

**EAST GOSHEN MUNICIPAL AUTHORITY**  
**December 11, 2017**

**7:00 PM – Regular meeting at Township Building**

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN’S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report Oct. & Nov.  
b. Pennoni Engineer’s Report Oct. & Nov.  
c. Big Fish Environmental Inc. Report Oct. & Nov

4. APPROVAL OF MINUTES

- a. October 9, 2017 – November meeting was cancelled

5. APPROVAL OF INVOICES

Pennoni Invoice #774874	\$ 1,999.75
Pennoni Invoice #774875	\$ 1,923.25
West Goshen Sewer Authority - Contracts 17-3, 17-6 & 17-7	\$1,025,569.70
West Goshen Sewer Authority – Contract 17-5	\$ 22,688.59
West Goshen Sewer Authority – capital expense	\$ 1,467.24
Gawthrop Greenwood #188016	\$ 800.00
Pennoni Invoice #776887	\$ 3,211.00
Pennoni Invoice #776888	\$ 1,484.75
Pennoni Invoice #776890	\$ 1,230.33

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. October Financial Report  
b. November Financial Report

8. OLD BUSINESS

- a. Consider Supplee Valley Pipe Lining Bids  
b. Pennoni Construction Phase Services Proposal Supplee Valley

9. GOALS

- a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, March, April, May, July, August*
- b. Continue to implement the formal Inflow (surface water) & Infiltration (ground water), (collectively "I&I") Plan to reduce the amount of I&I into the sewer system.
- c. Respond to capacity requests within 45 days.
- d. Develop an operation manual for Ridley Creek Sewer Treatment Plant and pump stations. *Currently under review by staff. Completed on August 7, 2017*
- e. Submit topical articles of interest for the East Goshen newsletter. *May*
- f. Attend West Goshen Municipal Authority meetings to keep informed of planned capital expenditures and operation compliance. *January, February, March, April, May, June, July, August, September, October, November.*

**Annual Planning Session will be held on Saturday January 6, 2018 at 8:00 am**

10. NEW BUSINESS

- a. Consider 2018 Budget
- b. Consider 2018 Legal Services - Gawthrop, Greenwood, PC
- c. Ashbridge Pumping Station Force Main Evaluation
- d. Consider the approval of Resolution NO#34
- e. Consider 2018 Engineering Services - Pennoni

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

EAST GOSHEN MUNICIPAL AUTHORITY  
EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

November 8, 2017

To: Municipal Authority  
From: Mark Miller  
Re: October 2017 Monthly Report

**Monthly Flows:** The average daily flow to West Goshen was 657,000 gallons per day.

**Meters:** Meters were read on a daily basis with no problems to report.

**C.C. Collection:** The pump stations were visited on a daily basis. As you know the force main blew apart (see photos).

The pipe has no bedding, this is the second break. I think this is going to be an on- going problem. I would recommend we look into replacing the line. I would like to explore pipe bursting.

We repaired 8 laterals for broken cleanouts and missing caps.

We also televised and cleaned the following developments: 15,500 LF  
Mill Valley  
Hadliegh Drive  
Killhern Lane  
Eastwick Circle  
Culberson Circle

We located 3 broken laterals in the Waterview Development. We also located roots in the lines.

**R.C. Collection:** Pump Stations were visited on a daily basis with no problems to report.

**R.C. Plant:** Routine maintenance was performed by the Public Works Department, no problems to report.

**Lateral Insp.**

**INI:**

**Alarms:**

We responded to 26 alarms for October

**PA One Calls:**

We received 68 PA One calls in October



EAST GOSHEN MUNICIPAL AUTHORITY  
EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

December 8, 2017

To: Municipal Authority  
From: Mark Miller  
Re: November 2017 Monthly Report

**Monthly Flows:** The average daily flow to West Goshen was 653,000 gallons per day.

**Meters:** Meters were read on a daily basis with no problems to report.

**C.C. Collection:** We completed the roadway restoration from the broken force main.

**R.C. Collection:** We experienced a problem with the power at the Hershey Mill Pump Station, the day before Thanksgiving. In order to get us through the weekend we rented a generator. Our main controller for our generator was taken apart and repaired on the following Tuesday. The station generator was put back in service on Thursday. The Public Works Department cleaned the sewer line on Bell Flower Lane and Talmadge Drive.

We had requests to repair sewer caps on both systems. Repairs were made the same day we were notified.

**R.C. Plant:** Routine maintenance was performed by the Public Works Department, no problems to report.

**Lateral Insp.**

**INI:**

**Alarms:** We responded to 14 alarms for November

**PA One Calls:** We received 47 PA One calls in November















**EAST GOSHEN MUNICIPAL AUTHORITY  
ENGINEER'S REPORT  
November 8, 2017**

**Invoices**

- Invoices with summaries are provided under separate cover.

**Multi-Year Capital Planning**

- We have considered prioritization of upcoming sewer system capital improvement projects with Public Works including:
  - Supplee Valley Sewer System Pipe Lining
  - Barkway Pump Station Muffin Monster
  - Ashbridge Pump Station Force Main Rehabilitation
  - Tallmadge Drive Sewer Main Replacement
  - RCSTP SBR Tank Coatings
  - RCSTP Caustic Soda Treatment (pending outcome of pilot study)
  - Waterview Sewer System Rehabilitation
  - Hunt Country Pump Station Muffin Monster

**Ridley Creek Sewage Treatment Plant (RCSTP)**

- Caustic soda pilot study –
  - In order to progress the project, a meeting was conducted on October 13 at the RCSTP with Mark Miller, Mike Ellis and Matt McAloon (Pennoni), and Scott Towler (Big Fish). The scope of the pilot study was agreed upon. We also separately confirmed the control system scope with the Township's controls consultant.
  - We previously calculated the estimated caustic soda feed rate to be 5-6 gallons/hour when the pilot study SBR tank is in a Fill cycle. We previously recommended a 7.7-gallon/hour pump be acquired for the study. We have obtained pricing for a larger  $\pm 12.5$  gallon/hour pump as requested by the Municipal Authority in the event the recommended pump is found to be inadequate during the trial. Two 350-gallon totes should allow for a 2.5-3 week trial.
  - A pilot study sampling plan was previously requested from Big Fish, and we are awaiting a response. *No update since our last report.*
  - Vendor information will be provided for the Township to purchase the above referenced  $\pm 12.5$  gallon/hour pump. We will coordinate with the chemical company to schedule delivery of the two caustic soda totes. Upon receipt of the pump, installation of the sample tap on the SBR influent pipe, and delivery of the totes, the pilot study can begin.
- SBR tanks CIM coatings – We finalized the structural investigation report and evaluated questions from the October Municipal Authority meeting. The report and question responses will be submitted separately.
- Filter feed pumps – We performed a cursory evaluation of the issues with the filter feed pumps preventing the pumps from alternating. There appeared to be an issue with the controls that was going to be investigated further by the Township and/or a contractor.

### **Reservoir Road Pump Station**

- We have received all permits. The bid document will be finalized to incorporate the recently issued Army Corps of Engineers permit, and a final set of plans and specifications will be provided to the Township for their files. *No update since our last report.*
- A listing of the permits, expiration dates, and renewal deadlines will also be provided. *No update since our last report.*

### **RCSTP and Pump Stations' O&M Manual**

- Completed. We recommend the Manual be revisited in July-August 2018 to determine if updates are needed and/or if new information has become available to incorporate. *No update since our last report.*

### **Supplee Valley Pipe Lining**

- Bids were received for the project, and we submitted a bid tabulation and award recommendation letter. If a construction award is made at the November Municipal Authority meeting, we anticipate construction will occur in January 2018, weather permitting.

### **White Chimneys Manhole Lining**

- We completed a 1-year warranty visual observation of the manholes that were lined in 2016 in White Chimneys and along Cornwallis Drive. No deficiencies were observed with the liners. However, apparent sulfuric acid (from hydrogen sulfide) is present on the liners near the bottoms of some of the manholes. We have recommended that the Public Works Department clean those liners. *No update since our last report.*

### **Barkway Pump Station Grinder**

- We initiated preparation of design and plan preparation for addition of a Muffin Monster to the pump station. We also coordinated equipment and alternatives with the vendor. A design meeting at the site is scheduled for November 9 with Pennoni, Watermark (vendor), and Mark Miller to determine whether the Muffin Monster will be installed in the existing wet well vs. a new prefabricated manhole and powered via hydraulic power pack vs. electric motor.

### **Ashbridge Pump Station Force Main**

- We evaluated initial alternatives and strategies to investigate and repair or replace the force main due to repeated damage and leaks. An "Ashbridge Pumping Station Force Main Evaluation" outline of initial considerations was submitted on November 8.

### **Tallmadge Drive Sewer Main Replacement**

- We performed a field survey of the gravity sewer system along Tallmadge Drive, and we initiated preparation of design and plans for replacement of the severely sagged sewer main and adjacent manholes.

### **New Connections**

- Knauer Property, 1680 East Boot Road – We reviewed a second revised plan submission for additional sewer piping on-site to convey wastewater from additional on-site facilities through the previously approved laterals. Comments were provided to the Township.

- Applebrook Golf Course Learning Center – We reviewed multiple plan and design report submissions for installation of a grinder pump for the proposed building. The grinder pump is proposed to tie into an existing, unused force main on the golf course property. Comments were provided to the Township.
- 1405 Wexford Circle – We reviewed the Sewage Facilities Planning Module and proposed onlot sewage treatment facility plan for replacement of a failed septic system, and we submitted comments and questions to the Township.

**West Goshen Sewer System Consultation**

- No activity since last report.

**EAST GOSHEN MUNICIPAL AUTHORITY  
ENGINEER'S REPORT  
December 8, 2017**

**Invoices**

- Invoices with summaries are provided under separate cover.

**Ridley Creek Sewage Treatment Plant (RCSTP)**

- Caustic soda pilot study – The vendor quote was provided to the Township to purchase a  $\pm 12.5$  gallon/hour chemical feed pump. We will coordinate with the plant's current chemical provider to schedule delivery of the two caustic soda totes, which are expected to provide for a 2.5-3 week trial. Upon receipt of the pump, installation of the sample tap on the SBR influent pipe, and delivery of the totes, the pilot study can begin.
- SBR tanks CIM coatings – The finalized structural investigation report and responses to previous Authority questions were submitted on November 10.

**Reservoir Road Pump Station**

- We have received all permits. The bid document will be finalized to incorporate the recently issued Army Corps of Engineers permit, and a final set of plans and specifications will be provided to the Township for their files. *No update since our last report.*
- A listing of the permits, expiration dates, and renewal deadlines will also be provided. *No update since our last report.*

**RCSTP and Pump Stations' O&M Manual**

- Completed. We recommend the Manual be revisited in July-August 2018 to determine if updates are needed and/or if new information has become available to incorporate. *No update since our last report.*

**Supplee Valley Pipe Lining**

- Bids were received for the project, and we submitted a bid tabulation and award recommendation letter. If a construction award is made at the December Municipal Authority meeting, we anticipate construction will occur in February-March 2018, weather permitting.

**Barkway Pump Station Grinder**

- We attended a field scoping meeting at the pump station on November 9 with Mark Miller and the Muffin Monster vendor, Mark Wolff of Watermark Environmental Systems. The recommended solution is to install the Muffin Monster within the existing wet well (rather than in a new prefabricated upstream manhole as previously considered) with the hydraulic power pack (HPP) and controls inside of the building. The vendor confirmed that a hydraulically powered Muffin Monster will fit within the existing wet well, so this solution is recommended because it is less expensive and there will be no noise issues with the HPP located inside. However, due to the size of the existing building, the HPP is expected to create slight



encroachments of a few equipment clearance distances as per current codes. We have submitted a sketch of the proposed HPP and Muffin Monster control panel layout for review by the Township's electrical inspector. If deemed acceptable, the design will be finalized.

#### **Ashbridge Pump Station Force Main**

- We evaluated initial alternatives and strategies to investigate and repair or replace the force main due to repeated damage and leaks. An "Ashbridge Pumping Station Force Main Evaluation" outline of initial considerations was submitted on November 8.
- We researched the Township's historical files on the force main construction thereafter, particularly in an effort to identify locations and depths of rock. It appears that rock blasting was performed along nearly the entire extents of the force main on Edith's Way and Williams Way. We prepared the attached two sketches; one of which summarizes our findings regarding rock and the second of which provides recommended soft dig test pit locations to determine the extent of rocky backfill conditions.
- We anticipate the test pits can be performed by a contractor in two working days. Following the test pits, a determination can be made as to the extent of force main that should be repaired or replaced.

#### **Tallmadge Drive Sewer Main Replacement**

- We prepared an existing conditions plan of the roadway and sanitary sewer based on our field survey, and we reviewed the Township's sewer videos. A portion of the sewer has a severe sag, and we have identified the approximate extent of repair required; however, additional televising may be needed to determine with certainty. At this time, we are tentatively recommending that only the sag be repaired/replaced. Two other alternatives would be to: (1) replace the full length of pipe from manhole-to-manhole to provide a consistently sloped pipe for the entire run, and (2) to replace that full length of pipe plus the next downstream sewer run and the intermediate manhole in order to improve the very flat slope of the subject pipe.

#### **New Connections**

- Applebrook Golf Course Learning Center – We reviewed another revised design submission for installation of a grinder pump for the proposed building, and found that all sewer-related design comments were adequately addressed. The grinder pump is proposed to tie into an existing, unused force main on the golf course property.

#### **West Goshen Sewer System Consultation**

- No activity since last report.



**RCSTP Monthly Operations  
Report:  
October 2017**

**Executive Summary**

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations during the month of September 2017. Discharge to Applebrook continued during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

**Treatment Process Operation**

The total phosphorus monthly average was reported as 0.34 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.24 to 0.44 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.10 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.10 mg/L. The total suspended solids (TSS) monthly concentration was reported as 4 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 8 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 1 illustrates the final effluent composite sample data reported for the September 2017 DMR. Discharge to Applebrook, Outfall 002 was 4.657 million gallons during September.

**Table 1**

<b>September 2017 - Final Effluent - Out Fall 001</b>											
<b>NPDES Permit Discharge Limitations</b>	<b>Flow</b>	<b>CBOD<sub>5</sub></b>		<b>TSS</b>		<b>NH<sub>4</sub>-N</b>		<b>Phosphorus, Total , mg/L</b>		<b>Fecal Coliform</b>	
	<b>MGD Average</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>Geo Mean</b>	<b>Geo Mean</b>
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	<b>Instantaneous Maximum</b>	40		42							
<b>Sample Date</b>											
September 5, 2017	0.198	2.0	3.3	1	1.7	0.122	0.20	0.24	0.40	1	0.0000
September 12, 2017	0.123	2.8	2.9	3	3.1	0.100	0.10	0.44	0.45	1	0.0000
September 19, 2017	0.163	2.4	3.3	2	2.7	0.100	0.14	0.31	0.42	4	0.6021
September 26, 2017	0.162	2.0	2.7	8	10.8	0.100	0.14	0.36	0.49	1	0.0000
<b>Average</b>	<b>0.162</b>	<b>2.3</b>	<b>3.0</b>	<b>4</b>	<b>4.6</b>	<b>0.106</b>	<b>0.14</b>	<b>0.34</b>	<b>0.44</b>	<b>1</b>	<b>0.1505</b>
<b>Minimum</b>	<b>0.123</b>	<b>2.0</b>	<b>2.7</b>	<b>1</b>	<b>1.7</b>	<b>0.100</b>	<b>0.10</b>	<b>0.24</b>	<b>0.40</b>	<b>1</b>	<b>0.0000</b>
<b>Maximum</b>	<b>0.198</b>	<b>2.8</b>	<b>3.3</b>	<b>8</b>	<b>10.8</b>	<b>0.122</b>	<b>0.20</b>	<b>0.44</b>	<b>0.49</b>	<b>4</b>	<b>0.6021</b>



**RCSTP Monthly Operations  
Report:  
October 2017**

The monthly average influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations. Composite samples are collected at the influent doghouse manhole and influent wet well. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

Table 2 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during September 2017.

**Table 2**

<b>September 2017 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
September 5, 2017	0.339	217	614	429	1,213	29.5	83.4	46.7	132	8.1	22.9
September 12, 2017	0.328	159	450	255	721	35.1	96.0	49.4	135	7	19.8
September 19, 2017	0.340	233	659	450	1,272	37.8	107	75.1	213	8.1	22.9
September 26, 2017	0.525	222	628	294	831	26.9	118	14.5	63	5.6	15.8
Average	0.383	208	587	357	1,009	32.3	101	46.4	136	7.2	20.4
Minimum	0.328	159	450	255	721	26.9	83.4	14.5	63	5.6	15.8
Maximum	0.525	233	659	450	1,272	37.8	118	75.1	213	8.1	22.9

Table 3 presents the data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 remained within compliance with the NPDES permit.

Table 4 presents the available Outfall 001 final effluent data for the month as of October 12, 2017. Continued maintenance activities of cleaning the alum static mixer injector, flushing of the alum chemical piping to the SBRs and weekly draining and cleaning of the disc filters. The alum feed to the SBRs was frequently increased to improve the total phosphorus removal.

The facility is anticipated to achieve compliance with the discharge permit limitations during the month of October.





