



Board of Directors

Russ Baggerly, Director
Angelo Spandrio, Director
Brian Brennan, Director

Pete Kaiser, Director

CASITAS MUNICIPAL WATER DISTRICT

Meeting to be held at the

The Board will be attending this meeting via teleconference. If you would like to attend via teleconference please call

(888) 788-0099 or (877) 853-5247 US Toll-free and enter Meeting ID: 348 035 043#

SPECIAL MEETING AGENDA

April 17, 2020 @ 10:00 AM

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public which is within the subject matter jurisdiction of the Board. The request to be heard should be made immediately before the Board's consideration of the item. No action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of §54954.2 of the Government Code and except that members of a legislative body or its staff may briefly respond to statements made or questions posed by persons exercising their public testimony rights under section 54954.3 of the Government Code.

1. CALL TO ORDER
2. ROLL CALL
3. PUBLIC COMMENTS - Presentations on District related items that are not on the agenda -three minute limit.
4. ACTION ITEMS
 - 4.a. Authorize the General Manager to approve and sign an agreement with V&A Consulting Engineers, Inc. (V&A) for pipeline condition assessment services for Marion R. Walker Water Treatment Plant (MWWTP) for a fee not to exceed \$55,972.
[Board Memo MWTP Corrosion Assessment 041720.pdf](#)
[Casitas MWD Agreement_V_A_03_2020 \(002\) Signed 20200327.pdf](#)
[Copy of Casitas MWD MWWFP Pipe Cond Assess Proposal_rev 3 \(VA 19-0391\).pdf](#)
5. GENERAL MANAGER COMMENTS AND UPDATE REGARDING COVID-19.

6. BOARD OF DIRECTOR COMMENTS PER GOVERNMENT CODE SECTION 54954.2(a).
7. ADJOURNMENT

**CASITAS MUNICIPAL WATER DISTRICT
MEMORANDUM**

TO: BOARD OF DIRECTORS
FROM: MICHAEL FLOOD, GENERAL MANAGER
SUBJECT: AUTHORIZE THE GENERAL MANAGER TO APPROVE AND SIGN AN AGREEMENT WITH V&A CONSULTING ENGINEERS, INC. FOR MWWTP PIPELINE CONDITION ASSESSMENT
DATE: APRIL 17, 2020

RECOMMENDATION

Authorize the General Manager to approve and sign an agreement with V&A Consulting Engineers, Inc. (V&A) for pipeline condition assessment services for Marion R. Walker Water Treatment Plant (MWWTP) for a fee not to exceed \$55,972.

BACKGROUND AND DISCUSSION

The original facilities at the MWWTP were built in 1959, which include a nine-gate, multi-level intake structure at the face of Casitas Dam. The MWWTP pressure filtration systems were built in 1996, and major pipelines installed include filtration, backwash, and backwash wastewater reclamation system. A pipeline condition assessment can determine the condition of pipelines and avoid future unnecessary full-scale replacement programs.

The District requested a proposal from V&A to conduct a condition assessment of the pipelines at the MWWTP. The scope includes assessment of intake piping, high pressure gate, outlet works pipe, influent pipe, filter manifolds and effluent pipe. V&A will prepare a detailed report summarizing observation and data obtained during the field assessments. An estimate of remaining useful life of the piping and recommendation(s) for repair will be included in the report.

Since an onsite visit of the consultant will be necessary to complete this work, staff will schedule this work in conjunction with any COVID-19 outbreak guidelines that are in place at the time.

BUDGET IMPACT

The FY 2019-20 Budget allocated \$100,000 for the Pipeline Condition Assessment for MWWTP.

Attachments: Proposal from V&A Consulting Engineers, Inc.



**AGREEMENT BETWEEN
THE CASITAS MUNICIPAL WATER DISTRICT &
V&A CONSULTING ENGINEERS, INC.
FOR
MWWTP PIPELINE CONDITION ASSESSEMENT**

THIS AGREEMENT is made and entered into this 27th day of March in the year 2020 by and between the **CASITAS MUNICIPAL WATER DISTRICT**, herein designated as the **District**, and **V&A CONSULTING ENGINEERS, INC.**, herein designated as the **Consultant**. Together, District and Consultant shall be referred to herein as Parties.

