



Request for Council Action

SUBJECT: **Approval of Contract with Stantec for the Preliminary and Final Design of City Project No. 2023-03 - Water Treatment Plant Rehabilitation Improvements**

MEETING DATE: April 24, 2023

ITEM TYPE: Regular Business

CONTACT: Brian Connolly, Public Works Director, 651.450.2571

ACTION REQUESTED

The Council is asked to adopt the attached Resolution, approving a contract with Stantec for the preliminary design report and phase 1 final design for City Project No. 2023-03 - Water Treatment Plant Rehabilitation, and authorizing related expenditures.

BACKGROUND

In late January of 2023, the City of Inver Grove Heights received a notice of violation from the Minnesota Department of Health indicating the radium concentrations in the City's treated water exceeded the Maximum Contamination Level set by the Environmental Protection Agency. While the levels were not considered an immediate danger to public health, it did trigger a public notification to our water customers and requires that the City undertake a plan of action to bring the Water Treatment Plant back into regulatory compliance.

While City utility staff have worked to moderate the radium levels in the short-term through chemical treatment modifications, a long-term filter media and chemical treatment upgrade at the Water Treatment Plant is needed. The City has included upgrades to the filter media at the Water Treatment Plant in the 2023-2027 Capital Improvement Plan, with preliminary design scheduled for 2023, and construction scheduled for 2024. The recent notice of violation has accelerated this timeline for preliminary and final design efforts.

To accelerate the preliminary design effort, staff elected to perform a "closed solicitation" for engineering proposals, where the request for proposals was issued to three specific consulting firms that have past experience working on the water supply system in Inver Grove Heights. The three firms solicited include:

- Bolton & Menk
- Short Elliot Hendrickson (SEH)
- Stantec

Proposals were due on April 5, 2023, evaluated on a qualification basis, and ranked on several technical criteria. The evaluation panel included the Public Works Director, Utility Superintendent, Water Treatment Plant Operator, and the Utility Superintendent from the City of Eagan. The recommendation of the evaluation panel is that Stantec is the most qualified firm. Stantec is the

successor firm to the consultant who designed the original Water Treatment Plant (1998) and its subsequent expansion (2006). Their consultant staff have experience working with City of Inver Grove Heights Water Treatment Plant on past facility improvements. Staff believe that Stantec is the best suited firm to provide the necessary preliminary technical review of the Water Treatment Plant needs, and perform a "phase 1" design for improvements to the water filter and chemical treatment systems under an accelerated schedule.

Stantec's proposed fee for the preliminary and "phase 1" final design effort is \$84,980, and staff are recommending including a 15% contingency (\$12,750) to account for potential changes in scope, and to address potential bidding and procurement challenges that may arise through the final design and bidding stage (i.e., potential need for City to procure materials in advance of contractor bidding to accelerate construction).

Staff is also requesting that the Council approve the use of up to \$30,000 to perform "pilot testing" of treatment chemical dosing and filtration material as part of the preliminary design effort, to identify the most efficient implementation of proposed improvements. While Stantec is able to provide pilot testing, they have indicated that many of the chemical and filter media manufacturers offer this testing as a lower rate, but the specific type and duration of each test will not be known until further data can be collected in the preliminary design phase. To ensure the implementation of pilot testing can commence in a timely manner and not delay the design review, this additional request gives staff the authorization to work with Stantec and potential chemical and filter media manufacturers to contract for and schedule pilot testing in conjunction with the preliminary design review phase of this project.

FISCAL IMPACT

The total contract value with Stantec for this project is \$97,730. The additional \$30,000 authorization for staff to contract for pilot testing brings the total cost of the preliminary design and phase 1 final design to \$127,730. The City had budgeted up to \$300,000 for preliminary and final design associated with the Water Treatment Plant rehabilitation in 2023, funded through the Water Capital Fund (Fund 511). As such, the current request is within the original budget for the work.

RECOMMENDATION

Staff recommends adoption of the attached Resolution.

ATTACHMENTS

1. Resolution Awarding Contract to Stantec

**CITY OF INVER GROVE HEIGHTS
DAKOTA COUNTY, MINNESOTA**

**RESOLUTION ACCEPTING PROPOSAL FOR PRELIMINARY DESIGN REPORT AND
PHASE 1 FINAL DESIGN FROM STANTEC FOR CITY PROJECT NO. 2023-03 – WATER
TREATMENT PLANT REHABILITATION IMPROVEMENTS**

RESOLUTION NO. 2023-094

WHEREAS, as part of the City's 2023-2027 Capital Improvement Plan, design of the rehabilitation of the Water Treatment Plant was proposed to occur in 2023, and construction of the improvements to occur in 2024; and

WHEREAS, the City received a notice of violation from the Minnesota Department of Health on January 30, 2023, indicating that the radium concentrations in the City's treater water exceeded the Maximum Concentration Level set by the Environmental Protection Agency; and

WHEREAS, staff requested proposals from qualified engineering firms for compilation of a preliminary design report and phase 1 final design for the Water Treatment Plant Rehabilitation Improvements (City Project No. 2023-03), to focus the first phase of improvements at the Water Treatment Plant on remediation of the radium concentrations within the City's water system; and

WHEREAS, proposals for the preliminary design report and phase 1 final design were received from Bolton & Menk, Short Elliot Hendrickson (SEH), and Stantec; and

WHEREAS, as detailed in the request for proposals, the rating and selection of a consulting firm would be qualification-based; and

WHEREAS, staff has reviewed the proposals and believes Stantec is the most qualified firm to perform the preliminary design report and phase 1 final design for the Water Treatment Plant Rehabilitation improvements; and

WHEREAS, staff believe the utilization of pilot testing of treatment chemical dosing and filter material in conjunction with the preliminary design phase of this effort will result in the selection of the most efficient and cost-effective treatment process for radium removal as part of the Water Treatment Plant rehabilitation.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF
INVER GROVE HEIGHTS, MINNESOTA THAT:**

1. Stantec's proposal in the amount of \$84,980.00 is hereby accepted for the preliminary design report and phase 1 final design for Project No. 2023-03 – Water Treatment Plant Rehabilitation improvements.
2. The Public Works Director is authorized to direct the use of contingency funds up to 15% of the proposal amount (\$12,750.00) for changes in scope that may occur through the preliminary design, final design, and bidding phases of the project work.

Resolution 2023-094

3. The Mayor and Clear are hereby authorized and directed to enter a Professional Services Agreement with Stantec Consulting Services, Inc. for Project No. 2023-03 in the not-to-exceed amount of \$97,730.
4. The Public Works Director is authorized to direct the use of funds up to \$30,000 to contract with Stantec and/or chemical and filter media manufacturers and distributors to perform pilot testing of chemical and filter media treatment methods in conjunction with the preliminary design review phase of the project work.
5. The costs for these services will be funded through the Water Capital Fund (Fund 511), in the total amount of \$127,730.

Adopted by the City Council of the City of Inver Grove Heights this 24th day of April 2023.

Brenda Dietrich, Mayor

ATTEST:

Rebecca Kiernan, City Clerk