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Muscatine IA 52761-1645  
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MEMORANDUM

WATER & RESOURCE RECOVERY FACILITY

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director  
Cinda Hilger, Secretary

From: Jon Koch, WRRF Director

Date: March 1, 2019

Re: Papoose Pump #3 Rebuild

**INTRODUCTION:** The Water and Resource Recovery Facility (WRRF) has received a \$45,588.00 quote from the vendor Zimmer and Francescon, Inc. for the rebuild of the #3 pump at the Papoose Lift Station. We have also received a \$30,270.00 quote for a new impeller for the #3 pump. The total cost of the rebuild and the new impeller is \$76,458.00 which includes a \$600 freight charge. The 18/19 budget was amended to account for these emergency expenses.

**BACKGROUND:** In the fall of 2018 both large wet weather pumps at the Papoose Lift Station failed due to failure of the bearings, stuffing box and seals when the dry well flooded. This caused the impellers to become damaged inside the pump volute and pump capacity was reduced. The #2 pump was rebuilt last year and the impeller was able to be reused. The #3 pump is now scheduled for rebuild but the impeller is beyond repair and needs to be replaced.

**RECOMMENDATION/RATIONALE:** Staff recommends issuing a purchase order to Zimmer and Francescon, Inc. for the rebuild of Papoose #3 pump and the purchase of a new impeller for the #3 pump plus freight for a total amount of \$76,458.00

**BACKGROUND:**

1. Zimmer and Francescon, Inc rebuild and impeller quote

# ZIMMER & FRANCESCON, INC.

6200 65<sup>th</sup> Avenue  
Moline, IL 61265

Tel. 800-621-1118  
Fax 877-244-2508

March 1, 2019

Jon Koch  
Muscatine WPCF  
1202 Musser Street  
Muscatine, IA 52761

Subject: Rehab of 14" 5712 Pump  
Sn 799302

Dear Jon,

The following is **post inspection** proposal for refurbishment of the pump returned to Fairbanks Pump Services Group (PSG).

## Scope of Work

- Receive rotating assembly from Customer with impeller attached.
- Disassemble, clean and inspect.
- Beadblast all reusable components.
- **Install impeller previously ordered for repaired unit recently installed**
- Install the new impeller wear ring.
- Dynamic balance the impeller to Fairbanks standards.
- **Machine New Shaft**
- **New inner bearing housing and cover** (ref 139 & 140).
- Bore and bush the packing box, finish machine.
- Weld repair the frame register fit to the volute, finish machine to print dimension.
- Provide the following components at assembly; all bearings, all wear rings (the fronthead wear ring to be installed by Customer), shaft sleeve, impeller key, volute gaskets, gland half clips, gland studs & nuts, packing, water seal ring, water deflector, upper bearing lock nut and lock washer, Thrust roller bearing shaft ring, thrust roller bearing collar, all shims necessary to provide proper end play on the rotating assembly.
- Assemble the rotating assembly.
- Coat with Fairbanks standard enamel coating.
- Ship back to the Customers location.

Cost to perform above scope of work will be \$45,588.00 plus the \$600 freight charge for shipment Between Muscatine and Kansas City, KS. Delivery will be approximately 8-10 weeks ARO. Fairbanks PSG will also supply and install new impeller for additional \$30,270.00. Total price is \$76,458 including freight charges.

## ZIMMER & FRANCESCON, INC.

This quotation includes only the parts or processes specifically outlined above. Any other parts or processes judged to be necessary by F.N. will be quoted separately at an extra cost, and will be included only after the approval and authorization by the Customer. Warranty will be contingent on the inclusion of any processes deemed necessary by F.N.

The above quotation is valid for 30 days from the date of this letter, and is subject to Fairbanks Nijhuis Standard Terms and Conditions (KC585) including the same warranty as new Fairbanks Nijhuis products. Taxes and Freight are excluded, and will be billed separately, as applicable. This quotation presumes that the equipment in question, is in reusable condition without repair or modification other then those listed in the scope of repair.

If you have any questions please contact me at your convenience.

Best Regards,

Andrew Larson  
[zfandrew@msn.com](mailto:zfandrew@msn.com)  
Zimmer & Francescon, Inc.