**RCSTP Monthly Operations  
Report:  
October 2017**

**Table 3**

<b>September 2016 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
September 5, 2017	0.0813	2.0	1.4	1.0	0.7	0.12	0.08	0.24	0.16	1	0.000
September 12, 2017	0.1702	2.8	4.0	3.0	4.3	0.10	0.14	0.44	0.62	1	0.000
September 19, 2017	0.1604	2.4	3.2	2.0	2.7	0.10	0.13	0.31	0.41	4	0.602
September 26, 2017	0.1866	2.0	3.1	8.0	12	0.10	0.16	0.36	0.56	1	0.000
Average	0.1735	2.3	2.9	3.5	5.0	0.11	0.13	0.34	0.44	2	0.1505
Minimum	0.0813	2.0	1.4	1.0	0.7	0.10	0.08	0.24	0.16	1	0.0000
Maximum	0.1866	2.8	4.0	8	12	0.12	0.16	0.44	0.62	4	0.6021

**Table 4**

<b>October 2017 - Final Effluent - Out Fall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
<b>Sample Date</b>											
October 3, 2017	0.146	2.0	2.4	5	6.1	0.191	0.23	0.26	0.32	1	0.0000
October 10, 2017	0.176	2.0	2.9	5	7.3	0.100	0.15	0.27	0.40	3	0.4771
October 17, 2017	0.160	2.0	2.7	4.000	5.3	0.119	0.16	0.20	0.27	3	0.4771
October 24, 2017	0.171							0.30	0.43		
Average	0.163	2.0	2.7	5	6.3	0.137	0.18	0.26	0.35	2	0.3181
Minimum	0.146	2.0	2.4	4	5.3	0.100	0.15	0.20	0.27	1	0.0000
Maximum	0.176	2.0	2.9	5	7.3	0.191	0.23	0.30	0.43	3	0.4771

There are no anticipated exceedances of the permitted limitations for Outfall 001 for October 2017. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.



**RCSTP Monthly Operations  
Report:  
October 2017**

During October, the presence of foam conditions on the surface of the SBRs remained similar in color and thickness as during September. Foam concentrations ranged from 50% to 70% of the area. As the water temperature within the SBRs begins to lower from 20°C to around 10 °C, coupled with lower food to mass ratios, foam concentrations historically increase as a result of increased filamentous growth. Management of the food to mass ratio assists to manage the foam concentrations.

Table 5 presents the available October data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 are anticipated to remain within compliance with the NPDES permit.

**Table 5**

<b>October 2016 - Applebrook - Out Fall 002</b>											
<b>NPDES Permit Discharge Limitations</b>	<b>Flow</b>	<b>CBOD<sub>5</sub></b>		<b>TSS</b>		<b>NH<sub>4</sub>-N</b>		<b>Phosphorus, Total , mg/L</b>		<b>Fecal Coliform</b>	
	<b>MGD Average</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>Geo Mean</b>	<b>Geo Mean</b>
	<b>0.75</b>	<b>20</b>	<b>125</b>	<b>21</b>	<b>131</b>	<b>7</b>	<b>44</b>	<b>0.5</b>	<b>3</b>	<b>200</b>	<b>1,000</b>
	<b>Instantaneous Maximum</b>	<b>40</b>		<b>42</b>							
<b>October 3, 2017</b>	0.1460	2.0	2.4	5.0	6.1	0.19	0.23	0.26	0.32	1.000	0.000
<b>October 10, 2017</b>	0.1560	2.0	2.6	5.0	6.5	0.10	0.13	0.27	0.35	3.000	0.477
<b>October 17, 2017</b>	0.1342	2.0	2.2	4.0	4.5	0.12	0.13	0.20	0.22	3.000	0.477
<b>October 24, 2017</b>	0.1492							0.30	0.37		
<b>Average</b>	<b>0.1417</b>	<b>2.0</b>	<b>2.4</b>	<b>4.7</b>	<b>5.7</b>	<b>0.14</b>	<b>0.17</b>	<b>0.26</b>	<b>0.32</b>	<b>2</b>	<b>0.3181</b>
<b>Minimum</b>	<b>0.1342</b>	<b>2.0</b>	<b>2.2</b>	<b>4.0</b>	<b>4.5</b>	<b>0.10</b>	<b>0.13</b>	<b>0.20</b>	<b>0.22</b>	<b>1</b>	<b>0.0000</b>
<b>Maximum</b>	<b>0.1560</b>	<b>2.0</b>	<b>2.6</b>	<b>5</b>	<b>6.5</b>	<b>0.19</b>	<b>0.23</b>	<b>0.30</b>	<b>0.37</b>	<b>3</b>	<b>0.4771</b>

Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during October 2017.

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service during September and October. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.





**RCSTP Monthly Operations  
Report:  
October 2017**

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. Soda ash assists towards maintaining SBR pH concentrations above 7.0 standard units and assists to replenish alkalinity consumed during the nitrification process and aluminum sulfate solution addition.

**Table 6**

<b>October 2017 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
October 3, 2017	0.458	258	986	568	2,171	39.2	150	69.5	266	8.3	31.7
October 10, 2017	0.502	140	535	93	356	34.8	146	38.2	160	4.4	16.8
October 17, 2017	0.405	268	1,025	556	2,126	32.7	111	37.4	126	5.4	20.6
October 24, 2017	0.359										
Average	0.431	222	849	406	1551	35.6	135	48.4	184	6.0	23.1
Minimum	0.359	140	535	93	356	32.7	111	37.4	126	4.4	16.8
Maximum	0.502	268	1,025	568	2171	39.2	150	69.5	266	8.3	31.7

**Significant Storm/Hydraulic Loading Events**

During October, there were three (3) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24-hour period. A total of 4.93 inches of rainfall measured during the month. These events occurred on:

October 9 <sup>th</sup>	0.97 inches
October 24 <sup>th</sup>	0.55 inches
October 30 <sup>th</sup>	2.33 inches

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reading aeration minutes per cycle, extending decant minutes per cycle and reducing settling times. The facility experienced several filled decant cycles during the rain events, however, final effluent water quality was maintained.



**RCSTP Monthly Operations  
Report:  
October 2017**

**PA DEP**

No activity.

**Flow data:**

October 2017			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	14.000	451,622	608,070
Influent Wastewater to SBRs	13.106	422,766	575,424
Internal Recycle	0.377	12,161	65,468
Treated Effluent to Disc Filters	13.050	420,963	535,296
Final Effluent Discharge	5.427	475,065	248,000
Applebrook Golf Course	4.682	151,021	179,816

**Minor Preventative Maintenance**

Flushed chemical feed lines to the SBRs.

Cleaned piping within SBR building

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

**Look Ahead Preventative Maintenance Activities**

Overhaul centrifuge drive gear boxes and evaluation of bearings for replacement.  
Gathering information for parts.

Deckman Electric is rebuilding filter feed pumps



**RCSTP Monthly Operations  
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October 2017**

Purchase submitted for fine screen parts

Purchase submitted for LDO probes and controls for SBRs





**RCSTP Monthly Operations  
Report:  
November 2017**

### Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations during the month of October 2017. Discharge to Applebrook continued during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

### Treatment Process Operation

The total phosphorus monthly average was reported as 0.27 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.20 to 0.31 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.14 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.19 mg/L. The total suspended solids (TSS) monthly concentration was reported as 4 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 5 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 1 illustrates the final effluent composite sample data reported for the October 2017 DMR.

**Table 1**

<b>October 2017 - Final Effluent - Out Fall 001</b>											
<b>NPDES Permit Discharge Limitations</b>	<b>Flow</b>	<b>CBOD<sub>5</sub></b>		<b>TSS</b>		<b>NH<sub>4</sub>-N</b>		<b>Phosphorus, Total , mg/L</b>		<b>Fecal Coliform</b>	
	<b>MGD Average</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>mg/L</b>	<b>lbs/ month</b>	<b>Geo Mean</b>	<b>Geo Mean</b>
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	<b>Instantaneous Maximum</b>	40		42							
<b>Sample Date</b>											
October 3, 2017	0.146	2.0	2.4	5	6.1	0.191	0.23	0.26	0.32	1	0.0000
October 10, 2017	0.176	2.0	2.9	5	7.3	0.100	0.15	0.27	0.40	3	0.4771
October 17, 2017	0.160	2.0	2.7	4	5.3	0.119	0.16	0.20	0.27	3	0.4771
October 24, 2017	0.171	2.7	3.9	2	2.9	0.171	0.24	0.30	0.43	2	0.3010
October 31, 2017	0.206	3.0	5.2	5	8.6	0.206	0.35	0.31	0.53	5	0.6990
<b>Average</b>	<b>0.172</b>	<b>2.3</b>	<b>3.0</b>	<b>4</b>	<b>5.4</b>	<b>0.145</b>	<b>0.20</b>	<b>0.26</b>	<b>0.35</b>	<b>2</b>	<b>0.3138</b>
<b>Minimum</b>	<b>0.146</b>	<b>2.0</b>	<b>2.4</b>	<b>2</b>	<b>2.9</b>	<b>0.100</b>	<b>0.15</b>	<b>0.20</b>	<b>0.27</b>	<b>1</b>	<b>0.0000</b>
<b>Maximum</b>	<b>0.206</b>	<b>3.0</b>	<b>3.9</b>	<b>5</b>	<b>7.3</b>	<b>0.191</b>	<b>0.24</b>	<b>0.30</b>	<b>0.43</b>	<b>3</b>	<b>0.4771</b>



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Table 2 illustrates the final effluent composite sample data reported for the October 2017 DMR. Discharge to Applebrook, Outfall 002 was 4.682 million gallons during September.

**Table 2**

<b>October 2017 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
October 3, 2017	0.1460	2.0	2.4	5	6.1	0.19	0.23	0.26	0.32	1	0.0000
October 10, 2017	0.1560	2.0	2.6	5	6.5	0.10	0.13	0.27	0.35	3	0.4771
October 17, 2017	0.1342	2.0	2.2	4	4.5	0.12	0.13	0.20	0.22	3	0.4771
October 24, 2017	0.1492	2.7	3.4	2	2.5	0.17	0.21	0.30	0.37	2	0.3010
October 31, 2017	0.1568	3.0	3.9	5	6.5	0.21	0.27	0.31	0.41	5	0.6990
Average	0.1417	2.2	2.7	4	4.9	0.15	0.18	0.26	0.32	2	0.3138
Minimum	0.1342	2.0	2.2	2	2.5	0.10	0.13	0.20	0.22	1	0.0000
Maximum	0.1568	3.0	3.9	5	6.5	0.21	0.27	0.31	0.41	5	0.6990

The monthly average influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations. Composite samples are collected at the influent doghouse manhole and influent wet well. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

Table 3 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during October 2017.



**RCSTP Monthly Operations  
Report:  
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**Table 3**

<b>October 2017 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
October 3, 2017	0.458	258	986	568	2,171	39.2	150	69.5	266	8.3	31.7
October 10, 2017	0.502	140	535	93	356	34.8	146	38.2	160	4.4	16.8
October 17, 2017	0.405	268	1,025	556	2,126	32.7	111	37.4	126	5.4	20.6
October 24, 2017	0.359	204	780	218	833	45.6	136	48.1	144	7.0	26.8
October 31, 2017	0.408	200	765	166	635	31.1	106	34.2	116	4.1	15.7
Average	0.427	214	832	359	1372	36.7	136	45.5	174	6.3	24.0
Minimum	0.359	140	535	93	356	31.1	111	34.2	126	4.4	16.8
Maximum	0.502	268	1,025	568	2171	45.6	150	69.5	266	8.3	31.7

Table 4 presents the available Outfall 001 final effluent data for the month as of October 12, 2017. Continued maintenance activities of cleaning the alum static mixer injector, flushing of the alum chemical piping to the SBRs and weekly draining and cleaning of the disc filters. The alum feed to the SBRs was frequently increased to improve the total phosphorus removal.

The facility is anticipated to achieve compliance with the discharge permit limitations during the month of October.





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**Table 4**

<b>November 2017 - Final Effluent - Out Fall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
November 3, 2017	0.158			5	6.6						
November 7, 2017	0.182	2.8	4.3	6	9.1	0.192	0.29	0.34	0.52	1	0.0000
November 14, 2017	0.201	3.4	5.7	7	11.7	0.180	0.30	0.36	0.60	1	0.0000
November 17, 2017	0.150	2.0	2.5	6	7.5						
November 21, 2017	0.162			5	6.8					2	0.3010
November 25, 2017	0.202			6	10.1						
November 28, 2017	0.169			6	8.5					1	0.0000
Average	0.175	2.7	4.2	6	8.6	0.186	0.30	0.35	0.56	1	0.0753
Minimum	0.150	2.0	2.5	5	6.6	0.180	0.29	0.34	0.52	1	0.0000
Maximum	0.202	3.4	5.7	7	11.7	0.192	0.30	0.36	0.60	2	0.3010

There are no anticipated exceedances of the permitted limitations for Outfall 001 for November 2017. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

During October, the presence of foam conditions on the surface of the SBRs remained similar in color and thickness as during September. Foam concentrations ranged from 50% to 70% of the area. As the water temperature within the SBRs begins to lower from 20°C to around 10 °C, coupled with lower food to mass ratios, foam concentrations historically increase as a result of increased filamentous growth. Management of the food to mass ratio assists to manage the foam concentrations.

Table 5 presents the available November data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 are anticipated to remain within compliance with the NPDES permit.



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**Table 5**

<b>November 2017 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/month	mg/L	lbs/month	mg/L	lbs/month	mg/L	lbs/month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
November 3, 2017	0.1477			5.0	6.2						
November 7, 2017	0.1464	2.8	3.4	6.0	7.3	0.192	0.23	0.34	0.42	1.000	0.000
November 14, 2017	0.1581	3.4	4.5	7.0	9.2	0.180	0.24	0.36	0.47	1.000	0.000
November 17, 2017	0.1558			6.0	7.8						
November 21, 2017	0.1558			5.0	6.5					2.000	0.301
November 25, 2017	0.1556			6.0	7.8						
November 28, 2017	0.1498			6.0	7.5					1.000	0.000
Average	0.1498	3.1	4.0	5.9	7.5	0.19	0.24	0.35	0.44	1	0.0753
Minimum	0.1464	2.8	3.4	5.0	6.2	0.18	0.23	0.34	0.42	1	0.0000
Maximum	0.1581	3.4	4.5	7	9.2	0.19	0.24	0.36	0.47	2	0.3010

Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during November 2017.

**Table 6**

<b>November 2017 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
<b>Sample Date</b>											
November 7, 2017	0.315	135	355	73	192	36.5	96	28.1	74	5.7	15.0
November 14, 2017	0.381	246	646	81	213	34.7	110	50.0	159	4.4	11.6
November 21, 2017	0.377										
November 28, 2017	0.361										
Average	0.359	191	500	77	202	35.6	103	39.1	116	5.1	13.3
Minimum	0.315	135	355	73	192	34.7	96	28.1	74	4.4	11.6
Maximum	0.381	246	646	81	213	36.5	110	50.0	159	5.7	15.0





Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. Soda ash assists towards maintaining SBR pH concentrations above 7.0 standard units and assists to replenish alkalinity consumed during the nitrification process and aluminum sulfate solution addition.

During November, there was one (1) storm event resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24-hour period. A total of 1.68 inches of rainfall measured during the month. These events occurred on:

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reading aeration minutes per cycle, extending decant minutes per cycle and reducing settling times. The facility experienced several filled decant cycles during the rain events, however, final effluent water quality was maintained.

No activity.

Sludge Dewatering Summary	
Gallons of sludge dewatered	305,088
Number of dumpsters	4

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**RCSTP Monthly Operations  
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**Chemical Usage:**

November 2017		
Chemical	Daily Average	Total Monthly
Soda Ash	300	9,000
Aluminum Sulfate solution	54.9	1,591
Polymer (centrifuge)	0.85	15.96

*\*Nineteen (19) days of centrifuge operation*

**Flow data:**

November 2017			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	11.960	398,679	617,630
Influent Wastewater to SBRs	12.909	403,313	610,944
Internal Recycle	0.949	36,366	81,492
Treated Effluent to Disc Filters	12.621	420,713	550,336
Final Effluent Discharge	5.948	198,267	285,000
Applebrook Golf Course	4.688	156,280	186,040

**Minor Preventative Maintenance**

Flushed chemical feed lines to the SBRs.

Cleaned piping within SBR building

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters weekly

Changed the UV lamps, sleeves and O-rings for UV Bank No. 1



**RCSTP Monthly Operations  
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**Look Ahead Preventative Maintenance Activities**

Overhaul centrifuge drive gear boxes and evaluation of bearings for replacement.  
Gathering information for parts.

Deckman Electric is rebuilding filter feed pumps

Purchase submitted for fine screen parts

Purchase submitted for LDO probes and controls for SBRs

**Filter Feed Pump Number 3**

Filter Feed Pump #3 was rebuilt and installed. There appears to be an issue with the pump. Upon hooking up the wiring, there was a leakage alarm. The wiring outside of the pump was inspected and everything seems to be O.K. As such, the problem is inside the pump. Either the sensor in the pump is bad, or there actually is water getting into the motor. There was no water in the pump when it was hooked up, and the alarm appeared, it is assumed that there is an issue with the sensor. The pump will run if you remove the Flygt temperature/leakage relay in the panel. Deckman Electric will be contacted to determine the next steps.

**Sunlight UV System**

There appears to be an issue with the Barrier Sunlight H-4XE-HO-5W-2B-1C, Vineland Project 550001 UV system. One of the UV module power connectors (Harting) has been burned up. The manual we have does not have any description, or part numbers for this plug/connector. Siemens will be contacted to assist with obtaining part numbers and pricing for the parts.



**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**October 9, 2017**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, October 9, 2017 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Jack Yahraes, Dana Pizarro, Kevin Cummings and Phil Mayer. Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni), Jessica Wiesak (Attorney), and Walter Wujcik, (Conservancy Board).

**COMMON ACRONYMS:**

<i>BFES – Big Fish Environmental Services</i>	<i>MA – Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park &amp; Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&amp;I – Inflow &amp; Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
	<i>WAS – Waste Activated Sludge</i>

**Call to Order & Pledge of Allegiance**

Ed called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops and first responders and everyone effected by the hurricanes in Texas and Florida.

Ed asked if anyone would be recording the meeting. There was no response.

**Chairman's Report**

No Report

**Sewer Reports**

**1. Director of Public Works, Mark Miller's report for September:**

Monthly Flows: The average daily flow to West Goshen was 657,000 gallons per day.

