

Item 9.7

## CITY OF SALMON ARM

Date: March 8, 2021

### Late Item

Moved: Councillor

Seconded: Councillor

THAT: Council award the AGS Pilot Study plant supply in relation to the Stage IV Water Pollution Control Centre Design project to Aqua-Aerobic Systems Inc. for the quoted total price of \$117,000.00 USD plus taxes as applicable estimated to be up to \$150,000.00 CAD including transportation costs;

AND THAT: The City's Purchasing Policy No. 7.13 be waived in the procurement of the AGS Pilot Study plant supply to authorize sole sourcing of same to Aqua-Aerobic Systems Inc.

AND THAT: Council award the AGS Pilot Study Engineering Work in relation to the Stage IV Water Pollution Control Centre Design project to WSP Canada Inc. for the quoted total price of \$109,700.00 plus taxes as applicable;

AND THAT: The City's Purchasing Policy No. 7.13 be waived in the procurement of the AGS Pilot Study to authorize sole sourcing of same to WSP Canada Inc.

### **Vote Record**

- ☐ Carried Unanimously
- ☐ Carried
- ☐ Defeated
- ☐ Defeated Unanimously

Opposed:

- ☐ Harrison
- ☐ Cannon
- ☐ Eliason
- ☐ Flynn
- ☐ Lavery
- ☐ Lindgren
- ☐ Wallace Richmond

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TO: His Worship Mayor Harrison and Members of Council

FROM: Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY: Jenn Wilson, City Engineer

DATE: February 2, 2021

SUBJECT: **WPCC STAGE IV EXPANSION – PROCESS SELECTION**

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**STAFF RECOMMENDATION**

**THAT: Council award the AGS Pilot Study plant supply in relation to the Stage IV Water Pollution Control Centre Design project to Aqua-Aerobic Systems Inc. for the quoted total price of \$117,000.00 USD plus taxes as applicable estimated to be up to \$150,000.00 CAD including transportation costs;**

**AND THAT: The City's Purchasing Policy No. 7.13 be waived in the procurement of the AGS Pilot Study plant supply to authorize sole sourcing of same to Aqua-Aerobic Systems Inc.**

**AND THAT: Council award the AGS Pilot Study Engineering Work in relation to the Stage IV Water Pollution Control Centre Design project to WSP Canada Inc. for the quoted total price of \$109,700.00 plus taxes as applicable;**

**AND THAT: The City's Purchasing Policy No. 7.13 be waived in the procurement of the AGS Pilot Study to authorize sole sourcing of same to WSP Canada Inc**

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**BACKGROUND**

The City engaged WSP Canada Inc. to complete a Site Selection Study for the Stage IV expansion of the WPCC further to commitments contained within the City's Liquid Waste Management Plan. The final site selection report, including public engagement results, were presented to Council and Council authorized staff to proceed with the Stage IV expansion at the existing site. The next steps were noted as:

- Process Selection (regardless of location selected)
- Potentially a pilot of preferred process if different than the existing process

- Updating the City's Financial Plan
- Detailed Design; and
- Tender and Construction

Staff presented the findings of the subsequent WPCC Process Selection memo (WSP, Feb 2021) in February 2021 and Council authorized staff to investigate and obtain pricing to piloting Activated Granular Sludge (AGS) technology.

The current license holder for the AquaNereda® AGS pilot units is Aqua-Aerobic Systems Inc., located in Lowes Park, Illinois. The estimate to provide the pilot unit is \$117,000.00 USD including transportation costs.

WSP provided a proposal to complete the three (3) month pilot study including cost and proposed schedule. The work includes project managements and pilot coordination as well as final process selection and review. The estimated budget for these works is \$109,700.00.

Other anticipated project costs include approximately \$30,000 for electrical and civil works to connect and disconnect the pilot unit, \$60,000 in laboratory testing either by the City or an outside laboratory. Contingency is estimated at 20% (\$48,000) at this time due to uncertainties in transportation costs of the unit and connection/disconnection cost. The total pilot project including contingencies is estimated at \$397,700.00.

### **STAFF COMMENTS**

One of the major operational concerns with Biological Nutrient Removal is the temperature sensitivity of the bacteria. Therefore, it is prudent to capture data during the shoulder season, wet and cool weather flows (late winter/spring). Time is of the essence in completing the pilot to capture the spring influent conditions or the project would be delayed into early 2022.

The work included in the WSP proposal would bring the WPCC Stage IV project to a point where the work can enter the pre-design/detailed design phase with excellent data in support of the work. It is Staff's intention that the Stage IV expansion project would be put out to RFP for the pre and detailed design phases.

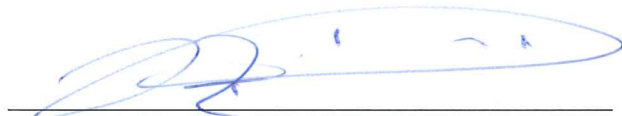
In consideration of the tight timeline to capture the 2021 shoulder season and WSP's involvement in the project to date, staff believe WSP to be both a cost-effective and beneficial choice to complete the AGS pilot.

Sole sourcing of the AGS pilot unit to Aqua-Aerobic Systems Inc. is required due to licensing of the technology.

The approved 2021 Capital Budget for the WPCC – Stage IV upgrade design is \$800,000.00, so there is sufficient funds to cover the works being proposed.

Staff recommend that Council award the AGS Pilot Study in relation to the Stage IV Water Pollution Control Centre Design project to WSP Canada Inc. for the quoted total price of \$109,700.00 plus taxes as applicable and that Council award the AGS Pilot Study plant supply in relation to the Stage IV Water Pollution Control Centre Design project to Aqua-Aerobic Systems Inc. for the quoted total price of \$117,000.00 USD plus taxes as applicable estimated to be up to \$150,000.00 CAD including transportation costs;

Respectfully submitted,



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Robert Niewenhuizen, ASCT  
Director of Engineering and Public Works

Cc Chelsea Van de Cappelle, CFO