

ENGINEER'S REPORT

West Goshen Sewer Authority

December 30, 2020

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) from November 26 through December 30, 2020:

Projects in Construction:

Contracts WWTP-19-1; WWTP-19-2; and WWTP 19-3: WWTP Phase II Improvements / TMDL Compliance (007608.0447):

The General Contractor has completed the installation of the COMAG Drain Pump Station and continues work on the force main discharge piping, non-potable and potable water piping to the COMAG Building, and has coordinated and received deliveries for equipment from EVOQUA and Sherwood Logan. The Mechanical Contractor has installed the rough-in drain piping in the COMAG Building and the Electrical Contractor is beginning the installation of the under slab conduit the week of December 28.

We are recommending that the Authority approve the following applications for payment:

- Application for Payment No. 10 for Contract 19-1 (General Construction) to Blooming Glen Contractors, Inc. in the amount of \$211,729.58 for work completed through December 23, 2020.
- Application for Payment No. 1 for Contract 19-3 (Mechanical Construction) to CUICK Precision Solutions in the amount of \$36,992.70 for work completed through December 18, 2020.



We also recommend that the Authority approve the following change orders:

- Change Order No. 2 for Contract WWTP-19-1 for an increase in the Contract Price of \$31,323.82 for repair to the 16-inch air piping, modifications to the clarifiers, and undercut for the COMAG Drain Wet Well. This change order also includes an extension of the Contract Time by 43 days.
- Change Order No. 2 for Contract WWTP-19-2 for a Change in Contract Times of 73 days as a result of changes to the General Contractor's scope and the lack of progress from the General Contractor.
- Change Order No. 2 for Contract WWTP-19-3 for a Change in Contract Times of 73 days as a result of changes to the General Contractor's scope and the lack of progress from the General Contractor.

Contracts IP-1 and IP-2: Priority A Interceptor Project (007608.0456):

The Contractor for IP-1 (DOLI Construction Corporation) was issued the executed Substantial Completion Certificate from HRG on December 11, 2020. The Contractor has removed the tapping valve from the tapping pit located at the WWTP and has performed the initial backfill of the excavated pit. No restoration has been completed to-date due to weather and site conditions.

DOLI submitted four total Change Proposals in November and December for work claimed to be additional due to unforeseen conditions. Two of the Change Proposals are related to two unmarked Aqua water mains that were separately impacted. After negotiating labor rates and equipment rates with DOLI, HRG is in agreement with DOLI's costs provided in their third revision of the two Change Proposals related to the water main breaks received on December 29, 2020. HRG will prepare and provide two formal Change Order recommendations (CO No. 1 and CO No. 2) for review for increases in the Contract Price in the amounts of \$6,776.28 (10/20/2020 water main break) and \$9,328.80 (10/21/2020 water main break). The original amounts requested were \$8,705.96 and \$10,139.01, respectively. We anticipate working with the Township to notify Aqua of these costs and follow the required procedures to recoup this costs from Aqua under the PA One Call (Act 287).



The third Change Proposal submitted was for an additional site visit by DOLI's sub-contractor, LCF, and additional excavation performed for the wet tap work at the WWTP due to unforeseen surface conditions of the Westtown Pump Station force main that discharges into a manhole at the Authority's WWTP. After extensive review, comments, and negotiations, HRG is in agreement with the additional costs incurred by the sub-contractor for an amount of \$509.25. We will prepare and provide a formal Change Order (CO No. 3) recommendation for review for an increase in the Contract Price in the amount of \$509.25 for this Work.

The fourth Change Proposal that was submitted during the month of December was for a "Force Majeure" claim due to various events that occurred in the past year related to the PVC manufacturing industry. DOLI is requested additional payment for the increase of price of the 24" PVC piping from their supplier compared to their original quote at the time of bid. The Change Proposal was denied due to the Contract Documents specifically indicating that unforeseen natural events are a justification for an increase of the Contract time, but it does not warrant any increases in the Contract Price. In addition, the Change Proposal is also denied because it was submitted to the Engineer later than 30 days after the start of the event/events provided in the Change Proposal. Any additional correspondence on this subject will be provided to the Authority's Solicitor. The Contractor for IP-2 (North American Pipeline Services/NAP) has continued to perform the CIPP lining and to-date, has completed the lining work at the Washington Pump Station, at the Wastewater Treatment Plant, and the Industrial Park near Lincoln Ave. The remaining work includes CIPP lining of the section under the West Chester Bypass, as well as performing manhole rehabilitation. With the approval of the Authority, NAP has been working during the night hours while at the Industrial Park in order to minimize the disturbance to the Business Owners in the area. NAP is also significantly behind schedule and is beyond the original date of Substantial Completion (December 15, 2020).

We are recommending that the Authority approve the following:

- Application for Payment No. 2 for Contract IP-2 to North American Pipeline Services, LLC in the amount of \$82,551.60 for work completed through December 11, 2020.

Contracts TD-1 and TD-2: Trinity Drive Pump Station Improvements Project (007608.0459)

Work continues on-site with the replacement of the influent sewer. The Electrical Contractor is working on temporary relocation of the existing control and power wiring for the pump station. Mr. Moffa approved a change order (Change Order No. 1) for Contract TD-2 for an increase in the Contract Price of \$3,942.09 to complete this Work. Work will continue over the next month with replacement of the influent manhole, resetting of the wet well top slab, and piping between the wet well, valve vault, and force main.



We are recommending that the Authority approve the following:

- Application for Payment No. 4 for Contract TD-1 (General Construction) to PSI Pumping Solutions, Inc. in the amount of \$46,685.86 for work completed through December 15, 2020.

Other Projects/Tasks:

Pump Station Phase II Improvements (007608.0441):

Westtown Way Pump Station Upgrade

We have received the DEP WQM Part II permit and are finalizing the design package to prepare for public bidding. Work continues with the structural and electrical design as well as coordination with PECO on the changes to the primary service.

Taylor Run Pump Station Improvements

Work continues on the design modifications related to the discharge piping, overall site work, and electrical design.

Pump Station Phase III Improvements (007608.0460):

Design continues for all the pump stations within this contract. Permit packages for Washington Street and Montgomery Ave PS were completed and are filed until the time is right to proceed to align with the anticipated construction schedule. HRG plans to continue design efforts for the plans and documents for these pump stations with a focus on the Fern Hill Pump Station.

Cemetery Sewer Rehabilitation and ARV Replacement:

Design activities are on hold until HRG receives the information for the additional work to be incorporated into this Project.

Aeration System Improvement Project (007608.0453):

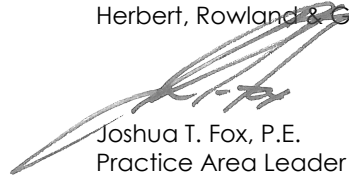
The Notice of Award has been issued and the Notice to Proceed has been issued for January 13 at which time a Preconstruction Conference will be held. The Owner procured blower and YSI instrumentation is on-site and ready for installation. HRG continues to work with OCC in preparation of the systems integration for

the coordination of the work with the SCADA improvements. Work is expected to begin with demolition of the DAF.

Please feel free to contact me if you have any questions regarding this report or other items.

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.

A handwritten signature in black ink, appearing to read 'J. T. Fox', is written over the company name.

Joshua T. Fox, P.E.
Practice Area Leader | Water & Wastewater

JTF
007608.0426

c: West Goshen Sewer Authority (w/encl.)
Casey LaLonde, Township Manager (w/encl.)
Dave Woodward, Public Works Director (w/encl.)
Mike Moffa, WWTP Superintendent (w/encl.)
File (w/encl.)