Meters: Meters were read on a daily basis with no problems.

C.C. Collection: The pump stations were visited on a daily basis. Wet wells were washed down. Pumps were pulled at all pump stations and sent to Deckmans for repairs. We repaired 6 lateral caps so far this month. We had Lenni Electric out to check all electrical motors and control panels at the pump station and the sewer plant. A full report was also provided. The generators at all locations were serviced. We had a problem at the Barkway Pump Station while pulling the pump. The way we have to work in the wet well needs to be changed. That being said I have asked Mike Ellis to look into the possibility of installing a Muffin Monster. I have contacted a local roofer to install a roof hatch, which would allow us to remove the pumps safer.

R.C. Collection: Pump stations were visited on a daily basis with no problems to report.

R.C. Plant: Routine maintenance was performed by the Public Works Department, no problems to report.

1 Lateral Inspections: Laterals were inspected at the Brandolini site on Strasburg Road and the  
2 Clock Farms addition on E. Boot Road.

3 INI: We have been replacing the manhole coatings and lids with a water tight lid (36) in the  
4 Wentworth Development.

5 Alarms: We responded to 28 alarms for September.

6 PA One Calls: We received 74 PA One calls for September.  
7

## 8 **2. Pennoni Engineer's Report for September**

9 Mike Ellis provided the following report.  
10

### 11 **Invoices**

- 12 • Invoices with summaries are provided under separate cover.

### 13 **Ridley Creek Sewage Treatment Plant (RCSTP)**

- 14 • Caustic soda pilot study –
  - 15 ○ We previously calculated the estimated caustic soda feed rate to be 5-6 gallons/hour  
16 when the pilot study SBR tank is in a Fill cycle. We previously recommended a 7.7-  
17 gallon/hour pump be acquired for the study. We have obtained pricing for a larger  
18 ±19.9 gallon/hour pump as requested by the Municipal Authority in the event the  
19 recommended pump is found to be inadequate during the trial. Two 350-gallon totes  
20 should allow for a 2.5-3 week trial. We previously sent our recommendations to the  
21 plant operator for review and are awaiting a response. *No update since our last report.*
  - 22 ○ A pilot study sampling plan was previously requested from Big Fish, and we are  
23 awaiting a response. *No update since our last report.*
  - 24 ○ The pilot study can begin once the tap is installed and the operator provides a  
25 sampling plan and confirms the caustic soda feed rate. *No update since our last report.*
  - 26 ○ In order to progress this project, a meeting has been tentatively set up for October 13  
27 at the RCSTP with the Public Works Department, Pennoni, Big Fish, and the controls  
28 consultant to resolve outstanding questions and concerns (i.e. chemical feed control  
29 during fill-decant phase) and establish a definitive schedule to begin the trial.
- 30 • SBR tanks CIM coatings –
  - 31 ○ Our structural engineers and leakage consultant performed a visual and non-  
32 destructive evaluation of the SBR #1 concrete walls on August 23. Two concrete cores  
33 were taken from the SBR #1 walls the same day. The cores have been tested and  
34 analyzed. We will provide a report with lab analyses, findings, and recommendations  
35 prior to the October MA meeting.

### 36 **Reservoir Road Pump Station**

- 37 • We have received all permits. The bid document will be finalized to incorporate the recently  
38 issued Army Corps of Engineers permit, and a final set of plans and specifications will be  
39 provided to the Township for their files.
- 40 • A listing of the permits, expiration dates, and renewal deadlines will also be provided.

## **RCSTP and Pump Stations' O&M Manual**

- Completed. We recommend the Manual be revisited in July-August 2018 to determine if updates are needed and/or if new information has become available to incorporate.

## **Supplee Valley Pipe Lining**

- We prepared the bid document and submitted it to the Township for review. The bid document includes ALL sewers that we had previously recommended for repair over a 3-year period since the contract will span over calendar years 2017 into 2018, and funding from both years will therefore be available.

We recommend the following schedule:

- Advertisements = 10/10 and 10/13
- Non-mandatory pre-bid meeting = 10/18 at 10:00 am at the Twp building
- Bids Due = 11/6 at 10:00 am
- Award = 11/13 MA meeting
- Contract Execution ≈ early December
- NTP ≈ mid-December
- Construction (90 days duration) ≈ mid-December to March

## **White Chimneys Manhole Lining**

- We completed a 1-year warranty visual observation of the manholes that were lined in 2016 in White Chimneys and along Cornwallis Drive. No deficiencies were observed with the liners. However, apparent sulfuric acid (from hydrogen sulfide) is present on the liners near the bottoms of some of the manholes. We have recommended that the Public Works Department clean those liners. *No update since our last report.*

## **Barkway Pump Station Grinder**

- We met with the Public Works Director at the pump station to perform an initial evaluation of alternatives to add a comminutor (such as a Muffin Monster) to address problems with the pumps being caused by rags, wipes, and other materials. We submitted a proposal for engineering services to add a comminutor.

## **New Connections**

- Knauer Property, 1680 East Boot Road – We reviewed another revised plan submission to add additional sewer piping on-site to convey wastewater from additional on-site facilities through the previously approved laterals. Comments were provided to the Township.
- Brakman Property, 1420 East Strasburg Road – We reviewed a revised plan to change one of the two gravity service laterals to a force main with grinder pump due to shallow rock. Comments were provided to the Township and developer.

## **West Goshen Sewer System Consultation**

- No activity since last report.

1 SBR Tanks CIM Coatings - The Structural Assessment Report was reviewed. Kevin explained the  
2 tests that can be done to the concrete to see if there is any leaking. He explained the different types  
3 of coatings. They will probably use hydroblasting to remove the coating. To remove coating would  
4 cost \$3-5 per SF and \$15 per SF to put the new coating on. Mark suggested doing 1-2 tanks per year.  
5 Dana voiced concern about the structural aspect of the problem. Mike mentioned that the 10 year  
6 warranty of the coating is up 8/19. Dutchland has been responsive and made repairs. The Pennoni  
7 recommendations will be sent by Wednesday.

8  
9 **3. Big Fish Environmental Services** – Scott's report for September showed that the Ridley Creek  
10 sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations  
11 during the month of August 2017. Discharge to Applebrook was initiated August 20<sup>th</sup>. Chemical  
12 usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous  
13 months. No mechanical or operational issues were observed during operation of sludge dewatering  
14 equipment or SBR treatment process.

15 The report was reviewed in detail. Authority members had questions about some data. Mark will  
16 talk to Scott.

17  
18 **Approval of Minutes**

19 The minutes of the September 11, 2017 meeting were approved as corrected.

20  
21 **Approval of Invoices**

22 1. Phil moved to approve payment of the following Pennoni invoices:

- |    |    |                 |             |
|----|----|-----------------|-------------|
| 23 | a. | Pennoni #768598 | \$ 75.75    |
| 24 | b. | Pennoni #768600 | \$ 1,146.00 |
| 25 | c. | Pennoni #768601 | \$ 109.75   |
| 26 | d. | Pennoni #768602 | \$ 1,416.00 |
| 27 | e. | Pennoni #768624 | \$15,000.00 |

28 Jack seconded the motion. The motion passed unanimously.

29  
30 **Liaison Reports**

31 **Conservancy Board** - Walter reported that the Conservancy Board is planning a fall planting. They  
32 met with Applebrook Golf Club representatives and walked the wetland near Boot Road. The Club  
33 wants to use this as the construction entrance for the learning center they want to build.

34  
35 **Financial Reports**

36 Jon Altshul provided the following written report:

37 In September 2017, the Municipal Authority recorded \$20,948 in income (mostly from a \$20,000  
38 transfer from the sewer operating fund) and \$19,320 in expenses, for a positive variance of \$1,629.  
39 Expenses included \$7,724 for the Q3 administrative chargeback and \$11,075 for general engineering.  
40 As of September 30<sup>th</sup>, the fund balance was \$1,179,737 of which \$1,141,729 is in the main  
41 construction account (most of which represents the 2013 note).

42 Kevin asked if the sewer rates were being increased to pay for the new bond. Mark will talk to Jon  
43 and, if necessary, have him come to the next meeting.

1 **Old Business**

2 Suplee Valley Pipe Lining Bid Document – The presentation given at the September meeting was  
3 reviewed. The bid was discussed. Mark suggested doing the bid for \$200,000 which would cover 2  
4 years. Mike reviewed the pricing expected for the bid. Since this changes what was done last month,  
5 Phil moved to put the Suplee Valley sewer pipe lining as an entire project on the bid. Jack seconded  
6 the motion. The motion passed unanimously.  
7

8 **Goals**

9 Goals for 2017 were reviewed. Jack pointed out that the months need to be updated for items a & f.  
10

11 **New Business**

12 Barkway Pump Station Grinder – Mark explained that the way to remove it is antiquated. Last week  
13 the cable broke and it fell in. He wants to put a hatch in the roof so it can be pulled out using a truck.  
14 He wants to add a Muffin Monster. Mike commented that it won't have to go to bid since Public  
15 Works can do the project. He gave several options. Safety is the main concern. Dana moved to  
16 authorize Pennoni's proposal for \$9,000 subject to the solicitor's approval. Jack seconded the  
17 motion. The motion passed unanimously.  
18

19 Pennoni General Fund Increase – Mike explained the projects still to be done this year. Kevin moved  
20 to increase Pennoni's General Fund not to exceed \$5,000. Jack seconded the motion. The motion  
21 passed unanimously.  
22

23 **Adjournment**

24 There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion. The  
25 meeting was adjourned at 8:45 p.m. The next regular meeting will be held on Monday, November  
26 13, 2017 at 7:00 pm.  
27

28 Respectfully submitted,  
29  
30  
31

32 Ruth Kiefer  
33 Recording Secretary



# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 774874  
Invoice Date : 11/08/2017  
Project : EGMA1701  
Project Name : 2017 General Services

For Services Rendered through: 10/15/2017

Prepared October's Engineer's Report and attended October MA meeting. Concept scoping of alternatives for a Muffin Monster addition to the Barkway Pump Station, initial scoping field meeting at the pump station with the Public Works Director (PWD), and preparation of an alternative exhibit for improved access to the wet well (this initial scoping work was in preparation for and prior to approval of the design proposal and was not included in that proposal scope). Attended caustic soda treatment pilot study field meeting at the RCSTP with the PWD and Big Fish to resolve questions and concerns in order to move forward with implementation of the study; and discussed the controls implementation for the study with the Township's controls consultant. Performed cursory evaluation of RCSTP filter feed pump runtime problems and operational characteristics. Initiated Tallmadge Drive sanitary sewer replacement design work.

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor : 1,999.75  
Expense : 0.00  
Phase Total : 1,999.75

Amount Due This Invoice

\$1,999.75

Fee : 26,700.00  
Prior Billings : 19,884.00  
Current Billings : 1,999.75  
Total Billings : 21,883.75

OK  
Mark Smith 11/8/2017

Phase : \*\*\*\* -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	14.75	119.00	1,755.25
Senior Professional	1.00	114.00	114.00
Senior Engineering Technician	1.50	87.00	130.50
<b>Labor Total:</b>	<b>17.25</b>		<b>1,999.75</b>

Total Phase : \*\*\*\* -- Professional Services

Labor : \$1,999.75  
Expense : \$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor : \$1,999.75  
Expense : \$0.00

East Goshen Municipal Authority  
EGMA1701 Invoice Summary  
Invoice Date 11/08/2017

<b>Project:</b>	EGMA1701		
<b>Pennoni Job No.:</b>	2017 General Services		
<b>Invoice No:</b>	<b>774874</b>		
<b>Invoice Period:</b>	9/18/2017	to	10/15/2017
<b>Initial Authorization:</b>	\$ 12,700.00	<b>Date:</b>	11/8/2017
<b>Contract Amount:</b>	\$ 26,700.00		
<b>Previously Invoiced:</b>	\$ 19,884.00		
<b>Current Invoice:</b>	\$ 1,999.75		
<b>Invoiced to Date (\$):</b>	\$ 21,883.75		
<b>Invoiced to Date (%):</b>	82%		
<b>Remaining Budget (\$):</b>	\$ 4,816.25		
<b>Remaining Budget (%):</b>	18%		

**Budget by Phase:**

<b>Phase Name:</b>	2017 General Services		
<b>Phase Budget:</b>	\$ 26,700.00		
<b>Previously Invoiced:</b>	\$ 19,884.00		
<b>Current Invoice:</b>	\$ 1,999.75		
<b>Invoiced to Date (\$):</b>	\$ 21,883.75		
<b>Invoiced to Date (%):</b>	82%		
<b>Remaining Budget (\$):</b>	\$ 4,816.25		
<b>Remaining Budget (%):</b>	18%		

**Comments:** Prepared October's Engineer's Report and attended October MA meeting. Concept scoping of alternatives for a Muffin Monster addition to the Barkway Pump Station, initial scoping field meeting at the pump station with the Public Works Director (PWD), and preparation of an alternative exhibit for improved access to the wet well (this initial scoping work was in preparation for and prior to approval of the design proposal and was not included in that proposal scope). Attended caustic soda treatment pilot study field meeting at the RCSTP with the PWD and Big Fish to resolve questions and concerns in order to move forward with implementation of the study; and discussed the controls implementation for the study with the Township's controls consultant. Performed cursory evaluation of RCSTP filter feed pump runtime problems and operational characteristics. Initiated Tallmadge Drive sanitary sewer replacement design work.



# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 774875  
Invoice Date : 11/08/2017  
Project : EGMA1704  
Project Name : Supplee Valley Pipe Lining & MH  
Reh

For Services Rendered through: 10/15/2017

Revised and finalized bid document and exhibits to include all recommended repair scope in this contract with numerous bid Add Items; set up construction solicitation on PennBID website; and responded to bidder's questions.

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor : 1,923.25  
Expense : 0.00  
Phase Total : 1,923.25

## Amount Due This Invoice

1,923.25

Fee : 7,000.00  
Prior Billings : 5,063.50  
Current Billings : 1,923.25  
Total Billings : 6,986.75

Phase : \*\*\*\* -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	6.75	119.00	803.25
Graduate Professional	14.00	80.00	1,120.00
<b>Labor Total:</b>	<b>20.75</b>		<b>1,923.25</b>

Total Phase : \*\*\*\* -- Professional Services

Labor : \$1,923.25  
Expense : \$0.00

Total Project : EGMA1704 -- Supplee Valley Pipe Lining & MH Reh

Labor : \$1,923.25  
Expense : \$0.00

OK  
11/8/2017



East Goshen Municipal Authority  
EGMA1704 Invoice Summary  
Invoice Date 11/08/2017

**Project:** EGMA1704  
**Pennoni Job No.:** Supplee Valley Pipe Lining & MH Reh  
**Invoice No:** 774875  
**Invoice Period:** 9/18/2017 to 10/15/2017  
**Initial Authorization:** \$ 7,000.00 **Date:** 11/8/2017  
**Contract Amount:** \$ 7,000.00  
**Previously Invoiced:** \$ 5,063.50  
**Current Invoice:** \$ 1,923.25  
**Invoiced to Date (\$):** \$ 6,986.75  
**Invoiced to Date (%):** 100%  
**Remaining Budget (\$):** \$ 13.25  
**Remaining Budget (%):** 0%

**Budget by Phase:**

**Phase Name:** Supplee Valley Pipe Lining & MH Reh  
**Phase Budget:** \$ 7,000.00  
**Previously Invoiced:** \$ 5,063.50  
**Current Invoice:** \$ 1,923.25  
**Invoiced to Date (\$):** \$ 6,986.75  
**Invoiced to Date (%):** 100%  
**Remaining Budget (\$):** \$ 13.25  
**Remaining Budget (%):** 0%

**Comments:** Revised and finalized bid document and exhibits to include all recommended repair scope in this contract with numerous bid Add Items; set up construction solicitation on PennBID website; and responded to bidder's questions



**Herbert, Rowland & Grubic, Inc.**  
**Engineering & Related Services**

**AN EMPLOYEE-OWNED COMPANY**

369 East Park Drive  
Harrisburg, PA 17111  
717.564.1121  
FAX (717) 564.1122  
www.hrg-inc.com

November 6, 2017

Mr. Edward McAssey, Jr., PhD  
East Goshen Township  
1580 Paoli Pike  
West Chester, Pennsylvania 19380

Re: West Goshen Sewer Authority  
Anaerobic Digester Replacement Project  
Contract Nos 17-3, 17-6, and 17-7

Dear Mr. McAssey:

In accordance with the intermunicipal agreement between West Goshen Sewer Authority (WGSA), West Goshen Township, and East Goshen Township, this correspondence is intended to provide notification that WGSA has awarded the following contracts for completion of the Anaerobic Digester Replacement Project:

- Contract 17-3: General Construction – Eastern Environmental Contractors, Inc.
- Contract 17-6: Electrical Construction – Garden Spot Electric, Inc.
- Contract 17-7: Mechanical Construction – GEM Mechanical Services

The following costs are estimated for completion of the Project:

Engineering (Survey, Preliminary Design, Permitting, Final Design, and Bidding)	\$402,807.74
Contract 17-3	\$4,424,240.00
Contract 17-6	\$695,000.00
Contract 17-7	\$218,000.00
Engineering – Construction Phase	\$189,000.00
Resident Project Representation	\$222,300.00
<b>Total</b>	<b>\$6,152,187.74</b>

11-8-17  
UNDER REVIEW  
TICK

In accordance with the intermunicipal agreement, East Goshen Township is responsible for 16.67% of these costs, which are currently estimated at \$1,025,569.70; however, \$6,989.81 was previously paid for engineering costs (2016 Capital Projects). As a result, East Goshen is responsible for a revised estimated cost of \$1,018,579.89.

Please note that these projected costs do not include contingency, legal, or systems integration fees. Any additional costs or deducts in the costs associated with the Project will be reconciled with East Goshen Township at the final project closeout and all change orders will be submitted to East Goshen Township in accordance with the agreement.

