

ENGINEER'S REPORT

West Goshen Sewer Authority

February 26, 2021

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) from January 31, 2020 through February 24, 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, continued worked on the 24-inch tertiary effluent line until a conflict was discovered with other yard piping, and has started preparations for work in the Dewatering Building. The screw presses were delivered and stored on-site. HRG inspected the stored equipment and coordinated storage procedures with the manufacturer. Masonry work on the COMAG Building was slowed due to extremely cold temperatures, but has recently resumed. We anticipate that the walls of the COMAG Building will be completed by March 12. At that time, the under slab conduit should also be completed and the GC can prepare and pour the floor. Demolition of the Dewatering Building process equipment is expected to begin March 1 and continue through March. The GC takes over sludge dewatering responsibilities (equipment) on April 1.



The Electrical Contractor continues work on under slab conduit in the COMAG Building and will be complete when the GC is ready to pour the floor slab. They are also prepared to begin demolition work in the Dewatering Building on March 1.

The Mechanical Contractor continues to keep current with the work of the General Contractor.

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

- Application for Payment No. 12 for Contract 19-1 (General Construction) to Blooming Glen Contractors, Inc. in the amount of \$171,760.55 for work completed through February 22, 2021.
- Application for Payment No. 6 for Contract WWTP-19-2 (WWTP Phase 2 Electrical Contract) to Brendan Stanton, Inc. (dba BSI Electrical) in the amount of \$70,150.64 for work completed through February 20, 2021.



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

DOLI has not been able to provide an updated schedule for final restoration due to weather conditions, but the current tentative schedule for the restoration is during the "growing season" according to DOLI's project manager. We will continue to follow up with DOLI in order to obtain an updated schedule and have them complete the remaining work..

Contract IP-2 (North American Pipeline Services/NAP) has continued the manhole rehabilitation work at both the WWTP as well as the Industrial Park on Lincoln Ave. To date, NAP has epoxy lined 4 manholes (all at the WWTP) and have prepped 7 other manholes for applying the epoxy coating. No manholes have been tested to date. NAP intends to perform the Holiday Testing once all manholes have been epoxy lined. HRG has received, reviewed and approved NAP's submittal for the bypass operation that is required in order to line the remaining pipe segment underneath Route 202. NAP is currently installing the bypass piping and preparing to install the CIPP liner the week of March 1, 2021.

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

The General Contractor (GC) has completed all piping at the pump station site, coating of the wet well, and work in the valve vault and air release chamber. The GC is also preparing for the force main and tracer wire testing and replacement of the terminal force main manhole. There is much work to do by the Electrical Contractor in order to schedule and compete start-up of the pumps, grinder, and generator. The generator is ready to be delivered to the site as soon as the generator pad is completed.



Currently, the Project is past the Substantial Completion date of February 16, 2021. PSI (GC) has provided notice that they are making a claim for additional cost and time as a result of the buried structure they encountered on the site. No back-up information has been provided to quantify this change to-date.

We are recommending that the Authority approve the following:

- Application for Payment No. 6 for Contract TD-1 (Trinity Drive Pump Station Improvements General Contract) to PSI Pumping Solutions, Inc. in the amount of \$86,631.97 for work completed through February 11, 2021.
- Application for Payment No. 3 for Contract TD-2 (Trinity Drive Pump Station Improvements General Contract) to MJF Electrical Contracting, Inc. in the amount of \$4,050.00 for work completed through February 11, 2021.

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

The General Contractor continued work on site with demolition in preparation for the new roll-up door, sealed penetrations from demolition, and has prepared and poured the equipment pad for the blower. We are waiting on cancelled checks for the wastewater equipment in order to submit the first requisition to CFA.

We are recommending that the Authority approve the following:



- Application for Payment No. 2 for Contract WWTP-20-1 (General Construction Contract) to CUICK Precision Solutions in the amount of \$42,593.40 for work completed through February 22, 2021.
- Application for Payment No. 1 for Contract WWTP-20-2 (Electrical Construction Contract) to MJF Electric in the amount of \$5,760.00 for work completed through February 11, 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. HRG will continue to provide updates on the schedule for the final design drawings.

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:

HRG met with Township Staff on February 17, 2021 to discuss the priority list of known defects in the system. It appears that up to three (3) additional sections will be considered for inclusion in this Project. These sections have difficult access, are under major PennDOT roadways, and/or are directly downstream of a force main. HRG is working on revising our design and cost estimates to confirm if all of these sections can be included in the base scope. If these sections will appear to exceed the base scope based on our cost estimates, we can add the priority sections as alternate bid items. Once the final scope is identified, we will proceed with finalizing the drawings and contract documents for public bidding. We anticipate having this project ready for public bidding by April 2021.

Phase II Interceptor Repairs Project:

As stated in the previous months (January) Engineer's Report HRG developed a preliminary layout for the proposed bypass route have identified the temporary easements that will be required to perform the work. Due to the snow cover that was present throughout the month of February, the wetlands and site surveys have been delayed by a few weeks and have not been initiated this month. HRG anticipates that the survey groups will be able to begin during the first weeks on March. HRG along with the Township Staff will also conduct the initial communications with property owners where temporary access easements will be required. A meeting was held on February 17, 2021 between HRG and the Township Staff to review the scope of work for this contract.

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 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.)