



Legislation Text

File #: 21-593, **Version:** 1

STRATEGIC PRIORITY: Mobility Solutions, Infrastructure, and Sustainability
AGENDA DATE: April 14, 2021
COUNCIL DISTRICT(S): All, Outside City Limits
DEPARTMENT: Water Utilities Department
EXECUTIVE: Majed Al-Ghafry

SUBJECT

Authorize a professional services contract with Freese and Nichols, Inc. for the dam safety consulting services contract - Not to exceed \$1,064,384.00 - Financing: Storm Drainage Management Capital Construction Fund (\$311,100.00), Water Construction Fund (\$390,646.00), Park and Recreation Facilities Fund (2006 General Obligation Bond Funds) (\$32,844.00), Park and Recreation (B) Fund (2017 General Obligation Bond Funds) (\$191,413.00), High Hazard Potential Dam Hatfield Branch Fund (\$23,224.00), High Hazard Potential Dam Lake Simonds Fund (\$23,224.00), and High Hazard Potential Dams Lake Cliff Fund (\$91,933.00)

BACKGROUND

This action will authorize a professional services contract with Freese and Nichols, Inc. for engineering services involving eleven significant and high hazard dams owned by the City of Dallas. The City of Dallas (Dallas Water Utilities and Park & Recreation Department) owns numerous dams and levees, which impound water for flood control, water supply, and recreation purposes. The Texas Commission on Environmental Quality (TCEQ), the National Dam Safety Act, and the Federal Emergency Management Agency (FEMA) have requirements and recommendations for dam and levee safety inspections, operations and maintenance programs, and Emergency Action Plans (EAPs). Twenty-four dams owned by the City of Dallas have been identified as subject to at least a part of these requirements. Eleven of those dams are classified as significant and high hazard dams by TCEQ.

This contract will provide safety inspections, tabletop exercises, and emergency dam safety engineering services for the City's significant and high hazard dams. TCEQ requires safety inspections for significant and high hazard dams to be conducted every five years. The previous dam safety inspections were conducted in 2015 by Arcadis with the submission of the inspection reports to TCEQ in December 2016. The testing of the EAPs through tabletop exercises or functional exercises are also required to be conducted every five years. These exercises test the efficacy of the City's emergency response in the event of a dam breach. These exercises will be coordinated to provide training for all potentially impacted departments in the City.

In addition to the services described above, this contract will include distinct engineering efforts at Lake Cliff Dam, Hatfield Branch Dam, Cherrybrook Branch Dam, and Lake Simonds Dam. Those services include an evaluation of alternatives for increasing spillway capacity to meet updated TCEQ design flood requirements, and drainage design to address the seepage at Lake Cliff Dam. The spillway capacity analysis will help ensure regulatory compliance and help guide future capital improvements for these dams. The seepage design will help ensure the safety of Lake Cliff Dam. The City has received a High Hazard Potential Dams Rehabilitation Grant award from FEMA passed through TCEQ to fund 65% of the costs associated with the spillway capacity analysis for Lake Cliff Dam, Hatfield Branch Dam, and Lake Simonds Dam, and the seepage design for Lake Cliff Dam. A local match of 35% is required and will be funded by Dallas Water Utilities and the Park & Recreation Department. This grant program supports technical, planning, and design for dams that have been classified as “high hazard potential” by the States dam safety agency TCEQ.

The consulting firm was selected following a qualifications-based selection process in accordance with the City of Dallas Administrative Directive 4-5 procurement guidelines.

ESTIMATED SCHEDULE OF PROJECT

Begin Design April 2021
 Complete Design March 2025

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

This item has no prior action.

FISCAL INFORMATION

Fund	FY 2021	FY 2022	Future Years
Stormwater Drainage Management Capital Construction Fund	\$ 311,100.00	\$0.00	\$0.00
Water Construction Fund	\$ 390,646.00	\$0.00	\$0.00
Park and Recreation Facilities Fund (2006 General Obligation Bond Funds)	\$ 32,844.00	\$0.00	\$0.00
Park and Recreation (B) Fund (2017 General Obligation Bond Funds)	\$ 191,413.00	\$0.00	\$0.00
High Hazard Potential Dam Hatfield Branch Fund	\$ 23,224.00	\$0.00	\$0.00
High Hazard Potential Dam Lake Simonds Fund	\$ 23,224.00	\$0.00	\$0.00
High Hazard Potential Dams Lake Cliff Fund	\$ 91,933.00	\$0.00	\$0.00
Total	\$1,064,384.00	\$0.00	\$0.00

M/WBE INFORMATION

In accordance with the City’s Business Inclusion and Development Policy adopted on September 23, 2020, by Resolution No. 20-1430, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Procurement Category	M/WBE Goal	M/WBE %	M/WBE \$
\$1,064,384.00	Architecture & Engineering	25.66%*	28.09	\$298,971.00
• *This item reflects previous Business Inclusion and Development Policy M/WBE goal.				
• This contract exceeds the M/WBE goal.				
• Freese and Nichols, Inc. - Local; Workforce - 34.00% Local				

OWNER

Freese and Nichols, Inc.

Brian Coltharp, P.E., President/Chief Executive Officer

MAPS

Attached