Payment of the \$1,025,569.70 shall be coordinated with Mike Moffa, West Goshen Township Wastewater Superintendent.

Please feel free to contact me at [jfox@hrg-inc.com](mailto:jfox@hrg-inc.com) or at 717-564-1121 if you have any questions on the above referenced Project.

Sincerely,

**Herbert, Rowland & Grubic, Inc.**



Joshua T. Fox, P.E.  
WGSA Engineer

JTF/pk

007608.0426

p:\0076\007608\_0426\admin\corres\2017.11.06 anaerobic digester costs to east goshen.docx

12-8-17  
OK IRS

c: Mr. Rick Smith, East Goshen Township Manager  
West Goshen Sewer Authority  
Mr. Michael Moffa, Wastewater Superintendent  
HRG File



Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

369 East Park Drive  
Harrisburg, PA 17111  
717.564.1121  
FAX (717) 564.1122  
www.hrg-inc.com

November 7, 2017

Mr. Edward McAssey, Jr., PhD  
East Goshen Township  
1580 Paoli Pike  
West Chester, Pennsylvania 19380

Re: West Goshen Sewer Authority  
2017 Sanitary Sewer System Repairs Project  
Contract No. 17-5

Dear Mr. McAssey:

In accordance with the intermunicipal agreement between West Goshen Sewer Authority (WGSA), West Goshen Township, and East Goshen Township, this correspondence is intended to provide notification that WGSA has awarded the construction Contract 17-5 for completion of the 2017 Sanitary Sewer System Repairs Project to DiRocco Brothers, Inc. for an estimated unit price cost of \$1,224,125.44.

Because the 2017 Sanitary Sewer System Repairs Project includes certain portions of Work that does not involve conveyance of sewage from East Goshen Township, Mr. Moffa has provided the attached calculation to show quantities in which East Goshen is required to share in the cost. As a result, East Goshen is responsible for an estimated cost of \$22,688.59.

Please note that these projected costs do not include contingency or legal fees. These costs along with any additional costs or deducts associated with the Project will be reconciled with East Goshen Township at the final project closeout and all change orders will be submitted to East Goshen Township in accordance with the agreement.

Payment of the \$22,688.59 shall be coordinated with Mike Moffa, West Goshen Township Wastewater Superintendent.

11-8-17

UNDER REVIEW

Rick

12-8-17

OK

RS



RAYMOND H. HALVORSEN, *Chairman*  
EDWARD G. MEAKIM, JR., *Vice-Chairman*  
PHILIP J. CORVO, JR., *Member*  
CHRISTOPHER PIELLI, ESQ., *Member*  
HUGH J. PURNELL, JR., *Member*

CASEY LALONDE, *Township Manager*

## Wastewater Treatment Plant

848 S. Concord Rd.  
West Chester, PA 19382  
610-696-0900  
Fax: 610-429-9360

December 4, 2017

Rick Smith, Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

RE: West Goshen Sewer Authority  
Project Cost Update

Dear Rick:

It was a pleasure speaking with you the other day regarding the West Goshen Sewer Authority Capital Improvement Project. During our discussion you asked for an explanation for the increase in the Anaerobic Digester Project cost and you inquired about the particulars of the Construction Phase Engineering associated with the project.

First, let me apologize for the apparent lack of communication. Although the increase in cost had been discussed extensively at the Authority meetings, it would have been appropriate for you to have been personally and formally informed. Again, please accept my apologies. There were several factors that resulted in the increased project cost. The initial estimated project cost did not include the relocation of the waste activated sludge piping to the Primary Clarifiers, the new gas service installation, several interior building improvements (minor), or the Entrance Improvement Project. The Entrance Improvement Project was a separate project at the time. Moreover, the bids came in approximately 11% over our original estimate. In reviewing the bid document schedule of values it appears as though the cost for labor to install the equipment, covers, and the piping was underestimated. In addition, the mechanical contract amount for the project was significantly above the estimate as there was only one bidder.

The construction phase engineering includes all costs associated with engineering support during construction as defined in the General Conditions of the Contract. This engineering generally includes submittal and shop drawing review, job conferences, field meetings and engineering site visits, review and recommendation for payments, change order management, provision of clarifications upon request, inspections for partial utilization, substantial completion, and final completion, and other items defined under Engineer's Responsibilities in the General Conditions of the Contract.

For the purpose of better communication, below please find a chart identifying the Sewer Authority's current and future projects along with the previous and current estimated costs for each project.

West Goshen Sewer Authority Capital Improvement Projects	Previous Estimates (04/10/2017)		Current Estimates (10/27/2017)	
	Total Cost <sup>(a)</sup>	Allocation	Total Cost <sup>(a)</sup>	Allocation
Headworks Improvement Project	\$ 2,188,475	\$ 364,819	\$ 2,943,792	\$ 490,730
Anaerobic Digester Project	\$ 4,295,750	\$ 716,102	\$ 6,152,188	\$ 1,025,570
Pump Station Phase I Improvements (W. Way PS)	\$ 132,550	\$ 72,637	\$ 217,042	\$ 118,939
Sanitary Sewer System Repairs - 2017	\$ 963,600	\$ 160,632	\$ 1,580,090	\$ 22,689
Enhanced Chemical Addition Project	\$ 292,750	\$ 48,801	\$ 259,468	\$ 43,253
Wastewater Treatment Plant Phase II Improvements	\$ 7,362,800	\$ 1,227,379	\$ 7,362,800	\$ 1,227,379
Pump Station Phase II Improvements (W. Way PS)	\$ 2,000,000	\$ 1,096,000	\$ 2,000,000	\$ 1,096,000
Sanitary Sewer System Repairs - 2018	\$ 256,000	\$ 42,675	\$ 256,000	\$ 42,675
Sanitary Sewer System Repairs - 2019	\$ 256,000	\$ 42,675	\$ 256,000	\$ 42,675
Misc. Capital Costs	\$ 2,124,000	\$ 354,071	\$ 1,260,000	\$ 210,042
<b>Total</b>	<b>\$ 19,871,925</b>	<b>\$ 4,125,791</b>	<b>\$ 22,287,380</b>	<b>\$ 4,319,952</b>

<sup>(a)</sup> Total Cost Applicable to East Goshen

I hope that this information is helpful and I look forward to providing you updates more frequently going forward. Again, it was a pleasure speaking with you and please feel free to contact me with any questions.

Sincerely,



Michael Moffa  
Wastewater Superintendent

cc: file

## Rick Smith

---

**From:** Mike Moffa <MMoffa@westgoshen.org>  
**Sent:** Monday, November 20, 2017 9:06 AM  
**To:** rsmith@eastgoshen.org  
**Subject:** West Goshen Sewer Authority  
**Attachments:** EG.pdf

Good morning Rick,

While finalizing the proposed budget for the West Goshen Sewer Authority I noticed that there is still a small amount due (\$1,467.24) from the capital expense invoice issued in March, 2017. Can I assume that this will be paid this year?

Thanks for your help and have a wonderful Thanksgiving!

Michael Moffa, Wastewater Superintendent  
West Goshen Township  
848 S. Concord Road  
West Chester, PA 19382  
610-696-0900  
Fax: 610-429-9360

OK TO PAY -  
LEGAL Fees OK under LATEST  
AGREEMENT





THEODORE MURPHY, ESQ., *Chairman*  
PHILIP J. CORVO, JR., *Vice-Chairman*  
DAN TIERNEY, *Treasurer*  
SHAUN WALSH, *Secretary*  
TINAMARIE V. SMITH, *Member*

## West Goshen Sewer Authority

MICHAEL MOFFA, *Wastewater Superintendent*

848 S. Concord Rd.  
West Chester, PA 19382  
610-696-0900  
Fax: 610-429-9360

### Invoice

March 28, 2017

Board of Supervisors  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

APPROVED BY: \_\_\_\_\_  
DATE PAID: \_\_\_\_\_  
CHECK #: \_\_\_\_\_  
CHARGED TO: \_\_\_\_\_

For your share of operation & maintenance costs of the sewage treatment system as per Article VI, Section 6.01(a) of the Agreement of September 6, 1977 for the period of January 01, 2016 through December 31, 2016.

*Project Costs* include amounts actually paid relating to construction, labor, parts, engineering, legal, and testing.

<i>Projects:</i>	<i>Costs:</i>
Structural Repairs to Primary Clarifier No. 3	\$ 389,892.25
TMDL - Engineering, Testing, & Legal	\$ 148,538.30
Grit Removal System Replacement and Headworks Improvement	\$ 208,091.66
WWTP Emergency Generator Replacement	\$ 476,683.73
Sanitary Sewer System Rehabilitation	\$ 6,510.37
Treatment Plant Doors - Hardware and Lock Upgrades	\$ 17,541.46
Enhanced Chemical Addition (pH Adjustment)	\$ 17,261.96
WWTP Driveway Entrance Improvements	\$ 18,515.23
Anaerobic Digester Replacement	\$ 46,713.09
Pump Station Bypass Connections	\$ 744.12
Dewatering Facility Upgrade	\$ 3,171.50
<b>Total Project Costs</b>	<b>\$ 1,333,663.67</b>

W. Whiteland Allocation (gpd) =  $\frac{1,000,000}{6,000,000}$  = 0.16667 % of Capacity  
Treatment Plant Capacity (gpd)

Total Project Costs \$1,333,663.67 x % of Capacity 0.16667 = \$ 222,281.72 East Goshen's Share

**Total Amount Due \$ ~~222,281.72~~**  
Please make Payable to "West Goshen Sewer Authority"

AMOUNT TO BE DISCUSSED AT MEETING \$ 220,814.48





Gawthrop Greenwood, PC  
Attorneys at Law

17 East Gay Street, Suite 100 (p) 610-696-8225  
West Chester, PA 19381-0562 (f) 610-344-0922  
gglaw@gawthrop.com www.gawthrop.com

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester PA 19380

Page: 1  
11/07/2017  
Client No: 6604-001R  
Invoice No: 188016

General Authority Services

Fees

		Hours	
10/09/2017			
PMM	Email from M Ellis with draft report on SBR tank; Review and analyze meeting packet.	0.80	
SLF	Preparation for and attendance at regular meeting.	2.50	
10/10/2017			
PMM	Review and analyze terms and conditions of Pennoni for Barkway Pump Station.	0.30	
10/11/2017			
PMM	Telephone conference with R Smith regarding Pennoni terms and conditions for proposal.	0.20	
10/24/2017			
PMM	Email from R Smith with status update on EPA litigation with West Goshen Sewer Authority.	0.20	
	For Current Services Rendered	4.00	800.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Stacey L. Fuller	2.50	\$200.00	\$500.00
Patrick M. McKenna	1.50	200.00	300.00

Previous Balance \$1,000.00

Total Current Charges 800.00

10/20/2017 Payment -1,000.00

Balance Due \$800.00

OK RS 12/8/17



# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice #: 776887  
Invoice Date: 11/16/2017  
Project: EGMA1701  
Project Name: 2017 General Services

---

For Services Rendered through: 11/5/2017

Phase \*\*\*\* General Engineering Professional Services: RCSTP caustic soda treatment pilot study status update with Township staff. Reproduction of 2 sets of Supplee Valley development plans for PW Department.

Phase 01 Tallmadge Drive Sanitary Sewer Replacement: Performed field survey of topography and existing conditions, and initiated preparation of existing conditions plan.

Phase 02 Ashbridge PS Force Main Rehabilitation: Initial evaluation of repair, rehabilitation, and replacement alternatives and methods to determine extent of problem; updates on cause of pipe break, emergency repair, and alternatives with PW Director; initiated preparation of rehabilitation alternatives outline and cost estimating.

**Phase : \*\*\*\* -- Professional Services**

**Total Phase : \*\*\*\* -- Professional Services**

Labor :	131.75
Expense :	0.00
Phase Total :	131.75

**Phase : 01 -- Tallmadge Dr Sewer Replacement**

**Total Phase : 01 -- Tallmadge Dr Sewer Replacement**

Labor :	2,699.75
Expense :	0.00
Phase Total :	2,699.75

**Phase : 02 -- Ashbridge PS Force Main Rehab**

**Total Phase : 02 -- Ashbridge PS Force Main Rehab**

Labor :	379.50
Expense :	0.00
Phase Total :	379.50

**Amount Due This Invoice**

---

**\$3,211.00**

Fee :	26,700.00
Prior Billings :	21,883.75
Current Billings :	3,211.00
Total Billings :	25,094.75

dc PS

Continued on next page...

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

---

...Continued from previous page

**Phase : \*\*\*\* -- Professional Services**

<b>Labor</b> <i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	0.25	119.00	29.75
Technician I	1.50	68.00	102.00
<b>Labor Total:</b>	<b>1.75</b>		<b>131.75</b>

**Total Phase : \*\*\*\* -- Professional Services**

**Labor : \$131.75**  
**Expense : \$0.00**

**Phase : 01 -- Tallmadge Dr Sewer Replacement**

<b>Labor</b> <i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	0.25	119.00	29.75
Senior Professional	8.50	114.00	969.00
Graduate Professional	1.00	87.00	87.00
Sr. Survey Technician	8.00	87.00	696.00
Technician I	13.50	68.00	918.00
<b>Labor Total:</b>	<b>31.25</b>		<b>2,699.75</b>

**Total Phase : 01 -- Tallmadge Dr Sewer Replacement**

**Labor : \$2,699.75**  
**Expense : \$0.00**

**Phase : 02 -- Ashbridge PS Force Main Rehab**

<b>Labor</b> <i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	1.50	119.00	178.50
Senior Professional	1.00	114.00	114.00
Senior Engineering Technician	1.00	87.00	87.00
<b>Labor Total:</b>	<b>3.50</b>		<b>379.50</b>

**Total Phase : 02 -- Ashbridge PS Force Main Rehab**

**Labor : \$379.50**  
**Expense : \$0.00**

**Total Project : EGMA1701 -- 2017 General Services**

**Labor : \$3,211.00**  
**Expense : \$0.00**



East Goshen Municipal Authority  
EGMA1701 Invoice Summary  
Invoice Date 11/16/2017

**Project:** EGMA1701  
**Pennoni Job No.:** 2017 General Services  
**Invoice No:** 776887  
**Invoice Period:** 10/16/2017 to 11/5/2107  
**Initial Authorization:** \$ 12,700.00 **Date:** 11/16/2017  
**Contract Amount:** \$ 26,700.00  
**Previously Invoiced:** \$ 21,833.75  
**Current Invoice:** \$ 3,211.00  
**Invoiced to Date (\$):** \$ 25,044.75  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 1,655.25  
**Remaining Budget (%):** 6%

**Budget by Phase:**

**Phase Name:** 2017 General Services  
**Phase Budget:** \$ 26,700.00  
**Previously Invoiced:** \$ 21,833.75  
**Current Invoice:** \$ 3,211.00  
**Invoiced to Date (\$):** \$ 25,044.75  
**Invoiced to Date (%):** 94%  
**Remaining Budget (\$):** \$ 1,655.25  
**Remaining Budget (%):** 6%

**Comments:** Phase \*\*\*\* General Engineering Professional Services: RCSTP caustic soda treatment pilot study status update with Township staff. Reproduction of 2 sets of Suplee Valley development plans for PW Department.

Phase 01 Tallmadge Drive Sanitary Sewer Replacement: Performed field survey of topography and existing conditions, and initiated preparation of existing conditions plan.

Phase 02 Ashbridge PS Force Main Rehabilitation: Initial evaluation of repair, rehabilitation, and replacement alternatives and methods to determine extent of problem; updates on cause of pipe break, emergency repair, and alternatives with PW Director; initiated preparation of rehabilitation alternatives outline and cost estimating.



# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice #: 776888  
Invoice Date: 11/16/2017  
Project: EGMA1704  
Project Name: Supplee Valley Pipe Lining & MH Reh

For Services Rendered through: 11/5/2017

Bid assistance including coordination of public advertisement of solicitation with Township staff, response to bidders' questions, conducting pre-bid meeting, evaluation of UV-cured fiberglass liner as equivalent methodology and preparation of associated specification section, preparation of Addendum #1, and preparation for bid opening.

Note - Municipal Authority approved fee for the originally estimated effort was \$7,000. This invoice includes effort beyond that fee, and the budget on this invoice has been adjusted to \$10,000 as proposed at the November MA meeting (but no action was taken due to not having a quorum).

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor :	1,484.75
Expense :	0.00
Phase Total :	1,484.75

Amount Due This Invoice

\$1,484.75

Fee :	10,000.00
Prior Billings :	6,986.75
Current Billings :	1,484.75
Total Billings :	8,471.50

Phase : \*\*\*\* -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	5.25	119.00	624.75
Graduate Professional	10.75	80.00	860.00
Labor Total:	16.00		1,484.75

Total Phase : \*\*\*\* -- Professional Services

Labor :	\$1,484.75
Expense :	\$0.00

Total Project : EGMA1704 -- Supplee Valley Pipe Lining & MH Reh

Labor :	\$1,484.75
Expense :	\$0.00

ok RS

East Goshen Municipal Authority  
EGMA1704 Invoice Summary  
Invoice Date 11/16/2017

**Project:** EGMA1704  
**Pennonni Job No.:** Supplee Valley Pipe Lining & MH Reh  
**Invoice No:** 776888  
**Invoice Period:** 10/16/2017 to 11/5/2017  
**Initial Authorization:** \$ 7,000.00 **Date:** 11/16/2017  
**Contract Amount:** \$ 10,000.00  
**Previously Invoiced:** \$ 6,986.75  
**Current Invoice:** \$ 1,484.75  
**Invoiced to Date (\$):** \$ 8,471.50  
**Invoiced to Date (%):** 85%  
**Remaining Budget (\$):** \$ 1,528.50  
**Remaining Budget (%):** 15%

**Budget by Phase:**

**Phase Name:** Supplee Valley Pipe Lining & MH Reh  
**Phase Budget:** \$ 10,000.00  
**Previously Invoiced:** \$ 6,986.75  
**Current Invoice:** \$ 1,484.75  
**Invoiced to Date (\$):** \$ 8,471.50  
**Invoiced to Date (%):** 85%  
**Remaining Budget (\$):** \$ 1,528.50  
**Remaining Budget (%):** 15%

**Comments:** Bid assistance including coordination of public advertisement of solicitation with Township staff, response to bidders' questions, conducting pre-bid meeting, evaluation of UV-cured fiberglass liner as equivalent methodology and preparation of associated specification section, preparation of Addendum #1, and preparation for bid opening.

