

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

To be held on

August 10, 2017 at 9:00 AM

Posted August 8, 2017 at 4:00 pm

Call to Order

Adoption of Agenda

Information Items

1. Status of Groundwater Wells and Well Capacity
2. Award of Contract – FY 17/18 Grant Consultant Services, Project M-965
3. Award of Contract – Quality Control Inspection Services - Construction of Well 2 and related facilities at 4209 Lowell Ave, Project E-956
4. Advertise for Bids – Oak Creek No. 1 & No. 2 Steel Reservoir Rehabilitation, Project E-970

Public Comments

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable and speakers are limited to three (3) minutes each.

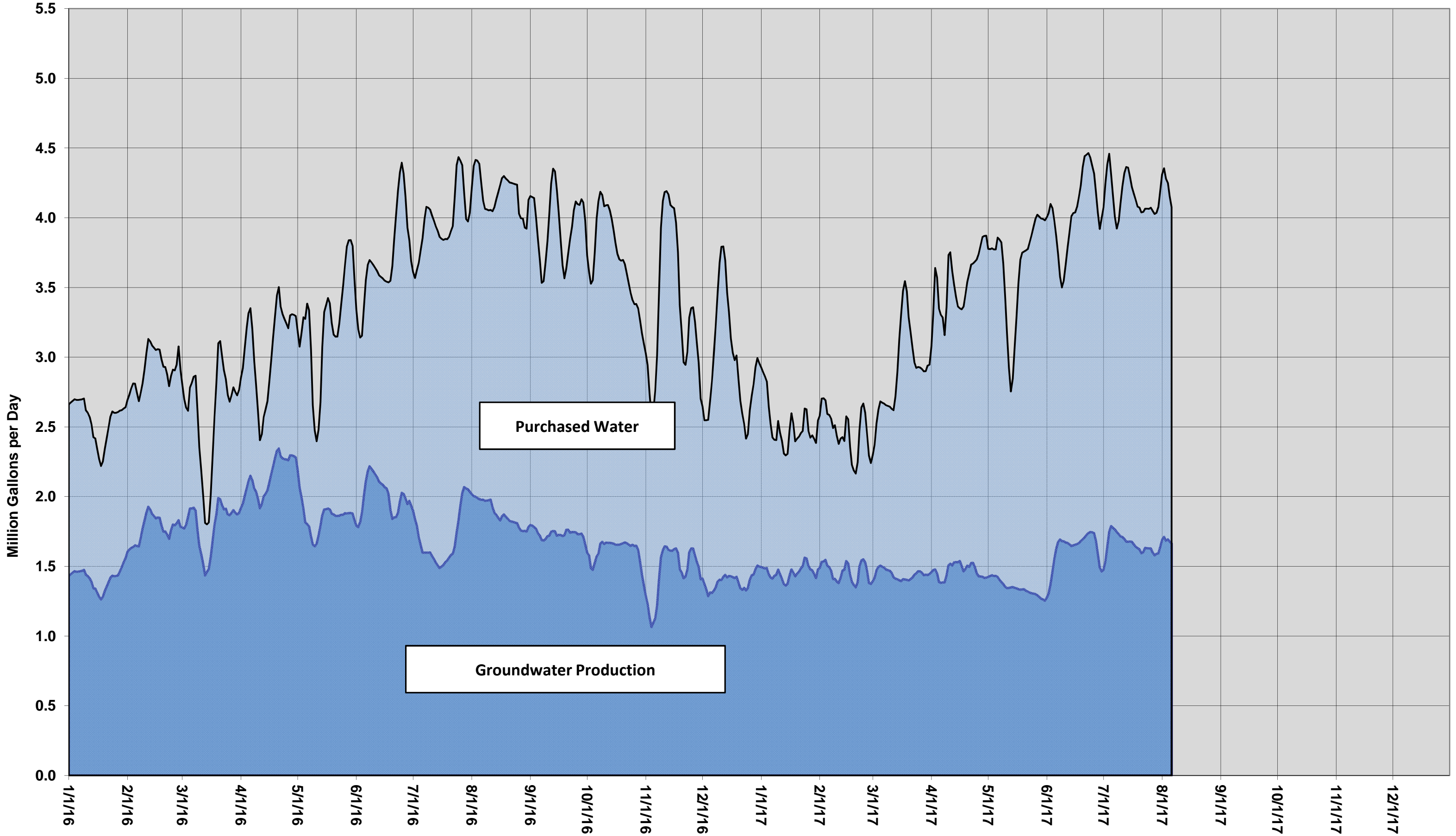
Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – August 31, 2017

