

April 9, 2015

To: Members  
Public Works and Infrastructure Committee

Re: Wastewater Master Plan - Issue and Award RFP

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RECOMMENDATION

1. That City Council authorize initiating the process to engage consulting and professional engineering services for the Wastewater Master Plan, pursuant to delegated authority contained in The Regina Administration Bylaw No. 2003-69, with respect to awarding contracts, and funding as approved in the Water and Sewer Utility 2015 to 2019 Capital Budget.
2. That City Council authorize the Executive Director of Transportation and Utilities to negotiate, award and enter into the contract with the highest ranked proponent from the Request for Proposal (RFP) process for the Wastewater Master Plan.
3. That the City Clerk be authorized to execute the contract with the highest ranked proponent upon approval of the Executive Director of Transportation and Utilities.
4. That this report be forwarded to the April 27, 2015 meeting of City Council for approval.

CONCLUSION

This report presents the Administration's plan to develop a Wastewater Master Plan for the City of Regina (City). An RFP will be issued for consulting engineering services for the Wastewater Master Plan. City Council approval is required as the fees are expected to exceed \$500,000.

BACKGROUND

The City's wastewater system conveys domestic and industrial wastewater to the City's Wastewater Treatment Plant (WWTP) through the McCarthy Boulevard Pumping Station (MBPS). The city has experienced unprecedented growth in recent years and this, coupled with aging infrastructure, has created increased stresses on the collection system particularly during heavy precipitation events.

There have been several studies in recent years that have outlined serviceability solutions on a sector basis but with little analysis of their impact on the overall wastewater collection system. The dynamic operation of the existing system needs to be better understood to optimize the existing infrastructure.

Recent pipeline inspections and flow monitoring programs have provided some insight into the capacity and condition of the wastewater collection system. This initial analysis has determined that significant investment is required to ensure the wastewater collection system is capable of meeting future demands.

The City does not have a documented minimum level of service for the wastewater utility to serve as a planning and operations benchmark.

The City currently does not have a comprehensive plan for the wastewater system with an itemized list of capital projects to maintain the level of service in the existing system while accommodating the densification and growth targets outlined in Design Regina.

A Wastewater Master Plan is required to establish a level of service, review and recommend upgrades to the existing system to maintain that level of service, provide a plan to reduce risk and vulnerability, and accommodate growth as described in Design Regina.

## DISCUSSION

A Wastewater Master Plan is an official document that will complement Design Regina: The Official Community Plan. This is accomplished by providing a timely servicing plan to support growth in the city, while maintaining a predefined level of service within the existing system.

A key component of the Wastewater Master Plan will be the development of a level of service to evaluate the operation of the existing system, particularly during heavy precipitation events. This key metric will guide the development of a capital upgrade plan to maintain and improve the level of service and reduce risk and vulnerabilities. The capital plan will follow the growth patterns and policies outlined in Design Regina to ensure adherence to the City's Vision and Community Priorities.

Key elements of the wastewater master plan will include:

- Developing a Level of Service;
- Updating the dynamic wastewater collection system computer model;
- Reviewing the official growth plan and population servicing needs presented in Design Regina;
- Developing an infrastructure renewal plan based on sound asset management principles;
- Identifying and collaborating with key stakeholders;
- Modeling close interactions and influence with the drainage system;
- Integrating and confirming the Trunk Relief Initiative;
- Developing solution options and recommending a preferred alternative; and
- Incorporating preferred solution(s) into the Utility and Service Agreement Fee (SAF) models.

The City requires the services of a consulting engineering firm to complete the Wastewater Master Plan and fees are expected to exceed \$500,000. The proposals will be evaluated by a two stage qualification-based selection process. The process involves evaluating all the proposals on criteria such as technical expertise, corporate experience, personnel availability, general understanding of the scope of work and overall cost. The highest ranking team is then invited to submit a detailed stage 2 proposal that is evaluated. The City and the consultant will then negotiate the scope of work and, if acceptable to the City, the work will be awarded to the selected consulting engineering firm.

## RECOMMENDATION IMPLICATIONS

### Financial Implications

Funding in the amount of \$1,000,000 was approved for this project in the 2015 Utility Capital Budget. Consulting engineering fees are expected to exceed \$500,000 for this commission; therefore, Council's delegated authority is being sought to award the contract as required by *The Regina Administration Bylaw No. 2003-69*.

### Environmental Implications

None with respect to this report.

### Policy and/or Strategic Implications

The completed Wastewater Master Plan would help achieve the City's Strategic Objectives by supporting the goals of:

- Optimizing existing infrastructure; and
- Providing reliable, environmentally sound and sustainable infrastructure solutions.

### Other Implications

None with respect to this report.

### Accessibility Implications

None with respect to this report.

## COMMUNICATIONS

None with respect to this report.

## DELEGATED AUTHORITY

The recommendations contained in this report require City Council approval.

Respectfully submitted,



Pat Wilson, Director  
Water Works

Respectfully submitted,



Karen Gasmo, P.Eng., Executive Director  
Transportation and Utilities

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KS/KD/cp