Note - Municipal Authority approved fee for the originally estimated effort was \$7,000. This invoice includes effort beyond that fee and the budget on this invoice has been adjusted to \$10,000 as proposed at the November MA meeting (but no action was taken due to not having a quorum).





# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 776890  
Invoice Date : 11/16/2017  
Project : EGMAU17006  
Project Name : Barkway PS Muffin Monster

---

For Services Rendered through: 11/5/2017

Initiated design, vendor coordination, and plan preparation.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
**** -- Professional Services	\$9,000.00	\$0.00	13.67%	\$1,230.33	\$1,230.33
Total :	\$9,000.00	\$0.00		\$1,230.33	\$1,230.33

Amount Due This Invoice

\$1,230.33

OK PC

East Goshen Municipal Authority  
EGMA1705 Invoice Summary  
Invoice Date 11/16/2017

**Project:** EGMAU17006  
**Pennoni Job No.:** Barkway PS Muffin Monster  
**Invoice No:** 776890  
**Invoice Period:** NTP to 11/5/2017  
**Initial Authorization:** \$ 9,000.00 **Date:** 11/16/2017  
**Contract Amount:** \$ 9,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 1,230.33  
**Invoiced to Date (\$):** \$ 1,230.33  
**Invoiced to Date (%):** 14%  
**Remaining Budget (\$):** \$ 7,769.67  
**Remaining Budget (%):** 86%

**Budget by Phase:**

**Phase Name:** Barkway PS Muffin Monster  
**Phase Budget:** \$ 9,000.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 1,230.33  
**Invoiced to Date (\$):** \$ 1,230.33  
**Invoiced to Date (%):** 14%  
**Remaining Budget (\$):** \$ 7,769.67  
**Remaining Budget (%):** 86%

**Comments:** Initiated design, vendor coordination, and plan preparation

# Memo

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To: Municipal Authority  
From: Jon Altshul  
Re: MA October Financial Report  
Date: November 6, 2017

---

In October, the Municipal Authority recorded \$25,982 in income (mostly from a \$25,000 transfer from the sewer operating fund) and \$18,783 in expenses, for a positive variance of \$7,199. Expenses included \$1,035 for legal expenses and \$17,672 for general engineering.

As of October 31<sup>st</sup>, the fund balance was \$1,186,936 of which \$1,142,623 is in the main construction account (most of which represents the 2013 note).

I have reattached a draft 2018 budget for the Municipal Authority. The 2018 portion of the budget is unchanged since last month. However, the 2017 year-end projection has been adjusted to reflect that we will be prepaying the 2018 debt service on the 1998 Municipal Authority Loan at a rate of 1.69%, as opposed to the higher fixed rate of 2.9% next year. Given that the returns on both the M&T Sewer Operating and Municipal Authority Operating accounts are 0.10%—i.e. there is virtually no opportunity cost to prepaying the loan—prepayment will have net savings of about \$758.

**Recommended motion:** Mr. Chairman, I move that we adopt the 2018 Municipal Authority Budget as proposed.



Account Title	Acct #	2014 Actual	2015 Actual	2016 Actual	2017 Adopted	YTD Budget	YTD Actual (Through July)	2017 Year-End Projection	2018 Proposed Budget	\$ Variance YE Proj-Prop.	% Variance
<b>Municipal Authority</b>											
Beginning Fund Balance					1,415,651			1,415,651	131,385		
<b>REVENUE</b>											
INTEREST EARNINGS	07341 1000	17	11	(28)	10	10	7	10	10	-	0.0%
INTEREST EARNED - CONSTRUCTION	07341 1020	1,577	1,494	2,573	3,250	1,476	5,370	8,000	50	(7,950)	-99.4%
DCED GRANT	07354 0400	-	37,162	-	-	-	-	-	-	-	-
C.C. TAPPING FEES	07364 1100	112,200	27,600	6,000	14,296	7,148	4,000	14,296	8,000	(6,296)	-44.0%
R.C.TAPPING FEES	07364 1110	12,289	16,296	43,300	-	-	-	-	2,000	2,000	-
CONNECTION FEES - SEWER	07364 1130	1,128	1,269	1,128	-	-	1,692	1,692	1,692	-	0.0%
MISCELLANEOUS REVENUE	07380 1000	564	423	564	-	-	-	-	-	-	-
TRANSFER FROM SEWER OPERATING	07392 0500	21,000	40,000	77,000	100,755	58,772	70,000	146,560	75,853	(70,707)	-48.2%
<b>TOTAL REVENUE</b>		<b>148,775</b>	<b>124,255</b>	<b>130,537</b>	<b>118,311</b>	<b>67,406</b>	<b>81,069</b>	<b>170,558</b>	<b>87,605</b>	<b>(82,953)</b>	
<b>EXPENSES</b>											
ADMINISTRATIVE WAGES	07424 1400	32,172	32,303	30,166	31,620	15,810	15,448	31,620	32,411	791	2.5%
MISCELLANEOUS EXPENSE	07424 3000	1,450	1,468	1,742	2,500	1,500	2,208	2,500	2,500	-	0.0%
MUNIC.AUTH.-AUDITING	07424 3110	10,800	8,900	8,900	9,078	9,078	9,200	9,200	9,384	184	2.0%
ENGINEERING SERVICES	07424 3130	32,259	33,525	54,100	37,500	21,875	41,312	46,500	43,260	(3,240)	-7.0%
LEGAL SERVICES	07424 3140	7,460	4,100	8,593	9,250	5,397	10,103	-	-	-	-
C.C. CAPITAL- COLLECTION	07424 7420	-	-	-	212,486	212,486	-	-	-	-	-
RESERVE PUMP STATION - ENGINEER	07427 1000	1,884	-	-	-	-	-	-	-	-	-
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	6,323	-	-	-	-	-	-	-	-	-
RESERVOIR PUMP STATION - ENGINEER	07428 1000	38,286	144,451	44,571	-	-	13,716	18,000	-	(18,000)	-100.0%
WEST GOSHEN CAPITAL	07429 6100	-	-	-	-	-	222,665	1,290,264	59,736	(1,230,528)	-95.4%
M.C.-DVRFA-DEBT SERVICE	07471 1000	22,120	23,240	24,921	26,320	-	-	54,040	-	(54,040)	-100.0%
M.A.-R.C. DEBT SERVICE	07471 1010	-	-	-	2,043	-	-	-	-	-	-
M.C.-DVRFA-INTEREST PAYMN	07472 1000	5,115	4,169	3,171	-	-	-	2,700	-	(2,700)	-100.0%
<b>TOTAL EXPENSES</b>		<b>157,869</b>	<b>252,156</b>	<b>176,163</b>	<b>330,797</b>	<b>266,146</b>	<b>314,652</b>	<b>1,454,824</b>	<b>147,291</b>	<b>(1,307,533)</b>	
NET RESULT FROM OPERATIONS		(9,094)	(127,900)	(45,626)	(212,486)	(198,740)	(233,583)	(1,284,266)	(59,686)	1,224,580	
Ending Fund Balance					1,203,165			131,385	71,699		

EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER, PA  
Municipal Authority  
OCTOBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
<b>MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - CAPITAL</b>				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,175,179.14	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE DNB CAPITAL ACCOUNT			1,141,729.21	
			33,449.93	
<b>CAPITAL:</b>				
<b>REVENUE</b>				
INTEREST EARNED - CONSTRUCTION	07341 1020	3,250	981.39	8,279.74
TOTAL REVENUE		3,250	981.39	8,279.74
<b>EXPENSES</b>				
C.C. CAPITAL - COLLECTION	07424 7420	212,486	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0	75.75	16,460.75
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0	0.00	0.00
WEST GOSHEN CAPITAL	07429 6100	0	0.00	222,934.73
TOTAL EXPENSES		212,486	75.75	239,395.48
NET CAPITAL		(209,236)	905.64	(231,115.74)
<b>MUNICIPAL AUTHORITY ENDING FUND BALANCE - CAPITAL</b>				
MUNICIPAL AUTHORITY ENDING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,176,084.78	
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT			1,142,623.12	
			33,461.66	

EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER, PA  
Municipal Authority  
OCTOBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING:				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&T)			4,557.78	
REVENUE				
INTEREST EARNINGS	07341 1000	10	0.17	7.40
C.C. TAPPING FEES	07364 1100	14,296	0.00	6,000.00
CONNECTION FEES - SEWER	07364 1130	0	(564.48)	1,127.52
MISCELLANEOUS REVENUE	07380 1000	0	564.48	564.48
TRANSFER FROM SEWER OPERATING	07392 0500	109,755	25,000.00	115,000.00
TOTAL REVENUE		124,061	25,000.17	122,699.40
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	31,620	0.00	23,172.00
MISCELLANEOUS EXPENSE	07424 3000	2,500	0.00	2,207.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078	0.00	9,200.00
ENGINEERING SERVICES	07424 3130	46,500	17,671.75	72,680.50
LEGAL SERVICES	07424 3140	9,250	1,035.00	13,038.16
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320	0.00	0.00
M.C.-DVRFA-INTEREST PAYMNT	07472 1010	2,043	0.00	0.00
TOTAL EXPENSES		127,311	18,706.75	120,298.18
NET OPERATING		(3,250)	6,293.42	2,401.22
MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING			10,851.20	
MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING			1,186,935.98	



## East Goshen Township General Ledger

Report Date 11/06/17

GL Transaction Details

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12 : 20 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST EARNINGS				0.00				
1701	JE	56730		0.23		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
1701			0.00	0.23	-0.23				
1702		57134		0.06		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
1702			0.00	0.06	-0.29				
1703		57173		3.23		03/08/17	INTEREST		ADD'L INTEREST ADDED FROM JAN. 2017
		57549		0.61		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
1703			0.00	3.84	-4.13				
1704		57927		1.06		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
1704			0.00	1.06	-5.19				
1705		58423		0.96		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
1705			0.00	0.96	-6.15				
1706		58876		0.66		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
1706			0.00	0.66	-6.81				
1707		59333		0.16		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
1707			0.00	0.16	-6.97				
1708		59780		0.13		09/01/17	INTEREST		INTEREST EARNED AUGUST 2017 07100.1000
1708			0.00	0.13	-7.10				

## East Goshen Township General Ledger

Report Date 11/06/17

GL Transaction Details

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	1709	JE	60193		0.13		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
	1709			0.00	0.13	-7.23				
	1710		60626		0.17		11/03/17	INTEREST		INTEREST EARNED OCTOBER 2017 07 FUND
	1710			0.00	0.17	-7.40				
07341-1000	****	***	****	0.00	7.40	-7.40				
07341-1020	INTEREST EARNED - CONSTRUCTION					0.00				
	1701		56730		594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701			0.00	594.59	-594.59				
	1702		57134		536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	536.20	-1,130.79				
	1703		57549		743.58		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703			0.00	743.58	-1,874.37				
	1704		57927		854.28		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	854.28	-2,728.65				
	1705		58423		815.38		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705			0.00	815.38	-3,544.03				
	1706		58876		843.23		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706			0.00	843.23	-4,387.26				

## East Goshen Township General Ledger

Report Date 11/06/17

GL Transaction Details

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Jct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1707 JE	59333		982.28		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
1707			0.00	982.28	-5,369.54				
1708	59796			980.51		09/05/17	INTEREST		INTEREST EARNED AUGUST 2017 07 FUND
1708			0.00	980.51	-6,350.05				
1709	60193			948.30		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
1709			0.00	948.30	-7,298.35				
1710	60626			981.39		11/03/17	INTEREST		INTEREST EARNED OCTOBER 2017 07 FUND
1710			0.00	981.39	-8,279.74				
07341-1020	**** ***	****	0.00	8,279.74	-8,279.74				
07364-1100	C.C. TAPPING FEES				0.00				
1704	57798			2,000.00		04/25/17	RECLASS		RECLASS TAP IN FEE
	RE 57797			2,000.00		04/25/17	57797 1		SEWER TAP IN - 5 SCHOOL LN C.C. TAPPING FEES
1704			0.00	4,000.00	-4,000.00				
1708	59745			2,000.00		08/31/17	CK105		TAP IN FEE-1418 E. STRASBRG C.C. TAPPING FEES
1708			0.00	2,000.00	-6,000.00				
07364-1100	**** ***	****	0.00	6,000.00	-6,000.00				
07364-1110	R.C. TAPPING FEES				0.00				
1704 JE	57798		2,000.00			04/25/17	RECLASS		RECLASS TAP IN FEE
	RE 57795			2,000.00		04/25/17	57795 1		SEWER TAP IN - 3 SCHOOL LN
1704			2,000.00	2,000.00	0.00				



## East Goshen Township General Ledger

Report Date 11/06/17

GL Transaction Details

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1110	****	*** ****	2,000.00	2,000.00	0.00				
07364-1130		CONNECTION FEES - SEWER			0.00				
	1702	CR 56762		423.00		02/07/17	125 25	10162	1 JACOBS, ROBERT & CHERYL
		56823		423.00		02/13/17	125 26	10160	1 GEORGE SMITH & CHRISTINA CONLE
				423.00		02/13/17	125 27	10161	1 STOFFLET, MICHAEL
	**		0.00	846.00	***				
1702			0.00	1,269.00	-1,269.00				
1703		57212		423.00		03/09/17	125 54	10163	1 PAPPANO, JOSEPH & PATRICIA
1703			0.00	423.00	-1,692.00				
1710	JE	60551	564.48			10/27/17	PINE ROCK		ANNUAL PINE ROCK INSTALL.PMTS FEB&MAR 2017 INTEREST
1710			564.48	0.00	-1,127.52				
07364-1130	****	*** ****	564.48	1,692.00	-1,127.52				
07380-1000		MISCELLANEOUS REVENUE			0.00				
				564.48		10/27/17	PINE ROCK		ANNUAL PINE ROCK INSTALL.PMTS FEB&MAR 2017 INTEREST
1710			0.00	564.48	-564.48				
07380-1000	****	*** ****	0.00	564.48	-564.48				
07392-0500		TRANSFER FROM SEWER OPERATING			0.00				
1703		57171		25,000.00		03/08/17	DEPOSIT		DEPOSIT FR: SEWER TO MUNICIPAL
1703			0.00	25,000.00	-25,000.00				
1704		57579		40,000.00		04/06/17	DEPOSIT		DEPOSIT TO MA ACCT.7100.1000
1704			0.00	40,000.00	-65,000.00				

## East Goshen Township General Ledger

Report Date 11/06/17

GL Transaction Details

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12 : 20 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07392-0500	1707	JE 59229		5,000.00		07/26/17	XFER		XFER \$ FROM 05 TO 07 OPERATING
	1707		0.00	5,000.00	-70,000.00				
	1709	60005		20,000.00		09/19/17	XFER		XFER \$ FROM SEWER TO MA
	1709		0.00	20,000.00	-90,000.00				
	1710	60431		25,000.00		10/19/17	XFER		XFER \$ FROM 05 TO 07
	1710		0.00	25,000.00	-115,000.00				
07392-0500	****	*** ****	0.00	115,000.00	-115,000.00				
07424-1400	ADMINISTRATIVE WAGES				0.00				
	1703	CD 57378	7,724.00			03/22/17	3048		425 EAST GOSHEN TOWNSHIP - GENERAL QTR.1 2017 REIMBURSEMENT FROM MA
	1703		7,724.00	0.00	7,724.00				
	1706	58848	7,724.00			06/30/17	3059		425 EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.2 REIMBURSEMENT FROM MA
	1706		7,724.00	0.00	15,448.00				
	1709	60160	7,724.00			09/29/17	3103		425 EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.3 REIMBURSEMENT - MA
	1709		7,724.00	0.00	23,172.00				
07424-1400	****	*** ****	23,172.00	0.00	23,172.00				
07424-3000	MISCELLANEOUS EXPENSE				0.00				
	1701	56280	984.30			01/04/17	3040		2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES
		56424	3.22			01/13/17	3041		425 EAST GOSHEN TOWNSHIP - GENERAL CORRECT BB&T DEPOSIT OF REMAININ BALANCE OF CLOSED ACCT.1100.1010 07100.1000
	1701		987.52	0.00	987.52				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3000	1706 CD	58814	1,220.00			06/29/17	3058	3871	DELAWARE RIVER BASIN COMMISSION D-1984-056 CP ANNUAL FEE - WATER DISCHARGE
	1706		1,220.00	0.00	2,207.52				
07424-3000	**** ***	****	2,207.52	0.00	2,207.52				
07424-3110	MUNIC.AUTH.-AUDITING				0.00				
	1703	57470	4,600.00			03/30/17	3049	808	MAILLIE FALCONIERO & CO. PROGRESS BILLING 2016 MUN.AUTH.
	1703		4,600.00	0.00	4,600.00				
	1704	57655	4,600.00			04/13/17	3052	808	MAILLIE FALCONIERO & CO. 2016 EXAM. FINAN. STMTS. MUN.AUT
	1704		4,600.00	0.00	9,200.00				
07424-3110	**** ***	****	9,200.00	0.00	9,200.00				
07424-3130	ENGINEERING SERVICES				0.00				
	1701	56425	4,399.50			01/13/17	3042	1052	PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
	1701		4,399.50	0.00	4,399.50				
	1702	56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
	1702		2,044.00	0.00	6,443.50				
	1703	57328	7,962.00			03/17/17	3047	1052	PENNONI ASSOCIATES INC. SERV.THURU 2/12/17 2017 GEN.SERV
	1703		7,962.00	0.00	14,405.50				
	1704	57510	5,416.50			04/03/17	3050	1052	PENNONI ASSOCIATES INC. SERV.THURU 12/11/16 2016 GEN.SERV