W I T N E S S E T H

WHEREAS, the District issued a Request for Proposal for V&A to conduct a condition assessment of the pipelines at Marion R. Walker Water Treatment Plant (MWWTP); and

WHEREAS, the Consultant submitted a letter proposal dated March 24, 2020 to provide the services as in Exhibit A; and

WHEREAS, Consultant is well qualified to complete the requested services; and

WHEREAS, District desires to retain and Consultant is willing to provide the services requested; and

NOW, THEREFORE, in consideration of the recitals above and their mutual promises, obligations, valuable consideration and covenants herein contained, the Parties hereby agree to abide by the following:

1. **TERM OF AGREEMENT.** The term of this Agreement shall be from the date this Agreement is made and entered into, as first written above, until the completion of all services by the Consultant and acceptance of those services and materials by the District or until June 30, 2020.

2. DATA FURNISHED BY District. For the purpose of aiding Consultant in the performance of its obligations under this Agreement, District agrees to furnish Consultant with existing information which District has available and which Consultant may request. Consultant shall apply reasonable caution in its use and interpretation of the data and shall promptly advise District of any suspected inaccuracies or omissions in the data that has been furnished, or may be furnished, during the project. Consultant shall have no liability for defects in the Services attributable to Consultant's reliance upon or use of available documents, furnished by District or third parties retained by District.

3. SCOPE OF SERVICES.

The scope of services is included in the Consultant's proposal attached as Exhibit A.

4. FEE FOR SERVICES. The District shall pay to the Consultant on a completed task basis for services requested by the District. The completed task unit cost shall be stated in the scope of work agreed to by the Parties and attached as Exhibit A. The task unit cost for services shall be the fully loaded cost and shall include all overhead costs, material costs and miscellaneous costs.

The total fee for services shall not exceed \$55,972 without the prior written consent of the District.

5. DELIVERABLES. The format, completion and delivery of work products shall be as provided in the scope of work attached as Exhibit A.

6. PAYMENT OF COMPENSATION. Compensation shall be billed monthly in increments based on the percentage of each task completed.

7. CHARGES FOR REVIEW OF BILLS. The Consultant shall not charge District for questions of billings under this Agreement. The Consultant shall answer all questions about billings to the satisfaction of District.

8. NO INTEREST, NO ATTORNEYS' FEES. No interest shall be charged on bills and each party will bear their own attorneys' fees and costs for any lawsuit or arbitration or other dispute resolution methodology arising out of this project.

9. CHANGES. Consultant shall provide consulting services as required by this Agreement without modification or changes to the hourly rate or any other extra compensation, excepting only changes authorized by a written change order signed by District and Consultant. Any change in the total compensation allowed for performance under this Agreement shall be accomplished only by such a change order. Accordingly, no course of conduct or dealings between the parties, nor express or implied acceptance of alterations or additions to the work, and no claim that District has been unjustly enriched by any alteration or addition to work, whether or not there is, in fact, any unjust enrichment to the work, shall be the basis of any claim to any increase in the total compensation provided for in this Agreement. Should District request a change in the services covered by this

of the proposed replacement person(s). Consultant and District will then agree upon the selection of the replacement person(s) whose qualifications and expertise shall be at least equal to the person replaced. The penalty for replacement of personnel without permission of Casitas will be ten percent (10%) of the gross of the contract. Consultant agrees not to request an increase in the per-hour fee or any other compensation for such a change in personnel.

