

September 13, 2021

Mr. Steve Ledbetter, PE  
Vice President  
TKE Engineering, Inc.  
2305 Chicago Avenue  
Riverside, CA 92507

Subject: Mission Springs Water District  
Project 17-002-S Regional Water Reclamation Facility  
Recommendation for Award

Dear Mr. Ledbetter:

AECOM has completed its review of the bid proposals for the Regional Water Reclamation Facility, Project 17-002-S. The following is a summary of our review and recommendation for award.

Bid Proposals were received from five general contractors on July 22, 2021. All bidders completed the appropriate forms, provided bid bonds, acknowledged addenda, and submitted the required experience questionnaires for themselves and their subcontractors. There were no irregularities found in the bids.

The bids received were as follows:

<b>Contractor</b>	<b>Bid Proposal</b>
J.F. Shea Construction, Inc	\$40,986,000
Flatiron West, Inc.	\$44,900,000
W M Lyles Construction Company	\$46,435,000
Shimmick Construction Company	\$49,985,000
Kiewit Infrastructure West, Inc.	\$50,801,000

The Engineer's estimate was \$34,000,000, compiled in late 2020. Prices were considerably higher than anticipated due to supply chain issues, generally related to transportation and delivery constraints in the recent months. We understand from our estimators and discussions with several of the Bidders that costs for various commodities including cement, pozzolan admixtures, PVC pipe, steel and ductile iron pipe were as much as twice the cost of 2019, before the pandemic in the US and globally. Recent pricing on AECOM projects nationally have been 40% to 80% above the engineer's estimate, due to these problems.

A detailed Bid Tabulation is enclosed. The three lowest bids were within 13 percent of each other. Yet all bids were above the Engineer's estimate. The lowest bidder, J.F Shea Construction, Inc., was 20 percent (\$7 million) above the Engineer's estimate. The bid tabulation shows a wide variability of pricing among the Bidders for some items, but the bid items were not unbalanced for any of the

Bidders. For the major facility Items 4 through 9, the totals for all bidders were within 12 percent of each other. The biggest factor in price increases was apparently concrete construction costs, which were well above the average values of recent years, and is reflected in the individual bid items. Equipment costs were relatively stable. Bid Item 14 is an allowance for Site Security, which was fixed for all Bidders.

### **Bid Forms Compliance**

The attached Table 2 is a summary of the compliance of each Bidder to the requirements of the Bid Documents. There were no irregularities noted in any of the Bid Proposal Documents. All firms completed acknowledged the six addenda, provided a Bid Bond and signed all the required documents. Each submitted the required Bid Forms and schedules. Several submitted DBE Compliance forms within 5 days after the Bid Date, which was acceptable. In general, all provided adequate information on qualifications of the firm and their proposed personnel. The personnel offered by Kiewit Infrastructure did not have appropriate experience and were deemed not adequate for the work proposed.

Table 2 also lists the manufacturers and suppliers proposed by each of the Bidders. All Bidders were compliant with the requirements of Schedule C. Three suppliers were preselected and provided pre-negotiated prices in June. All Bidders were required to use these vendors and prices in their Bid Proposal.

Hydro International – Grit Removal	\$378,030.00
BDP Industries – Belt Filter Press	\$439,000.00
Serpentix – Conveyors	\$253,965.00

The vendors provided pricing for 90 days from the date of their offers, in June. Two of the suppliers have agreed to hold their prices through October. One has requested a slight increase to extend its offer past September.

A fourth vendor, Schneider Electric – PLC Systems, was specified as sole source during the Bid Period.

### **Qualifications Review**

All five Bidders are well-qualified and have worked on similar projects in California. AECOM contacted references provided by the three low bidders, J.F. Shea, Flatiron West and WM Lyles. All are highly recommended by the clients listed. They were all able to provide good quality work within the project schedules, were cooperative and responsive during construction and warranty period of construction, had a good safety record, and the clients would use them again. AECOM and its staff have worked with all three contractors on recent municipal projects and have found them competent and responsive.

#### J.F. Shea Construction, Inc.

J. F. Shea Construction, Inc. is a general contractor in construction of water and wastewater infrastructure for more than 24 years. They have a bonding capacity of \$750 million and have worked

on projects as large as \$592 million. The largest wastewater treatment project they completed was the new Headworks facility at Orange County Sanitation District's Plant 2, at \$199 million. That was a very complex facility with new screening, grit removal, influent pumping and major odor control system. J.F. Shea has done more water treatment projects than wastewater treatment facilities, but the work on the water treatment plants is at least as complex as that of the proposed Regional Water Reclamation Facility.

J.F. Shea's proposed project manager has been with J.F. Shea since 1999 and has managed projects as large as \$570 million. Their proposed superintendent also has more than 28 years' experience and has been with J.F. Shea since 2003.

