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WATER POLLUTION CONTROL

MEMORANDUM

To: Gregg Mandsager, City Administrator  
Cc: Nancy Lueck, Finance Director  
From: Roger Kirby, Director WPCP  
Date: June 29, 2011  
Re: Crane bucket replacement at Papoose Lift Station proposal

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**INTRODUCTION:** This is a follow up to the memo and council action from April 7, 2011. Two purchase orders were issued totaling \$134,710 to Konecranes for removal and replacement of the crane at the Papoose Lift Station. As stated in the memo, that did not include the bucket for the crane. They have been working on a price to repair the existing bucket and we finally have that proposal.

**BACKGROUND:** I have included the statement from the original memo dated April 5, 2011: **"I will have a better estimate of the cost to repair the existing bucket before the council meeting next week but original estimates are in the \$5K-\$8K range. A new bucket would be more than \$30K. Both firms indicated the existing bucket could be refurbished on a time and material basis."**

We have finally received a quote for an estimate to repair the existing bucket for cost not to exceed \$12,000. The cost of a new bucket for their system would be \$28,665.

**RECOMMENDATION/RATIONALE:** After reviewing the scope of work for repairing the bucket, staff recommends a purchase order be issued to Konecranes for repairing the existing bucket at a cost not to exceed \$12,000. This will replace all critical components of the bucket and end up with a "better than new" bucket. There was \$175,000 budgeted for this crane and this will bring the total to \$146,710. Please include this item on the July 7, 2011 Council agenda.

# OFFER

Handled by: Travis Hageman  
Offer date: 04/06/2011 / Revision 06/28/2011  
Offer number: T28656-340R2/DAV040611TLH1

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| <b>Customer:</b> City of Muscatine Wtr Pollution . MUSCATINE | <b>Reference:</b> CLAM SHELL BUCKET REPAIR |
| <b>Address:</b> 1202 Musser St                               | <b>Inquiry date:</b> 04/06/2011            |
| MUSCATINE, IA 52761-1645                                     | <b>Subject:</b> CLAM SHELL REPAIR          |
| USA  | <b>Contact person:</b> MIKE BECKMAN        |
|  | <b>Customer Tel:</b> 5632632752            |
|  | <b>Customer Fax:</b>                       |

Thank you for the opportunity to be of service. This proposal details the planned repairs we have discussed. Konecranes is pleased to offer the following proposal for your consideration and approval.

## Scope

Repair of the clam shell bucket utilized at the storm water retention area. This will consist of the following and will be billed at T&M of \$85.00/hr with a NTE of the price below:

- New 4" x 12" Industrial Hydraulic double acting cylinders w/rod end and cap end cushions if the existing cylinders are not repairable or it is more cost effective to purchase new over the repair. (The existing cylinders are Industrial type cylinders which have machined steel caps. A less expensive Ag type cylinder could be substituted but have only ductile iron caps which may not be robust enough for the application).
  - Cost for new cylinders.....\$7,450.00 (Includes new fittings, pins and labor)
- Re bush all the joints in the arms and supply new pins. This may require some line boring if there is to much wear.
  - Approximate cost.....\$1,600.00
- A NDT test with dye penetrate will be performed and the deficiencies will be repaired as necessary.
  - Cost .....\$1600.00 (include sand blasting of bucket to get rid of paint and rust).
- A new piece of T1 plate will be installed on each clam lip to true up each lip so there is a tight gap during closure.
  - Approximate cost.....\$850.00
- Bucket to be primed and painted.
  - Approximate cost.....\$500.00

Price for new bucket.....\$28,665.00

## Pricing Summary

Total price NTE \$12,000.00.

Note: Customer to supply lifting equipment as required. If not available, lift cost will be additional.

This quote/proposal is subject to the Konecranes, Inc. d/b/a Crane Pro Services Standard Terms and Conditions of Sale (Revision 082207), a copy of which is attached hereto or otherwise available upon request and the terms of which are incorporated as if fully rewritten herein.