13. INSURANCE.

- a) During the course of this Agreement, Consultant shall pay for and maintain in full force and effect, and cause each of its subconsultants to maintain in full force and effect, all insurance required by any governmental agency having jurisdiction to require particular insurance of Consultant or its subcontractors in connection with or related to the assessment services to be performed under this Agreement.
- b) During the course of this Agreement, Consultant shall pay for and maintain in full force and effect, and cause each of its subconsultants to maintain in full force and effect, workers' compensation insurance, including occupational disease provisions, as required by the laws of the State of California and employer's general liability insurance for all labor employed by them, directly or indirectly, in the performance of this Agreement.
- c) During the course of this Agreement, Consultant shall pay for and maintain in full force and effect, public liability and property damage insurance naming District, its officers, directors, and employees as additional insured, insuring against liability and claims for damages because of bodily injury, sickness or disease, death or injury to or destruction of tangible property arising out of or resulting from any work performed under this Agreement, whether such work is performed by Consultant or a subconsultant or by anyone directly or indirectly employed by them, or by anyone else for whose acts any of them may be liable. Such insurance shall include all major divisions of coverage and be on a comprehensive basis, including: (a) premises/operations; (b) independent contractor's protection; (c) products included in operations; (d) contractual (including Consultant's indemnity obligations for tort liability under this Agreement); (e) owned, non-owned and hired motor vehicles and other mobile equipment; and (f) broad form property damage endorsement, including completed operations. The limits of liability for such insurance shall be not less than \$1,000,000 per occurrence for public liability and \$1,000,000 per occurrence for property damage. Such insurance shall be issued by a responsible carrier or carriers acceptable to District. All such insurance shall be written on an occurrence basis and shall be primary and noncontributory. Consultant shall cause each of its subcontractors to procure, pay for and maintain in full force and effect during the course of this Agreement, public liability and property damage insurance reasonably satisfactory to District and naming District, its officers, directors and employees as additional insured with respect to claims arising out of operations performed on behalf of Consultant for the consulting services covered by this Agreement.

The District, its directors, officers, employees, agents and volunteers are to be covered

as insureds as respects: liability arising out of activities performed by or on behalf of the Consultant, products and completed operations of the Consultant; premises owned, occupied or used by the Consultant; or automobiles owned, leased, hired or borrowed by the Consultant. The coverage shall contain no special limitations on the scope of protection afforded to the District, its directors, officers, employees, agents and volunteers.

- d) Worker's Compensation Insurance - by his signature hereunder, Consultant certifies that he is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and he will comply with such provisions before commencing the performance of the work of this contract.

The Consultant shall maintain, and shall cause all subcontractors he may employ to maintain, adequate workers compensation insurance under the laws of the State of California for all labor employed by them, directly or indirectly, in the execution of the work. The Consultant and all subcontractors shall file with the District certification of such workers compensation insurance prior to beginning any work under this Agreement.

- e) Prior to the commencement of performance of any work under this Agreement, Consultant and its subconsultants shall furnish District with certificates of insurance in form and substance satisfactory to the District evidencing all of the insurance coverage required by paragraphs a. through c. above. All policies and certificates of insurance required under paragraphs a. through c. above shall expressly provide for no less than 30 days prior written notice to District in the event of a cancellation, non-renewal or expiration of the coverage.

- 14. INDEMNIFICATION. Consultant shall defend, indemnify and hold District and its officers, directors, and employees, harmless from all loss, liability and expense from all third party tort claims and demands or liability if and to the extent caused by negligence or willful misconduct of Consultant, its subconsultants and employees whether such claims, demands or liability are caused by Consultant, Consultant's agents or employees, or subconsultants employed by Consultant, their agents or employees, or products installed on the project by Consultant or its subconsultant, excepting such loss, liability or expense as may be caused by District's negligence or willful misconduct. Such indemnification shall extend to claims, demands or liability for injury, death or damage to property arising after completion of the project as well as during the work's progress. The foregoing indemnification shall apply, without limitation, to bodily injury and property damage claims as well as to stop notices and monetary claims for labor, materials or equipment furnished in the performance of the professional services covered by this Agreement. In the event such liability, claims, actions, causes of action or demands are caused by the joint or concurrent negligence of more than one party, such liability shall be borne by each party in proportion to its own fault. The duty to defend shall not apply to professional liability claims.

15. ASSIGNMENT. Neither party may assign this Agreement or any payments due under this Agreement, either voluntarily or involuntarily, without the prior written consent of the other party. If and to the extent any assignment is authorized, it shall not be effective until the assignee signs a written agreement to be bound by all of the provisions of this Agreement, nor shall it relieve the assignor of its obligations under this Agreement unless the written consent to the assignment expressly states that the assignor shall be relieved.

