

**Metropolitan Domestic Water Improvement District  
Board of Directors Meeting**

**May 12, 2014**

**Approval of Change Order #2 for the Hub Well 1A Site Improvements**

**Synopsis**

The Board of Directors is requested to approve Change Order #2 for the Hub Well 1A Site Improvements contract with Innova Engineering, LLC (Innova) for the purpose of establishing a new contract amount of \$515,045.00 to permit the integration of an arsenic treatment system to the Hub 1A Well Site.

**Background**

At the May 13, 2013 meeting, the Board of Directors awarded a contract for the construction of the Hub 1A Well Site Improvements to Innova Engineering LLC. This work included a well pump, discharge piping and appurtenances, electrical and instrumentation appurtenances, a screen wall, gate, driveway and landscaping. This work is nearing completion.

The work did not include the furnishing and installation of an arsenic treatment system. At that time, District staff anticipated that the existing arsenic treatment system from the old Hub 1 well site would be transferred to this site upon completion of the well site improvements and integrated into the operation of the site. Subsequently, it was determined that the existing vessels were in poor condition.

At the September 9, 2013 meeting, the Board of Directors awarded a contract to Smyth Industries for the manufacturing of the new arsenic treatment vessels for the Hub 1A and Hub 3 well sites. The Board also approved the replacement vessels be purchased with unspent Water Infrastructure Finance Authority (WIFA) funds. These new arsenic treatment vessels are now ready for delivery.

The contract for manufacturing the replacement vessels did not include the furnishing and installation of piping, valves, meters, and other appurtenances necessary to integrate the arsenic vessels and arsenic treatment media into the Hub 1A well site operation.

On February 10, 2014 the Board of Directors approved Change Order No. 1 to utilize Innova to complete the additional waterline relocations necessary on Orange Grove Road. The work required by Change Order No. 1 is complete.

### **Issues**

Arsenic levels collected after the construction of the Hub Well 1A measured 8.9 ppb. The MCL for arsenic is 10 ppb. Staff experience at Hub Well 1 indicates that the longer a well runs, the higher the arsenic levels become. Therefore, an arsenic treatment system is required to be in place prior to placing the new Hub 1A Well in service.

With the replacement arsenic vessels ready for delivery, the final step is to integrate the arsenic vessels into the existing well site improvements to permit their operation in series with the Hub Well 1A. District staff prepared a set of plans including the piping, valves, fittings, meters and other appurtenances necessary to integrate the arsenic vessels and media into the Hub Well 1A Site improvements.

Since Innova is still on site completing the work required under the original contract, and because the arsenic treatment system will be required to be operational in order for Innova to finalize the testing period required under the original contract, staff requested Innova to provide a cost estimate for completion of this final aspect of the work.

Innova obtained a cost estimate of \$35,000 for the materials required to complete the work. The labor for the installation of the materials will be tracked on a "time and materials" basis, in accordance with the original contract documents, and is estimated to be \$35,000, for a total anticipated cost of \$70,000. Actual labor for the installation will be tracked on a daily basis in the field. In order to complete this work under the current contract, a Change Order increasing the contract amount by \$70,000 is requested. Funding for the materials and labor to complete the remaining additional work is available from the remaining unspent 2007 WIFA funds.

### **Recommendation**

It is recommended that the Board of Directors approve Change Order #2 to the Hub Well 1A Site Improvements contract with Innova Engineering, LLC, which establishes a new contract amount of \$515,045, which is a \$70,000 increase.

### **Suggested Motion**

I move to approve Change Order #2 to the Hub Well 1A Site Improvements contract with Innova Engineering, LLC, which establishes a new contract amount of \$515,045.

Respectfully submitted,

I concur with the above noted recommendation

Respectfully submitted,

Charlie A. Maish, P.E., R.L.S.  
District Engineer

Joseph Olsen, P.E.  
General Manager