

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from April 29 through June 1, 2018:

### Projects in Construction

#### Contracts 17-1 and 17-2: WWTP Headworks Improvement Project (007608.0440):

Contract 17-1 has completed the installation and start-up of the utility water pump system and demolition of the existing system. They have completed the installation of the new building addition support beam, second level concrete wall, and some masonry work on the existing building. They are in the process of preparing for the lift and setting of the grit tank, which is scheduled to be completed the week of June 4. Start-up of the grit system is scheduled for the week of June 25.



Grit System Addition

As of June 1, the Contract is 109 days behind schedule.

They are approximately 1 to 1 ½ weeks behind the schedule provided as a response to the Defective Work Notice issued on April 20, 2018. We will be scheduling a Progress Meeting prior to start-up of the Grit System to review the status of all of their scheduled tasks.

As previously discussed, we have requested costs for provision and installation of three (3) C-channel steel beams. One (1) to stiffen a concrete slab that requires partial removal, and two (2) that will be used for finish work on the cut existing masonry wall. No costs have been provided to-date.

We recommend that the Authority approve Application for Payment No. 13, as submitted by Walabax Construction Services, Inc., in the amount of \$118,556.20 for work completed through May 18, 2018 for Contract 17-1. We do not recommend withholding any additional retainage for liquidated damages for this payment application.

#### Contract 17-4: By-Pass Pump Station Connections (007608.0435):

The final pavement restoration and repairs to the driveway at the Westtown Way Pump Station is to be completed on June 1. Following satisfactory completion of this final item, the Project will be recommended to be closed and final payment issued at the Authority's July Meeting.

**2017 Sanitary Sewer System Repairs (007608.0436):**

The Contractor has completed all CIPP lining with the exception of the Route 100 section, due to wet conditions. This work is scheduled to be completed in July. ARV Manhole No. 1 for Westtown Way Force Main was installed and the installation of the ARV is scheduled to be completed within the next two weeks. Restoration and paving is underway and is expected to be completed in June. Manhole rehabilitation, the last major remaining item. We are awaiting a schedule from SWERP (subcontractor to DiRocco) for the manhole rehabilitation. HRG is in the process of reviewing the final CCTV inspections for the CIPP lining. A Defective Work Notice was issued for use of end seals that were not approved. We are awaiting final information from the Contractor to approve their proposed corrective actions.



Westtown Way Force Main ARV MH 1 Replacement

Job Conference No. 6 was held on May 16, 2018. A copy of the minutes are attached for your use.

The Contractor did not submit their final payment application prior to the cut-off.

**Contract Nos. 17-3, 17-6, and 17-7 Anaerobic Digester Replacement (007608.0433):**

Contract 17-3 has completed the excavation for the Primary Digester. The Primary Digester base slab was poured on June 1 and the wall panels are expected to be set on June 12. The waste flare is in the process of being temporarily relocated and a majority of the interior masonry has been completed.

Contract 17-6 has completed more than 50% of conduit installation and 40% of the demolition in the upper and lower levels of the Operations Building. They have also completed the installation of the LP panels and transformer in the Electrical Room. The Trystar Rotary Switch has been installed and the duct bank from the Chemical Building to the Admin Building has been completed.

Contract 17-7 has completed installation of the hot water service and return lines on the Upper Level of the Operations Building and have installed unit heaters 3, 4, 5, and 6.

Job Conference No. 4 was held on May 15, 2018. A copy of the minutes were posted to EADOCS.

We have requested pricing from the Contractors for the following changes in Work:

1. New drain location directly under the new boiler/heat exchanger to allow draining of the emergency pressure relief valve.



Primary Digester - Base Slab Reinforcing Steel

2. Installation of the larger louver required for the boiler/heat exchanger as identified during the submittal review process.

Risk items for changes in cost and/or contract time have been identified and are provided below:

1. The location of the existing SU/6 pipeline was identified by the Contractor to be a changed condition from that as shown on the Contract Drawings and request a Change Order for the work involved in the removal/reinstallation of this line. Actual costs are not known at this time.
2. Installation of additional firestop/fireproofing materials.
3. Installation of leveling pad for new flooring system in the Biogas Room and Operating Room. The existing grout beneath the quarry tile was approximately 3-inches deep.

