



Legislation Details (With Text)

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Title: City Council and Corona Utility Authority consideration of adopting the Plans and Specifications for the Mangular Blending Facility, Project No. 2018-13; award bid No. Notice Inviting Bid (NIB) 20-054CA and approve a Construction Contract with R C Foster Corporation in the amount of \$9,486,822.45; and award RFP No. 20-053CA and approve a Professional Services Agreement with Dudek to provide Construction Management and Inspection Services, in the amount of \$663,217.00.

Sponsors:

Indexes:

Code sections:

Attachments: 1. Staff Report, 2. Exhibit A - Location Map, 3. Construction Contract, 4. Professional Services Agreement

Date	Ver.	Action By	Action	Result
7/15/2020	1	City Council	approved	Pass

**AGENDA REPORT
REQUEST FOR CITY COUNCIL AND
CORONA UTILITY AUTHORITY ACTION**

DATE: 07/15/2020

TO: Honorable Mayor and City Council Members
Honorable President and Board Members

FROM: Public Works Department
Department of Water and Power

SUBJECT:

City Council and Corona Utility Authority consideration of adopting the Plans and Specifications for the Mangular Blending Facility, Project No. 2018-13; award bid No. Notice Inviting Bid (NIB) 20-054CA and approve a Construction Contract with R C Foster Corporation in the amount of \$9,486,822.45; and award RFP No. 20-053CA and approve a Professional Services Agreement with Dudek to provide Construction Management and Inspection Services, in the amount of \$663,217.00.

RECOMMENDED ACTION:

That the:

- a. City Council adopt the Plans and Specifications for the Mangular Blending Facility ("Project"), Project No. 2018-13.
- b. City Council award the bid, NIB 20-054CA, to R C Foster Corporation, the lowest responsive, responsible bidder, for the total bid amount of \$9,486,822.45, and waive any and all minor irregularities in the bidding document as submitted by said bidder.
- c. City Council authorize the City Manager, or Acting Public Works Director, to execute the Construction Contract with R C Foster Corporation, in the amount of \$9,486,822.45, and approve necessary change orders up to ten percent (10%) of the contract amount.
- d. City Council authorize the Purchasing Manager to issue a purchase order to R C Foster Corporation in the amount of \$ 9,486,822.45.
- e. City Council award Request for Proposals (RFP) 20-053CA, titled, "Construction Management and Inspection Services for Mangular Blending Facility" to Dudek, in the amount of \$663,217.00, and waive any and all minor irregularities in the proposal.
- f. City Council authorize the City Manager, or Acting Public Works Director, to execute the Professional Services Agreement with Dudek, in the amount of \$663,217.00, and approve necessary change orders up to ten percent (10%) of the contract amount.
- g. City Council authorize the Purchasing Manager to issue a purchase order to Dudek, in the amount of \$663,217.00.
- h. City Council authorize an appropriation of \$21,056.00 from the 2012 Water Revenue Bond Fund 453 to the Capital Improvement Project (6589) titled, "Mangular Blending Facility" and a decrease to the Water Utility Fund 570 appropriation by the same amount.
- i. Corona Utility Authority (CUA) review, ratify, and to the extent necessary, direct the City Council to take the above actions.

ANALYSIS:

The Project will construct a new potable water blending facility with pumping and disinfection facilities to enable the use of groundwater from the Temescal Groundwater Basin. The 2.0-million-gallon Mangular Tank, located at the east end of Mangular Park on Department of Water and Power property, is one of two 905 Zone domestic water storage and blending facilities serving the City of Corona. The Mangular Blend Facility primarily serves the west end of Corona. The Garretson Blend Facility, adjacent to Santana Park at Ontario Avenue and Magnolia Avenue, serves the east side of Corona. Existing water storage, blending, and pumping facilities at Mangular Park include a buried rectangular hopper-bottom reinforced concrete water tank with an at-grade tennis court roof and an overflow elevation of 905-ft, a blending facility with pressure reducing and control valves inside a vault, and a single water booster pump in a vault to pump blended water to the 1060 Zone water distribution system.