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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1704	CD	57655	7,306.50			04/13/17	3053	1052	PENNONI ASSOCIATES INC. SERVICE THRU 3/19/17 RCSTP PERMI
	1704			12,723.00	0.00	27,128.50				
	1705		58070	8,211.75			05/11/17	3054	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/16/17 RCSTP & PUM STATION
	1705			8,211.75	0.00	35,340.25				
	1706		58614	2,805.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 RCSTP PERM
	1706			2,805.25	0.00	38,145.50				
	1707		58978	3,166.75			07/12/17	3060	1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/18/17 WHITE CHIM
	1707			3,166.75	0.00	41,312.25				
	1708		59496	2,621.25			08/11/17	3063	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/16/17-2017 GEN.S
	1708			2,621.25	0.00	43,933.50				
	1709		59939	9,869.50			09/13/17	3101	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 SUPPLEE VAL.P
			60029	1,205.75			09/20/17	3102	1052	PENNONI ASSOCIATES INC. SERVICE THRU 8/13/17 RCSTP & PS
	1709			11,075.25	0.00	55,008.75				
	1710		60328	17,671.75			10/12/17	3104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 9/17/17 2017 GEN.SE
	1710			17,671.75	0.00	72,680.50				
07424-3130	****	***	****	72,680.50	0.00	72,680.50				
07424-3140			LEGAL SERVICES			0.00				

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Act #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1701	CD	56550	940.00			01/25/17	3043	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - DEC. 2016 GEN.AU
1701			940.00	0.00	940.00				
1702		56874	597.50			02/17/17	3044	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN.2017 GEN.AUT
1702			597.50	0.00	1,537.50				
1703		57328	655.00			03/17/17	3046	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. FEB.2017 GEN.AUTHORI
1703			655.00	0.00	2,192.50				
1704		57655	2,140.00			04/13/17	3051	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2017 GEN.A
1704			2,140.00	0.00	4,332.50				
1705		58187	2,407.41			05/19/17	3055	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 4/4-4/28/17 GEN.AU
1705			2,407.41	0.00	6,739.91				
1706		58614	1,640.00			06/14/17	3056	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. - MAY 2017 GEN.AUTH.
			1,723.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 2017 GEN.S
		**	3,363.25	0.00 ***					
1706			3,363.25	0.00	10,103.16				
1708		59496	1,460.00			08/11/17	3062	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE JUNE 2017 - GEN.AU
1708			1,460.00	0.00	11,563.16				
1709		59939	440.00			09/13/17	3100	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - AUG. 2017 GEN.AU
1709			440.00	0.00	12,003.16				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1710	CD 60402	1,035.00			10/18/17	3105	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - 9/19/17 REV.SEW TREATMENT WGTMA
	1710		1,035.00	0.00	13,038.16				
07424-3140	****	*** ****	13,038.16	0.00	13,038.16				
07428-1000		RESERVOIR PUMP STATION - ENGINEER			0.00				
	1701	56426	2,546.50			01/13/17	22002	1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/16/16 RESERV.RD
		56551	375.00			01/25/17	22003	263	CHESTER COUNTY CONSERVATION DISTRICT RESERVOIR RD. NPDES PLAN REVIEW
	1701		2,921.50	0.00	2,921.50				
	1702	56875	1,422.75			02/17/17	22004	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 RESERV.RD
	1702		1,422.75	0.00	4,344.25				
	1704	57511	1,784.25			04/03/17	22005	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/17 RESERVOIR RD.
		57656	1,516.50			04/13/17	22006	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/19/17 RESERV.RD PS
	1704		3,300.75	0.00	7,645.00				
	1705	58071	1,261.50			05/11/17	22007	1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/16/17 RESERV.RD
	1705		1,261.50	0.00	8,906.50				
	1706	58616	2,083.00			06/14/17	22009	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 RESERV.RD P
	1706		2,083.00	0.00	10,989.50				
	1707	58979	2,726.00			07/12/17	22010	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/18/17 RESERV.RD P
	1707		2,726.00	0.00	13,715.50				

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Jct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1708	CD	59495	2,589.25			08/11/17 22011		1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 RESERVOR RD
	1708			2,589.25	0.00	16,304.75				
	1709		59942	80.25			09/13/17 22012		1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 RESERV.RD PS
	1709			80.25	0.00	16,385.00				
	1710		60329	75.75			10/12/17 22013		1052	PENNONI ASSOCIATES INC. SERV.THUR 9/17/17 RESERV.RD PS
	1710			75.75	0.00	16,460.75				
07428-1000	****	***	****	16,460.75	0.00	16,460.75				
07429-6100	WEST	GOSHEN	CAPITAL			0.00				
	1705		58071	705.00			05/11/17 22007		1052	PENNONI ASSOCIATES INC. SERV. THRU 4/16/17 W.GOSHEN SEWE
				220,814.48			05/11/17 22008		3843	WEST GOSHEN SEWER AUTHORITY PROJECT COSTS RE: CONSTRUCTION, LABOR, PARTS, ENGINEERING, LEGAL TESTING
		**		221,519.48	0.00	***				
	1705			221,519.48	0.00	221,519.48				
	1706		58616	1,146.00			06/14/17 22009		1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 W.GOSHEN SE
	1706			1,146.00	0.00	222,665.48				
	1708		59495	269.25			08/11/17 22011		1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 W.GOSH SEWE
	1708			269.25	0.00	222,934.73				
07429-6100	****	***	****	222,934.73	0.00	222,934.73				



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Obj #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
Grand Total			362,258.14	133,543.62	228,714.52				

Source	Debits	Credits
JE	2,564.48	125,851.62
RE	0.00	6,000.00
CR	0.00	1,692.00
CD	359,693.66	0.00
	362,258.14	133,543.62

# Memo

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To: Municipal Authority  
From: Jon Altshul  
Re: MA November Financial Report and Consider MA Resolution 34  
Date: December 4, 2017

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In November, the Municipal Authority recorded \$2,950 in income (one tap-in fee and interest) and \$800 in expenses (legal fees), for a positive variance of \$2,150.

As of November 30<sup>th</sup>, the fund balance was \$1,189,086 of which \$1,143,562 is in the main construction account (most of which represents the 2013 note).

I have reattached a draft 2018 budget for the Municipal Authority.

We were recently notified about DCED funding through the PA Small Water and Sewer Program. Eligible projects must be between \$30,000 and \$500,000 and there is a 15% local match. As the Municipal Authority would be the grant applicant, we would need to submit a resolution approved by the MA formally requesting the grant, designating an official to execute all documents, describing briefly the project scope, and identifying the grant amount. To that end, I have submitted a resolution for your consideration.

**Recommended motion:** Mr. Chairman, I move that we adopt the 2018 Municipal Authority Budget as proposed. I further move that we approve Municipal Authority Resolution 34.

Account Title	Acct #	2014 Actual	2015 Actual	2016 Actual	2017 Adopted	2017 Year-End Projection	2018 Proposed Budget	\$ Variance YE Proj-Prop.	% Variance
<b><u>Municipal Authority</u></b>									
Beginning Fund Balance					1,415,651	1,415,651	131,385		
<i>REVENUE</i>									
INTEREST EARNINGS	07341 1000	17	11	(28)	10	10	10	-	0.0%
INTEREST EARNED - CONSTRUCTION	07341 1020	1,577	1,494	2,573	3,250	8,000	50	(7,950)	-99.4%
DCED GRANT	07354 0400	-	37,162	-	-	-	-	-	
C.C. TAPPING FEES	07364 1100	112,200	27,600	6,000	14,296	14,296	8,000	(6,296)	-44.0%
R.C.TAPPING FEES	07364 1110	12,289	16,296	43,300	-	-	2,000	2,000	
CONNECTION FEES - SEWER	07364 1130	1,128	1,269	1,128	-	1,692	1,692	-	0.0%
MISCELLANEOUS REVENUE	07380 1000	564	423	564	-	-	-	-	
TRANSFER FROM SEWER OPERATING	07392 0500	21,000	40,000	77,000	100,755	146,560	75,853	(70,707)	-48.2%
<b>TOTAL REVENUE</b>		<b>148,775</b>	<b>124,255</b>	<b>130,537</b>	<b>118,311</b>	<b>170,558</b>	<b>87,605</b>	<b>(82,953)</b>	
<i>EXPENSES</i>									
ADMINISTRATIVE WAGES	07424 1400	32,172	32,303	30,166	31,620	31,620	32,411	791	2.5%
MISCELLANEOUS EXPENSE	07424 3000	1,450	1,468	1,742	2,500	2,500	2,500	-	0.0%
MUNIC.AUTH.-AUDITING	07424 3110	10,800	8,900	8,900	9,078	9,200	9,384	184	2.0%
ENGINEERING SERVICES	07424 3130	32,259	33,525	54,100	37,500	46,500	43,260	(3,240)	-7.0%
LEGAL SERVICES	07424 3140	7,460	4,100	8,593	9,250	-	-	-	
C.C. CAPITAL- COLLECTION	07424 7420	-	-	-	212,486	-	-	-	
RESERVE PUMP STATION - ENGINEER	07427 1000	1,884	-	-	-	-	-	-	
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	6,323	-	-	-	-	-	-	
RESERVOIR PUMP STATION - ENGINEER	07428 1000	38,286	144,451	44,571	-	18,000	-	(18,000)	-100.0%
WEST GOSHEN CAPITAL	07429 6100	-	-	-	-	1,290,264	59,736	(1,230,528)	-95.4%
M.C.-DVRFA-DEBT SERVICE	07471 1000	22,120	23,240	24,921	26,320	54,040	-	(54,040)	-100.0%
M.A.-R.C. DEBT SERVICE	07471 1010	-	-	-	2,043	-	-	-	
M.C.-DVRFA-INTEREST PAYMNT	07472 1000	5,115	4,169	3,171	-	2,700	-	(2,700)	-100.0%
<b>TOTAL EXPENSES</b>		<b>157,869</b>	<b>252,156</b>	<b>176,163</b>	<b>330,797</b>	<b>1,454,824</b>	<b>147,291</b>	<b>(1,307,533)</b>	
NET RESULT FROM OPERATIONS		(9,094)	(127,900)	(45,626)	(212,486)	(1,284,266)	(59,686)	1,224,580	
<b>Ending Fund Balance</b>					<b>1,203,165</b>	<b>131,385</b>	<b>71,699</b>		

EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER, PA  
Municipal Authority  
NOVEMBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
<b>MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - CAPITAL</b>				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,176,084.78	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE DNB CAPITAL ACCOUNT			1,142,623.12	
			33,461.66	
<b>CAPITAL:</b>				
<b>REVENUE</b>				
INTEREST EARNED - CONSTRUCTION	07341 1020	3,250	950.14	9,229.88
TOTAL REVENUE		3,250	950.14	9,229.88
<b>EXPENSES</b>				
C.C. CAPITAL - COLLECTION	07424 7420	212,486	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0	0.00	16,460.75
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0	0.00	0.00
WEST GOSHEN CAPITAL	07429 6100	0	0.00	222,934.73
TOTAL EXPENSES		212,486	0.00	239,395.48
NET CAPITAL		(209,236)	950.14	(230,165.60)
<b>MUNICIPAL AUTHORITY ENDING FUND BALANCE - CAPITAL</b>				
MUNICIPAL AUTHORITY ENDING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,177,034.92	
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT			1,143,562.26	
			33,472.66	



EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER, PA  
Municipal Authority  
NOVEMBER 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
<b>OPERATING:</b>				
<b>MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&amp;T)</b>				
<b>REVENUE</b>				
INTEREST EARNINGS	07341 1000	10	0.25	7.65
C.C. TAPPING FEES	07364 1100	14,296	2,000.00	8,000.00
CONNECTION FEES - SEWER	07364 1130	0	0.00	1,127.52
MISCELLANEOUS REVENUE	07380 1000	0	0.00	564.48
TRANSFER FROM SEWER OPERATING	07392 0500	109,755	0.00	115,000.00
TOTAL REVENUE		124,061	2,000.25	124,699.65
<b>EXPENSES</b>				
ADMINISTRATIVE WAGES	07424 1400	31,620	0.00	23,172.00
MISCELLANEOUS EXPENSE	07424 3000	2,500	0.00	2,207.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078	0.00	9,200.00
ENGINEERING SERVICES	07424 3130	46,500	0.00	72,680.50
LEGAL SERVICES	07424 3140	9,250	800.00	13,838.16
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320	0.00	0.00
M.C.-DVRFA-INTEREST PAYMIN	07472 1010	2,043	0.00	0.00
TOTAL EXPENSES		127,311	800.00	121,098.18
<b>NET OPERATING</b>		<b>(3,250)</b>	<b>1,200.25</b>	<b>3,601.47</b>
<b>MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING</b>				
<b>12,051.45</b>				
<b>MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING</b>				
<b>1,189,086.37</b>				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000		INTEREST EARNINGS			0.00				
	1701	JE 56730		0.23		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701		0.00	0.23	-0.23				
	1702	57134		0.06		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702		0.00	0.06	-0.29				
	1703	57173		3.23		03/08/17	INTEREST		ADD'L INTEREST ADDED FROM JAN. 2017
		57549		0.61		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703		0.00	3.84	-4.13				
	1704	57927		1.06		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704		0.00	1.06	-5.19				
	1705	58423		0.96		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705		0.00	0.96	-6.15				
	1706	58876		0.66		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
	1706		0.00	0.66	-6.81				
	1707	59333		0.16		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
	1707		0.00	0.16	-6.97				
	1708	59780		0.13		09/01/17	INTEREST		INTEREST EARNED AUGUST 2017 07100.1000
	1708		0.00	0.13	-7.10				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	1709	JE	60193		0.13		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
	1709			0.00	0.13	-7.23				
	1710		60626		0.17		11/03/17	INTEREST		INTEREST EARNED OCTOBER 2017 07 FUND
	1710			0.00	0.17	-7.40				
	1711		60997		0.25		12/01/17	INTEREST		INTEREST EARNED NOVEMBER 2017 07 FUND
	1711			0.00	0.25	-7.65				
07341-1000	****	***	****	0.00	7.65	-7.65				
07341-1020	INTEREST EARNED - CONSTRUCTION					0.00				
	1701		56730		594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701			0.00	594.59	-594.59				
	1702		57134		536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702			0.00	536.20	-1,130.79				
	1703		57549		743.58		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703			0.00	743.58	-1,874.37				
	1704		57927		854.28		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	854.28	-2,728.65				
	1705		58423		815.38		06/02/17	INTEREST		INTEREST EARNED MAY 2017 07 FUND
	1705			0.00	815.38	-3,544.03				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1706	JE 58876		843.23		07/03/17	INTEREST		INTEREST EARNED JUNE 2017 07 FUND
1706			0.00	843.23	-4,387.26				
1707		59333		982.28		08/01/17	INTEREST		INTEREST EARNED JULY 2017 07 FUND
1707			0.00	982.28	-5,369.54				
1708		59796		980.51		09/05/17	INTEREST		INTEREST EARNED AUGUST 2017 07 FUND
1708			0.00	980.51	-6,350.05				
1709		60193		948.30		10/02/17	INTEREST		INTEREST EARNED SEPT. 2017 07 FUND
1709			0.00	948.30	-7,298.35				
1710		60626		981.39		11/03/17	INTEREST		INTEREST EARNED OCTOBER 2017 07 FUND
1710			0.00	981.39	-8,279.74				
1711		60997		950.14		12/01/17	INTEREST		INTEREST EARNED NOVEMBER 2017 07 FUND
1711			0.00	950.14	-9,229.88				
07341-1020	****	*** ****	0.00	9,229.88	-9,229.88				
07364-1100	C.C.	TAPPING FEES			0.00				
1704		57798		2,000.00		04/25/17	RECLASS		RECLASS TAP IN FEE
	RE	57797		2,000.00		04/25/17	57797 1		SEWER TAP IN - 5 SCHOOL LN C.C. TAPPING FEES
1704			0.00	4,000.00	-4,000.00				
1708		59745		2,000.00		08/31/17	CK105		TAP IN FEE-1418 E. STRASBRG C.C. TAPPING FEES