16. TERMINATION. The District may, by written notice to Consultant, suspend or discontinue the performance of all work pursuant to this Agreement, and may terminate this Agreement, with or without cause after 15 calendar day's written notice from the date of mailing. In the event of a termination without cause, Consultant will be entitled to a reasonable portion of the lump sum fee for its services rendered prior to the effective date of the notice, but Consultant shall have no claim against District for loss of anticipated profits or other payment on account of services not yet performed and which are not thereafter performed by Consultant. In the event of a termination without cause, Consultant will submit a final invoice to District for all services rendered prior to termination within a reasonable time, not to exceed 45 days of the effective date of such notice. Any bills received after the expiration of the 45-day period need not be paid by the District.

17. OWNERSHIP OF DOCUMENTS. All plans, studies, sketches, reports, test data, and drawings, prepared by or for either party pursuant to this Agreement including copyright ownership shall be the property of District when Consultant has been compensated for all undisputed billings in accordance with this Agreement, whether the work for which they are prepared be executed or not. Upon completion of all work under this Agreement, or in the event this Agreement is terminated prior to completion of all such work, all documents, plans, specifications, drawings pertaining to the facility, and all other material provided to assist Consultant in performing under this Agreement shall be delivered forthwith to District. However, nothing shall prevent Consultant from using intellectual property developed under this contract in other works. All documents, including, but not limited to, drawings, specifications, and computer software prepared by Consultant pursuant to this Agreement are instruments for service specific to this project. They are not intended nor represented to be suitable for reuse by District or others on extensions of the project or on any other project. Any reuse without the prior written verification or adaptation by District for the specific purpose intended shall be at District's sole risk.

18. GOVERNING LAW; PLACE OF SUIT. This Agreement is to be governed by and construed in accordance with the laws of the State of California. Any lawsuit arising out of this Agreement shall be filed and prosecuted exclusively in Ventura County, California Superior Court.

19. SUBCONTRACTS. District has entered into this Agreement in order to receive the services of Consultant. The provisions of the Agreement shall equally apply to any subcontractor of Consultant. Consultant shall include in all subcontracts a clause making the terms of this Agreement binding upon the subcontract.

20. MONTHLY BILLINGS. Contractor shall not bill District more often than monthly during the term of this Agreement. Invoices shall fully define the work component completed for each Task Order, the hours spent on each task, the budget for each person in terms of cost and hours, the pay rate for the person assigned, the percentage of the task completed in terms of actual work remaining, and costs remaining until completion of the task at the time of billing. Each invoice shall also contain a purchase order number and assigned and the invoice shall state the billing period. The invoice will be paid within thirty (30) days after the approval by the District Board of Directors.
21. ENTIRE AGREEMENT. This Agreement constitutes the whole Agreement between the Parties hereto with respect to the subject matter hereof, and neither party nor any of its agents or employees has made any representation except as specifically provided herein. Neither of the parties in executing or performing this Agreement is relying upon any statement or information to whomsoever made or given directly or indirectly, verbally or in writing by any individual or corporation except as specifically provided herein. The Agreement may not be modified or altered except in writing signed by both parties.
22. OPINIONS OF COST AND SCHEDULE. Consultant's opinions on cost and schedule shall be made on the basis of available information and Consultant's expertise and qualifications as a professional. Consultant does not warrant or guarantee that its opinions on cost or schedule of current and future levels and events will not vary from Consultant's estimates or forecasts or from actual outcomes.
23. NOTICES. All communication, notices, and demands of any kind which either party hereto may be required or may desire to give to or serve upon the other party may be given or served by manual delivery to such party or an office thereof or by enclosing it in a sealed envelope and depositing it in the United State mail, postage prepaid, registered, and addressed to the respective parties as follows:

To District:
 Michael Flood, General Manager
 Casitas Municipal Water District
 1055 Ventura Avenue
 Oak View, CA 93022
 805.649.2251

To Consultant:
 Brian Briones, PE
 V&A Consulting Engineers, Inc.
 11011 Via Frontera, Suite C
 San Diego, CA 92127
 858.576.0226

The effective date of all hand-delivered notices shall be the date of delivery. The effective date of all mailed notices shall be the second day following the deposit in the mail.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed the day and year first above written.

