



**Water & Wastewater Commission
Review and Recommendation**

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| Commission Meeting Date: | May 9, 2018 |
| Council Meeting Date: | June 14, 2018 |
| Department: | Public Works |
| Client: | Bill Stauber and Chris Chen |

Agenda Item

Authorize negotiation and execution of an amendment to the professional services agreement with **Jacobs Engineering Group, Inc.**, for detailed design and bid/award phase services for the Albert H. Ullrich Water Treatment Plant Conversion to On-site Generation of Sodium Hypochlorite Project in the amount of \$2,329,896.83, using existing funds and authorizing an additional \$1,113,557.93, for a total contract authorization amount not to exceed \$3,171,557.93. (District 8)

Amount and Source of Funding

Funding is available in the Fiscal Year 2017-2018 Operating Budget of Austin Water.

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| Purchasing Language: | Original contract was awarded through a qualifications-based selection process. |
| Prior Council Action: | January 28, 2016 – Council approved a professional services agreement with Jacobs Engineering Group, Inc. for the Albert H. Ullrich WTP Conversion to On-site Generation of Sodium Hypochlorite Project. |
| Boards and Commission Action: | May 9, 2018- To be reviewed by the Water and Wastewater Commission. |
| MBE/WBE: | This amendment will be awarded in compliance with City Code 2-9B (Minority Owned and Women Owned Business Enterprise Procurement Program). Current participation to date is 24.16% MBE and 11.98% WBE. |

The City operates three major water treatment plants: Ullrich Water Treatment Plant, Davis Water Treatment Plant and Water Treatment Plant No. 4 which provide potable water to the City of Austin. The Ullrich Water Treatment Plant has a treatment capacity of 167 million gallons per day and utilizes chloramine for disinfection. The chloramine process requires the combined use of a chlorine system and an ammonia system. The plant currently utilizes gaseous chlorine to disinfect the water to meet requirements specified in drinking water regulations administered by the Texas Commission on Environmental Quality. Although the Plant has a long history of safe usage of chlorine, Austin Water has decided to pursue an inherently safer technology and move to using sodium hypochlorite in its disinfection process.

On-Site Generation of Sodium Hypochlorite systems produce chlorine in the form of a weak sodium hypochlorite (bleach) solution using table salt, water, and electricity. This technology has a proven track record and mitigates risks associated with chlorine gas. Preliminary Engineering for converting Ullrich Water Treatment Plant from gaseous chlorine to a sodium hypochlorite and ammonia disinfection process is complete and the project is ready to move into detailed design.

The original Council authorization for design phase services on this project was \$2M. The preliminary design phase expended 40% of the original authorization. In order to move forward with detailed design and bid/award phase services, additional authorization is needed based on the scopes defined in the approved preliminary engineering design report.

The duration of final design and bid/award phase services is estimated to be 15 months. Community outreach will occur in the final design phase. The additional authorization does not include construction phase services. Once the construction phase services, including the warranty phase are negotiated and agreed upon based on the final design, the Project Team will return to City Council for additional authorization.

This project is located within zip code 78746 and is located in Council District 8. This project is managed by the Public Works Department.

Jacobs Engineering Group, Inc. is located in Austin, Texas.

AUTHORIZATION HISTORY

| AMOUNT | DATE | DESCRIPTION |
|----------------|-------------------------------------|---|
| \$2,000,000.00 | 01/28/16 | (Council) – Engineering services |
| \$58,000.00 | 01/28/16 | (Administrative Authority) – Engineering project management and design services |
| \$1,113,557.93 | 06/14/18 | Proposed (Council)-Detailed design and bid/award phase services |
| <hr/> | | |
| \$3,171,557.93 | <i>Total Contract Authorization</i> | |

CONTRACT HISTORY

| AMOUNT | DATE | DESCRIPTION |
|----------------|------------------------------------|---|
| \$783,661.10 | 08/24/16 | Engineering services (Preliminary Design Engineering) |
| \$2,329,896.83 | 06/14/18 | Proposed – SA #1 – Detailed design and bid/award phase services |
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| \$3,113,557.93 | <i>Total Contract Expenditures</i> | |

M/WBE Summary

Participation goals stated in the original approved compliance plan for the agreement were 1.90% African American; 9.0% Hispanic; 4.90% Native/Asian; and 15.80% WBE. Participation for this amendment:

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|---|-----------------------|---------------|
| NON M/WBE OR M/WBE TOTAL – PRIME | \$1,126,300.33 | 48.34% |
| Jacobs Engineering Group, Inc., Austin, TX | \$1,126,300.33 | 48.34% |
| MBE TOTAL – SUBCONSULTANTS | \$430,632.96 | 18.48% |
| African American Subtotal | \$0.00 | 0.00% |
| | \$0.00 | 0.00% |
| Hispanic Subtotal | \$293,381.34 | 12.59% |
| (MBE/H) CasaBella Architects, Austin, TX (Professional Architect Services) | \$116,565.54 | 5.00% |
| (MBE/H) Jose I. Guerra, Inc., Austin, TX (Structural, Professional Engineering) | \$176,815.80 | 7.59% |
| Native/Asian Subtotal | \$137,251.62 | 5.89% |
| (MBE/A) CAS Consulting & Services, Inc., Austin, TX (Civil Engineering) | \$41,118.03 | 1.76% |
| (MBE/A) Encotech Engineering Consultants, Inc., Austin, TX (Mechanical Engineering) | \$96,133.59 | 4.13% |
| WBE TOTAL – SUBCONTRACTORS | \$567,915.23 | 24.38% |
| (WBE/W) Harutunian Engineering, Inc., Austin, TX (Electrical, Control Systems Engineering) | \$567,915.23 | 24.38% |
| NON M/WBE TOTAL – SUBCONTRACTORS | \$205,048.31 | 8.80% |
| AECOM Technical Services, Inc., Austin, TX (Environmental Engineering, Water Supply Treatment) | \$205,048.31 | 8.80% |

Overall participation based on expenditure for the entire project as of April 9, 2018 (not including this amendment):

PRIME:

50.81% Non M/WBE

SUBCONSULTANTS:

0.00% African American; 17.19% Hispanic; 6.97% Native/Asian; 11.98% WBE; and 13.05% Non M/WBE

TOTAL:

0.00% African American; 17.19% Hispanic; 6.97% Native/Asian; 11.98% WBE; and 63.86% Non M/WBE