The tank receives water with elevated nitrate concentrations from City-owned wells 11, 12, 14, 15,

and 27, via a well collector line at flow rates ranging from 1,000 gpm to 3,800 gpm. The site receives lower nitrate treated blend water via a 1060 Zone transmission main (Crosstown Feeder) in Ontario Avenue, providing the flexibility of using blend water from either the Lester Water Treatment Plant or the Sierra del Oro Water Treatment Plant. The source of blend water is adjusted on a seasonal basis. The well water will be blended with the 1060 Zone blend water to achieve targeted nitrate concentrations in the blended water prior to discharge to the Mangular Tank.

The Project will include:

1. Nitrate samplers and a motor operated sleeve valve to control the blend rate and nitrate levels in water discharged to the Mangular Tank.
2. Two 150-hp 2,500-gpm pumps to pump blended water from the 905 Mangular Tank to the 1060 Zone water distribution system.
3. Three 150-hp 1,250-gpm pumps to pump blended water from the 905 Mangular Tank to the 1220 Zone water distribution system.
4. A 1-megawatt standby electrical generator.
5. Chemical storage and pumping facilities injecting sodium hypochlorite and ammonia to disinfect the blended water.
6. Various on-site and off-site waterlines including 16-inch, 20-inch, and 24-inch pipes connecting the well collection line, cross-town feeder, tank inlet piping, tank discharge piping, and connections from the new facility to the existing 905-Zone, 1060-Zone and 1220-Zone water distribution systems.
7. New Southern California Edison electrical power service.
8. A mechanical and electrical equipment building to be constructed of masonry block set into the existing slope and surrounded by landscaping to reduce noise and minimize the visual impact to the park.

The Project location and limits are shown on Exhibit "A."

The Plans for the Project were completed by HDR and reviewed by City staff. The specifications were prepared by City staff.

The Project was advertised for bids on April 23, 2020, per Corona Municipal Code and Public Contract Code requirements and is ready for adoption and award. On June 9, 2020, two (2) valid bids were received from prequalified contractors through the PlanetBids bidding service.

The following is a summary of the bid results and the Engineer's Estimate:

Contractor		Location	Bid Schedule
Engineer's Estimate			\$9,055,754.00
1	R C Foster Corporation	Corona, CA	\$9,486,822.45
2	Pascal & Ludwig Constructors	Ontario, CA	\$9,761,256.00
	Pacific Hydrotech Corporation	Perris, CA	Not responsive (no bid bond)

A nonresponsive bid without a bid bond was received from Pacific Hydrotech Corporation in the amount of \$9,243,755. A determination was made by the City Attorney's office that under Public Contract Code §20171, failure to submit a bid bond is a defect the City cannot waive.

Staff reviewed all bids received and recommends awarding the contract based on the Bid Schedule for a total contract amount of \$9,486,822.45 to R C Foster Corporation, as the lowest responsive, responsible bidder. All licenses and references for R C Foster Corporation have been reviewed and verified by City staff, and all other documentation is in order.

On March 18, 2020, RFP 20-053CA was advertised seeking construction management and inspection services for the Project. In addition to construction management and inspection services, the scope of work includes soils and materials testing, and public outreach services. On April 16, 2020, seven (7) proposals were received through the PlanetBids bidding service. Proposals were subsequently reviewed by a panel of City staff, an engineer employed by another public agency, and the contract project manager. The proposal from Michael Baker was considered non-responsive as the company took significant exceptions to Corona's professional liability insurance requirements, which is inconsistent with City Risk Management policies. The following is a summary of the proposal scoring results:

Firm	Location	Total Score (100%)*
Dudek	San Marcos, CA	94.4
Albert A. Webb & Associates	Riverside, CA	86.3
Butier Engineering	Tustin, CA	82.9
MKN	Newhall, CA	82.1
Ardurra Group	El Segundo, CA	76.8
AKM Consulting Engineers	Irvine, CA	74.3
Michael Baker	Ontario, CA	Non-Responsive

*Based on Qualifications of Firm (10%), Qualifications of Personnel (40%), Work Plan/Project Understanding and Approach (40%), and Value (10%).

