



ITEM 11K

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WATER POLLUTION CONTROL

MEMORANDUM

To: Gregg Mandsager, City Administrator

Cc: Nancy Lueck, Finance Director
Fran Donelson, Secretary

From: Jon Koch, Director WPCP

Date: December 17, 2014

Re: Lab Annex Project Extra Plumbing Purchase Order

INTRODUCTION: Multiple plumbing installations were required during the course of work that were not in the original design of the Lab Annex Project. These additional costs were unanticipated due to some water quality issues and gas delivery to the new HVAC unit. A purchase order is required for this additional work in the amount of \$5529.00 to the plumber Crawford Company.

BACKGROUND:

Water Filtration

The lab requires extremely clean water and utilizes its own filtration system to achieve that. The water supply to this part of town contains so much sediment that MPW has started a new water line flushing schedule just for the treatment plant. The sediment and bacterial growth in a slow moving line inside the plant was causing the filtration system to fail and required very expensive filter replacement more often than normal. We decided to install a new pre-filter and UV system to save the wear and expense on the lab RO system. The plumbing for this was done by Crawford Plumbing while doing contracted work on the water supply to the lab. The cost of this work was \$1952.00.

Gas Delivery

The new lab HVAC unit is sized for multiple air exchanges per hour as required for all new lab construction. In the course of connecting the new larger gas line to the existing regulators, Alliant Energy recommended upsizing the regulators to ensure gas flow to all units at the treatment plant. When the lab was engineered it assumed less use to the old lab area but Alliant was concerned that running all the boilers for the digesters would strain the system and cause the plant to lose pressure over the entire system. The cost for upgrading the lab gas delivery system was \$2470.00.

Fixture Installations

Some fixtures were installed by the contractor that were not in the original contract. Several sinks and a draft line for the acid cabinet were not bid in the original project by Crawford due to the casework being purchased separately. The layout of these fixtures were not available to the contractor at the time of bidding. These items total \$1107.00.

RECOMMENDATION/RATIONALE: Staff recommends approval of the purchase order to Crawford Company in the amount of \$5529.00