#### Flatiron West, Inc.

Flatiron West, inc. is a general contractor in construction of transportation facilities and water/wastewater facilities throughout California and western United States. They have a bonding capacity of \$1 billion. They have substantial experience in wastewater treatment projects, including a current upgrade of the Elsinore Water Reclamation Facility in Lake Elsinore. They constructed the ECHO Water Nutrient Sidestream Treatment (NST) facility designed by AECOM, and are currently constructing the Morena Pumping Station in San Diego, an AECOM project.

Flatiron proposes a project manager with more than 33 years' experience, with emphasis on water and wastewater treatment projects. Their superintendent has been with Flatiron for more than 5 years and has managed projects as large as \$57 million. Their proposed superintendent has more than 44 years' experience. He is a recent hire for Flatiron but was superintendent with Balfour Beatty Infrastructure on major treatment projects with Contract values up to \$150 million.

#### W M Lyles Construction

W.M Lyles is a general contractor that specializes in water and wastewater treatment projects throughout California. They have a bonding capacity of \$1.5 billion. They have been in operation for more than 75 years in California. They have substantial recent and current experience in water reclamation facility construction, including the 1.65 mgd High Desert MBR treatment plant for the Hi-Desert Water District. AECOM has worked with Lyles on more than 5 projects in the past 5 years, including a current design/build project for a major advanced water reclamation facility for the Padre Dam Water District.

W M Lyles proposes a project manager with more than 15 years' experience in managing large water and wastewater treatment facility projects, ranging up to \$100 million. Their proposed superintendent has more than 40 years' experience, with representative projects in wastewater treatment up to \$330 million.

#### **Summary**

All of the Bidders were responsive and all are responsible contractors with good reputations for the proposed work. AECOM recommends award of this project to J.F. Shea, Inc. in the amount of \$40,986,000, as the lowest responsive, responsible bidder. Please contact me if you require additional information.

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The Bidders are required to hold their bid prices for 90 days, to October 22, 2021. Please advise if there will be any delay of award. We can follow up with the Contractors to ask them to extend their proposals past that date.

Yours very truly,  
AECOM TECHNICAL SERVICES, INC.



Nicholas B. Cooper  
Project Manager

Cc: Alex Franchi, P.E.

Table 1. Bid Tabulation

Mission Springs Water District  
 Bid Results for MSWD Regional Water Reclamation Facility - Project 17-002-S  
 Bid Date: July 22, 2021 2:00 PM (PDT)

Item Number	Description	Unit of Measure	J.F. Shea Construction, Inc.	Flatiron West, Inc.	WM Lyles Co	Shimmick Construction Company, Inc.	Kiewit Infrastructure West Co.	Engineer's Estimate
1	Mobilization & Demobilization	LS	\$ 1,500,000	\$ 2,200,000	\$ 2,000,000	\$ 2,490,000	\$ 2,000,000	\$ 1,500,000
2	SWPP, BMP, and Monitoring	LS	\$ 355,000	\$ 450,000	\$ 450,000	\$ 750,000	\$ 300,000	\$ 350,000
3	Mass Excavation and Grading	LS	\$ 1,838,000	\$ 5,000,000	\$ 1,000,000	\$ 3,500,000	\$ 4,700,000	\$ 3,000,000
4	Influent Pump Station and Headworks Structure	LS	\$ 4,409,000	\$ 8,000,000	\$ 4,200,000	\$ 5,100,000	\$ 2,200,000	\$ 2,000,000
5	Sequencing Batch Reactor Structure	LS	\$ 11,694,000	\$ 15,300,000	\$ 12,500,000	\$ 10,245,000	\$ 19,001,000	\$ 9,500,000
6	Aerated Sludge Storage and Plant Drain Pump Station	LS	\$ 3,907,000	\$ 3,000,000	\$ 3,300,000	\$ 6,100,000	\$ 4,800,000	\$ 1,800,000
7	Effluent Structures	LS	\$ 900,000	\$ 500,000	\$ 900,000	\$ 1,750,000	\$ 900,000	\$ 600,000
8	Dewatering Facilities	LS	\$ 1,722,000	\$ 2,000,000	\$ 1,200,000	\$ 1,750,000	\$ 1,500,000	\$ 1,600,000
9	Administration Building	LS	\$ 8,149,000	\$ 4,000,000	\$ 7,900,000	\$ 8,600,000	\$ 4,100,000	\$ 4,000,000
10	Outside Piping	LS	\$ 1,652,000	\$ 1,000,000	\$ 2,500,000	\$ 2,500,000	\$ 1,500,000	\$ 2,000,000
11	Site Grading, Paving and Fencing	LS	\$ 2,945,000	\$ 1,500,000	\$ 3,450,000	\$ 4,150,000	\$ 2,700,000	\$ 2,500,000
12	Electrical and Instrumentation	LS	\$ 1,270,000	\$ 1,500,000	\$ 6,485,000	\$ 2,250,000	\$ 6,500,000	\$ 4,500,000
13	Commissioning and Closeout Requirements	LS	\$ 245,000	\$ 50,000	\$ 150,000	\$ 400,000	\$ 200,000	\$ 250,000
14	Site Security System	ALLOWANCE	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000
	TOTAL		\$ 40,986,000	\$ 44,900,000	\$ 46,435,000	\$ 49,985,000	\$ 50,801,000	\$ 34,000,000