ATTEST:

CASITAS MUNICIPAL WATER DISTRICT

Secretary,
Casitas Municipal Water District

By: _____
Casitas Municipal Water District

APPROVED AS TO FORM:

John M. Matthews, Attorney
Arnold LaRochelle Mathews VanConas & Zirbel LLP

V&A CONSULTING ENGINEERS, INC.

By: Kim Costa (for)
Title: President
Printed Name: Kim Costa
Controller

V&A Project No. 19-0391

March 24, 2020

Lindsay Cao, P.E.
Senior Project Manager
Casitas Municipal Water District
1055 N. Ventura Avenue
Oak View, CA 93022

Subject: Casitas Municipal Water District (Casitas) MWWFP Pipeline Condition Assessment
(Revision 3)

Dear Ms. Cao,

Thank you for requesting a proposal to conduct a condition assessment of the MWWFP Pipeline Condition Assessment. The MWWFP is located in Oak View, California at the base of the dam of Lake Casitas. V&A Consulting Engineers (V&A) is prepared to perform field services and conduct a condition assessment of the piping listed below.

1. 48-inch Intake Pipe
2. 48-inch Outlet Works Intake Pipe (Sta 0+00 to Sta 10+75) – **Not included in this scope of work.**
3. High Pressure Gate
4. 51-inch Outlet Works Pipe (Sta 10+81 to Sta 21+16)
5. 54-inch Gravity Main (Sta 0+00 to Sta 3+38) – **Not included in this scope of work.**
6. 42-inch Plant Influent Pipe
7. Filter Manifolds
8. 42-inch Plant Effluent Pipe
9. 54-inch Casitas Gravity Main – **Not included in this scope of work.**

It is V&A's understanding that the field assessments will be performed during one (1) mobilization. The field work will be performed within four (4) working days, one day will be during a 1-day Treatment Plant shutdown interior assessments and three additional days for external pipe assessments (non-shutdown). Based on site conditions and review of photos and as-built drawings provided by Casitas, V&A proposes to perform condition assessment of the piping using the following techniques.

- a. **Visual Observations**– The condition of the piping will be documented with digital photographs and field notes. Visual observations may be made from pipe interiors using a pole camera. The condition of the evaluated piping and appurtenances will be rated using the VANDA® Metal Condition Index and the VANDA® Concrete Condition Index.
- b. **Ultrasonic Testing (UT)** – UT allows for point measurements of pipe wall thickness. UT measurements will be obtained on steel pipe to determine the existing thickness. The field engineer will obtain pit depth measurements on steel pipe at locations exhibiting excessive corrosion and where the UT gauge may not produce a reading due to surface conditions. Special attention will be paid to areas with extensive corrosion (the number of UT tests included for each pipe or facility is listed in Tasks 3 through 11). UT testing cannot be performed on prestressed concrete cylinder pipe (PCCP).
- c. **Dry film thickness (DFT):** DFT is the thickness of a coating after it has cured. A DFT gauge will be used for electromagnetic induction or eddy current technology to measure the thickness of the coating on steel pipe (the number of DFT tests included for each pipe or facility is listed in Tasks 3 through 11). DFT testing cannot be performed on PCCP.

The field assessments will be performed during one mobilization to the site and is anticipated to be performed over four (4) days onsite.

Per your request, the following is our proposal and detailed scope of work for the subject services:

