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**WATER POLLUTION CONTROL****MEMORANDUM**

To: Gregg Mandsager, City Administrator

CC: Nancy Lueck, Finance Director

From: Jon Koch, Director WPCP

Date: June 14<sup>th</sup>, 2013

Re: Quad Valve Repair

**INTRODUCTION:** Quads are named for the four tanks that hold the digested biosolids material before being pumped to the lagoons for final land application. The eight control valves to open and release this material are buried and 36 years old. Two valves were put into accessible manholes in 2009. There are six valves remaining to be put into manholes. To repair or replace four of these valves requires excavation of the main driveway in the back of the plant. \$20,000 was budgeted to do two valves based on the \$18,000 cost in 2009. Doing four valves together avoids tearing up and replacing the driveway pavement twice.

**BACKGROUND:** These valves are becoming increasingly difficult to operate. It takes two people to turn the valves increasing the chance of damaging the valve stem requiring repairs or replacement. Before installing the manholes in 2009, they were excavated for repairs at great expense and hazard to personnel.

**RECOMMENDATION/RATIONALE:** Staff recommends issuing a PO for \$53,510 to Langman Construction as the low bidder for site excavation, installation of manholes and replacement of pavement. Muscatine Bridge bid \$56,620 for the job. The plant uses DeZuric valves to limit stocking of multiple manufacturer parts for repairs so no other bid was requested. Staff recommends issuing a PO not to exceed \$4000 for four DeZuric valves from Mellon Associates. Plant staff will install the new valves. Total cost for the project is \$57,510. \$20,000 was budgeted for this project. \$37,510 will come from the power line item remaining in the 2012/2013 budget. Electrical expenses were lower than expected and vary year to year depending on weather.