



*"...meeting community needs...enhancing quality of life."*

---

Water Treatment Facility  
2281 Manitowoc Rd.  
Menasha, WI 54952  
920-997-4200 tel.  
920-997-3240 fax

**TO:** Chairperson Kathy Plank and Members of the Finance Committee

**CC:** Chairperson Joe Martin and Members of the Utilities Committee

**FROM:** Utilities Director Chris Shaw

**DATE:** Friday, October 17, 2014

**RE:** *Change Order #3 to the Regulatory Upgrade and Process Improvement Project in the amount of \$40,029 resulting in no change to the approved contingency and overall contract amount.*

---

## **BACKGROUND**

The Appleton Water Treatment Facility is in the process of upgrading the plant treatment train to meet Federal regulatory requirements (i.e., Long Term 2 Enhanced Surface Water Treatment Rule). The City completed conceptual planning and created a 2012 – 2015 project schedule to meet the rule requirements. The objectives of the City were to upgrade the plant and improve Cryptosporidium, Giardia and virus removal efficiencies. In addition, the plant would also reduce planned future capital expenditures and operating costs.

On November 19, 2012, the Common Council approved an engineering contract with CH2M HILL to complete professional services for the Regulatory Upgrade and Process Improvement Project (RUIP). CH2M HILL subsequently provided the plans and specifications for the construction contract. CH2M HILL was also contracted to perform construction management and contract administration services. Major elements of this project include:

- Improve filtered water quality with the addition of a polymer feed equipment.
- Expand the chlorine contact basins to achieve Giardia and Virus reductions at maximum design hydraulic conditions.
- Upgrade the existing Granular Activated Carbon (GAC) and sand contactors into regulatory approved filters.

- Install an ultraviolet light disinfection process for inactivation of Cryptosporidium and Giardia.
- Integrate process equipment into the Supervisory Control and Data Acquisition (SCADA) System.
- Replace four lime slakers and modify with high density make down units and provide metered feed delivery capabilities.
- Replace ammonia process equipment and incorporate engineering improvements.

## CONSTRUCTION PROJECT

Common Council authorized a construction contract to Staab Construction Corporation on January 15, 2014. The engineering firm, contractor and plant staff have been working collaboratively since January to provide the City with high quality plant improvements. The project was initially approved at \$4,857,000 with a contingency of \$728,550. Change orders have been addressed by combining discreet project changes. These are noted by number in the Request for Quote (RFQ) logs. There has been a total of 37 RFQs to date. This Change Order #3 includes RFQs 24 – 37. This is the third change order to date. A summary of change orders and project costs is listed below.

Regulatory Upgrade and Process Improvement Project			
	Change Order	Contract Amount	Contingency
Original Contract		\$4,857,000	\$728,550
Change Order 1	(\$109,974)	\$4,747,026	\$728,550
Change Order 2	\$20,649	\$4,767,675	\$728,550
Change Order 3	\$40,029	\$4,809,994	\$728,550

The total for this change order is \$40,029. A summary of the RFQs that make up this change order is attached.

## SUMMARY

The contingency funding for this project has yet to be utilized. Currently, the original contract has been reduced by \$47,006 as a result of credits to the project. If you have any questions, regarding this project please contact me at 997-4200.