

File: 2021-xx

TO: His Worship Mayor Harrison and Members of Council
FROM: Robert Niewenhuizen, Director of Engineering and Public Works
PREPARED BY: Hart Frese, Chief Operator WWTP
DATE: March 18, 2021
SUBJECT: **PROJECT AWARD – WPCC CENTRIFUGE REPLACEMENT**

STAFF RECOMMENDATION

THAT: Council Approve the award of the purchase of a replacement centrifuge to Archer Separation Inc., in accordance with the terms and conditions of their proposal in the total amount of \$150,750.00 plus taxes as applicable;

AND THAT: The 2021 Budget contained in the 2021 - 2025 Financial Plan Bylaw be amended to reflect additional funding for the estimated installation costs plus contingency in the amount of \$40,000.00 be funded from the WPCC Trickling Filter Heads Reserves.

BACKGROUND

In 1997 the City purchased a Pieralisi Centrifuge to dewater the biosolids that are produced at the Wastewater Treatment Plant. This particular machine has been rebuilt twice since the initial installation and was scheduled to be rebuilt again in 2020. During the disassembly phase of the rebuild the technician responsible for this task noticed cracks in the main bowl which would require replacement of the bowl at an estimated cost of \$90,000.00; thus substantially increasing the cost of the refurbishing to over \$130,000.00. For this reason and the fact that the machine is beyond the typical service life of a centrifuge staff determined that the prudent approach would be to research its replacement cost as a whole.

Staff reached out to three suppliers, with results as follows:

Company	Manufacture	Cost	Estimate to Install	Total Amount (excl. taxes)
Archer Separation Inc	Haus	\$ 150,750.00	\$ 30,000.00	\$ 180,750.00
Centrix Control Solutions	Pieralisi	\$ 166,271.23	\$ 25,000.00	\$ 191,271.23
Alfa Laval	Alfa Laval	\$ 162,500.00	\$ 30,000.00	\$ 192,500.00

The proposal submissions were reviewed and evaluated by staff and references were contacted. With Archer Separation Inc. being the lowest bid and the President and founder of the company being well known by the WWTP staff as being very knowledgeable, trustworthy and resourceful, staff recommends that Archer Separation Inc. be considered the successful tenderer and awarded the contract to supply the centrifuge. Another key factor in this recommendation is that the delivery

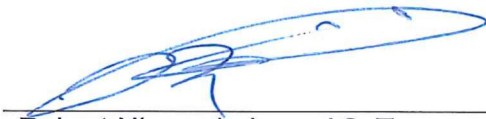
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time for the Haus centrifuge is 6-8 weeks while the other two centrifuges have an expected delivery schedule ranging from 21-26 weeks.

The 2021 capital budget was approved at \$151,975.00; however, as explained in the report, staff are confident that it would be more beneficial in the long run to have the centrifuge replaced rather than repaired based on the estimated costs. The additional funds required for this purchase can be taken from WPCC Trickling Filter Heads Reserves, which is currently estimated at \$131,465.87. With the WPCC plant expansion on the horizon the trickling filter improvements may not be required should the City choose an alternate treatment process.

Respectfully submitted,



Robert Niewenhuizen, ASCT
Director of Engineering and Public Works