Adjournment

Water Production Chart 2016 - 2017

■ Groundwater Production (MGD) □ Total Water Produced (MGD)



CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2

August 10, 2017

To: Engineering Committee

From: David S. Gould, P.E. – District Engineer

Subject: Award of Contract – FY 2017/18 Grant Assistance Consulting Services, Project M-965

INFORMATION ITEM:

FY 2017/18 Grant Assistance Consulting Services, Project M-965 - Consideration and motion to authorize the General Manager to enter into an agreement with John Robinson Consulting to provide services for coordination and preparation of applications for State and Federal Grants at a cost of \$30,000 and establish a contingency amount of \$3,000 (10% of contract) to cover the cost of additional work

BACKGROUND:

In FY 16/17, staff utilized the services of John Robinson Consulting, Inc. (JRC) to provide assistance on a number of projects and with research and information gathering on obtaining various Federal, State and Local grant funding for CVWD project's as shown below:

- Provided an evaluation of CVWD's Recycled Water Study
- Attended the Greater Los Angeles County Region Integrated Regional Water Management Plan (IRWMP) and the Upper Los Angeles River (ULAR) Sub-region steering committee meetings and reporting on the current status of the Prop 84 grant program
- Coordinating stakeholder meetings for CVWD's Crescenta Valley County Park (CVC Park) Stormwater capture project with City of Glendale, Los Angeles County Department of Parks & Recreation and Los Angeles County Department of Public Works
- Investigate Federal Emergency Management Agency (FEMA) grant funding to potentially assist with the design and/or construction for the repairs to the Lower Pickens Canyon water pipeline crossing
- Investigate United States Bureau of Reclamation (USBR) grant funding for CVWD's Automated Meter Information (AMI) installation program
- Assisted with the CEQA documentation for CVWD's Well 2 project as part of the Prop. 84 grant requirements
- Assisted with preparing MWD Local Resources Program (LRP) application and background material for Well 2 and related facilities project
- Project management services for CVWD's Well 2 and related facilities project including coordinating with City of Glendale on permitting issues

JRC's original consulting contract was for \$21,000 and an amendment was made to the contract for an additional \$12,000 for project management services for the Well 2 and related facilities project for a total of \$33,000 which was included in the FY 16/17 Administrative Consultants budget.

DISCUSSION:

Staff requested JRC to provide a new proposal for grant assistance and project management services during FY 17/18 that includes the following:

1. Crescenta Valley County Park Storm Water Project:
 - a. Coordination with potential project partners - City of Glendale, Glendale Water & Power, County of Los Angeles Department Parks & Recreation and Los Angeles County Department of Public Works
 - b. Assist CVWD with obtaining grant funding through the Prop 1 IRWMP process
2. Coordinate with CVWD to research other grant opportunities to support CIP projects including grants through USBR, FEMA and DWR
3. Assist CVWD with financing opportunities such as State Water Resource Control Board Division of Financial Assistance Drinking Water State Revolving Funding for future CIP projects
4. Project management services during construction of CVWD's Well 2 and related facilities project

JRC provided a proposal dated July 30, 2017 (see attached) for \$30,000 to provide grant assistance and project management services for FY 17/18.

