

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from February 3 through March 2, 2018:

### **Projects in Construction**

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

Contract 17-1 has completed the relocation of the utility water line and begun excavation of the grit building addition. During excavation, a duct bank was located and later found to be inactive. Contract 17-2 has completed additional conduit runs and wiring for the floats and equipment related to the screening system; installed the gear box on the third screw pump; and has worked on the lighting. Full power switchover for the DH panel is scheduled for the morning of March 5.

Lakeside will be on-site the afternoon of March 5 and March 6 to complete the punchlist items for the screening system to completely run the system in automatic without getting faults/alarms.

A field meeting was held on February 21 with Walabax and Township Staff to review upcoming work, coordination of grit building addition and discuss scheduling.

We recommend that the Authority approve Application for Payment No. 10, as submitted by Walabax Construction Services, Inc., in the amount of \$153,363.60 for work completed through February 16, 2018 for Contract 17-1.

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

On February 28, the temporary by-pass pump system was put into place at the Westtown Way Pump Station and the forcemain was cut and the permanent valving for the isolation of the forcemain was installed, and on March 1 the manhole to provide access to the new valve was installed. All work for the Westtown Way Pump Station should be completed by the end of next week. Once this work is completed, we anticipate that the Contractor will request a substantial completion inspection for all Work.



Westtown Way PS New Isolation Valve

The Contractor utilized different methods for completion of the temporary by-pass pumping at the Westtown Way Pump Station so as a result, we are identifying if any credit is due back to the Authority.

Once confirmed, we will recommend a change order that includes the work completed to repair the influent sewer. The Contract is currently past the substantial completion date of February 28, 2018.

With all anticipated final costs, the Project is expected to come in approximately 1.05% over the Original Contract Price.

We recommend that the Authority approve Application for Payment No. 3 as submitted by Blooming Glen Contractors, Inc., in the amount of \$96,818.84 for work completed through February 20, 2018 for Contract 17-4.

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

The following work has been completed to-date:

- Spot Repair No. 1 on Caswallen Drive
- Spot Repair No. 3 on Oak Circle
- Installation of the 8-inch cleanout
- Spot Repair No. 4 on Isabel Lane
- Spot Repair No. 5 on Isabel Lane
- Spot Repair No. 6 on Spring Lane
- Spot Repair No. 7 on Spring Lane
- Spot Repair No. 9 on Paoli Pike
- Spot Repair No. 10 on Mallard Drive (Change Order No. 1)
- Manhole 326 Replacement



New Manhole 326

As discussed with WGT, HRG issued RFP No. 1, requesting costs to install a new air release manhole on the Westtown Way Pump Station forcemain due to the condition of the forcemain that was uncovered in the existing air release valve manhole. The RFP includes coating the forcemain in the air release valve manhole and abandoning it to reduce any further deterioration.

We recommend that the Authority approve Application for Payment No. 2, as submitted by DiRocco Brothers, Inc., in the amount of \$90,953.10 for work completed through February 9, 2018 for Contract 17-5.

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

Contract 17-3 has mobilized to the Project site and has completed the demolition of the existing aerobic digester, begun work on final cleaning and grit removal in the existing Secondary Anaerobic Digester, begun rough grading for the entrance improvements, and has begun coordination for selective process piping and building demolition. We agreed to utilize the allowance for unforeseen utilities to have a third party company come and mark out utilities (SUE Level B) along the proposed routes of the new RAS piping, conduit runs, gas service, and gravity drain. Marking is underway and once completed, HRG will survey and basemap the marked utilities for purposes of record drawings and use in future designs at the WWTP.

Job Conference No. 1 was held on February 21 at the WWTP and meeting minutes posted to EADOCS. A field coordination meeting for the proposed piping alignments was completed on February 28. Another field coordination meeting to discuss selective demolition and architectural finishes in the Operations Building is scheduled for the afternoon of March 7.

We continue to review submittals and response to RFIs. There have been over 20 clarifications provided and 15 memos for general project coordination made to date.

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

1. Revisions to the existing door (requests costs for modifications to existing and pricing for a new door) of the new electrical room to swing out. This is necessary as the proposed control panel is larger than what was initially proposed and the existing door would swing into it.
2. Asbestos abatement for approximately 20 L.F. of heating pipe insulation and 55 square feet of laboratory countertops.
3. New drain location directly under the new boiler/heat exchanger to allow draining of the emergency pressure relief valve.
4. Credit for replacing proposed glass lined ductile iron pipe to epoxy lined ductile iron pipe

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.



We recommend that the Authority approve Application for Payment No. 2, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$281,875.50 for work completed through February 28, 2018 for Contract 17-3 (General Construction).

We recommend that the Authority approve Change Order No. 1 for Contract 17-6 for a decrease in the Contract Price of 10,506.81 as a result in the change of materials to aluminum conduit from galvanized steel.

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

Submittals continue for both Contracts and Contract 17-8 has mobilized to the site with work on Contract 17-3. Work is not expected to begin until late March/early April. Approval of the chemical feed pumps submittal is awaiting resubmission from Contract 17-8.

We recommend that the Authority approve Application for Payment No. 1, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$10,800.00 for work completed through February 28, 2018 for Contract 17-8 (General Construction). 85 percent of total will be submitted to the Department of Community and Economic Development for reimbursement upon payment.

**Other Projects/Tasks**

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

We received flow meter data for Taylor Run and Trinity Drive Pump Stations and have set-up the flow monitoring spreadsheets for evaluation. The flow meter data collection should be completed by June 2018, once we receive data through the spring rains.

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

Work continues on the design layout of the building and equipment. Work on the hydraulic profile has also begun. We anticipate that our next progress meeting with WGT will be held before the April Authority meeting.

**CFA Small Water & Sewer Grant Application**

The CFA Small Water and Sewer Grant Application has been uploaded and submitted to the Commonwealth Financing Authority. The Authority expects to make their selections public at their July Board Meeting.

**Sewer Rate Study:**

A full verbal update will be provided at the Authority's Meeting by HRG's Financial Services Group.

**2018 Sanitary Sewer Repair Project:**

Wetland delineation and manhole inspections were completed the week of February 26. Weather pending, survey is expected to begin the week of March 5 for areas where sewer is proposed to be replaced.

**2017 Bond – Consulting Engineer's Report:**

A site visit to review the facilities not currently being upgraded or repaired is being coordinated with the Wastewater Superintendent. The final Report will be provided to the trustee by March 31 and will be presented to the Authority at the April Authority 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.  
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.)