



MONTHLY PROJECT STATUS REPORT

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

Date: July 9, 2017

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
Sameer Patel, P.E., Resident 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: 95 %
- Static Mixer Facility Scope of Work
 - Installation and Assembly of Chemical Feed Facilities and Piping
 - Installation of Electrical/Control Panel, Conduit and Wiring
 - Start-up and Operation of the Static Mixer Facility
- Clarifier/Filter Treatment Unit Scope of Work
 - Coating improvement to Unit No. 2
 - Repairs of Filter Undrain to Unit No. 2 (Change Order Scope of Work)
 - Start Up and Operation of Unit Nos. 2 and 3
 - Removal Media from Unit No. 1
 - Sandblasting and Coating to Unit No. 1
 - Repairs of Filter Undrain to Unit No. 1 (Change Order Scope of Work)
 - Installation and Assembly of Chemical Feed Facilities and Piping
 - Start-up and Operation of the Chemical Feed Facilities and Piping
 - Coating of Inlet and Outlet Pipelines and Shade Structure
- High Service Pump Station
 - Installation of Electrical/Control Panel, Conduit and Wiring
 - Start up and Operation of the TTHM Removal System

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Summary of Construction Progress (continued):

- Chlorine Disinfection System Assembly
 - Installation of Electrical/Control Panel, Conduit and Wiring
 - Start up and Operation of the TTHM Removal System
- TTHM Removal System
 - Installation of Aerators and Mixers
 - Installation of Electrical/Control Panel, Conduit and Wiring
 - Start up and Operation of the TTHM Removal System
- Install Chlorine Residual Analyzing and Turbidity analyzing Assemblies and Pipeline for various facilities leading into the High Service Pump Station Building
- Site Visit by State Water Resources Control Board (SWRCB) Division of Drinking Water's Engineer on June 29th 2017 for construction inspection. Minor comments were made and are being addressed.
- Site Grading
 - Excavation and removal of native soil
 - Construction of cross gutters.
 - Construction of stormwater drains and manholes.
- Electrical and Controls
 - Emissions Testing and Approval by County of Imperial Air Pollution Control District for the Emergency Generator Set
 - Installation of new SCADA System
 - Transfer from old SCADA System to new SCADA System

Construction Schedule:

- Start: March 1, 2016
- Total Contract Days: 410 calendar days
 - Original Contract Days: 355 Calendar days
 - Additional Contract Days via Change Orders: 40 Days
 - Additional Contract Days via Weather (rainy Days): 15 Days
- End of Contract Date: April 15, 2017
- Currently Scheduled Completion Date: September 1, 2017 – 549 Calendar Days
- Construction Days To Date: 522 days (August 4, 2017)

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Construction Cost:

- Contract To Date:\$8,671,419.58
 - Original Contract:\$8,129,000.00
- Expended To Date: approximately\$8,320,663.62

- Construction Contingency:\$750,866.29
 - SRF Construction Contingency.....\$734,735.00
 - SRF Ineligible (HPUD Funded).....\$16,131.29

Change Orders:

- HPUD Change Orders Previously Approved.....\$641,419.58
 - Change Order Nos. 1, 2, 4 through 9 – \$526,288.29
 - Change Order for Additional CM – \$99,000.00
 - Change Order Nos. 3 & 10 (Tank Logo & WTP Sign) – Not in SRF Contract - \$16,131.29

- Change Order Approval Request:\$62,601.54
 - If Approved, Total Change Order Amount:\$704,021.12
 - If Approved, Remaining Construction Contingency:\$30,713.88*
 - * Does not Include SRF Ineligible Amount \$16,131.29

- **Total Change Approval Request:**
 - **Change Order No. 11 – \$62,601.54**

- **HPUD Change Order No. 11 for Approval by HPUD Board on August 17th: \$62,601.54**
 - Rehabilitate Clarifier/Filter Unit Nos. 1 and 2 Filter Undrain: \$ 25,316.86
Repair to Filter undrain sections that were leaking filter media through deteriorated and cracked grout, sealant and bolt connections. Conducted for Filter Nos. 1 and 2.
 - Backwash Pump Station Drain Pipeline: \$ 4,047.03
Installation of drain pipeline fittings from location of new Backwash Pump Station to avoid saturation of existing soil.
 - Omit Decant Pump Station Platform and Water Service Pipeline: - \$ 9,428.03 (credit)
Omit the construction of platform for the above grade pump station, and omit the 2-inch service pipeline for the Stormwater Pump Station.
 - Shade Structures for Miscellaneous Structures: \$ 42,665.68
Installation of new shade structures for equipment, skids and control panels at the polymer pump station; polyferric pump station; high service pump station; stormwater pump station; backwash decant pump station; and clarifier/filter units.

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- Change Orders under negotiation: total estimated at \$20,415.57
 - Contract Days: estimate of 120 calendar days. Project is on schedule for completion in the first week of September.
Contractor requests of additional contract days for unforeseen conditions.
 - Chlorine Analyzer and Turbidity Meter Station: estimated cost of \$30,000
Relocation of new Chlorine Analyzers and Turbidity Meters in an air conditioned building, and installation of new drain pipeline to discharge sampled water.
 - 3 MG Tank Roof Repairs: completed cost of \$640.74
Repairs to loose roof panels to top of wall for secure connection.
 - Electrical for Blower's Thermal Switch and Cathodic Protection: estimated at \$6,000
Installation of new electrical conduits and wiring for Clarifier blower's thermal switch and for the cathodic protection to 1.70 MG Water Tank.
 - Credit for Permit Fees by Contractor: \$29,820.00 (credit)
Remaining permit fees that were not utilized in Permit Fee Bid line item.
 - Emissions Testing of Generator Set: estimated at \$6,533.10
County of Imperial Air Pollution Control District required emissions testing of the new generator set, not included in the original scope of work.
 - Water Service at High Service Pump Station: completed cost of \$2,009.73
Replacement of 1.5 inch diameter water pipeline section with new valve connecting to existing High Service Pump Station.
 - Chemical Injection Inlet for Clarifier/Filter Units: completed cost of \$2,052.00
Installation of three (3) new new injection quills for the Clarifier/Filter Units.
 - Demolition of High Service Pumps and Fittings: estimated at \$3,000.00
Removal of existing of the high service pump and valves and found to be in leaking condition after operation of new pump station. This was a recently completed task that The Holt Group is negotiating with Pacific Hydrotech for \$0.00 of compensation.
 - Asphalt Pavement in Access Road Areas: unknown cost as the area to be paved is unknown; May not pave any area of the WTP.
Additional Class II Base will be placed in the area of the static mixer for no additional cost, as the there are areas in the road access way that will render excess material.

Outage of Facilities:

- There are no planned water outages for the water distribution system.
- Pacific Hydrotech is working closely with Operators and The Holt Group for temporary water treatment facility's halt. The treatment halt is required to construct electrical and control of various facilities including the Clarifier/Filter Units and Raw Water Pump Station. The water treatment halt does not affect distribution of potable water as HPUD has sufficient capacity to distribute water during the halt.