RECOMMENDATION:

Staff recommends that the Engineering Committee approves the General Manager to enter into an agreement with John Robinson Consulting, Inc. for \$30,000 for grant assistance and project management services for FY 17/18 at the August 15, 2017 Board meeting.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

Account Description	Amount
FY 17/18 Administrative Consultants	\$161,500
Grant Assistance and Project Management Services	<\$30,000>
Contingency amount to cover the cost of additional work	<\$3,000>
Total Cost	<\$33,000>
Amount Remaining in FY 17/18 Administrative Consultants	\$128,500

Prepared & Submitted by:



David S. Gould, P.E.
District Engineer

Attachments:

1. John Robinson Consulting, Inc. proposal dated July 30, 2017



July 30, 2017

Mr. Thomas A. Love, General Manager
Crescenta Valley Water District
2700 Foothill Boulevard
La Crescenta CA 91214

Subject: Letter Proposal to Provide On-Call Consulting

Dear Mr. Love:

John Robinson Consulting, Inc. (JR Consulting) is pleased to offer is letter proposal to Crescenta Valley Water District (CVWD) based upon the email from July 10, 2017 and a follow up discussion on July 28th. Our firm is a California S Corporation, is a Small Business Enterprise (SBE) and is located locally in Pasadena. This letter proposal outlines our scope of service, schedule and fee estimate.

SCOPE OF SERVICES

Task 1: Crescenta Valley County Park Storm Water Project:

JR Consulting will assist CVWD and their consultant (Amec Foster Wheeler) with the next steps of implementation including the followings:

- A. Coordination with potential project partners (City of Glendale, Glendale Water & Power, County of Los Angeles Department Parks & Recreation (LACDPR) and Los Angeles County Department of Public Works.
- B. JR Consulting will assist CVWD with obtaining grant funds for the Crescenta Valley County Park Stormwater Recharge Facility (See deliverable and schedule below). CVWD wants to install a stormwater recharge facility at the Crescenta Valley County (CVC) Park to capture and infiltrate stormwater and dry-weather flow within the Verdugo Wash to recharge the Verdugo Basin. CVC Park which is owned by the LACDPR, located within the County of Los Angeles and surrounded by the City of Glendale provides a rich partnership project opportunity to implement the goal for the stormwater recharge facility to increase groundwater supplies, improve local water supply reliability particularly during times of drought, improve groundwater quality and reduce surface water runoff within CVC Park. The potential grant being investigated would be the 2017 Integrated Regional Water Management Grant Program, Chapter 7 under Department of Water Resources.

Deliverable: *JR Consulting in coordination with CVWD staff would purse Prop 1 IRWM Grant Program, Chapter 7 funding. JR Consulting will coordinate with ULAR as well as GLAC to submit the project for consideration. JR Consulting will attend key ULARA monthly meetings.*

Schedule: *Prop 1 IRWM Grant applications are expected to begin in Spring 2018.*

Task 2 – Grant Opportunities:

JR Consulting will coordinate with CVWD to research other grant opportunities to support CIP projects including those grants listed below

Task 2-1: JR Consulting will investigate Federal Emergency Management Agency (FEMA) grant funding to potentially assist with the design and/or construction for the repairs to the Lower Pickens Canyon water pipeline crossing.

Deliverable: *JR Consulting will investigate and provide the findings to CVWD regarding potential FEMA funding for design and/or construction funds for repairing the Lower Pickens Canyon water pipeline crossing.*

Schedule: *FEMA grants can be submitted anytime but typically new applications occur from November 2017 to February 2018.*

Task 2-2: JR Consulting will investigate United States Bureau of Reclamation (USBOR) funding to help offset CVWD's investments into AMI installation in the service area. CVWD current installation is estimated at approximately 4,000 AMI installation on meters installed in the late 1970's to mid-1980 with measurable improvements in losses of approximately 4.0%. The potential funding would help accelerate the remaining installation as well as the development of a fixed area network to have the AMI meters to be read automatically versus manually.

Deliverable: *JR Consulting will investigate and provide the findings to CVWD regarding potential USBOR funding AMI installations as well as fixed area network.*

Schedule: *USBOR issues Proposed Solicitation Packages (PSPs) in October to mid-November. After the PSPs are approved grants can be submitted typically from November 2017 to February 2018.*

Task 2-3: JR Consulting will investigate the potential to obtain a State Water Resource Control Board Division of Financial Assistance Drinking Water State Revolving Funding for capital improvement projects (CIP) which could be provided at a low interest loan (1.8-percent). JR Consulting is currently developing a DWSRF application package for another water retailer and will take that knowledge of the process and make recommendations to CVWD based upon CVWD 5-year CIP.

