

The following summarizes our recent activities performed on behalf of the West Goshen Sewer Authority (Authority) and West Goshen Township (Township) from March 31 through April 28, 2018:

Projects in Construction

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

Contract 17-1 has completed the installation of the utility water pump system, pouring of the lower level of the grit building addition, and installed the temporary scaffolding and jack support system to support the demolition of the headworks building exterior wall. The Contractor is expected to complete the backfill of the lower wall section, the forming and pouring of the intermediate wall section, and start-up of the utility water pump system within the next week.

Work remains more than 60 days behind the date of substantial completion and have fallen behind their last updated schedule as a result of not being on-site for several weeks during April. As a result, a defective work notice was issued and an updated schedule was requested. The updated schedule shows all work being completed by the end of June, which we believe is not a realistic deadline considering the amount of work remaining to be completed. Job Conference No. 11 will be scheduled to review the new schedule within the next two weeks.

We recommend that the Authority accept Change Order No. 2 for Contract 17-1. CO No. 2 includes furnishing and installing grating and support embedment(s) for gates and log stop floor openings, and furnishing and installing additional bypass discharge piping, valving, and insulation to support operations of the existing facilities. The Change Order includes an increase to the Contract Price of \$6,781.00 and provides an extension of time of 30 days for substantial completion.

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.



Grit System Addition

We recommend that the Authority approve Application for Payment No. 12, as submitted by Walabax Construction Services, Inc., in the amount of \$107,671.10 for work completed through April 18, 2018 for Contract 17-1.

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

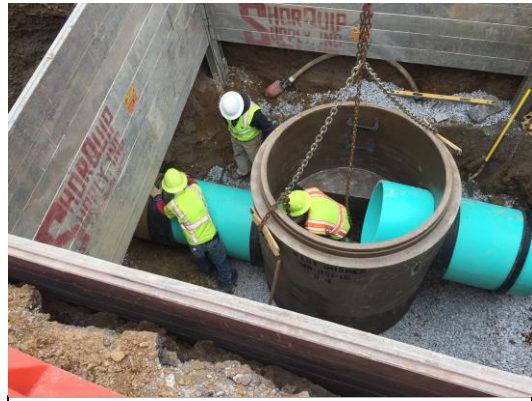
The Contactor has completed a majority of the punchlist items for final completion of the Contract. Final items includes site restoration work at Westtown Way Pump Station and general clean-up. Final Closeout Documents will be provided to the Authority at your June Meeting.

We recommend that the Authority approve Application for Payment No. 4, as submitted by Blooming Glen Contractors, Inc. in the amount of \$80,132.72 for work completed through March 20, 2018 for Contract 17-4 (BGC missed the application submission last month).

2017 Sanitary Sewer System Repairs (007608.0436):

The Contractor completed the installation of the 30-inch diameter CIPP interceptor liner on April 27. Work will continue over the next month with the installation of 8-inch CIPP liners and work on the air release valves.

We recommend that the Authority approve Application for Payment No. 4, as submitted by DiRocco Brothers, Inc., in the amount of \$91,620.00 for work completed through April 12, 2018 for Contract 17-5.



Old Westtown Road Manhole 801-16

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

Contract 17-3 has continued demolition of the secondary digester; completed demolition of secondary digester piping, suspended ceiling, quarry tile, masonry openings, and windows. They also completed installation of the natural gas piping, chemical feed manhole and piping, and installation of glass block windows for the Operations Building. They will continue with structure demolition of the Secondary Digester which is expected to be completed prior to the Authority's Meeting. Contract 17-3 will also complete interior masonry wall at the biogas room; masonry block in masonry at the door openings; begin excavation for new Primary Digester, and start base slab for Primary Digester.

Contract 17-6 completed demolition near flare and interior demo of digester building. They are planning to be on-site early May to begin conduit to chemical building and start work on the main power ductbank to digester building.

Job Conference No. 3 was held on April 18, 2018. Change Order No. 1 for Contract 17-3 was presented to the Wastewater Superintendent at Job Conference No. 3. Change Order No. 1 included a credit for replacing the glass lined ductile iron pipe with epoxy coated ductile iron, and an increase in the Contract Price for abatement of asbestos containing materials, realignment of the WAS line, and replacing the existing door that will be used for the new electric room (existing lavatory). The change order included an increase to the Contract Price in the amount of \$733.85. A copy of the minutes were posted to EADOCS and a copy of the Change Order is provided for your use. A field coordination meeting is scheduled for May 3 to review finishes with the painter.

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.

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. 4, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$155,655.00 for work completed through April 16, 2018 for Contract 17-3 (General Construction).

We also recommend that the Authority approve Application for Payment No. 2, as submitted by Garden Spot Electric, in the amount of \$13,500.00 for work completed through April 18, 2018 for Contract 17-6 (Electrical Construction).

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

Work has started on-site with installation of conduit, installation of containment curbing, and layout of the pump skids (3) equipment pads.

The Wastewater Superintendent executed Change Order No. 1 for Contract 17-9 (Electrical Construction) for provision of variable frequency drives (VFDs) to provide more refined dosing of hydrated lime at the various injection locations and modifications to the pump control panel for accommodating the new control. The estimated cost for VFDs is \$6,745.00.

We recommend that the Authority approve Application for Payment No. 3, as submitted by Eastern Environmental Contractors, Inc., in the amount of \$8,937.00 for work completed through April 16, 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 confirmation of payment.

Other Projects/Tasks

Pump Station Phase II Improvements (007608.0442):

Topographic survey of the Trinity Drive Force Main and Downing Ave. Force Main was completed. Basemapping should be completed within the next week. Hydraulic calculations for Trinity Drive and Westtown Way have begun and the screening study for Taylor Run and Westtown Way has also commenced. Several design items have been discussed and reviewed with Township Staff.

The Downing Ave. Pump Station (No. 10) WQM Part II Permit Application submission has been delayed to the expiration of the PNDI. Bald Eagle nesting is no longer an issue that needs to be worked around; however, we now need to obtain clearance for Phase 1 Bog Turtle Assessment. This work has been scheduled and is in the process of being completed. Additionally, electrical and storm water infiltration design continues towards completion of final design documents.

WWTP Phase II Improvements / TMDL (007608.0442):

Work continues on the design layout of the building, equipment, and hydraulic profile. Additional information was obtained by EVOQUA for use in incorporation of the preliminary design.

A meeting with EPA and DRN was held on April 25, 2018. Please refer to the Solicitor's Report for additional information on the status of the 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:

Topographic survey, basemapping, and preliminary design has been completed. The submission of the permits has been delayed by a month waiting for the outcome of the Bog Turtle Survey (Phase 1 Assessment). Once completed, the general permit will be submitted. Final documents are expected to be reviewed with Township Staff in May in anticipation of a June bid date.

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.)