

## ENGINEER'S REPORT

### West Goshen Sewer Authority

APRIL 30, 2021

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) from April 2, 2021 through April 30, 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 completed an extensive amount of work in the Belt Filter Press Building over the past month. This work includes setting the polymer skids and tanks, temporary setting of the screw presses and sludge feed pumps, installed piping from through pump room, painting, and began work on the roof replacement. Work over the next month will include pouring concrete footers and pad for sludge dumpsters and overhead structure. Once complete, they will be able to assemble and hang the conveyor. All work on the COMAG Tertiary Building has stalled due to the defective work for the underperforming grout.

The Electrical Contractor (EC) continues work in the Belt Filter Press Building. Once complete, they will move over to the COMAG Building (once available). The EC is planning to continue work in the Belt Filter Press Building and will begin pulling conductors and fiber through the duct banks.

The Mechanical Contractor continues to keep current with the work of the General Contractor and is currently waiting for the roof to be completed on the Belt Filter Press Building to continue work.

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

- Change Order No. 4 for Contract WWTP-19-2 for an increase to the Contract Price in the amount of \$12,850.00 for installation of 120 connectors and 20 six (6) strand OSP fan out kits for the terminations of the fiber optic wires. This work was originally scheduled to be completed by the Authority's System's Integrator.



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

- Application for Payment No. 5 for Contract WWTP-19-3 (WWTP Phase 2 Mechanical Contract) to CUICK Precision Solutions in the amount of \$39,122.96 for work completed through April 23, 2021.

- Contract WWTP-19-1 did not have their application submitted in time for inclusion in the Treasurer's Report.

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

The Contractor for Contract IP-1, DOLI Construction Corp. (DOLI), has performed the restoration work at the WWTP and completed all punch-list items for this Contract. DOLI submitted the required Close Out Documents including the Final Adjusting Change Order (No. 4), as well as the Final Payment Application (Pay App No. 3) which includes the reduction in Contract Price from Change Order No. 4.

The Contractor for Contract IP-2, North American Pipeline (NAP) submitted their revised Corrective Action Plan (CAP) which outlined the procedures for repairing the defected epoxy liners that were previously installed. HRG confirmed that the procedures were in accordance with the Manufacturer's recommendations. NAP proceeded with preparing each manhole to be re-lined with epoxy. On April 22, 2021, a field meeting was held with NAP, HRG and a Sauereisen Representative to evaluate each manhole that NAP prepared to confirm that the proper procedures were followed. The Representative will be present on site for the first application of epoxy to approve the application method.

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

- Change Order No. 4 (Final) for Contract IP-1 for a decrease to the Contract Price in the amount of \$355.20 to adjust contract quantities to reflect actual installed quantities during construction.

We are recommending that the Authority approve the following application for payment after the execution of the Change Order No. 4:

- Application for Payment No. 3 (Final) for Contract IP-1: Sanitary Sewer Repairs (2019 Phase I Interceptor Repairs Project) to DOLI Construction Corporation in the amount of \$17,739.33 for work completed through April 16, 2021.

#### 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 punch list items. The pump station was started up on April 5, 2021 and is currently operational. However, there are issues with the programming and electrical wiring that is currently being worked on by OCC, PSI, and MJF Electric. The issues are expected to be addressed by May 7. We anticipate the pump station final paving be completed in full by next month's Authority meeting.

HRG has reviewed PSI's Request for Change Orders No. 2-4 and have provided a response for each. Change Order Requests were for additional time and money for force main realignment, unforeseen buried structure at the pump station site, and time associated with weather delays. We have provided a response to each denying No. 2 in its entirety, accepting No. 3, and approving No. 4 as partial. We recommend the approval of Change Order No. 2 which will result in an increase in the Contract Price for PSI in the amount of \$7,811.64 and 12 additional days.



We are recommending that the Authority approve the following:

- Application for Payment No. 8 for Contract TD-1 (Trinity Drive Pump Station Improvements General Contract) to PSI Pumping Solutions, Inc. in the amount of \$51,257.74 for work completed through April 20, 2021.
- Application for Payment No. 5 for Contract TD-2 (Trinity Drive Pump Station Improvements General Contract) to MJF Electrical Contracting, Inc. in the amount of \$27,994.00 for work completed through April 12, 2021.
- Application for Payment No. 2 for Trinity Drive Pump Station Pump Control Panel to Optimum Controls Corporation in the amount of \$32,479.55 for work completed through April 30, 2021.



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

Start-up of the blower and instrumentation was completed on April 28. During start-up it was identified that some of the control wiring was not installed. We expect that work to be promptly completed by MJF. Once completed, OCC can finalize the programming.

We are recommending that the Authority approve the following:

- Application for Payment No. 4 for Contract WWTP-20-1 (Aeration Basin Improvement Project General Contract) to CUICK Precision Solutions in the amount of \$8,830.25 for work completed through April 23, 2021.
- Application for Payment No. 3 for Contract WWTP-20-2 (Aeration Basin Improvement Project Electrical Contract) to MJF Electrical Contracting, Inc. in the amount of \$39,600.00 for work completed through April 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. The electrical design is currently being updated in accordance with PECO feedback. The design will be sent to PECO for review. HRG will continue to provide updates on the schedule for the final design drawings.

An HRG site visit occurred on April 27<sup>th</sup> to finalize some structural design elements.

##### 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 17<sup>th</sup> 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):

HRG plans to continue design efforts for the plans and documents for Fern Hill Pump Station at this time. In the meeting on February 17<sup>th</sup> 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:

We have finalized the drawings and bidding documents and conducted a final review with Township Staff on April 14, 2021. We respectfully request the Authority's consideration to advertise the Project for public bids in May 2021.

As requested, below is a summary of the scope changes that were included as a result of receiving the CFA grant:

1. Approx. 394 LF of additional 14-inch CIPP lining within the Cemetery.
2. Approx. 180 LF of additional 10-inch CIPP lining downstream of Spruce Ave PS FM (MH 852-5 to MH 852-4).
3. Rehabilitation of 16 manholes.
4. Increase from 2-inch ARV to 3-inch ARV for Washington Street PS FM ARV.
5. Remove Taylor Run PS ARV due to permitting and access restrictions (proposed on Interceptor Phase II (B)).

Total estimated Project costs is \$746,000; however, we have seen a significant variance in costs lately as a result of a combination of supply chain issues with resins and building materials.

### Phase II Interceptor Repairs Project:

The wetland delineation and field surveys have been completed and the basemapping for each project area has been created. We have started preparing the preliminary drawings and continue to work on the NPDES and GP Permit applications. Legal descriptions and exhibits are also being assembled for each of the Temporary Easements that will be required during construction.

Two additional areas are recommended to be added to the project scope after discussions with Township Staff. Both of these areas will involve difficult bypass operations and the existing facilities cross SR 202. HRG has prepared a Supplement for the Authority's review and consideration to include the additional sections as part of the Phase II Interceptor Repairs Project. The supplement will be presented at the May meeting.

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

Respectfully submitted,

Herbert, Rowland & Grubic, Inc.



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.)  
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