



## PUBLIC SERVICE BOARD MEETING AGENDA ITEM

### REGULAR MEETING Wednesday, August 09, 2017

#### SUBJECT

Bid Number 41-17, Secondary Membrane Treatment of Reverse Osmosis Concentrate at Wells 404, 408, and 414

#### BACKGROUND

El Paso Water (EPWater) operates 11 reverse osmosis (RO) membrane units at existing Lower Valley wells to treat brackish groundwater to potable standards. These units discharge up to 25% of their water production to the sanitary sewer as brine concentrate, reducing the volume of potable water available for consumption. Joint research by EPWater and UTEP has shown that secondary RO techniques, including seawater reverse osmosis (SWRO), can reduce the total volume of concentrate disposal to approximately 3%. This bid is for the installation of three SWRO treatment units at Wells 414, 408, and 414.

#### EVALUATION PROCESS

EPWater received four bids for this project on July 12, 2017. The bidders were El Paso A.R.C. Electric, RMCI of Texas, Smithco Construction, and R.M. Wright Construction. The bids ranged from \$1,942,114 to \$2,093,100 or 23.7% to 33.3% above the Engineer's Estimate of \$1,569,985. The apparent low bidder was RMCI of Texas. RMCI of Texas is not a local contractor; therefore, once a 5% reciprocity was applied, the apparent low bidder became El Paso A.R.C. Electric.

The project consulting engineer, Roe Engineering, L.C. (dba H2O Terra), evaluated El Paso A.R.C. Electric and has determined that they meet the minimum general requirements as well as the minimum project specific criteria as specified on the bid documents. Staff reviewed the engineer's evaluation and recommends award of Bid Number 41-17, Secondary Membrane Treatment of Reverse Osmosis Concentrate at Wells 404, 408, and 414, to El Paso A.R.C. Electric, as the lowest responsive, responsible bidder in the amount of \$1,942,114.

#### FINANCIAL IMPLICATIONS

Sufficient funds are available in account number 1217-024, and the funding sources include \$272,000 from a U.S. Bureau of Reclamation grant, \$1,370,114 from the Improvement Fund, and \$300,000 from the Commercial Paper Program.

#### PROPOSED ACTION REQUESTED

Consider and award Bid Number 41-17, Secondary Membrane Treatment of Reverse Osmosis Concentrate at Wells 404, 408, and 414, to the lowest responsive, responsible bidder, El Paso A.R.C. Electric, Inc., in the amount of \$1,942,114 and authorize the use of commercial paper.

#### SUPPORTING DOCUMENTATION PROVIDED

) Bid Tab

**PUBLIC SERVICE BOARD - EL PASO WATER UTILITIES**  
**TABULATION OF BIDS FOR: Secondary Membrane Treatment of Reverse Osmosis**  
**Concentrate at Wells 404, 408, 414**

**BID TO BE OPENED: July 12, 2017 @ 2:00 P.M.**

**BID NUMBER: 41-17**

Prepared By:                     

Reviewed By:                     

Reviewed By:                     

Date: 7/22/17

ITEM	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	EL PASO A.R.C. ELECTRIC INC	RMCI, INC OF TEXAS	SMITHCO CONSTRUCTION, INC.	R.M. WRIGHT CONSTRUCTION COMPANY
					8010 North Loop Dr. El Paso, TX 79915	P.O. Box 91447 Albuquerque, NM 87199	6 King Canyon Loop Caballo, NM 87931	285 Rio West Drive El Paso, TX 79932
1	Insurance, Bonds, and mobilization, demobilization Expenses Not to Exceed 5% of Total Bid, Items No. 2 through No. 5.	1	LS	\$78,519.00 TOTAL	\$74,696.00	\$190,000.00	\$80,000.00	\$97,000.00
	<b>WELL 404</b>							
2	Furnish and Install the Owner furnished CERRO System, and all work in Divisions 2 through 17 within the perimeter of the well	1	LS	\$464,312.00 TOTAL	\$571,636.00	\$572,000.00	\$550,000.00	\$594,000.00
	<b>WELL 408</b>							
3	Furnish and Install the Owner Furnished CERRO System, and all work in Divisions 2 through 17 within the perimeter of the well site, including driveways, sidewalks and curb and gutters and excluding items noted elsewhere on the Bid Form; complete in place, the sum of	1	LS	\$612,479.00 TOTAL	\$685,654.00	\$576,000.00	\$680,000.00	\$743,000.00
	<b>WELL 414</b>							
4	Furnish and Install the Owner Furnished CERRO System, and all work in Divisions 2 through 17 within the perimeter of the well site, including driveways, sidewalks and curb and gutters and excluding items noted elsewhere on the Bid Form; complete in place, the sum of	1	LS	\$414,475.00 TOTAL	\$606,528.00	\$570,000.00	\$625,000.00	\$659,000.00
5	Trench Safety System; Trench Box Method or Sheet piling, Shoring, and Bracing Method, complete in place, the sum of	100	LF	\$2.00 UNIT \$200.00 TOTAL	\$35.00 \$3,500.00	\$35.00 \$3,500.00	\$20.00 \$2,000.00	\$1.00 \$100.00
TOTAL ESTIMATED CONTRACT PRICE (ITEMS 1 THROUGH 5)				\$1,569,985.00		\$1,911,500.00	\$1,937,000.00	
					\$1,942,114.00	5% RECIPROCIITY APPLIES \$95,575.00 \$2,007,075.00	5% RECIPROCIITY APPLIES \$96,850.00 \$2,033,850.00	\$2,093,100.00
					RESIDENT BIDDER BID BOND PROVIDED	NONRESIDENT BIDDER BID BOND PROVIDED	NONRESIDENT BIDDER BID BOND PROVIDED	RESIDENT BIDDER BID BOND PROVIDED