

Memorandum



CITY OF DALLAS

DATE September 5, 2014

TO Honorable Members of the Quality of Life & Environment Committee: Dwaine R. Caraway (Chair), Sandy Greyson (Vice Chair), Adam Medrano, Rick Callahan, Carolyn R. Davis, and Lee M. Kleinman

SUBJECT September 10, 2014 Consent Agenda for Water Utilities Capital Projects – **Items #33 & #34**

The Eastside Water Treatment Plant was originally constructed in the 1960s and expanded to 440 million gallons per day (MGD) in three stages. Currently the Eastside Water Treatment Plant supplies approximately half of the treated water delivered to the City of Dallas and its customer cities.

In June 2010, City Council approved a contract with Black & Veatch Corporation (B&V) to perform engineering of the recommended water quality improvements at the Eastside Water Treatment Plant. The contract and the planned supplemental agreements included design and construction phase services for changes to the treatment process, including enhanced coagulation and biological filtration, for improved water quality and disinfection stability.

The construction was designed in a phased approach to implement the treatment process changes recommended in the water quality study. The first construction project, awarded in June 2012, included electrical distribution improvements and modification of filter Stages I – III to facilitate filter to waste operation and changes to the hydraulic conduits pre- and post-filter to provide for improved filter operation and reliability and to accommodate the transition to biologically active filters.

Items 33 and 34 on the September 10, 2014 consent agenda are for furthering the implementation of the water quality study recommendations completed in 2009. Details of the items are below:

Agenda Item 33 is to authorize the award of a construction contract to Oscar Renda Contracting, Inc. for an amount not to exceed \$79,259,374. This project includes the modifications to the flocculation and sedimentation basins which will allow the transition to the enhanced coagulation while bringing the basins in compliance with the current TCEQ regulations for basin loading rates. The project replaces flocculation and residuals collection equipment, increases the flocculation time, and improves hydraulics to promote flow through the basins. This includes demolition of the existing basins and installation of a pier supported structural foundation to provide structural stability for the new equipment, floors and walls.

Agenda Item 34 is to authorize Supplemental Agreement No. 3 to the professional service contract with Black & Veatch Corporation for additional engineering services for a not to exceed amount of \$6,284,000, from 10,217,885 to \$16,501,885. This supplemental agreement includes design services for the Biological Filtration Optimization Improvements including a required non-chlorinated backwash pump station and associated chemical storage & feed improvements, Programmable Logic Controllers, and SCADA used for operating the system. The engineer will also provide conceptual design services for residuals improvements at Eastside Water Treatment Plant addressing hydraulic and capacity limitations of the current residuals lagoons and the use of off-site lagoons. Construction phase services for the flocculation and sedimentation basin project (Item 33) are included in this item.

Completion of these projects is an integral step for the full implementation of the recommendations from the water quality study to achieve a more stable chemical and biological water quality throughout the entire water distribution system. The implementation of enhanced coagulation and biological filtration will reduce the number of redwater incidents in the distribution system as well as meet the TCEQ and EPA's regulatory requirements for treated water and disinfection by-products.

Please let me know if you should need additional information or require additional information.



Mark McDaniel
Assistant City Manager

cc: A.C. Gonzalez, City Manager
Warren M.S. Ernst, City Attorney
Craig D. Kinton, City Auditor
Rosa A. Rios, City Secretary
Daniel F. Solis, Administrative Judge
Ryan S. Evans, First Assistant City Manager
Jill A. Jordan, P.E., Assistant City Manager
Forest E. Turner, Assistant City Manager
Joey Zapata, Assistant City Manager
Charles M. Cato, (I) Assistant City Manager
Theresa O'Donnell, (I) Assistant City Manager
Jeanne Chipperfield, Chief Financial Officer
Sana Syed, Public Information Officer
Elsa Cantu, Assistant to the City Manager – Council Office
Jo M. Puckett, P.E., Director, Dallas Water Utilities