



**CITY COUNCIL MEETING  
STAFF REPORT**

<p><b>Meeting Date:</b> December 20, 2021</p>	<p><b>Subject: Resolution No. 2945</b>          Authorizing the City Manager to Execute a Professional Services Agreement with Murraysmith to Provide Phase 1 – Preliminary Engineering Consulting Services for the Charbonneau Lift Station Rehabilitation (CIP #2106)</p> <p><b>Staff Member:</b> Mike Nacrelli, PE, Senior Civil Engineer</p> <p><b>Department:</b> Community Development</p>	
<p><b>Action Required</b></p>	<p><b>Advisory Board/Commission Recommendation</b></p>	
<p><input checked="" type="checkbox"/> Motion  <input type="checkbox"/> Public Hearing Date:  <input type="checkbox"/> Ordinance 1<sup>st</sup> Reading Date:  <input type="checkbox"/> Ordinance 2<sup>nd</sup> Reading Date:  <input checked="" type="checkbox"/> Resolution  <input type="checkbox"/> Information or Direction  <input type="checkbox"/> Information Only  <input type="checkbox"/> Council Direction  <input checked="" type="checkbox"/> Consent Agenda</p>	<p><input type="checkbox"/> Approval  <input type="checkbox"/> Denial  <input type="checkbox"/> None Forwarded  <input checked="" type="checkbox"/> Not Applicable</p> <p><b>Comments:</b> N/A</p>	
<p><b>Staff Recommendation:</b> Staff recommends Council adopt the Consent Agenda.</p>		
<p><b>Recommended Language for Motion:</b> I move to approve the Consent Agenda.</p>		
<p><b>Project / Issue Relates To:</b></p>		
<p><input type="checkbox"/> Council Goals/Priorities:</p>	<p><input checked="" type="checkbox"/> Adopted Master Plan(s):          Wastewater Collection System          Master Plan 2014</p>	<p><input type="checkbox"/> Not Applicable</p>

**ISSUE BEFORE COUNCIL:**

A City of Wilsonville Resolution approving a Professional Services Agreement (PSA) with Murraysmith in the amount of \$163,197 for Phase 1 – Preliminary Engineering Consulting Services for the Charbonneau Lift Station Rehabilitation (CIP #2106) project (Project).

**EXECUTIVE SUMMARY:**

The Charbonneau Lift Station pumps wastewater collected from the Charbonneau District on the south side of the Willamette River, across the Interstate 5 (I-5) Boone Bridge via a 12-inch force main to the Wilsonville Wastewater Treatment Plant (WWTP) located on the north side of the river. The lift station was originally built in 1972 and was last updated in 1996.

The 2014 Wastewater Collection System Master Plan identified the Charbonneau Lift Station as needing major improvements in the near term. A subsequent condition assessment completed in 2018 confirmed this finding and identified additional required improvements to ensure the continued functionality and reliability of this lift station. In addition, the force main between the lift station and WWTP mounted to I-5 Boone Bridge consists of multiple changes in pipe size and materials, experiences occasional clogging, and lacks pipe access needed for regular maintenance.

Staff issued a Request for Proposals (RFP) in August 2021 for professional engineering services for the Project. One proposal was received by the September 23, 2021 due date. Staff evaluated the submitted proposal and determined that Murraysmith was qualified to perform engineering consulting services for the Project.

This Project (Phase 1) begins the preliminary engineering design that will include hydraulic analysis and preliminary design (30%) of the Charbonneau wastewater lift station and force main. The hydraulic analysis will help identify needed upgrades to the lift station and force main to eliminate clogging issues and provide adequate maintenance access while maximizing the useful life of the existing assets.

A contract amendment with Murraysmith for Phase II – Final Engineering and Construction Support Services will follow completion of the Phase 1 work.

**EXPECTED RESULTS:**

The pumping, electrical, and control systems will be replaced, and a new wet well constructed with submersible pumps installed. Site access for operation and maintenance will be improved, and a permanent standby generator will be installed to reduce the risk associated with power outages. The capacity and condition of the existing force main will be evaluated for possible complete or partial replacement.

**TIMELINE:**

The preliminary design phase of the Project is scheduled to be completed by June 30, 2022, with final design and construction anticipated to be completed by December 2023.

**CURRENT YEAR BUDGET IMPACTS:**

The adopted budget for FY21/22 includes \$496,563 in Sewer Operating funds for CIP #2106. The contract amount for Phase 1 – Preliminary Engineering services is \$163,197, within the FY21/22 budgeted amount. The project construction costs will be updated upon completion of the hydraulic analysis and help inform the FY 22/23 budget for the Project accordingly.

**FINANCIAL REVIEW:**

Reviewed by: KAK Date: 12/07/2021

**LEGAL REVIEW:**

Reviewed by: JRA Date: 12/07/2021

**COMMUNITY INVOLVEMENT PROCESS:**

Outreach to residences in the immediate vicinity of the lift stations will be provided by City staff through direct mail. Meetings will be scheduled to solicit input on proposed changes to the lift station and address concerns pertaining to site access, visual aesthetics, noise, and odor control.

**POTENTIAL IMPACTS OR BENEFIT TO THE COMMUNITY:**

The Project will benefit the community by providing more reliable critical wastewater infrastructure and minimizing the risk of failure.

**ALTERNATIVES:**

Not proceeding with the project will result in increased deterioration of structural assets, greater risk of equipment failure, and increased operations and maintenance costs.

**CITY MANAGER COMMENT:**

N/A

**ATTACHMENTS:**

1. Vicinity Map
2. Resolution No. 2945
  - A. Charbonneau Lift Station Rehabilitation Professional Services Agreement