We recommend that the Authority approve Application for Payment No. 5, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$214,398.90 for work completed through May 16, 2018 for Contract 17-3 (General Construction).

We also recommend that the Authority approve Application for Payment No. 3, as submitted by Garden Spot Electric, in the amount of \$104,557.50 for work completed through May 17, 2018 for Contract 17-6 (Electrical Construction).

Finally, we recommend that the Authority approve Application for Payment No. 2, as submitted by GEM Mechanical Services, Inc., in the amount of \$6,750.00 for work completed through May 18, 2018 for Contract 17-7 (Mechanical Construction).

**Contract Nos. 17-8 and 17-9: Enhanced Chemical Addition Project (007608.0432):**

Contract 17-8 has completed all equipment pads and containment curbing, installed the coatings system for the containment area, installed the hydrated lime system and associated working platform, and installed all of the chemical feed manholes and conduits. Work continues on installation of the chemical feed tubing, interior piping, and installation of the ortho-phosphate analyzer and pH probe. The chemical feed pumps are expected to be delivered on June 14.

Contract 17-9 has completed installation of approximately 65% of the interior conduit and are waiting on delivery of the Control Panels and VFDs for wiring.

We recommend that the Authority approve Application for Payment No. 4, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$53,761.50 for work completed through May 14, 2018 for Contract 17-8 (General Construction).

We also recommend that the Authority approve Application for Payment No. 2, as submitted by The Williams Group Electrical Contractors, in the amount of \$13,360.58 for work completed through May 15, 2018 for Contract 17-9 (Electrical Construction).



Hydrated Lime Mix System

85 percent of total will be submitted to the Department of Community and Economic Development for reimbursement upon confirmation of payment.

### **Other Projects/Tasks**

#### **Pump Station Phase II Improvements (007608.0442):**

Basemapping of the Trinity Drive Force Main and Downing Ave. Force Main was completed. Hydraulic calculations for Trinity Drive and Westtown Way have been completed. The screening study and wet well mixing evaluation for Westtown Way is in the process of being finalized. We anticipate meeting with Township Staff to review our recommendations within the next few weeks.

The Downing Ave. Pump Station (No. 10) WQM Part II Permit Application has been submitted and infiltration testing for the required stormwater BMPs is scheduled for June 7.

#### **WWTP Phase II Improvements / TMDL (007608.0442):**

SoftDig, a Subsurface Utility Engineering Company, was contracted to complete SUE Level A at the proposed connection points of the COMAG system following the final clarifiers. These elevations are critical for setting of the hydraulic profile for the proposed system. SoftDig also completed mark-outs of the utilities in the area(s) of the proposed facilities to proactively identify any conflicts that can be worked around, avoided, or removed, early in the design process. HRG survey was on-site to collect this information on May 31 and is currently being mapped in the existing WWTP basemapping prepared as part of the Digester Replacement Project.

Several alternatives for sizing of the replacement presses have been prepared. We are scheduled to review this information with the Township Staff on June 6.

A meeting with EPA and DRN to review the draft settlement agreement is being held on June 6. HRG has prepared a Total Nitrogen Reduction Optimization Memorandum based on modeled scenarios completed as part of the Total Phosphorus Reduction Evaluation Report and are in the process of completing a landscaping plan of the area between the WWTP and Goose Creek for use in discussions with DRN and EPA. Please refer to the Solicitor's Report for additional information on the status of the meeting.

#### **2018 Sanitary Sewer Repair Project:**

Topographic survey, basemapping, final design, and draft Contract Documents have been completed. The submission of the permit has been delayed over a month waiting for the outcome of the Bog Turtle Survey (Phase 1 Assessment). The Bog Turtle Survey has been completed and the results were negative for the presence of Bog Turtles. The General Permit will be submitted by June 4 and the legal description and easement exhibit will be prepared and forwarded to the Solicitor by June 7. DEP's current "permit guarantee" is 60 days from receipt of the application. Final Contract Documents are expected to be reviewed with Township Staff in the next few weeks in anticipation of a July bid date assuming the general permit is obtained.

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.  
Regional Service Group Manager

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.)
- Edward A. Ellinger, P.E., HRG (w/encl.)
- File (w/encl.)