Deliverable: *JR Consulting will investigate and provide the findings to CVWD regarding potential SWRCB DFA DWSRF future CVWD CIP projects.*

Schedule: *Drinking Water State Revolving Funds (DWSRF) can be submitted anytime and currently SWRCB Division of Financial Assistance are looking for projects to fund and the process typically takes 12 to 18 months so would not impact the current 2017-2018 CIP budget.*

Task 3: Well #2 and Related Facilities:

JR Consulting will assist CVWD with three specific tasks with Well #2 and Related Facilities. Those tasks include:

- A. Permitting with City of Glendale (Grading and potentially a Building and Safety permit)
- B. Permitting and coordination with Glendale Water & Power (permits to be obtained by the selected Contractor)
- C. Assisting SA Associates (designers), APT (Equipment suppliers) and Construction Management teams during construction and testing of the new equipment with the SWRCB Division of Drinking Water.
- D. Completion on an Local Resource Program application to be submitted to Foothill Municipal Water District who will submit to Metropolitan Water District of Southern California.

MEETINGS

JR Consulting will be available for up to three (3) meetings including Executive management, Engineering Committee and Board of Directors to discuss the deliverables from the tasks.

Time Schedule

JR Consulting will commence with the proposed scope of services after the Professional Services Agreement (PSA) has fully been executed. JRC will provide a copy of our Certificate of Insurance per the PSA requirements and will keep the insurance valid throughout the project. JR Consulting will focus on Task 1 after the Notice to Proceed. JR Consulting will then focus on Task 2 and Task 3 during the period of the work.

The scope of work will be starting on July 1, 2017 through June 30, 2018 (12 months).

Compensation

JR Consulting will provide the scope of services with the proposed schedule as set forth in this proposal to CVWD on a time and material basis. Based on JR Consulting's present knowledge of the services described above, it is recommended that \$30,000 and is based on 200 hours at \$150 per hour which is \$3,000 per month but hours will only be charged for those hours worked as this is a not a lump sum proposal.

JR Consulting commits to timely, responsive services, and to deliver excellence in the offered services. We are eager and enthusiastic to begin this technical memorandum for CVWD.

If there are any questions, please feel free to contact me at (626) 375-9389 or jrobinson@johnrobinsonconsulting.com

Very truly yours,

John Robinson Consulting, Inc.

A handwritten signature in blue ink that reads "John Robinson". The signature is written in a cursive style with a large initial "J" and "R".

John Robinson, Principal

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3

August 10, 2017

To: Engineering Committee
From: David S. Gould, P.E. – District Engineer
Subject: Award of Contract for Quality Control Inspection Services for Well 2 and related facilities, Project E-956

INFORMATION ITEM:

CVWD's Well 2 and Related Facilities, Project E-956 – Consideration and motion to authorize the General Manager to enter into an agreement with Cannon Corporation for quality control inspection services for Well 2 and related facilities at a cost of \$128,614 and establish a contingency in the amount of \$12,861 (10% of contract) to cover the cost of unforeseen or additional work.

BACKGROUND:

CVWD received a grant from the Department of Water Resources (DWR) to reactivate Well 2 and construct a new biological nitrate removal treatment facility. The project will utilize a local water resource, increase CVWD's ability to use its adjudicated rights within the Verdugo Basin, reduce CVWD's dependence on imported water from MWD and reduce nitrate levels within the Verdugo Basin.

On July 15, 2017, the Well 2 and related facilities project was advertised for bids and the bids will be opened on August 30, 2017, construction should commence in late October 2017 and completed in May 2018.

DISCUSSION:

Staff needs the services of a construction management firm to coordinate the project in the field and to provide oversight during construction. Staff sent the RFP to four (4) firms qualified to provide construction management services, which does not include the design-engineering firm. The firms are Butier Engineering, Tetra-Tech, Civiltec Engineering and Cannon. Staff has worked with these firms on past projects and is well versed in these firm's capabilities.

