

CITY COUNCIL AGENDA MEMORANDUM

SUBJECT

Resolution No. 8709, authorizing execution of a professional services agreement for the Wastewater Pump Station Evaluation, Phase 2 with Murray, Smith and Associates, Inc. (MSA) for engineering services, in an amount not to exceed \$295,000 (CIP Plan No. S-16).

FISCAL IMPACT

Awarding this contract commits the City to a contract of \$295,000. This work is included in the 2013-2019 CIP. Sufficient budget exists within the Sewage Pump Station Improvements Program (CIP Plan No. S-16) to fully fund this contract.

STAFF CONTACT

Nav Ota, Director, 452-2041

Paul Bucich, Engineering Assistant Director, 452-4596

Utilities Department

POLICY CONSIDERATION

Utility Department policies:

- The Utility shall invest resources as necessary to construct, maintain and renew sewer system infrastructure and equipment such that Utility customers are provided consistent, reliable service.

Utility Department practice:

- Rehabilitate or replace deteriorated elements of the wastewater system. CIP Plan No. S-16 has been designated to do this.

City contracting policies:

- BCC 4.28 provides for the fair and equitable treatment in the purchasing process. Because the amount of the contract exceeds \$50,000, Council approval is required.

BACKGROUND

Bellevue Utilities operates 46 wastewater pump and flush stations. In order to address deterioration of mechanical and electrical equipment that must operate in a severe environment, wastewater pump stations must typically be rehabilitated every 20 to 25 years. Eighteen of Bellevue Utilities' thirty-six wastewater pump stations have not been rehabilitated in at least 20 years.

Seven representative stations were evaluated in 2013. In this phase, 26 more pump and flush stations that have not been rehabilitated recently will be evaluated to determine when rehabilitation is likely to be needed and what rehabilitation measures are necessary. The remaining 13 pump and flush stations have been recently rehabilitated or are in the process of being rehabilitated and do not need to be evaluated.

The wastewater pump station assessments will evaluate the pump stations' building, equipment physical condition, equipment obsolescence and safety. Pumps that are not performing as designed will

be disassembled so that the pump components can be examined. Rehabilitation recommendations and cost estimates will be developed, and life cycle cost analysis will be prepared for rehabilitation alternatives, so the most cost efficient alternative can be identified.

The consultant selection process for this project was consistent with City of Bellevue policies and procedures. All consultants on the

Roster = Professional Services/A&E

Category = Utilities – Water, Sewer, Storm and Surface Water

Services = Pump Station Design and Rehab – Muni Sewer Systems or System Renewal and Replacement Analysis – Muni Sewer

were contacted and asked to update their SOQ's if they were interested in being selected for the project. The selection team shortlisted four of the twelve firms that updated their roster within the specified time period.

The shortlisted firms were presented a draft scope of work and asked to present a proposal with their proposed project approach and team qualifications. The selection team reviewed and rated the proposals. Kennedy/Jenks and MSA were considered the top two consultants but there was not consensus on which firm should be selected. Consequently, Kennedy/Jenks and MSA were invited to separate one hour interviews. At the interviews, the selection team asked the prospective consultants questions about the consultant's project approach and qualifications. After the interviews, all four selection team members agreed that, based on the previous submittals and the interviews, MSA was the most qualified for the project.

The following criteria were used to evaluate the consultants:

- The consultant's project team experience and expertise with wastewater pump station condition assessment
- The consultant's project team experience and expertise with asset management, life cycle cost analysis and triple bottom line decision model applications
- The consultant's performance on past COB Utilities projects
- The consultant's project approach and schedule
- The consultant's understanding of the scope and purpose of the project.

As required by state law relating to contracts for architectural and engineering services, the City selects the consultant deemed to be most highly qualified for a given project. State law precludes using cost as a basis for selection of engineering firms.

EFFECTIVE DATE

If adopted, this Resolution will become effective immediately.

OPTIONS

1. Adopt Resolution No. 8709, authorizing execution of a professional services agreement for the Wastewater Pump Station Evaluation, Phase 2 with Murray, Smith and Associates, Inc. (MSA) for engineering services, in an amount not to exceed \$295,000 (CIP Plan No. S-16).
2. Do not adopt the Resolution and provide alternative direction to staff.

RECOMMENDATION

Adopt Resolution No. 8709, authorizing execution of a professional services agreement for the Wastewater Pump Station Evaluation, Phase 2 with Murray, Smith and Associates, Inc. (MSA) for engineering services, in an amount not to exceed \$295,000 (CIP Plan No. S-16).

MOTION

Move to adopt Resolution No. 8709, authorizing execution of a professional services agreement for the Wastewater Pump Station Evaluation, Phase 2 with Murray, Smith and Associates, Inc. (MSA) for engineering services, in an amount not to exceed \$295,000 (CIP Plan No. S-16).