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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1708			0.00	2,000.00	-6,000.00				
1711		60793		2,000.00		11/15/17	60793 1		GUNNISON DEV-1416 E STRASBURG C.C. TAPPING FEES
1711			0.00	2,000.00	-8,000.00				
07364-1100	****	*** ****	0.00	8,000.00	-8,000.00				
07364-1110		R.C.TAPPING FEES			0.00				
1704	JE	57798	2,000.00			04/25/17	RECLASS		RECLASS TAP IN FEE
	RE	57795		2,000.00		04/25/17	57795 1		SEWER TAP IN - 3 SCHOOL LN
1704			2,000.00	2,000.00	0.00				
07364-1110	****	*** ****	2,000.00	2,000.00	0.00				
07364-1130		CONNECTION FEES - SEWER			0.00				
1702	CR	56762		423.00		02/07/17	125 25	10162	1 JACOBS, ROBERT & CHERYL
		56823		423.00		02/13/17	125 26	10160	1 GEORGE SMITH & CHRISTINA CONLE
				423.00		02/13/17	125 27	10161	1 STOFFLET, MICHAEL
	**		0.00	846.00	***				
1702			0.00	1,269.00	-1,269.00				
1703		57212		423.00		03/09/17	125 54	10163	1 PAPPANO, JOSEPH & PATRICIA
1703			0.00	423.00	-1,692.00				
1710	JE	60551	564.48			10/27/17	PINE ROCK		ANNUAL PINE ROCK INSTALL.PMTS FEB&MAR 2017 INTEREST
1710			564.48	0.00	-1,127.52				
07364-1130	****	*** ****	564.48	1,692.00	-1,127.52				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07380-1000		MISCELLANEOUS REVENUE			0.00				
				564.48		10/27/17	PINE ROCK		ANNUAL PINE ROCK INSTALL.PMTS FEB&MAR 2017 INTEREST
1710			0.00	564.48	-564.48				
07380-1000	****	*** ****	0.00	564.48	-564.48				
07392-0500		TRANSFER FROM SEWER OPERATING			0.00				
1703		57171		25,000.00		03/08/17	DEPOSIT		DEPOSIT FR: SEWER TO MUNICIPAL
1703			0.00	25,000.00	-25,000.00				
1704		57579		40,000.00		04/06/17	DEPOSIT		DEPOSIT TO MA ACCT.7100.1000
1704			0.00	40,000.00	-65,000.00				
1707		59229		5,000.00		07/26/17	XFER		XFER \$ FROM 05 TO 07 OPERATING
1707			0.00	5,000.00	-70,000.00				
1709		60005		20,000.00		09/19/17	XFER		XFER \$ FROM SEWER TO MA
1709			0.00	20,000.00	-90,000.00				
1710		60431		25,000.00		10/19/17	XFER		XFER \$ FROM 05 TO 07
1710			0.00	25,000.00	-115,000.00				
07392-0500	****	*** ****	0.00	115,000.00	-115,000.00				
07424-1400		ADMINISTRATIVE WAGES			0.00				
1703	CD	57378	7,724.00			03/22/17	3048		425 EAST GOSHEN TOWNSHIP - GENERAL QTR.1 2017 REIMBURSEMENT FROM MA
1703			7,724.00	0.00	7,724.00				
1706		58848	7,724.00			06/30/17	3059		425 EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.2 REIMBURSEMENT FROM MA

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1706			7,724.00	0.00	15,448.00				
1709	60160		7,724.00			09/29/17	3103	425	EAST GOSHEN TOWNSHIP - GENERAL 2017 QTR.3 REIMBURSEMENT - MA
1709			7,724.00	0.00	23,172.00				
07424-1400	****	*** ****	23,172.00	0.00	23,172.00				
07424-3000	MISCELLANEOUS EXPENSE				0.00				
1701		56280	984.30			01/04/17	3040	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES
		56424	3.22			01/13/17	3041	425	EAST GOSHEN TOWNSHIP - GENERAL CORRECT BB&T DEPOSIT OF REMAININ BALANCE OF CLOSED ACCT.1100.1010 07100.1000
1701			987.52	0.00	987.52				
1706	58814		1,220.00			06/29/17	3058	3871	DELAWARE RIVER BASIN COMMISSION D-1984-056 CP ANNUAL FEE - WATER DISCHARGE
1706			1,220.00	0.00	2,207.52				
07424-3000	****	*** ****	2,207.52	0.00	2,207.52				
07424-3110	MUNIC.AUTH.-AUDITING				0.00				
1703		57470	4,600.00			03/30/17	3049	808	MAILLIE FALCONIERO & CO. PROGRESS BILLING 2016 MUN.AUTH.
1703			4,600.00	0.00	4,600.00				
1704	57655		4,600.00			04/13/17	3052	808	MAILLIE FALCONIERO & CO. 2016 EXAM. FINAN. STMTS. MUN.AUT
1704			4,600.00	0.00	9,200.00				
07424-3110	****	*** ****	9,200.00	0.00	9,200.00				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130					0.00				
			ENGINEERING SERVICES						
	1701	56425	4,399.50			01/13/17	3042	1052	PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
	1701		4,399.50	0.00	4,399.50				
	1702	56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
	1702		2,044.00	0.00	6,443.50				
	1703	57328	7,962.00			03/17/17	3047	1052	PENNONI ASSOCIATES INC. SERV. THRU 2/12/17 2017 GEN. SERV
	1703		7,962.00	0.00	14,405.50				
	1704	57510	5,416.50			04/03/17	3050	1052	PENNONI ASSOCIATES INC. SERV. THRU 12/11/16 2016 GEN. SERV
		57655	7,306.50			04/13/17	3053	1052	PENNONI ASSOCIATES INC. SERVICE THRU 3/19/17 RCSTP PERMI
	1704		12,723.00	0.00	27,128.50				
	1705	58070	8,211.75			05/11/17	3054	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/16/17 RCSTP & PUM STATION
	1705		8,211.75	0.00	35,340.25				
	1706	58614	2,805.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 RCSTP PERM
	1706		2,805.25	0.00	38,145.50				
	1707	58978	3,166.75			07/12/17	3060	1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/18/17 WHITE CHIM
	1707		3,166.75	0.00	41,312.25				
	1708	59496	2,621.25			08/11/17	3063	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/16/17-2017 GEN. S
	1708		2,621.25	0.00	43,933.50				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1709	CD	59939	9,869.50			09/13/17	3101	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 SUPPLEE VAL.P
			60029	1,205.75			09/20/17	3102	1052	PENNONI ASSOCIATES INC. SERVICE THRU 8/13/17 RCSTP & PS
1709				11,075.25	0.00	55,008.75				
1710	60328			17,671.75			10/12/17	3104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 9/17/17 2017 GEN.SE
1710				17,671.75	0.00	72,680.50				
07424-3130	****	***	****	72,680.50	0.00	72,680.50				
07424-3140	LEGAL SERVICES					0.00				
1701		56550		940.00			01/25/17	3043	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - DEC. 2016 GEN.AU
1701				940.00	0.00	940.00				
1702	56874			597.50			02/17/17	3044	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN.2017 GEN.AUT
1702				597.50	0.00	1,537.50				
1703	57328			655.00			03/17/17	3046	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. FEB.2017 GEN.AUTHORI
1703				655.00	0.00	2,192.50				
1704	57655			2,140.00			04/13/17	3051	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2017 GEN.A
1704				2,140.00	0.00	4,332.50				
1705	58187			2,407.41			05/19/17	3055	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 4/4-4/28/17 GEN.AU
1705				2,407.41	0.00	6,739.91				
1706	58614			1,640.00			06/14/17	3056	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. - MAY 2017 GEN.AUTH.



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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1706	CD 58614	1,723.25			06/14/17	3057	1052	PENNONI ASSOCIATES INC. SERVICES THRU 5/14/17 2017 GEN.S
		**	3,363.25	0.00 ***					
1706			3,363.25	0.00	10,103.16				
1708	59496		1,460.00			08/11/17	3062	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE JUNE 2017 - GEN.AU
1708			1,460.00	0.00	11,563.16				
1709	59939		440.00			09/13/17	3100	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - AUG. 2017 GEN.AU
1709			440.00	0.00	12,003.16				
1710	60402		1,035.00			10/18/17	3105	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - 9/19/17 REV.SEW TREATMENT WGTMA
1710			1,035.00	0.00	13,038.16				
1711	60730		800.00			11/13/17	3106	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 10/9-10/24/17 GEN.AU
1711			800.00	0.00	13,838.16				
07424-3140	****	*** ****	13,838.16	0.00	13,838.16				
07428-1000	RESERVOIR PUMP STATION - ENGINEER				0.00				
1701	56426		2,546.50			01/13/17	22002	1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/16/16 RESERV.RD
	56551		375.00			01/25/17	22003	263	CHESTER COUNTY CONSERVATION DISTRICT RESERVOIR RD. NPDES PLAN REVIEW
1701			2,921.50	0.00	2,921.50				
1702	56875		1,422.75			02/17/17	22004	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 RESERV.RD
1702			1,422.75	0.00	4,344.25				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1704	CD 57511	1,784.25			04/03/17	22005	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/17 RESERVOIR RD.
		57656	1,516.50			04/13/17	22006	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/19/17 RESERV.RD PS
1704			3,300.75	0.00	7,645.00				
1705	58071		1,261.50			05/11/17	22007	1052	PENNONI ASSOCIATES INC. SERVICES THRU 4/16/17 RESERV.RD
1705			1,261.50	0.00	8,906.50				
1706	58616		2,083.00			06/14/17	22009	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 RESERV.RD P
1706			2,083.00	0.00	10,989.50				
1707	58979		2,726.00			07/12/17	22010	1052	PENNONI ASSOCIATES INC. SERVICE THRU 6/18/17 RESERV.RD P
1707			2,726.00	0.00	13,715.50				
1708	59495		2,589.25			08/11/17	22011	1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 RESERVOR RD
1708			2,589.25	0.00	16,304.75				
1709	59942		80.25			09/13/17	22012	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/13/17 RESERV.RD PS
1709			80.25	0.00	16,385.00				
1710	60329		75.75			10/12/17	22013	1052	PENNONI ASSOCIATES INC. SERV.THUR 9/17/17 RESERV.RD PS
1710			75.75	0.00	16,460.75				
07428-1000	****	*** ****	16,460.75	0.00	16,460.75				
07429-6100	WEST GOSHEN CAPITAL				0.00				
	1705	58071	705.00			05/11/17	22007	1052	PENNONI ASSOCIATES INC. SERV. THRU 4/16/17 W.GOSHEN SEWE

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07429-6100	1705	CD	58071	220,814.48			05/11/17	22008	3843	WEST GOSHEN SEWER AUTHORITY PROJECT COSTS RE: CONSTRUCTION, LABOR, PARTS, ENGINEERING, LEGAL TESTING
		**		221,519.48	0.00	***				
1705				221,519.48	0.00	221,519.48				
1706		58616		1,146.00			06/14/17	22009	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/24/17 W.GOSHEN SE
1706				1,146.00	0.00	222,665.48				
1708		59495		269.25			08/11/17	22011	1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/16/17 W.GOSH SEWE
1708				269.25	0.00	222,934.73				
07429-6100	****	***	****	222,934.73	0.00	222,934.73				
Grand Total				363,058.14	136,494.01	226,564.13				

Source	Debits	Credits
JE	2,564.48	126,802.01
RE	0.00	8,000.00
CR	0.00	1,692.00
CD	360,493.66	0.00
	363,058.14	136,494.01

East Goshen Municipal Authority  
Tabulation of Bids Received Until 10:00 a.m.  
Prevailing time on November 6, 2017

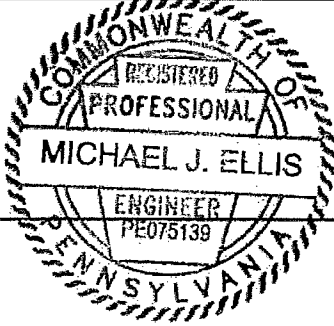
CONTRACT No. SSPL-2017  
SUPPLEE VALLEY SANITARY SEWER PIPE LINING

			SWERP Incorporated 1237 Hayes Boulevard Bristol, PA 19007 (P) 215-785-2242		Kenyon Pipeline Inspection 68 Park Road Queensbury, NY 12804 (P) 518-832-4070		Mr. Rehab, Inc Three Long Lane Mechanicsburg, PA 17050 (P) 717-697-1242		Standard Pipe Services, LLC 567 Walther Road Newark, DE 19702 (P) 302-286-0701		IPR Northeast, LLC 10555 Tucker Street Beltsville, MD 20705 (P) 301-593-0312		Abel Recon P.O. Box 476 Mounjville, PA 17554 (P) 717-285-3103		Insituform Technologies, LLC 17988 Edison Ave Chesterfield, MO 63005 (P) 636-530-8000	
ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY/UNIT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT
BASE BID																
1	Cured-In-Place Pipe Lining of 8" Pipe within Township Roads	2,220 L.F.	\$31.00	\$68,820.00	\$32.00	\$71,040.00	\$31.77	\$70,529.40	\$35.00	\$77,700.00	\$36.75	\$81,585.00	\$31.42	\$69,752.40	\$32.00	\$71,040.00
2	Cured-In-Place Pipe Lining of 8" Pipe within Easements	1,009 L.F.	\$32.00	\$32,288.00	\$32.00	\$32,288.00	\$31.77	\$32,055.93	\$35.00	\$35,315.00	\$37.00	\$37,333.00	\$31.42	\$31,702.78	\$42.50	\$42,882.50
3	Lateral Reinstatements	33 E.A.	\$100.00	\$3,300.00	\$250.00	\$8,250.00	\$225.00	\$7,425.00	\$200.00	\$6,600.00	\$10.00	\$330.00	\$202.00	\$6,666.00	\$110.00	\$3,630.00
4	Manhole Pressure Grouting	2 E.A.	\$1,900.00	\$3,800.00	\$1,775.00	\$3,550.00	\$3,312.22	\$6,624.44	\$800.00	\$1,600.00	\$2,322.25	\$4,644.50	\$1,736.00	\$3,472.00	\$2,300.00	\$4,600.00
5	Grout	50 GAL.	\$50.00	\$2,500.00	\$25.00	\$1,250.00	\$25.00	\$1,250.00	\$5.00	\$250.00	\$9.00	\$450.00	\$8.70	\$435.00	\$9.00	\$450.00
TOTAL BASE BID (Based on Estimated Quantities)				\$110,708.00		\$116,378.00		\$117,884.77		\$121,465.00		\$124,342.50		\$112,028.18		\$122,602.50
ADD ITEMS																
6	Cured-In-Place Pipe Lining of 8" Pipe between MH C384 to MH C040	305 L.F.	\$42.00	\$12,810.00	\$32.00	\$9,760.00	\$35.08	\$10,699.40	\$35.00	\$10,675.00	\$33.25	\$10,141.25	\$42.75	\$13,038.75	\$42.50	\$12,962.50
7	Cured-In-Place Pipe Lining of 8" Pipe between MH C411 to MH C410	145 L.F.	\$40.00	\$5,800.00	\$32.00	\$4,640.00	\$35.08	\$5,086.60	\$35.00	\$5,075.00	\$54.00	\$7,830.00	\$42.75	\$6,198.75	\$56.50	\$8,192.50
8	Cured-In-Place Pipe Lining of 8" Pipe between MH C417 to MH C416	262 L.F.	\$34.00	\$8,908.00	\$32.00	\$8,384.00	\$35.08	\$9,190.96	\$35.00	\$9,170.00	\$36.25	\$9,497.50	\$42.75	\$11,200.50	\$36.50	\$9,563.00
9	Cured-In-Place Pipe Lining of 8" Pipe between MH C407 to MH C406	159 L.F.	\$34.00	\$5,406.00	\$32.00	\$5,088.00	\$35.08	\$5,577.72	\$35.00	\$5,565.00	\$50.50	\$8,029.50	\$42.75	\$6,797.25	\$45.50	\$7,234.50
10	Cured-In-Place Pipe Lining of 8" Pipe between MH C394 to MH C385	318 L.F.	\$32.00	\$10,176.00	\$32.00	\$10,176.00	\$35.08	\$11,155.44	\$35.00	\$11,130.00	\$32.50	\$10,335.00	\$42.75	\$13,594.50	\$34.00	\$10,812.00
11	Cured-In-Place Pipe Lining of 8" Pipe between MH C042I to MH C042H	278 L.F.	\$34.00	\$9,452.00	\$32.00	\$8,896.00	\$35.08	\$9,752.24	\$35.00	\$9,730.00	\$35.00	\$9,730.00	\$42.75	\$11,884.50	\$36.00	\$10,008.00
12	Cured-In-Place Pipe Lining of 8" Pipe between MH C042G to MH C042F	305 L.F.	\$32.00	\$9,760.00	\$32.00	\$9,760.00	\$35.08	\$10,699.40	\$35.00	\$10,675.00	\$33.25	\$10,141.25	\$42.75	\$13,038.75	\$34.50	\$10,522.50
13	Lateral Reinstatements	25 E.A.	\$100.00	\$2,500.00	\$250.00	\$6,250.00	\$225.00	\$5,625.00	\$200.00	\$5,000.00	\$10.00	\$250.00	\$202.00	\$5,050.00	\$110.00	\$2,750.00
TOTAL BID FOR CONTRACT SSPL-2017 INCLUDING BASE BID and ALL ADD ITEMS (Based on Estimated Quantities)				\$175,520.00		\$179,332.00		\$185,671.53		\$188,485.00		\$190,297.00		\$192,831.18		\$194,647.50
BID SECURITY				10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid

We Declare this to be a true Tabulation of Bids Received on November 6, 2017  
by East Goshen Municipal Authority for Contract No. SSPL-2017.

PENNONI ASSOCIATES INC.

  
Michael J. Ellis, P.E., PA Reg. No. PE075139  
FOR: PENNONI ASSOCIATES INC.



