

East Side Water Treatment Plant Expansion to 540 MGD, Part A Supplemental Agreement No. 2

Quality of Life Committee

April 24, 2006

PURPOSE

Provide the status of the ESWTP and Bachman expansions and seek a recommendation for award of Supplemental Agreement No. 2 Professional Services Contract to Chiang, Patel & Yerby, Inc. at the City Council Meeting on April 26 ,2006

Water Treatment Plant Requirements

- Professional Services for design and construction management were identified for ESWTP and Bachman WTP**
- Bachman WTP construction for expanding its capacity from 110 to 150 MGD began in 2001. The last of eight contracts is scheduled to be completed by 2009**
- ESWTP expansion is required to treat additional water from Lake Fork. The water treatment capacity will increase from 440 to 540 MGD**
- The overall project approach provided for phasing and annual supplementation of engineering design and construction management for ESWTP and construction management at Bachman WTP**
- The Multiple phases allows for better project management control and to keep from allocating too large a share of one year's capital improvement funds into one sole project in one year.**

Professional Services Contract

Council awarded on September 11, 2002 for \$10,082,073

- Engineering design services for multi-phase expansion of ESWTP from 440 to 540 MGD.
- Construction Management services for construction contracts at Bachman WTP and future construction contracts at ESWTP.
- Construction Management Services are scheduled to be funded annually as part of the Capital budget.

Council awarded on October 27, 2004 Supplemental Agreement No. 1 for \$6,312,050

- Additional design services for ESWTP Expansion to 540 MGD
- Construction Management services for Bachman WTP continued

Council Agenda April 26, 2006 Supplemental Agreement No. 2 for \$2,185,900

- Continued Construction Management services for Bachman WTP and ESWTP
- Pre-Construction phase Construction Management Services for ESWTP.

Expected in FY 06/07

- Prepare designs for improvements at the plant and assist in award of multiple construction contracts at ESWTP
- Annual award of construction management services at ESWTP \$2,402,523
- Supplemental Agreement for additional Bachman project construction management services beyond the initial anticipated scope \$1,827,695

Status of East Side WTP Expansion to 540 MGD

- Completed design of Stage IV Filter Expansion
- Received Bids on Stage IV Filter Expansion
 - Low Bid \$31,463,975
 - Anticipate Award June 2006.
- Continuing engineering design for additional contracts to complete East Side WTP Expansion to 540 MGD.

Construction Work	Begin	Completed	Cost
Stage IV Filters	Jun 2006	Mar 2009	\$32,000,000
Electrical Improvements	2007	2008	\$15,000,000
Sedimentation Basin	2008	2012	\$30,000,000
Chemical Facilities	2009	2012	\$15,000,000
Stage V Filters	2010	2012	\$30,000,000
Total ESWTP 540 MGD Construction			\$122,000,000

Status of Bachman WTP

Work	Begin	Completed	Cost
Sedimentation Basins	Feb 2003	April 2005	\$12,908,771
Low Lift Pump Station	Feb 2003	April 2005	\$15,598,059
Raw Water Pipeline	Feb 2003	April 2005	\$ 6,884,280
Electrical Substation	Mar 2003	May 2004	\$ 2,754,292
Hydraulic & Filters	Aug 2003	Aug 2005	\$18,661,045
Ozone Structures/ Chemical	Jan 2004	Dec 2006	\$22,755,000
High Service Pump Station/ Clearwell	Jun 2005	Dec 2007	\$34,020,000
Maintenance Facilities/ Controls	2008	2009	\$ 8,200,000
Total Bachman Construction			\$121,781,447

Future Schedule

East Side WTP Expansion: Transfer Pump Station

- Continuing Construction Management Services at East Side WTP
- Multiple Construction Awards at East Side WTP 2006 – 2012

Work	Begin	Completed	Cost
Earthwork	Sept 2006	Fall 2007	\$ 8,000,000
Transfer Pump Station #3	Dec 2006	Summer 2008	\$45,000,000
Clearwells – 2 & Piping	2009	2010	\$45,000,000
Clearwells – 2 additional	2010	2012	\$20,000,000
Total ESWTP 540 MGD – Transfer Pump Station Construction			\$118,000,000

Recommendation

Request Committee support for award of Item #14 on the April 26, 2006 Council Agenda for authorization of Supplemental Agreement No. 2 for the professional services contract with Chiang, Patel & Yerby, Inc.