ATTACHMENTS

CIP Project Description
Proposed Resolution No. 8709

AVAILABLE IN COUNCIL OFFICE

Consultant Contract

FY2013-2019 Capital Investment Program

S-16 Sewage Pump Station Improvements

Category: Sewer
Department: Utilities

Status: Ongoing
Location: Pump stations throughout the Sewer Utility's service area

Programmed Funding

Programmed Funding	Appropriated To Date	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget
14,774,027	11,116,923	480,332	494,236	508,031	521,718	536,305	550,806	565,676

Description and Scope

This ongoing program funds rehabilitation/retrofit of the 36 pump and 10 flush stations throughout the wastewater system, most of which are over 30 years old. Stations are prioritized for rehabilitation based on the risk and consequence of failure, maintenance and operations experience, pump station age, and coordination with other projects. The next retrofit projects include three critical stations: Flush Station #5, Lake Heights, and Wilburton.

PROJECT NEED: System Renewal and Replacement

Rationale

Much of the sewage collected from homes and businesses passes through one or more of 36 pump stations and 10 flush stations (in-lake, low-pressure facilities that periodically 'flush' the nearly-flat sewer lakelines with lake water.) Pump stations include electrical and mechanical equipment with an estimated service life of 25 years; in-lake flush station components last 40 years, on average. Beyond service life, components fail more frequently, technology becomes obsolete, and parts replacement becomes difficult or impossible. The structures that house the pumps and equipment generally have a 100-year service life; components exposed directly to sewage deteriorate faster. State and federal laws require that we minimize pump station overflows; repeated violations can result in sanctions. Station rehabilitation improves reliability and safety, reduces the risk of system overflow and failure, and reduces the liability associated with such failures.

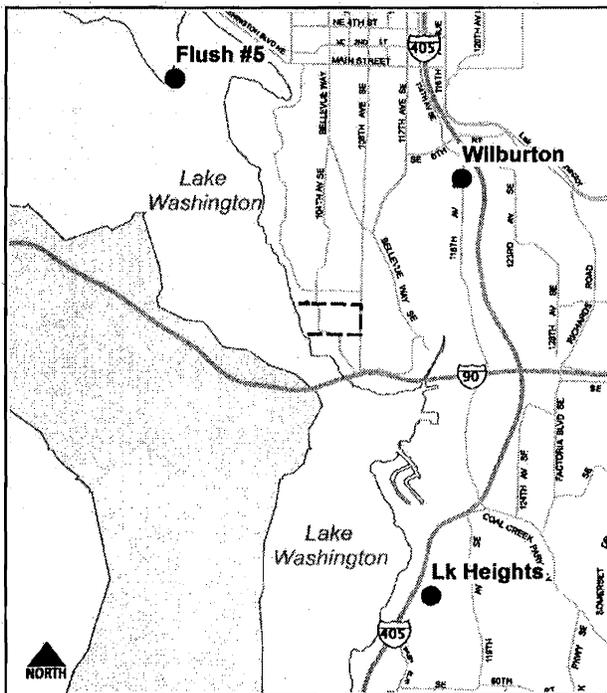
Environmental Impacts

The majority of the improvement work will be within the existing pump stations and no substantial environmental impacts are anticipated. The State Environmental Protection Act (SEPA) determinations (typically Determinations of Non-Significance) and exemptions from Shoreline regulations are obtained as required for each pump station as it is upgraded.

Operating Budget Impacts

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	1985 - 2019	14,774,027

Total Budgetary Cost Estimate: 14,774,027

Means of Financing

Funding Source	Amount
Miscellaneous Revenue	7,000
Utility Rates/Fees	14,767,027

Total Programmed Funding: 14,774,027

Future Funding Requirements: 0

Comments

CITY OF BELLEVUE, WASHINGTON

RESOLUTION NO. 8709

A RESOLUTION authorizing the execution of a professional services agreement with Murray, Smith and Associates, Inc. (MSA), in an amount not to exceed \$295,000 (CIP Plan No. S-16) for engineering services for the Wastewater Pump Station Evaluation, Phase 2.

THE CITY COUNCIL OF THE CITY OF BELLEVUE, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. The City Manager or his designee is hereby authorized to execute a professional services agreement with Murray, Smith and Associates, Inc. (MSA), in an amount not to exceed \$295,000 (CIP Plan No. S-16) for engineering services for the Wastewater Pump Station Evaluation, Phase 2, a copy of which agreement has been given Clerk's Receiving No. _____.

Passed by the City Council this _____ day of _____, 2014, and signed in authentication of its passage this _____ day of _____, 2014.

(SEAL)

Claudia Balducci, Mayor

Attest:

Myrna L. Basich, City Clerk