

ENGINEER'S REPORT

West Goshen Sewer Authority

APRIL 2, 2021

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) from February 25, 2021 through April 2, 2021:

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 (GC) has continued work on the installation of the mechanical components of the clarifiers, work on the COMAG/Tertiary Treatment Building with the pouring of the floors and setting of the Electric Room ceiling, completed selective demolition in the Dewatering Building, and started preparations for new work in the Dewatering Building. The temporary belt press has been approved and should be delivered on April 6.



The Electrical Contractor continues work in both the COMAG Building and Dewatering Building as is able based on the progress of the General Contractor's work.

The Mechanical Contractor continues to keep current with the work of the General Contractor and has been active in completing the drain replacement and extension work in the Dewatering Building. Two (2) Change Orders (Change Order No. 3 and No. 4) were approved by Mr. Moffa for completion of the additional work necessary to connect to the drain pipe outside of the Dewatering Building that was a different diameter, encased in concrete, and deteriorated beyond repair (\$4,837.00) and replacement of an additional 16 L.F. of deteriorated drain pipe in the Dewatering Building (\$4,485.00), respectively. These Change Orders are being submitted to the Authority for ratification of the approval.



The following change orders are being submitted for the Authority's review and consideration:

- Change Order No. 1 for Contract PR-18-1 for a decrease to the Contract Price in the amount of \$16,000 as required for Contract WWTP-19-1 to install 3-inch steel spacers for the Tertiary (COMAG) Clarifiers.
- Change Order No. 3 for Contract WWTP-19-1 for an increase to the Contract Price in the amount of \$16,000 for installation of 3-inch steel spacers for the Tertiary (COMAG) Clarifiers.

- Change Order No. 4 for Contract WWTP-19-1 for an increase to the Contract Price in the amount of \$16,744.13 and three (3) additional days for replacement of an existing section of non-potable water piping from the plant water pumps to the Contract Work. This was approved by the Board and will require ratification.

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

- Application for Payment No. 13 for Contract 19-1 (WWTP Phase 2 General Contract) to Blooming Glen Contractors, Inc. in the amount of \$288,025.83 for work completed through March 24, 2021.
- Application for Payment No. 7 for Contract WWTP-19-2 (WWTP Phase 2 Electrical Contract) to Brendan Stanton, Inc. (dba BSI Electrical) in the amount of \$ 21,600.00 for work completed through March 20, 2021.
- Application for Payment No. 4 for Contract 19-3 (WWTP Phase 2 Mechanical Contract) to CUICK Precision Solutions in the amount of \$61,613.25 for work completed through March 19, 2021.

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

The Contractor for Contract IP-1, DOLI Construction Corp. (DOLI), has not returned to the project site to complete the remaining restoration/punch list item work. A formal notice was submitted to DOLI on March 25, 2021 notifying them that the restoration work shall be completed within 30 days of the correspondence (April 24, 2021). If work is not completed within the 30 days, DOLI has been notified that Liquidated Damages would be assessed in the amount of \$125 for each day the contract has not been closed out after April 24, 2021. As of the date of this Report, HRG is still waiting for DOLI to submit a schedule for this remaining work.

The Contractor for Contract IP-2, North American Pipeline (NAP), completed the CIPP lining work this month. When attempting to complete the manhole rehabilitation work after the installation of the CIPP lining, the Contractor's bypass system failed, causing damage to the Washington Street Force Main. NAP did not have the capabilities to repair the damage, so the force main was repaired by Township Staff and Di Rocco Brothers, inc. Once all the costs associated with the repair are gathered, HRG will prepare and submit a formal Claim to the Contractor on behalf of the Authority and Township for reimbursement of these costs.

Prior to the closeout of Contract IP-2, the manhole rehabilitation work remains outstanding. The Contractor attempted to install the epoxy lining material on several of the manholes in the Project. The epoxy material was not properly prepared or installed in accordance with the Contract Specifications and Manufacturer requirements. HRG prepared and submitted a Defective Work Notice to NAP for the defective installations on March 11, 2021. Although there was no justification for the nonconforming work, NAP provided a response to HRG's Defective Work Notice on March 18, 2021 claiming that the work was, in fact, performed in accordance with the Contract Specifications and Manufacturer requirements. HRG was able to coordinate with the Manufacturer and a field inspection was performed by a Manufacturer Representative, NAP, HRG and Township Personnel on March 26, 2021. Through the physical inspection of the manholes, the Manufacturer Representative confirmed that each of the lining applications were defective and were not properly prepped or installed. The Manufacturer will be providing NAP with required procedures for each defective manhole to adequately remove defective materials and acceptably install the lining material. A Manufacturer Representative will also be onsite with NAP for the rehabilitation work to ensure that NAP will be following the Manufacturer requirements and procedures.

