

AGENDA ITEM NO: 7.2

MEETING DATE: November 21, 2023

**STAFF REPORT – COVER SHEET**

SUBJECT: 2023 Utilities Nonlinear Upgrades      DATE: November 15, 2023  
Predesign - RFP Award

DEPARTMENT: Engineering      PREPARED BY: Chikezie Nwaoha

---

**1. SUMMARY OF ISSUE:**

Proposals were received from Associated Engineering (B.C.) Ltd., Stantec Consulting Ltd., and Urban Systems Ltd. for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project.

A decision to accept a proposal for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project.

**2. RECOMMENDATION:**

Recommendation that Council accept the proposal for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project from the lead proponent, Urban Systems Ltd., in the amount of \$212,576.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

  
\_\_\_\_\_  
Kara Jefford, Director of Engineering

**3. FINANCE COMMENTS:**

Funding is allocated within the 2023 Financial Plan funded from the Water Fund to finance this project.

  
\_\_\_\_\_  
Glen Savard, Director of Finance

**4. CHIEF ADMINISTRATIVE OFFICER'S  
RECOMMENDATION/COMMENTS:**

Supports recommendation.

  
\_\_\_\_\_  
Chris Crosman, CAO

**STAFF REPORT ON  
2023 Utilities Nonlinear Predesign Upgrades Project - RFP Engineering Firm Selection**

PREPARED BY:                     Luke Yu Sun                                          DATE:                     November 10, 2023                      
POSITION:                     Senior Utilities Technologist                                          DEPARTMENT:                     Engineering                    

---

**1. DEFINITION OF ISSUE:**

Proposals were received from Associated Engineering (B.C.) Ltd., Stantec Consulting Ltd., and Urban Systems Ltd. for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project.

A decision to accept a proposal for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project.

**2. BACKGROUND:**

- 2.1 The City of Chilliwack operates a municipal water supply, transmission, and distribution system that currently provides service to approximately 91,000 residents and associated industrial, commercial, and institutional operations within the City.
- 2.2 A prior water infrastructure asset evaluation and reinvestment strategy plan was prepared for the City in 2019 by WSP Canada Inc. This project aims to follow the upgrade suggestions from previous studies that were undertaken to assist the City in preparing short and long-term capital renewals and shall be incorporated in the City's 10-year Comprehensive Municipal Plan (CMP);
- 2.3 The goal of the Engineering Services for 2023 Utilities Nonlinear Upgrades project is to provide the predesign and determine requirements to evaluate different design options, cost estimating, and recommend the most feasible solution that will provide adequate water demand flexibility, redundancy, and reliability within the water distribution system. The work will include but not be limited to evaluating the existing reservoir configuration to determine the size, layout, flow, and volume of the new reservoirs where required.
- 2.4 The objective of this Project is to conduct the upgrades predesign, while taking into account the overall risk and criticality the asset represents as a part of the overall water supply and distribution system;
- 2.5 2023 Utilities Nonlinear Upgrade Predesign at the following locations:
  - a) 8320 Lickman Road – Construction of a new concrete reservoir
  - b) 7253 Marble Hill Road – Replacement of an abandoned concrete reservoir with a new bolted steel reservoir
  - c) 8590 Sunrise Drive – Replacement from existing below-grade to a new above-grade pressure-reducing valve

- 2.6 On September 5<sup>th</sup>, 2023 the following three (3) proponents were advanced to the RFP Stage 2:
1. Associated Engineering (B.C.) Ltd.
  2. Stantec Consulting Ltd.
  3. Urban Systems Ltd.

### 3. ANALYSIS:

- 3.1 Proposals were submitted in a two-envelope system, with Envelope No. 1 containing submittal letters and the financial proposal and Envelope No. 2 containing the technical proposal.
- 3.2 The technical proposals were reviewed for completeness and an approach that meets the purpose, intent and requirements of the RFP.
- 3.3 The three (3) member evaluation committee evaluated each technical proposal based on the following criteria:
- a. Technical Evaluation (90 pts):
    - I. Project Manager's Statement;
    - II. Project Management Plan;
    - III. Consultant's Qualifications;
    - IV. Engineering Quality Control Plan;
    - V. Cost Control;
    - VI. Key/Critical Issues Addressed.
  - b. Financial Evaluation (10 pts)
- 3.4 The evaluation committee ranked the RFP submittals based on information contained within the respective proposals.
- 3.5 The evaluation committee concluded that the Urban Systems Ltd. provided technical proposals demonstrating an understanding of key elements of the scope of work of the project and identifying key critical issues, which benefited their proposal plans, innovation, and delivery of the project.
- 3.6 The Financial Proposals remained sealed until all rated criteria evaluations of the technical proposals were finalized and documented. The City Treasury Department provided and opened the Financial Proposals at the conclusion of the technical evaluation.
- 3.7 The table below summarizes points awarded for technical elements and the proposal prices (excluding GST).

Proponent Name	Base Price	Financial Points	Technical Points	Total Points	Ranking
Urban Systems Ltd.	\$145,345.00	10.0	77.7	87.7	1
Stantec Consulting Ltd.	\$157,062.00	8.3	65.2	73.5	2
Associated Engineering (B.C.) Ltd.	\$154,531.00	8.7	64.5	73.2	3

3.8 Urban Systems Ltd. has been deemed the lead proponent based on the highest total points.

3.9 The City requested pricing for additional scope for geotechnical investigation and geohazard assessment and soil corrosivity testing and hazardous material testing to meet changes in requirements upcoming from Fraser Health. Urban Systems provided an additional cost of \$67,231.00 for this work. Staff recommend award of the base scope and additional scope.

3.10 Funding for the 2023 Utilities Nonlinear Upgrade Predesign has been provided in the 2023 and 2024 Financial Plan with funding coming from the City of Chilliwack.

#### 4. RECOMMENDATION & SUBSTANTIATION:

##### Recommendation:

Recommendation that Council accept the proposal for the provision of Engineering Services for the 2023 Utilities Nonlinear Predesign Upgrades Project from the lead proponent, Urban Systems Ltd., in the amount of \$212,576.00 (plus applicable taxes); and further, that the Mayor and Corporate Officer be authorized to sign any necessary documentation.

##### Substantiation:

The proposed project will assist in the short and long-term capital planning of construction, and replacement for the City's water supply, transmission, and distribution system assets including reservoirs, and pressure-reducing valves.