



MONTHLY PROJECT STATUS REPORT

**Subject: HEBER PUBLIC UTILITY DISTRICT – WATER TREATMENT PLANT EXPANSION
SRF Project No. 1310007-002C**

Date: June 10, 2016

From: Juny Marmolejo, Project Engineer, The Holt Group, Inc.

To: Laura Fischer, General Manager, Heber Public Utility District

Cc: Board President and Directors, Heber Public Utility District
Francisco Rodriguez, Chief Operator, Heber Public Utility District
James G. "Jack" Holt, P.E., Principal Engineer

Project:

- Expansion of the Water Treatment Plant from 2 million gallons per day (MGD) to 4 MGD.
- Facility improvements to reduce Total Trihalomethanes (TTHM) in potable water.

Summary of Construction Progress:

- Project Completion Percentage: 20 %
- Processing of Construction documentation (Submittals and RFIs).
- Concrete construction of Raw Water Pump Station' wet well.
- Storm water Manhole and Storm Water Pipeline Installation.
- Construction of brackets for baffle system of the existing 0.75 MG Tank.
- Concrete construction of the Backwash Pump Station's foundation slab.
- Electrical conduit installation within the Operations Building.
- Concrete repairs to Raw Water Basin No. 1.
- Earthwork for High Service Pump Station's foundation slab.
- Site Piping installation between Finished Water Pump Station and 0.75 MG Tank.
- Site Piping installation for Backwash Pump Station Pipeline (Required WTP Shut Down).
- Hauling of excess native soil to HPUD owned property.

Construction Schedule:

- Start: March 1, 2016
- 350 Calendar days for Construction
- End: February 14, 2017
- Construction Days To Date: 101 days (June 10, 2016)

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Construction Cost:

- Contract: \$8,129,000
- Expended To Date: \$1,167,000
- Previously approved Change Orders: \$0.00

- Change Orders for Approval by HPUD Board: \$18,461.35
 - Rebar for Backwash Basin – \$1,459.35
Place additional rebar to structurally support Backwash Pump Station's concrete slab. Not in contract scope of work.
 - Finish Water Pipeline Plug – \$2,492.67
Excavate and install a plug to an existing finish water pipeline that was to be abandoned. Plug installed next to inoperable valve. Not in original scope of work.
 - Underground Electrical Conduit – \$2,952.61
Install underground electrical conduit that was previously cut and removed, unknown to be cut as previous As-Built drawings did not indicate the change in design.
 - Raw Water Pond No. 1 Crack Repairs – \$11,556.72
Raw Water Pond was found to have various cracks and leaking into the Static Mixer's vault excavation. Not in contract scope of work.

- Change Orders under negotiation:
 - 0.75 MG Tank's Roof Rafters – estimated at \$60,000
During surface preparation (sand blasting), to coat the interior of the 0.75 MG tank, it was observed that the existing roof rafters were corroded at the sidewall and center column point of connections. The Holt Group halted construction as sandblasting the corroded welded and bolts may compromise the connections, creating an unsafe working condition as well as result in major structural damage to the tank.
Pacific Hydrotech (Contractor) has brought in a specialty tank contractor. The specialty tank contractor's structural engineer will assess the extent of corrosion and provide recommendations for repairs.
 - 0.75 MG Tank's Cathodic Protection: estimated at \$10,000
During temporary removal of the Cathodic Protection, it was discovered that the existing anodes (sacrificial metal wires) were at the end of useful life. As such, it was requested that a specialty cathodic protection contractor visit to assess the entire cathodic protection system and provide a proposal to complete repairs.

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Outage of Facilities:

- Follow up to the water distribution system's water outage conducted from Wednesday, May 25th at 11:00 PM to Thursday, May 26th at 3:00 AM.
 - The new water pipeline connection and back-up pumping connection was well executed with no incident. The normally operated Distribution Pump Station was shut off on Wednesday, May 25th at 11:00 PM. HPUD operators placed a smaller temporary pump to keep pressure within the water distribution system above 5 psi. The normal Distribution Pump Station was placed back into service on Thursday, May 26th at 2:30 PM.
 - Bacteriological water sampling and testing, as typically conducted after installation of new pipeline, concluded no trace of bacteria in the sampled water.
 - No complaints were reported to HPUD office or staff.
 - A minor water pipeline break was thought to be created from the water distribution system changes in pressure. The damaged water pipeline was promptly repaired by HPUD Operators upon discovery.
 - See attached photos of the water pipeline tie-in connection.
- A planned water outage for the Raw Water Pump Station, Clarifier/Filter Treatment Units, and Finished Water Pump Station is scheduled for June 16th and 17th or June 20th or 21st. There are no major impacts to the two (2) day water outage. The water outage will be conducted to tie in new water finished water pipelines between the Finished Water Pump Station and the Water Storage Tanks. HPUD Operators will assist with the shutdown and start-up of the noted facilities.