



MEMORANDUM

DATE: September 12, 2016

TO: Dan Duchniak

FROM: Jeff Detro

RE: Approve Deep Well Pumping Equipment

In March 2009, the City of Waukesha executed a “Stipulation and Order for Judgement” with the State of Wisconsin related to state laws regulating the supply of drinking water, or more specifically, the limits on radionuclides in drinking water.

The Consent Order provided the framework for Waukesha to obtain full compliance with the radionuclide standards by June 30, 2018. The City has taken all of the interim steps necessary to fulfil its obligations of the Consent Order. However, there have been periods where we have not been able to meet the radium limits utilizing weighted averaging when compliant wells were taken out of service due to equipment failure. This is due to the reliance on the compliant wells in the interim which has resulted in decreased pump life which causes additional well pump replacement projects.

With the approval of the Great Lakes water supply we now have a better understanding of the timing of the project and have come to the conclusion that we will need to replace deep well pumping equipment at least one more time before the new supply is available.

To reduce the time the wells are “out of service,” we are recommending the purchase of three deep well pumps and two submersible motors. This includes a pump head, motor, and drop cable for Well No. 3, a pump head for Well No. 8 and a pump head for Well No. 10. We would also purchase one motor that could be used at either Well No. 8 or No. 10 again including the drop cable. Should Well No. 10 fail, using the pumping equipment on hand would reduce the available capacity until the 700Hp equipment could be repaired or replaced. By purchasing only one motor we are assuming that Wells No. 8 and 10 do not fail at the same time. This is a reasonable assumption based on the timing of the last projects at these locations.

This purchase would greatly reduce the out of service time for any of these critical wells. It is estimated the maximum of weeks a well would be out of service would be 6 weeks and less in many cases. This is due to the fact that this purchase substantially reduces the lead time of this equipment which can be greater than 16 weeks under normal circumstances.

Provider	Total Cost
Municipal Well & Pump	\$194,665.00
Layne	\$269,034.00

Funds for this equipment is available in capital account 3250

Recommended Motion: Move to approve the purchase of 3 - Goulds Pump Heads, 1 - 200hp Indar submersible motor, 1 - 350hp Indar submersible motor, and submersible pump cables from Municipal Well & Pump for the low bid amount of \$194,665.00.