The proposals were received on August 2, 2017 from three (3) firms as Civiltec Engineering declined to provide a proposal due to insufficient availability of staff. Staff reviewed each proposal and ranked each firm based on Project Concept/ Understanding, Scope of Work, Consultants Fee, Project Experience, Project Team Qualifications, and Project Schedule. As shown on the attached Consultant Ranking, Cannon Corporation (Cannon) provided as proposal that meets the District's needs for the project and at a cost within the project's budget.

	<u>Consultant</u>	<u>Total Proposal Amount</u>
Low	Cannon Corporation	\$128,681
2 nd	Tetra-Tech	\$148,855
3 rd	Butier Engineering	\$155,280
4 th	Civiltec Engineering	Declined to Bid

RECOMMENDATION:

It is staff's recommendation to enter into an agreement with Cannon for quality control inspection and construction management services at a total cost of \$128,614. Staff has had experience with Cannon since they provided construction management services for the Well 16 project.

ENVIRONMENTAL REVIEW:

N/A

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

Account Description	Grant Cost Breakdown
Greater Los Angeles County IRWM 2015 Solicitation Implementation Grant	\$1,825,000
<i>Amount reimbursed from Grant (39%)</i>	<i>\$705,775</i>
<i>CVWD Costs (61%)</i>	<i>\$1,119,225</i>
Breakdown of Project Costs	
Approved Contract – SA Associated - Engineering Services	<\$114,000>
Approved Contract – APTwater for ARoNite Nitrate Treatment System	<\$625,000>
Approved Contract – Royal Wholesale Electric for MCC & Switch Board	<\$98,547>
Engineer Cost Estimate – Well 2 Facilities	<\$907,000>
Construction Management Services	<\$128,614>
Contingency amount (10% of contract) to cover the cost of unforeseen or additional work.	<\$12,861>
Estimate Cost – Soil Inspection, Permitting Fees, Engineering Services, and Misc work	<\$138,978>
Total Estimated Cost for Design & Construction	<\$2,025,000>
Amount Remaining for Well 2 Project	<\$200,000>
Transfer of funds from Pipeline Replacement (Move the replacement of the pipeline on 3200 & 3300 Blocks of Brookhill to FY 18/19)	\$235,000
Remaining Funds	\$35,000

Prepared & Submitted by:



David S. Gould, P.E.
District Engineer

Attachments:

1. Quality Control Inspection Services Consultant Ranking

Crescenta Valley Water District

Quality Control Inspection Services for CVWD's Well 2 and Related Facilities at 4029 Lowell Ave Project E-956

Consultant Ranking

<i>Ranking</i>	Weighted Percent	Cannon		Tetra Tech		Butier Engineering		Civiltec Engineering	
		Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
Project Concept/ Understanding	25%	5.0	1.25	5.0	1.25	5.0	1.25		
Scope of Work	35%	5.0	1.75	5.0	1.75	5.0	1.75		
Consultant's Fee	15%	4.0	0.60	3.5	0.53	3.0	0.45		
Project Experience	10%	5.0	0.50	5.0	0.50	5.0	0.50		
Project Team Qualifications	10%	5.0	0.50	5.0	0.50	5.0	0.50		
Project Schedule	5%	5.0	0.25	4.0	0.20	5.0	0.25		
Final Weighted Score	100%	1 st	4.85	2 nd	4.73	3 rd	4.70		
Proposal Cost			\$128,614		\$148,855		\$155,280		

Each consultant's proposal rated 1 - 5 (5 outstanding - 3 average - 1 unsatisfactory) on each category above. Each rating is multiplied by the weighted average for each category and totaled for the final weighted score.