Table 2. Bid Forms Compliance

Description	J.F. Shea Construction, Inc.	Flatiron West, Inc.	WM Lyles Co	Shimmick Construction Company, Inc.	Kiewit Infrastructure West Co.
Bid Proposal Signed	Yes	Yes	Yes	Yes	Yes
Bid Bond - 10 Percent of Bid	Yes	Yes	Yes	Yes	Yes
Acknowledge Addenda	Yes	Yes	Yes	Yes	Yes
Labor Code Certification - Signed	Yes	Yes	Yes	Yes	Yes
Certificate of Non-discrimination - Signed	Yes	Yes	Yes	Yes	Yes
Non-Collusion Affidavit - Signed	Yes	Yes	Yes	Yes	Yes
Contractor's License Statement - Signed	Yes	Yes	Yes	Yes	Yes
Public Contract Code 10162 Questionnaire - Signed	Yes	Yes	Yes	Yes	Yes
Schedule A - Contractor's Qualifications					
Project Manager's Experience	Accept	Accept	Accept	Accept	Not Adequate
Superintendent's Experience	Accept	Accept	Accept	Accept	Not Adequate
Company Experience - Similar Projects	Accept	Accept	Accept	Accept	Accept
References	Accept	Accept	Accept	Accept	Accept
Claims History	Accept	Accept	Accept	Accept	Accept
Financial Statement - 3 years	Accept	Accept	Accept	Accept	Accept
Schedule B - Subcontractors (0.5% or greater)					
	Accept	Accept	Accept	Accept	Accept
Schedule C - Manufacturers and Suppliers					
1. Submersible Mixers	Wilco EMU	Wilco EMU	Wilco EMU	Wilco EMU	Wilco EMU
2. Vertical Turbine Pumps	Flowserve	Flowserve	Flowserve	Flowserve	Goulds
4. Recessed Impeller Pumps	Wemco	Wemco	Wemco	Egger	Wemco
5. Submersible Non-Clog Sewage Pumps	Flygt	Wilco EMU	Wilco EMU	KSB	Wilco EMU
6. Hydraulic Diaphragm Metering Pumps	Grundfos	Grundfos	Grundfos	Milton Roy	Grundfos
7. Peristaltic Metering Pumps	Watson-Marlow	Blue-White	Watson-Marlow	Watson-Marlow	Watson-Marlow
8. Multi-Rake Bar Screens	Vulcan	Kusters	Kusters	JWC	Headworks, Inc.
9. Grit Removal Systems	Hydro International	Hydro International	Hydro International	Hydro International	Hydro International
10. Screenings Wash Press	Vulcan	Kusters	Kusters	JWC	Headworks, Inc.
11. Belt Filter Press System	BDP Industries	BDP Industries	BDP Industries	BDP Industries	BDP Industries
12. Odor Control System	ECS Environmental	ECS Environmental	ECS Environmental	ECS Environmental	ECS Environmental

Table 2. Bid Forms Compliance

Description	J.F. Shea Construction, Inc.	Flatiron West, Inc.	WM Lyles Co	Shimmick Construction Company, Inc.	Kiewit Infrastructure West Co.
13. Rotary Positive Displacement Blowers	Universal Blower	Aerzen	Aerzen	Aerzen	Aerzen
14. Rotary Screw Compressors	Aerzen	Aerzen	Aerzen	Aerzen	Aerzen
15. Sequencing Batch Reactors	Alfa Laval	Alfa Laval	Alfa Laval	Alfa Laval	Alfa Laval
16. PLC System <sup>1</sup>	Schneider	Schneider	Schneider	Schneider	Schneider
17. Shaftless Screw Conveyor	Vulcan	Kusters	Kusters	JWC	Headworks, Inc.
18. Belt Conveyor and Sludge Distributor Conveyor	Serpentix	Serpentix	Serpentix	Serpentix	Serpentix
19. Aluminum Slide Gates	Golden Harvest	Whipps	Golden Harvest	Rodney-Hunt	Hydro-Gate
20. Air Flow Control Valves	Egger	Egger	Egger	Egger	Egger
21. Electric Motor Operators	Rotork	Rotork	Rotork	Rotork	AUMA
22. Variable Frequency Motor Controllers	ABB Drives	ABB Drives	ABB Drives	Allen Bradley	Allen Bradley
23. Motor Control Centers	General Electric	General Electric	General Electric	Eaton	Eaton
Schedule D.1 Davis-Bacon Wages - Signed	Yes	Yes	Yes	Yes	Yes
Schedule E - DBE Compliance Forms <sup>2</sup>	Submitted <sup>2</sup>	Submitted <sup>2</sup>	Yes	Not complete with Bid	Yes
Public Works Contractor Registration Certification	Yes	Yes	Yes	Yes	Yes
<sup>1</sup> Schneider PLCs required - Addendum 3					
<sup>2</sup> DBE Compliance Forms can be submitted within 5 working days					