



Water & Wastewater Commission Review and Recommendation

Commission Meeting Date:	October 14, 2020	COA Strategic Direction:	Health and Environment
Council Meeting Date:	November 12, 2020		
Department:	Capital Contracting Office		
Client:	Charles Celauro, Shay Roalson		
Agenda Item			
Recommend approval to negotiate and execute a professional services agreement with Stantec Consulting Services, (staff recommendation) or one of the other qualified responders for Request for Qualifications Solicitation No. CLMP306 to provide professional engineering services for the Hornsby Bend Biosolids Management Plant Process Ammonia Removal System Facility in amount not to exceed \$500,000.			
Amount and Source of Funding			
Funding is available in the Fiscal Year 2020 - 2021 Capital Budget of Austin Water.			
Purchasing Language:	Staff recommendation is the most qualified firm out of four firms evaluated through the City’s qualification-based selection process.		
Prior Council Action:	N/A		
Boards and Commission Action:	October 14, 2020 — To be reviewed by the Water and Wastewater Commission.		
MBE/WBE:	This contract will be awarded in compliance with City Code Chapter 2-9A (Minority Owned and Women Owned Business Enterprise Procurement Program) by meeting the goals with 15.8% MBE and 15.8% WBE participation.		

The Hornsby Bend Biosolids Management Plant (BMP) is a wastewater sludge processing facility for Austin Water. Hornsby Bend BMP processes wastewater sludge by screening, thickening, anaerobically digesting, dewatering, and on-site composting. Hornsby Bend BMP is a non-discharge facility, which does not authorize discharges into waters of the state, per Texas Commission on Environmental Quality permit. Therefore waste/side streams from plant processes must remain on site for treatment. Currently, a Side Stream Treatment Plant (SSTP) treats the two side streams originating from the Thickening Facility and the Dewatering Facility before being discharged into a pond system which is drawn from for onsite irrigation.

The SSTP is process-limited and is not capable of treating the higher levels of ammonia from the Dewatering Facility. Therefore, a separate ammonia process reduction plant is proposed to provide enhanced ammonia treatment. The proposed Ammonia Reduction Project will utilize the Anammox process which is Anaerobic Ammonium Oxidation to treat the high levels of ammonia. A pilot study was conducted over a nine-month period, from November 2017 to August 2018, under a wide range of conditions. The technology proved to be a resilient and effective treatment. Based on the pilot success and positive results from other facilities, Austin Water has elected to move forward with an ammonia reduction plant using the Anammox process.

The purpose of this project is to reduce ammonia levels from the Dewatering Facility. The proposed Ammonia Reduction Project will include a Preliminary Engineering Report to define a scope, cost, and schedule for the project work, and will be the basis of developing the subsequent design. Design and Bid phase services will provide complete and detailed engineering documents for the bidding and construction of the plant. The services will include a Basis of Design Report, design schedule, opinion of probable construction cost, all required site development and building permits, a Final Engineering Report, and a complete set of conformed engineering documents including all addendums. Construction phase services will include coordination with the construction contractor, including commissioning and startup of the ammonia reduction plant. Warranty phase services will generally consist of assisting the City in correcting any potential project malfunctions or deficiencies.

The primary benefits of this Ammonia Reduction Project are to improve the performance at the Hornsby Bend BMP facility and reduce the ammonia levels being discharged into the pond system while protecting the environment

There will be no impact to the public as all work will be done on City property that is closed to the public.

If Council does not approve the item, the high-level ammonia concentrations will not be effectively reduced.

The estimated Consultant Project Cost for the Preliminary Engineering Phase is \$500,000. The City intends to return to City Council to request additional authorization for Final Design and then again for Construction Phase and Warranty Phase Services. These amounts will be determined after the Preliminary and Final Design recommendations are reviewed and approved by the City.

This request allows for the development of an agreement with the qualified responder that Council awards. If the City is unsuccessful in negotiating a satisfactory agreement with the awarded responder, negotiations will cease with that provider. Staff will return to Council so that Council may award another qualified responder and authorize contract negotiations with that provider.