Categories:

Project Concept/ Understanding - *How well the consultant's proposal addressed the needs of the District as outlined in the request for proposal*

Scope of Work - *How well the consultant showed how its firm would complete the requested tasks*

Consultants Fee - *How well the consultant's proposal utilized their staff and the costs associated with the proposal*

Project Experience - *How much previous experience has the consultant on projects similar to this project*

Project Team Qualifications - *How did the consultant's proposal use its staff and the experience of the individual people involved*

Project Schedule - *How well did the consultant's proposal address the schedule and completion of the project*

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 4

August 10, 2017

To: Engineering Committee
From: David S. Gould, P.E. – District Engineer
Subject: Advertise for Bids – Steel Reservoir Rehabilitation at Oak Creek #1 & #2 Reservoirs, Project E-970

INFORMATION ITEM:

Steel Reservoir Rehabilitation at Oak Creek #1 & #2 Reservoirs, Project E-970 – Consideration and motion to authorize the General Manager to advertise for bids for steel reservoir rehabilitation at Oak Creek #1 & #2 Reservoirs with an engineer's construction estimate of \$658,000

BACKGROUND:

Crescenta Valley Water District (CVWD) owns two (2) 1.6 MG steel tanks at its Oak Creek Reservoir site located at 5041 Cloud Avenue. The steel tanks were built in 1958 and 1961. In 1996, an assessment was performed by Harper & Associates Engineering, Inc. (Harper) of the District's 17 reservoirs and it was determined that the Oak Creek Reservoirs needed to be re-coated to extend the life of the steel tanks. The re-coating of the reservoirs, which also included seismic structural upgrades was completed in September, 2001 and since that time, the interior & exterior of the Oak Creek Reservoirs have been inspected every five (5) years.

In December 2005, the Oak Creek reservoirs were inspected and it showed random corrosion on the roof and rafters.

In October 2011, the reservoirs were again inspected and there was increased corrosion on the roof and rafters above the water line. The report stated that the underside of the roof and structural elements are in poor condition. It was recommended to sand blast, remove the coating and corrosion, and re-coat the interior roof and shell. Also, any structural members damaged by the corrosion should be replaced. It was believed that the advanced corrosion in the open area above the water line was due to "off-gassing" of chlorine and not enough ventilation or air circulation to remove the chlorine into the atmosphere.

In July 2016, the reservoirs were inspected by Harper and they indicated that the condition of the roof, rafters and structural members above the water surface for both reservoirs had deteriorated to a worse condition than seen in 2011. Also, the coal-tar enamel coating on the floors is no longer allowed to be used in steel tanks; therefore, it will have to be removed and a new floor coating system would have to be installed.

DISCUSSION:

Harper was awarded a consultant contract to provide engineering design services for the rehabilitation for Oak Creek #1 & #2 Reservoirs. The project included:

- Sandblasting and removal of the existing interior and floor coating
- Re-coating the interior with an epoxy coating paint
- Installation of additional roof ventilation with fans to increase air circulation and reduce the amount of chlorine "off-gas" inside the reservoir
- A new epoxy coating system on the floor
- Removal and replacement of seismic structural steel to the roof
- New sampling ports, sacrificial anodes for corrosion protection and other appurtenances

RECOMMENDATION:

Staff recommendation is to authorize the General Manager to advertise for bids for the Steel Reservoir Rehabilitation at Oak Creek #1 & #2 Reservoirs at an engineer's construction estimate of \$658,000.

The project schedule is to advertise for bids in August and September 2017, award the contract in late September 2017, start construction in November 2017 on the first reservoir and construction of second reservoir in February 2018. Construction on each reservoir should be about 3 months each and the project should be completed by the end of May 2018.

Christina Olmedo will be the project manager and Cory Whitman will be the daily on-site inspector. This project will also require specialty inspection during the re-coating process and staff will be requesting a proposal from Harper for specialty inspection services.

ENVIRONMENTAL REVIEW:

This project is exempt from the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the CEQA Guidelines. This exemption covers the repair of existing facilities involving negligible or no expansion of existing use.

FUNDING AVAILABILITY:

There are sufficient funds available in the following account for the project:

Account Description	Amount
FY 16/17 Water CIP– Water Storage	\$900,000
Cost for Design Services + 10% Contingency	<\$21,800>
Preliminary Cost Estimate for Contractor	<\$658,000>
Additional costs such as specialty inspection costs, construction administration costs, dehumidification equipment & contingency	<\$181,000>
Total Cost Estimate	<\$860,800>
Amount Remaining in Water CIP – Water Storage	\$39,200

Prepared & Submitted by:



David S. Gould, P.E.
District Engineer