



**Recommendation for  
Water & Wastewater Commission**

<b>Commission Meeting Date:</b>	October 14, 2015
<b>Council Meeting Date:</b>	November 12, 2015
<b>Department:</b>	Public Works
<b>SUBJECT</b>	
<p>Authorize negotiation and execution of an amendment to the professional services agreement with <b>AECOM TECHNICAL SERVICES, INC.</b> (AECOM) for the Davis &amp; Ullrich Water Treatment Plant Raw Water Hydraulic and Energy Efficiency Improvements project in the amount of \$1,203,726.10 for a total contract amount not to exceed \$2,753,726.10. (Districts 8 and 10)</p>	
<b>AMOUNT AND SOURCE OF FUNDING</b>	
<p>Funding in the amount of \$1,203,726.10 is available in the Fiscal Year 2015-2016 Capital Budget of the Austin Water.</p>	
<b>Purchasing Language:</b>	N/A
<b>Prior Council Action:</b>	<p>January 27, 2011 – Authorization of AECOM to provide preliminary engineering phase professional services.            August 22, 2013 - Authorization of AECOM to provide additional preliminary engineering phase professional services.</p>
<b>For More Information:</b>	<p>Jim Steed,, 512-974-1581; Omoruyi Ebomwonyi, 512-972-0237; Lucy Bonee, 512-974-7967; Sarah Torchin, 512-974-7141</p>
<b>Boards and Commission Action:</b>	<p>October 14, 2015- To be reviewed by the Water and Waste Water Commission.</p>
<b>MBE/WBE:</b>	<p>4.65% MBE and 14.47% WBE subconsultant participation to date.</p>

The Albert R. Davis and Albert H. Ullrich Water Treatment Plants (WTPs) have low service pump stations that pump water from Lake Austin to the treatment plants via raw water pipelines. Treated water pump stations then convey treated water to the distribution system. These pump stations account for the majority of energy consumption at the City's water treatment facilities.

The Davis WTP low service pump station exhibits hydraulic anomalies in the intake wells that cause excessive pump vibrations. These conditions prevent simultaneous operation of two of the station's largest low service pumps, which lessens the hydraulic capacity of the station and limits pumping efficiencies. An out of service 48" raw water pipe between the low service pump station and the plant will be repaired to minimize low service system head losses and restore system redundancy. Modifications will be made to the rapid mix chambers in the Chemical Building to enhance efficient mixing of treatment chemicals for a wider range of process flows. Work also includes replacing the antiquated surge protection system that protects the plant's treated water (high service) pump station facility.

The Ullrich WTP low service pump station will have several improvements made to restore hydraulic capacity and increase energy efficiency. Specifically, refurbishing two low service pumps; replacing motor control centers with modern units; fixing leaking control valves; and adding a surge protection system to protect the facility. The Ullrich WTP high service pump station will have two obsolete pumps replaced, and modern pump control equipment added. This will bring all of Ullrich's pump stations in line with City standards for control and facility protection, and will increase the electrical and hydraulic efficiency of the facility.

This amendment includes professional services to support the above noted improvements at both WTPs. Ullrich WTP services include additional design for replacing pump control valve electrical actuators; construction phase services; and warranty phase services related to the low service pump station improvements. Davis WTP services include final design, construction phase and warranty phase services for the low service pump station improvements; high service pump station surge vault analysis and replacement; and design of the re-carbonation basins modifications. AECOM will continue to build on their engineering recommendations, as approved by the City, to finalize design modifications and improvements that will meet the long-term, operation efficiency needs of these WTPS. Additional services of AECOM specific to the scoped improvements are not anticipated beyond this amendment.

This project is managed by the Public Works Department.

AECOM Technical Services Inc. (AECOM) is located in Austin, Texas.

#### **AUTHORIZATION HISTORY**

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$450,000.00	01/27/11 (Council) -- Preliminary Engineering Report
\$1,100,000.00	08/22/13 (Council) -- Design and bid document services
\$1,203,726.10	09/17/2015 (Proposed) – Final design, construction phase and warranty
	<u>phases services</u>
<i>\$2,753,726.10</i>	<i>Total Contract Authorization</i>

## CONTRACT HISTORY

<u>AMOUNT</u>	<u>DATE -- DESCRIPTION</u>
\$381,071.04	11/15/2011 -- Original Professional Services Agreement for Preliminary Design Services
\$515,273.35	10/18/2103 – SA #1 – Final design for Davis
\$572,877.68	11/06/2013-- SA #2 – Additional design services & bid document prep for Ullrich
\$60,988.50	08/27/2014 – SA #3 – Final design & construction phase services for Davis
\$1,203,726.10	(Proposed) – SA #4 – Final design, construction phase and warranty phase services for both Davis and Ullrich
<u>\$2,733,936.67</u>	<i>Total Contract Expenditures</i>

### **MWBE Summary**

Participation goals stated in the original approved compliance plan for the agreement were 1.90% African American; 9.00% Hispanic; 4.90% Native/Asian; and 15.80% WBE. Participation for this amendment:

<u>NON M/WBE</u>	<u>\$612,328.10</u>	<u>50.87%</u>
AECOM Technical Services, Inc., Austin, TX	\$612,328.10	50.87%
<u>MBE TOTAL – SUBCONSULTANTS</u>	<u>\$60,597.00</u>	<u>5.03%</u>
<u>African American Subtotal</u>	<u>\$2,500.00</u>	<u>0.21%</u>
(MB) HVJ Associates, Inc., Austin, TX	\$2,500.00	0.21%
<u>Hispanic Subtotal</u>	<u>\$49,700.00</u>	<u>4.13%</u>
(MH) Jose I. Guerra, Inc., Austin, TX	\$49,700.00	4.13%
<u>Asian American Subtotal</u>	<u>\$8,397.00</u>	<u>0.70%</u>
(MA) Encotech Engineering Consultants, Inc., Austin, TX	\$8,397.00	0.70%
<u>WBE TOTAL – SUBCONTRACTORS</u>	<u>\$530,801.00</u>	<u>44.10%</u>
(FW) Harutunian Engineering, Inc., Austin, TX	\$530,801.00	44.10%

**Overall participation based on contract expenditures as of 8/7/2015 (not including this amendment):**

#### **PRIME:**

42.57% Non M/WBE

#### **SUBCONSULTANTS:**

2.23% African American; 6.42% Hispanic; 5.11% Asian/ Native; 41.68% WBE; and 1.99% Non M/WBE

**TOTAL:**

2.23% African American; 6.42% Hispanic; 5.11% Asian/ Native; 41.68% WBE; and 44.56% Non M/WBE