Scope of Work

1. **Project Management:** The objective of this task is to track and execute the project in accordance with the schedule, budget, and quality expectations that are established. This task includes the following project management work activities:
 - d. Monitor project progress, including work completed, work remaining, budget expended, schedule, estimated cost of work remaining, and estimated cost at completion; manage activities within total project budget.
 - e. Monitor project activities for potential changes and anticipate changes whenever possible; with approval, modify project tasks, task budgets, and approach to keep the overall project within budget and on schedule.
 - f. Submit required prevailing wage documents and DAS forms as required by the State of California Department of Industrial Relations for all work performed in the field.
 - g. Manage the quality of all work activities and project deliverables.
 - h. One 2-hour site visit will be attended by the project team (V&A project manager and Senior Project Engineer) to prepare for the field assessments and address safety protocols.
2. **Mobilization** – One (1) mobilization to the project site will be performed under this task. Mobilization includes document review, equipment preparation, and travel to/from the project site. The field work as described in Tasks 3 through 11 will be performed over four (4) days with one (1) mobilization to the project site. If additional days of field work and/or additional mobilizations are required, additional costs will be billed on a time and materials basis.
3. **48-inch Intake Pipe** – The 48-inch Intake Pipe is a steel pipe with a coal tar enamel lining and coal tar primer coating. The pipeline is approximately 620 feet in length. The exterior of the pipe is accessible via a concrete tunnel with an 8-foot diameter. The pipe and tunnel are on a 3:1 slope. The interior of the pipe is accessible via five (5) manways. There are 9 intake gates along the pipe that are operated by Casitas to isolate the pipe during intake operations. It is V&A's understanding that Casitas has closed-circuit television (CCTV) footage of the pipe that was performed approximately 3 – 4 years ago. Prior to the field work, V&A will obtain and review the CCTV footage. General visual observations of the pipe exterior with a focus on the pipe sleeve couplings will be made to identify three (3) areas for testing. Up to eight (8) UT tests and up to two (2) DFT tests will be performed at each area on the pipe exterior. Based on review of the existing CCTV footage, V&A will identify one (1) manway that will be used by V&A to perform an interior visual assessment at the manway focusing lining deterioration. No confined space entry will be made into the pipe. Casitas will isolate and dewater the pipe and prepare the pipe for interior visual assessment (one manway will require unbolting and removal by Casitas) prior to V&A arriving onsite. A 2-man crew and up to six (6) hours will be provided by V&A for field assessment under this task. Up to two (2) hours will be performed for the interior assessment (during shutdown) and up to four (4) hours will be performed on the pipe exterior (during non-shutdown).
4. **48-inch Outlet Works Intake Pipe (Sta 0+00 to Sta 10+75)** – No work is included in this scope of work.

5. **High Pressure Gate** – The high-pressure gate is 4 feet x 4 feet and is located in the gate chamber downstream of the Outlet Work Intake Pipe between Sta 10+75 and Sta 10+81. Casitas will provide a Special Report that was completed by the United States Bureau of Reclamation (USBR) providing condition information on the gate as well as photos to V&A. V&A will review the report and provide recommendations that will be included in the Condition Assessment Report (Task 12).
6. **51-inch Outlet Works Pipe (Sta 10+81 to Sta 21+16)** - The 51-inch Outlet Works Pipe is a steel pipe coal tar enamel lining and coal tar primer coating. The pipeline is approximately 1,035 feet in length. The exterior of the pipe is accessible via a concrete tunnel with an 8-foot diameter. The pipe and tunnel are on a relatively flat slope. The interior of the pipe is accessible via three (3) manways. It is V&A's understanding that Casitas has CCTV footage of the pipe that was performed approximately 3 – 4 years ago. General visual observations of the pipe exterior with a focus on the pipe sleeve couplings will be made to identify three (3) areas for testing. Up to eight (8) UT tests and up to two (2) DFT tests will be performed at each area on the pipe exterior. Based on review of the existing CCTV footage, V&A will identify one (1) manway that will be used by V&A to perform a confined space entry. V&A will visually observe the pipe with a focus on internal lining failures within 10 feet of the manway and perform up to eight (8) UT tests and up to two (2) DFT tests at the entry location. Casitas will isolate and dewater the pipe and prepare the pipe for interior visual assessment (one manway will require unbolting and removal by Casitas) prior to V&A arriving onsite. A 2-man crew and up to six (6) hours will be provided by V&A for field assessment under this task. Up to two (2) hours will be performed for the interior assessment (during shutdown) and up to four (4) hours will be performed on the pipe exterior (during non-shutdown).
7. **54-inch Casitas Gravity Main (Sta 0+00 to Sta 3+38)** – No work is included in this scope of work.
8. **42-inch Plant Influent Pipe** – The 42-inch Plant Influent is a steel pipe with an epoxy lining and coating and is approximately 200 feet in length. Approximately half of the pipe is above-grade and is accessible at the pipe exterior. The remaining pipe is below grade and encased in concrete upstream of the filter gallery. There is one above grade manway that provides access to the pipe interior. It is V&A's understanding that Casitas has CCTV footage of the pipe that was performed approximately 3 – 4 years ago. Prior to the field work, V&A will obtain and review the CCTV footage. General visual observations of the pipe exterior will be made to identify two (2) areas for testing. Up to eight (8) UT tests and up to two (2) DFT tests will be performed at each area on the pipe exterior. V&A will perform a confined space entry into the pipe at the one (1) manway. V&A will visually observe the pipe with a focus on internal lining failures within 10 feet of the manway and perform up to eight (8) UT tests and up to two (2) DFT tests at the entry location. Casitas will isolate and dewater the pipe and prepare the pipe for entry (one manway will require unbolting and removal by Casitas) prior to V&A arriving onsite. A 2-man crew and up to four (4) hours will be provided by V&A for field assessment under this task. Up to two (2) hours will be performed for the interior assessment (during shutdown) and up to two (2) hours will be performed on the pipe exterior (during non-shutdown).
9. **Filter Manifolds** – There are eight (8) filters at the treatment plant and include influent piping, effluent piping, air scour piping, backwash water piping, and compressed air piping. All piping is 18-inch or smaller, is schedule 20 (#150 rating) with an epoxy lining and coating and is located within the filter gallery. V&A will perform testing at eight (8) locations on the pipe exterior (one location per filter). The eight locations will be chosen by Casitas staff. Some pipe is elevated and will require ladders to perform testing. Casitas will provide access ladders or scaffolding to piping locations that are elevated so that the testing can be performed in a safe manner. Up to eight (8) UT tests and up to two (2) DFT tests will be performed at each of the eight locations/area on the pipe exterior. No confined space entries will be made into the pipe. Casitas will dismantle piping at 2 – 3 locations to allow for interior visual assessments focusing on the deteriorated epoxy lining. A 2-man crew and up to four (12) hours will be provided by V&A for field assessment under this task. Up to two (2) hours will be performed for the interior assessment (during shutdown) and up to ten (10) hours will be performed on the pipe exterior (during non-shutdown). V&A will also review existing internal