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

- Application for Payment No. 4 for Contract IP-2: Sanitary Sewer Rehabilitation (2019 Phase I Interceptor Repairs Project) to North American Pipeline Services, LLC in the amount of \$74,506.18 for work completed through March 15, 2021.
 - This recommendation includes a reduction in the amount of \$31,500.00 for liquidated damages associated with the Contractor surpassing Substantial Completion by 90 days.

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

The General Contractor (GC) and Electrical Contractor has completed all work with the exception of final restoration and complete start-up as well as the final power service change over, respectively. We anticipate that the work will be substantially complete by April 9, 2021.

Currently, the Project is past the Substantial Completion date of February 16, 2021. PSI (GC) has provided numerous claims for additional cost and time as a result of the force main alignment changes (as a result of incorrect locations of the existing force main in the Record Drawings), buried structure they encountered on the site, and weather delays. We are in the process of reviewing this information and are expecting to have a full verbal update at the Authority Meeting.

We are recommending that the Authority approve the following:

- Application for Payment No. 7 for Contract TD-1 (Trinity Drive Pump Station Improvements General Contract) to PSI Pumping Solutions, Inc. in the amount of \$ 48,548.41 for work completed through March 10, 2021.
- Application for Payment No. 4 for Contract TD-2 (Trinity Drive Pump Station Improvements Electrical Contract) to MJF Electrical Contracting, Inc. in the amount of \$15,984.00 for work completed through March 12, 2021.



Contracts WWTP-20-1 and WWTP-20-2: Aeration System Improvement Project (007608.0453):



The General Contractor has completed a majority of the work including installation of the blower, modifications to the existing piping, and preparation work with the new roll-up doors. The Electrical Contractor is behind but is expecting to have work completed in-time to meet the substantial completion deadline of May 13.

We are recommending that the Authority approve the following:

- Application for Payment No. 3 for Contract WWTP-20-1 (General Construction Contract) to CUICK Precision Solutions in the amount of \$31,440.05 for work completed through March 19, 2021.
- Application for Payment No. 2 for Contract WWTP-20-2 (Electrical Construction Contract) to MJF Electric in the amount of \$1,080.00 for work completed through March 12, 2021.

Other Projects/Tasks:

Pump Station Phase II Improvements (007608.0441):

Westtown Way Pump Station Upgrade

After receiving the DEP WQM Part II permit in late December, work to finalize the design package is under way to prepare the package for public bidding. Work continues with the mechanical, structural and

electrical design as well as coordination with PECO on the changes to the primary service. In the meeting on February 17th with WGSA, the status of the design was reviewed. On March 15th, a meeting with PECO confirmed the electrical service and gear upgrades to be submitted to PECO for approval. The electrical design is currently being updated in accordance with PECO feedback. HRG will continue to provide updates on the schedule for the final design drawings.

A meeting with East Goshen Township to review the scope and estimated construction cost was held on March 24 at the WWTP.

Taylor Run Pump Station Improvements

Work continues on the design modifications related to the discharge piping, overall site work, and electrical design. In the meeting on February 17th with WGSA, the design scope and the design completed to date were reviewed for this pump station. HRG will continue to provide updates on the schedule for the final design drawings.

Pump Station Phase III Improvements (007608.0460):

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 Fern Hill Pump Station at this time. In the meeting on February 17th with WGSA, the scope of the Fern Hill PS design was reviewed, and the design is pushing forward. HRG will continue to provide updates on the schedule for the final design drawings.

Cemetery Sewer Rehabilitation and ARV Replacement:

The project scope has been finalized and we are finalizing the drawings and bidding documents. We will conduct a final review with Township Staff, and we respectfully request the Authority's consideration to advertise the Project for public bids following the Township Staff's approval.

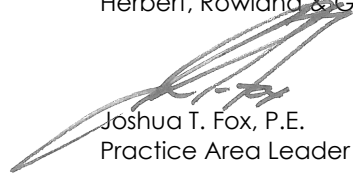
Phase II Interceptor Repairs Project:

HRG's sub-consultant has started the wetland delineation in the month of March and is anticipated to complete the work by the end of the first week in April. Subsequently, HRG's survey group has also started with collecting field survey information and anticipates completing the survey work by May 2021. Once the wetlands and field survey are completed, HRG can start to assemble the NPDES/GP Permit application packages. HRG and Township Personnel conducted field visits with each Property Owner where temporary easements will be required in order to explain the scope of the project and obtain their initial "buy-in" prior to the preparation of easement exhibits and legal descriptions. Overall, the Property Owners appear to cooperative and will provide the access that is required. HRG will begin preparing Legal descriptions and temporary easement exhibits then work with the Authority Solicitor to prepare the formal Easement Agreements.

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. Fox', is written over the printed name and title.

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.)