TOP RANKED FIRM: Stantec Consulting Services, Inc. is located in Austin, Texas

SECOND RANKED FIRM: Hazen and Sawyer, DPC is located in Austin, Texas

M/WBE Summary

Participation subgoals stated in the solicitation were 1.90 % African American; 9.00% Hispanic; 4.90% Native Asian; 15.80% WBE. The recommended firms provided an MBE/WBE Compliance Plan that met the goals of the solicitation and was approved by the Small and Minority Business Resources Department. The Second Ranked firm provided an MBE/WBE Compliance Plan that met the goals of the solicitation and was approved by the Small and Minority Business Resources Department.

Public notice was given for this Request for Qualifications CLMP306 Hornsby Bend BMP Process Ammonia Removal System Facility through the City's Vendor Connection web portal. Four firms submitted qualifications statements and responses were opened on August 10, 2020. Of the four submittals received no submittals were from MBE/WBE certified firms.

TOP RANKED FIRM: Stantec Consulting Services, Inc. – Total Participation:

NON M/WBE TOTAL – PRIME		51.30%
Stantec Consulting Services, Inc.		51.30%
MBE TOTAL – SUBCONSULTANTS		15.80%
African American Subtotal		1.90%
(MB) HVJ Associates, Inc., Austin, TX	(Civil Engineering)	1.90%
Hispanic Subtotal		9.00%
(MH) Jose I. Guerra, Inc., Austin, TX	(Structural Engineering)	6.00%
(MH) Maldonado Burkett, LLP, Austin, TX	(Surveying Services)	2.00%
(MH) Negrete and Kolar Architects, LLP, Austin, TX	(Architect Services)	1.00%
Native/Asian Subtotal		4.90%
(MA) CAS Consulting and Services, Inc., Austin, TX	(Civil Engineering, Cost Estimating)	4.90%
WBE TOTAL – SUBCONSULTANTS		15.80%
(FW) Baer Engineering and Environmental Consulting, Inc. Austin, TX	(Permitting Services, Environmental)	4.00%
(FW) JRSA Engineering, Inc., Austin, TX	(Electrical Engineering)	10.00%
(FW) Holt Engineering, Inc., Austin, TX	(Geotechnical, Soils)	1.80%
NON M/WBE TOTAL - SUBCONSULTANTS		17.10%
Carollo Engineering, Inc., Austin, TX	(Wastewater Treatment Engineering, Mechanical Engineering)	17.10%

SECOND RANKED FIRM: Hazen and Sawyer, DPC – Total Participation:

NON M/WBE TOTAL – PRIME		28.40%
Hazen and Sawyer, DPC, Austin, TX		28.40%
MBE TOTAL – SUBCONSULTANTS		15.80%
African American Subtotal		1.90%
(MB) HVJ Associates, Inc., Austin, TX (Civil Engineering)		1.90%
Hispanic Subtotal		9.00%
(MH) Azcarate and Associates (Mechanical Engineering)		7.00%
Consulting Engineers, LLC Austin, TX		
(MH) The Rios Group, Inc. (Civil Engineering)		2.00%
Round Rock, TX		
Native/Asian Subtotal		4.90%
(MA) Cas Consulting and (Civil Engineering, Cost Estimating)		4.90%
Services, Inc., Austin, TX		
WBE TOTAL – SUBCONSULTANTS		15.80%
(FW) Baer Engineering and Environmental (Permitting Services, Environmental)		4.00%
Consulting, Inc. Austin, TX		
(FW) Harutunian Engineering, Inc. Austin, TX (Instrumentation, Engineering)		7.00%
(FW) Holt Engineering, Inc. (Geotechnical, Soils)		3.00%
Austin, TX		
(FW) MWM DesignGroup, Inc., Austin, TX (Surveying Services, Not Aerial or Research)		1.80%
		40.00%
NON M/WBE TOTAL – SUBCONSULTANTS		
CP&Y, Inc., Austin, TX (Wastewater Treatment Engineering, Mechanical Engineering, Structural Engineering, Electrical Engineering)		20.00%
HDR, Inc, Austin, TX (Wastewater Treatment Engineering, Mechanical Engineering)		20.00%