photos (performed by Casitas 3 – 4 years ago) that may help V&A assess the pipe condition.

10. **42-inch Plant Effluent Pipe** – The 42-inch Plant Influent is a steel pipe with an epoxy lining and coating and is approximately 200 feet in length. Approximately half of the pipe is above-grade and is accessible at the pipe exterior. The remaining pipe is below grade and encased in concrete upstream of the filter gallery. There is one above grade manway that provides access to the pipe interior. It is V&A's understanding that Casitas has CCTV footage of the pipe that was performed approximately 3 – 4 years ago. Prior to the field work, V&A will obtain and review the CCTV footage. General visual observations of the pipe exterior will be made to identify two (2) areas for testing. Up to eight (8) UT tests and up to two (2) DFT tests will be performed at each area on the pipe exterior. V&A will perform a confined space entry into the pipe at the one (1) manway. V&A will visually observe the pipe with a focus on internal lining failures within 10 feet of the manway and perform up to eight (8) UT tests and up to two (2) DFT tests at the entry location. Casitas will isolate and dewater the pipe and prepare the pipe for entry (one manway will require unbolting and removal by Casitas) prior to V&A arriving onsite. A 2-man crew and up to four (4) hours will be provided by V&A for field assessment under this task. Up to two (2) hours will be performed for the interior assessment (during shutdown) and up to two (2) hours will be performed on the pipe exterior (during non-shutdown).
11. **54-inch Casitas Gravity Main (Sta 4+09 to Sta 7+95)** – No work is included in this scope of work.
12. **Condition Assessment Report** – V&A will prepare a detailed condition assessment report summarizing observations and data obtained during the field assessments. An estimate of remaining useful life of the piping and recommendations for repair will be included in the report. The report will be delivered as a draft for one review cycle with comments from Casitas followed by a final report submittal.