Staff believes the Dudek Construction Management team possesses the skills and experience necessary to successfully execute the scope of work for the project. The construction manager proposed for this project has a successful track record of managing Corona Department of Water and Power (DWP) projects of a similar nature and complexity and will be supported by specialty firms and individuals with a similar record of success on previous Corona DWP projects. During bid advertising,

the City extended the construction contract time in recognition of the current challenges with materials and equipment procurement and potential delays to the project. Staff negotiated the scope of work and fee with Dudek to adjust the labor hours to provide a better fit with the anticipated schedule and the effort required to successfully manage construction of the project.

Construction is tentatively scheduled to commence in September 2020, with completion anticipated in October 2021.

COMMITTEE ACTION:

Not applicable.

STRATEGIC PLAN:

These projects will achieve one of the City’s six strategic plan goals of 1. Promote Public Safety; Objective C: Ensure adequate funding for investments and improvements in infrastructure that support public safety.

FISCAL IMPACT:

Funding for construction of the Project including the construction management, inspection, and all other necessary costs above current committed funds, will be partially provided by 2012 Water Revenue Bond Funds issued for \$35,880,000. The bond proceeds allocated to the Mangular Blending Facility is \$7,762,620, which includes \$372,276 in interest earned and balance from the cost of issuance. Total Project cost is estimated to be \$13,650,000.

Total Project costs of \$13,650,000 will be paid out of the 2012 Water Revenue Bond Fund 453 and the Water Utility Fund 570 within Capital Improvement Project (6589) titled, “Mangular Blending Facility”.

The estimated Project cost is outlined as follows:

Design, Permitting, Bidding, and Administration.....	\$1,080,000
Construction	\$10,560,000
City and Consultant Construction Support.....	\$1,060,000
Contingency.....	\$950,000
Total Construction Cost.....	\$13,650,000

Additionally, approval of the recommended actions will result in an appropriation of \$21,056 from the 2012 Water Revenue Bond Fund 453 to the Capital Improvement Project (6589) titled, “Mangular Blending Facility” and a decrease to the Water Utility Fund 570 appropriation by the same amount.

Fund	07/01/20 Est. Working Capital	Budgeted Revenues/ Sources	Budgeted Expenditures/ Uses	Working Capital Impacts	06/30/21 Est. Working Capital
2012 Water Revenue Bond Fund 453	\$662,767	\$0	(\$641,710)	Appropriation (\$21,056)	\$0
Water Utility Fund 570	\$5,452,447	\$58,938,149	(\$63,497,145)	Reduce Appropriation \$21,056	\$914,507

ENVIRONMENTAL ANALYSIS:

The City of Corona Groundwater Management Plan (GWMP) Program Environmental Impact Report (PEIR) was adopted on May 2, 2012. The GWMP identified eight general categories of management strategies and defined 25 specific management strategies for implementation of the GWMP, which are intended to facilitate a sustainable groundwater resource supply for the City. The Project was included in one of the specific management strategies within the PEIR under Groundwater Treatment Process Improvements. Within that management strategy, the Groundwater Blending Program was identified as a process benefitting the City by lowering nitrate levels to allow groundwater extraction to continue in areas of high nitrate levels resulting from historical activities including agriculture. An environmental evaluation of the Project was prepared in an Initial Study to analyze all impacts associated with the Project. The environmental evaluation confirmed the Project will cause no new or substantially greater significant impacts, and all mitigation measures identified in the GWMP applicable to this Project will be implemented. The PEIR Addendum for the Project was adopted on November 6, 2019.

The Corona DWP held community public meetings at Adams Elementary School on August 21, 2012, June 3, 2014, and March 23, 2016, and at Mangalar Park on September 11, 2018 to present information about the proposed Project.

PREPARED BY: VERNON R. WEISMAN, P.E., DISTRICT ENGINEER

REVIEWED BY: TOM KOPER, P.E., ACTING PUBLIC WORKS DIRECTOR

REVIEWED BY: TOM MOODY, GENERAL MANAGER

REVIEWED BY: SCOTT BRIGGS, PURCHASING SPECIALIST V

REVIEWED BY: KIM SITTON, ACTING ADMINISTRATIVE SERVICES DIRECTOR

REVIEWED BY: ROGER BRADLEY, ASSISTANT CITY MANAGER

SUBMITTED BY: JACOB ELLIS, CITY MANAGER & EXECUTIVE DIRECTOR

Attachments:

1. Exhibit A - Location Map
2. Construction Contract
3. Professional Services Agreement