Authorized Signature: 

Name: Todd A. Howard

Title: General Manager