Fee Proposal

V&A proposes to complete this work on a time and materials basis, shown as follows:

Summary of Cost per Task

Task	Amount
1. Project Management	\$9,766
2. Mobilization	\$12,391
3. 48-inch Intake Pipe	\$3,930
4. 48-inch Outlet Works Intake Pipe (Sta 0+00 to Sta 10+75)	\$0
5. High Pressure Gate	\$892
6. 51-inch Outlet Works Pipe (Sta 10+81 to Sta 21+16)	\$3,930
7. 54-inch Gravity Main (Sta 0+00 to Sta 3+38)	\$0
8. 42-inch Influent Pipe	\$2,918
9. Filter Manifolds	\$6,969
10. 42-inch Plant Effluent Pipe	\$2,918
11. 54-inch Casitas Gravity Main (Sta 4+09 to Sta 7+95)	\$0
12. Analyze Data and Prepare Report	\$12,258
Total (all Tasks)	\$55,972

Terms are Net 60 days. This fee is valid for 90 days from the date of this proposal. The scope of work was developed as a result of our discussion with you and represents our mutual understanding. Estimated costs for the above project scope are itemized in the attached Resource Allocation Estimate. These costs represent our best estimate at this time and may change subject to future developments during the project. It is possible that some of the estimated manpower requirements for specific task items may increase while others may not require the entire anticipated effort. This provides us a greater degree of confidence in the overall project estimate, rather than in any given particular task.

If unforeseen circumstances should arise which indicate that more time is required, V&A will provide a written estimate of additional required time and cost. V&A will not proceed with work beyond the not to exceed figure without a written authorization from your office. Charges to this project will be made for actual time spent on the project and will be charged as per the attached Resource Allocation Estimate. We request that you carefully review this proposal to assure full understanding of the scope of the work.

We are prepared to begin work on your project upon receiving written approval, a notice to proceed (NTP), or a purchase order from your office. On behalf of our staff and myself, I would like to thank you for the opportunity to be of service to Casitas Municipal Water District. We look forward to working with you.

Estimated costs for the above project scope are itemized in the attached Resource Allocation Estimate. These costs represent our best estimate at this time and may change subject to future developments.

Sincerely,
V&A Consulting Engineers, Inc.



Brian Briones, PE
 Project Manager

Accepted: _____
 Casitas Municipal Water District

Date: _____

Resource Allocation Estimate

PROPOSAL NO: 19-0391

CLIENT: Casitas Municipal Water District

18-Mar-20

JOB TITLE: MWWFP Pipe Condition Assessment

Task	Description	Principal- in- Charge	Project Manager	Senior Project Engineer	Project Engineer	Project Administrator	Total Labor Hours	Sub-Total Labor Costs
1	Project Management	2	18	14		12	46	\$ 9,086
2	Mobilization			22	20		42	\$ 8,886
3	48-inch Intake Pipe			11	7		18	\$ 3,930
4	48-inch Outlet Works Intake Pipe (Sta 0+00 to Sta 10+75)							
5	High Pressure Gate			4			4	\$ 892
6	51-inch Outlet Works Pipe (Sta 10+81 to Sta 21+16)			11	7		18	\$ 3,930
7	54-inch Gravity Main (Sta 0+00 to Sta 3+38)							
8	42-inch Plant Influent Pipe			9	5		14	\$ 2,918
9	Filter Manifolds			18	14		33	\$ 6,969
10	42-inch Plant Effluent Pipe			9	5		14	\$ 2,918
11	54-inch Casitas Gravity Main (STA 4+09 to STA 7+95)							
12	Analyze Data and Prepare Report	1	5	34	16		56	\$ 12,258
Subtotal		3	23	132	74	12	245	
Hourly		\$297	\$239	\$223	\$199	\$89		
Total Direct Labor		\$891	\$5,497	\$29,525	\$14,806	\$1,068	\$51,787	\$51,787

Other Direct Costs Amount \$51,787

	Unit Cost	Units	# Units	Cost
CSE Truck & Equip (per day)	\$130 per day		4	\$520
Mileage (per mile)	\$0.58 per mile		800	\$460
Hotel (per night)	\$150 per night		9	\$1,350
Per Diem (per day)	\$50 per day		10	\$500
Car Rental (per day)	\$100 per day		6	\$600
Olympus 38DL/Epoch XT UT Gauge (per day)	\$85 per day		3	\$255
4-Gas Confined Space Meter (per day)	\$50 per day		3	\$150
Portable Zoom Inspection Camera (per day)	\$350 per day		1	\$350
Subtotal Other Direct Costs				\$4,185

GRAND TOTAL ESTIMATED COST \$55,972