CONTRACT No. SSPL-2017  
SUPPLEE VALLEY SANITARY SEWER PIPE LINING

SAK Construction, LLC  
864 Hoff Road  
O'Fallon, MO 63366  
(P) 636-385-1000

AM-Liner East, Inc  
601 Jack Enders Blvd.  
Berryville, VA 22611  
(P) 540-955-9671

National Water Main Cleaning  
Co.  
1806 Newark Turnpike  
Kearny, NJ 07032  
(P) 973-483-3200

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY/UNIT		UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT
BASE BID									
1	Cured-In-Place Pipe Lining of 8" Pipe within Township Roads	2,220	L.F.	\$35.00	\$77,700.00	\$35.91	\$79,720.20	\$38.75	\$86,025.00
2	Cured-In-Place Pipe Lining of 8" Pipe within Easements	1,009	L.F.	\$35.00	\$35,315.00	\$39.24	\$39,593.16	\$38.75	\$39,098.75
3	Lateral Reinstatements	33	E.A.	\$75.00	\$2,475.00	\$100.00	\$3,300.00	\$50.00	\$1,650.00
4	Manhole Pressure Grouting	2	E.A.	\$1,000.00	\$2,000.00	\$1,500.00	\$3,000.00	\$500.00	\$1,000.00
5	Grout	50	GAL.	\$50.00	\$2,500.00	\$13.20	\$660.00	\$110.00	\$5,500.00
TOTAL BASE BID (Based on Estimated Quantities)					\$119,990.00		\$126,273.36		\$133,273.75
ADD ITEMS									
6	Cured-In-Place Pipe Lining of 8" Pipe between MH C384 to MH C040	305	L.F.	\$43.00	\$13,115.00	\$37.70	\$11,498.50	\$44.50	\$13,572.50
7	Cured-In-Place Pipe Lining of 8" Pipe between MH C411 to MH C410	145	L.F.	\$43.00	\$6,235.00	\$73.15	\$10,606.75	\$44.50	\$6,452.50
8	Cured-In-Place Pipe Lining of 8" Pipe between MH C417 to MH C416	262	L.F.	\$43.00	\$11,266.00	\$41.23	\$10,802.26	\$44.50	\$11,659.00
9	Cured-In-Place Pipe Lining of 8" Pipe between MH C407 to MH C406	159	L.F.	\$43.00	\$6,837.00	\$73.15	\$11,630.85	\$44.50	\$7,075.50
10	Cured-In-Place Pipe Lining of 8" Pipe between MH C394 to MH C385	318	L.F.	\$43.00	\$13,674.00	\$38.57	\$12,265.26	\$44.50	\$14,151.00
11	Cured-In-Place Pipe Lining of 8" Pipe between MH C042I to MH C042H	278	L.F.	\$43.00	\$11,954.00	\$38.57	\$10,722.46	\$44.50	\$12,371.00
12	Cured-In-Place Pipe Lining of 8" Pipe between MH C042G to MH C042F	305	L.F.	\$43.00	\$13,115.00	\$38.57	\$11,763.85	\$44.50	\$13,572.50
13	Lateral Reinstatements	25	E.A.	\$75.00	\$1,875.00	\$100.00	\$2,500.00	\$50.00	\$1,250.00
TOTAL BID FOR CONTRACT SSPL-2017 INCLUDING BASE BID and ALL ADD ITEMS (Based on Estimated Quantities)					\$198,061.00		\$208,063.29		\$213,377.75
BID SECURITY					10 % of Bid		10 % of Bid		10 % of Bid

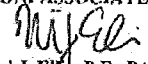


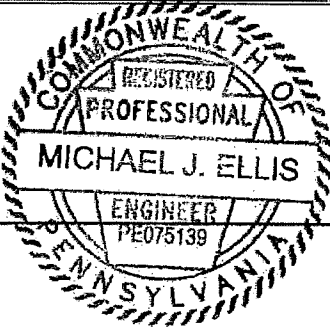
CONTRACT No. SSPL-2017  
SUPPLEE VALLEY SANITARY SEWER PIPE LINING

CONTRACT No. SSPL-2017 SUPPLEE VALLEY SANITARY SEWER PIPE LINING				SWERP Incorporated 1237 Hayes Boulevard Bristol, PA 19007 (P) 215-785-2242		Kenyon Pipeline Inspection 68 Park Road Queensbury, NY 12804 (P) 518-832-4070		Mr. Rehab, Inc Three Long Lane Mechanicsburg, PA 17050 (P) 717-697-1242		Standard Pipe Services, LLC 567 Walther Road Newark, DE 19702 (P) 302-286-0701		IPR Northeast, LLC 10555 Tucker Street Beltsville, MD 20705 (P) 301-595-0312		Abel Recon P.O. Box 476 Mounjville, PA 17554 (P) 717-285-3103		Insituform Technologies, LLC 17988 Edison Ave Chesterfield, MO 63005 (P) 636-530-8000	
ITEM NO.	DESCRIPTION			ESTIMATED QUANTITY/UNIT		UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT
BASE BID																	
1	Cured-In-Place Pipe Lining of 8" Pipe within Township Roads			2,220	L.F.	\$31.00	\$68,820.00	\$32.00	\$71,040.00	\$31.77	\$70,529.40	\$35.00	\$77,700.00	\$36.75	\$81,585.00	\$31.42	\$69,752.40
2	Cured-In-Place Pipe Lining of 8" Pipe within Easements			1,009	L.F.	\$32.00	\$32,288.00	\$32.00	\$32,288.00	\$31.77	\$32,055.93	\$35.00	\$35,315.00	\$37.00	\$37,333.00	\$31.42	\$31,702.78
3	Lateral Reinstatements			33	EA.	\$100.00	\$3,300.00	\$250.00	\$8,250.00	\$225.00	\$7,425.00	\$200.00	\$6,600.00	\$10.00	\$330.00	\$202.00	\$6,666.00
4	Manhole Pressure Grouting			2	EA.	\$1,900.00	\$3,800.00	\$1,775.00	\$3,550.00	\$3,312.22	\$6,624.44	\$800.00	\$1,600.00	\$2,322.25	\$4,644.50	\$1,736.00	\$3,472.00
5	Grout			50	GAL.	\$50.00	\$2,500.00	\$25.00	\$1,250.00	\$25.00	\$1,250.00	\$5.00	\$250.00	\$9.00	\$450.00	\$8.70	\$435.00
	TOTAL BASE BID (Based on Estimated Quantities)						\$110,708.00		\$116,378.00		\$117,884.77		\$121,465.00		\$124,342.50		\$112,028.18
ADD ITEMS																	
6	Cured-In-Place Pipe Lining of 8" Pipe between MH C384 to MH C040			305	L.F.	\$42.00	\$12,810.00	\$32.00	\$9,760.00	\$35.08	\$10,699.40	\$35.00	\$10,675.00	\$33.25	\$10,141.25	\$42.75	\$13,038.75
7	Cured-In-Place Pipe Lining of 8" Pipe between MH C411 to MH C410			145	L.F.	\$40.00	\$5,800.00	\$32.00	\$4,640.00	\$35.08	\$5,086.60	\$35.00	\$5,075.00	\$54.00	\$7,830.00	\$42.75	\$6,198.75
8	Cured-In-Place Pipe Lining of 8" Pipe between MH C417 to MH C416			262	L.F.	\$34.00	\$8,908.00	\$32.00	\$8,384.00	\$35.08	\$9,190.96	\$35.00	\$9,170.00	\$36.25	\$9,497.50	\$42.75	\$11,200.50
9	Cured-In-Place Pipe Lining of 8" Pipe between MH C407 to MH C406			159	L.F.	\$34.00	\$5,406.00	\$32.00	\$5,088.00	\$35.08	\$5,577.72	\$35.00	\$5,565.00	\$50.50	\$8,029.50	\$42.75	\$6,797.25
10	Cured-In-Place Pipe Lining of 8" Pipe between MH C394 to MH C385			318	L.F.	\$32.00	\$10,176.00	\$32.00	\$10,176.00	\$35.08	\$11,155.44	\$35.00	\$11,130.00	\$32.50	\$10,335.00	\$42.75	\$13,594.50
11	Cured-In-Place Pipe Lining of 8" Pipe between MH C042I to MH C042H			278	L.F.	\$34.00	\$9,452.00	\$32.00	\$8,896.00	\$35.08	\$9,752.24	\$35.00	\$9,730.00	\$35.00	\$9,730.00	\$42.75	\$11,884.50
12	Cured-In-Place Pipe Lining of 8" Pipe between MH C042G to MH C042F			305	L.F.	\$32.00	\$9,760.00	\$32.00	\$9,760.00	\$35.08	\$10,699.40	\$35.00	\$10,675.00	\$33.25	\$10,141.25	\$42.75	\$13,038.75
13	Lateral Reinstatements			25	E.A.	\$100.00	\$2,500.00	\$250.00	\$6,250.00	\$225.00	\$5,625.00	\$200.00	\$5,000.00	\$10.00	\$250.00	\$202.00	\$5,050.00
	TOTAL BID FOR CONTRACT SSPL-2017 INCLUDING BASE BID and ALL ADD ITEMS (Based on Estimated Quantities)					\$175,520.00		\$179,332.00		\$185,671.53		\$188,485.00		\$190,297.00		\$192,831.18	
	BID SECURITY					10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid		10 % of Bid	

We Declare this to be a true Tabulation of Bids Received on November 6, 2017  
by East Goshen Municipal Authority for Contract No. SSPL-2017.

PENNONI ASSOCIATES INC.

  
Michael J. Ellis, P.E., PA Reg. No. PE075139  
FOR: PENNONI ASSOCIATES INC.



**Sue Smith**

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**From:** Michael Ellis <MEllis@Pennoni.com>  
**Sent:** Wednesday, November 08, 2017 12:45 PM  
**To:** Mark Miller; rsmith@eastgoshen.org  
**Cc:** 'Sue Smith'  
**Subject:** Supplee Valley CIPPL - Construction Phase Proposal and Fee Supplement  
**Attachments:** EGMA Proposal Ltr.pdf

Mark and Rick,

Please find attached a proposal for construction phase services for the subject project. The proposed fee is more than that noted in the original design proposal email below because the construction scope is now more than double that which we had originally anticipated.

We also respectfully request a supplement for the design and bid assistance effort due to additional/amended scope. The approved budget per the email scope below was \$7,000. I anticipate the actual effort will end up at \$9,500 - \$10,000 since a bid doc was originally prepared solely for the Year 1 scope, but was re-written to include all recommended scope in the contract via individual add items (rather than just the original Year 1 scope). There was also more bid assistance effort, namely evaluation of a bidder's question for use of a UV-cured fiberglass lining system as an equivalent repair and preparation of a specification section for that system. Please note this additional effort is in lieu of another full bid document and bid services next year (which would be ±\$4,000-\$5,000) since it appears all the scope will be able to be awarded and constructed in this first year.

As always, please do not hesitate to call if you would like to discuss.

Respectfully,  
Mike

**Michael Ellis, PE**  
Municipal Division Manager

**Pennoni**  
121 Continental Drive, Suite 207 | Newark, DE 19713  
**Direct:** 302-351-5236 | **Mobile:** 302-561-4235  
[www.pennoni.com](http://www.pennoni.com) | [MEllis@Pennoni.com](mailto:MEllis@Pennoni.com)

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**From:** Michael Ellis  
**Sent:** Thursday, July 06, 2017 3:18 PM  
**To:** 'Mark Miller' <[mmiller@eastgoshen.org](mailto:mmiller@eastgoshen.org)>  
**Cc:** [rsmith@eastgoshen.org](mailto:rsmith@eastgoshen.org); 'Sue Smith' <[ssmith@eastgoshen.org](mailto:ssmith@eastgoshen.org)>  
**Subject:** RE: Pipe Slip lining

Mark,

Based on our discussion, we would review existing videos of the subject pipes, field observe manhole conditions, make recommendations for repairs to pipes and manholes, and work with you to prioritize repairs to fit within this year's available budget. Pipe repairs are expected to be manhole-to-manhole cured-in-place pipe liners and may also involve cured-in-place point repairs and pipe/lateral grouting. Manholes are expected to be rehabilitated using the Spraywall material used last year in White Chimneys.

Depending upon the scope of pipe repairs, we may be able to use Costars and avoid a full bid document and bidding process. However, since we don't yet know if the required repairs will be available via Costars, I will assume for now that we will prepare a typical bid document with a few technical spec sections and a couple of scope exhibits.

I estimate the effort for the above scope to be \$6,000 - \$7,000 to be billed T&M at our approved hourly rates. For reference, the White Chimneys project last year ended up being \$6,577 for the design and bid docs.

We can provide an estimate for construction phase services once the rehab scope has been determine, but I would anticipate around \$6-8K for inspections and construction admin.

Mike

**From:** Mark Miller [<mailto:mmiller@eastgoshen.org>]

**Sent:** Thursday, July 06, 2017 6:22 AM

**To:** 'Sue Smith' <[ssmith@eastgoshen.org](mailto:ssmith@eastgoshen.org)>

**Cc:** Michael Ellis <[MEllis@Pennoni.com](mailto:MEllis@Pennoni.com)>

**Subject:** Pipe Slip lining

July 6, 2017

To Municipal Authority

From Mark Miller

Ref. Slip Lining

I would like your approval to have Mike Ellis prepare bid documents for slip lining and Manhole lining the lines in Supplee Valley. We have budgeted \$100,000.00 this year.

Thanks

Mark

**Mark S. Miller**

Director of Public Works

East Goshen Township

1580 Paoli Pike

West Chester, PA 19380

O: (610) 692-7171 x3402

F: (610) 692-8950

[mmiller@eastgoshen.org](mailto:mmiller@eastgoshen.org)

[www.eastgoshen.org](http://www.eastgoshen.org)

November 8, 2017

EGMA 1704

Rick Smith, Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

**Re: Award Recommendation  
Supplee Valley Sanitary Sewer Pipe Lining, Contract No. SSPL-2017**

Dear Mr. Smith:

We have tabulated the bids received through PennBid on November 6, 2017 for the referenced contract. The bid tabulation is attached.

As reflected in the bid tabulation, the low bidder for both the Base Bid and the Total Bid is SWERP Incorporated, located in Bristol, Pennsylvania, who submitted a Total Bid, including the Base Bid and all Add Items, of \$175,520.00 based upon estimated quantities.

We found the low bidder's submitted proposal to be complete, and we confirm their experience on similar projects. Therefore, we recommend SWERP Incorporated be awarded the contract.

We recommend the award be made for the Base Bid scope of work as well as all Add items.

Attached is SWERP Incorporated's original bid forms and a copy of their Bid Bond. We will return the original Bid Bond to the contractor upon execution of the contract.

Sincerely,

**PENNONI ASSOCIATES INC.**



Michael J. Ellis, PE  
Authority Engineer

Enclosures: Bid Tabulation  
Original Form of Guaranty  
Original Public Works Employment Verification Form  
Copy of Bid Bond

/lef

cc: East Goshen Municipal Authority  
Mark Miller, Public Works Director



Colonial Surety Company  
Administrative Office  
123 Tice Boulevard, Suite 250  
Woodcliff Lake, NJ 07677  
201-573-8788

## BID BOND

KNOW ALL PERSONS BY THESE PRESENTS

that we, **SWERP**

as Principal, and the COLONIAL SURETY COMPANY, a corporation under the laws of the Commonwealth of Pennsylvania, as Surety, are held and firmly bound unto

**East Goshen Township, West Chester, PA**

as Obligee in the sum of

**10% of amount bid not to exceed \$23000**

for the payment, whereof in lawful money of the United States, we bind ourselves, our heirs, administrators, executors or successors, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted the accompanying bid for  
**Supplee Valley Sanitary Sewer Pipe Lining**

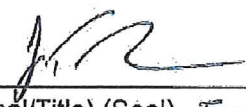
NOW, THEREFORE, if the said contract be awarded to the Principal and the Principal shall, within such time as may be specified, enter into the contract in writing, then this obligation shall be void: otherwise to remain in full force and effect. Provided, however, that if said contract is not awarded within 60 days of the date of bid opening, this bond shall be void and of no force and effect.

Signed and sealed this 6th day of November 2017.

Witness:

  
Patricia Whartenby

**SWERP**

  
(Principal/Title) (Seal) *James T. Brooks, V.P.*

**Colonial Surety Company**

Witness:

  
Patricia Whartenby

  
Philip Shepard (Attorney-in-fact) (Seal)



# COLONIAL SURETY COMPANY

Home Office: 120 Railroad Street, Duncannon, Pennsylvania 17020

## GENERAL POWER OF ATTORNEY

Know all Men by These Presents, That COLONIAL SURETY COMPANY, a corporation duly organized and existing under the laws of the Commonwealth of Pennsylvania and having an office in Duncannon, Perry County, PA does by these presents make, constitute and appoint Philip Shepard of Bristol, PA its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver.

### Bid Bonds and Consent of Surety Only

and to bind the Company thereby as fully and to the same extent as if such bids were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolution adopted by the Board of Directors of the Colonial Surety Company at a meeting held on the 25th day of July, 1950.

"Be it Resolved, that the President, any Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

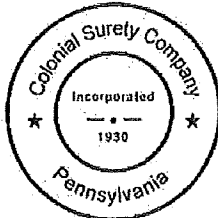
"Section 1. Attorney-in-Fact. Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, bid bonds and consent of surety only, recognizances, contracts, agreements of indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and attested by the Corporate Secretary."

"In Witness Whereof, Colonial Surety Company has caused these presents to be signed by its \_\_\_\_\_ President and its corporate seal to be hereto affixed the \_\_\_\_\_ 17th day of \_\_\_\_\_ May, A.D., 2017.

Commonwealth of PA

County of Perry

} SS.



COLONIAL SURETY COMPANY

By

Wayne Nunziata, President

On this \_\_\_\_\_ 17th day of \_\_\_\_\_ May, in the year 2017, before me \_\_\_\_\_ Darlene L. Kapp, a notary public, personally appeared \_\_\_\_\_ Wayne Nunziata, personally known to me to be the person who executed the within instrument as \_\_\_\_\_ President, on behalf of the corporation therein named and acknowledged to me that the corporation executed it.



COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL  
DARLENE L. KAPP, Notary Public  
Camp Hill Boro, Cumberland County  
My Commission Expires October 23, 2017

Darlene L. Kapp

Notary Public

I, the undersigned Secretary of Colonial Surety Company, hereby certify that the above and foregoing is a full, true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in force and effect.

And I do hereby further certify that the Certification of this Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolution adopted by the Board of Directors of the Colonial Surety Company at a meeting duly called and held on the 30th of January 1968, and that said resolution has not been amended or repealed:

RESOLVED, that the signature of the Secretary or any Assistant Secretary of this Corporation, and the seal of Corporation, may be affixed or printed by facsimile to any certificate to a Power of Attorney of this Corporation, and that such printed facsimile signature and seal shall be valid and binding upon this Corporation."

GIVEN under my hand and the seal of said Company, at Duncannon, Pennsylvania this \_\_\_\_\_ 6th day of \_\_\_\_\_ November, 2017.

Original printed with Blue and/or Black Ink.  
For verification of the authenticity of this Power of Attorney you may call (201) 573-8766 and ask for the Power of Attorney clerk. Please refer to the above named individual(s) and date of the bond to which the power is attached.

Audie B. Murphy, Secretary

## Balance Sheet as at December 31, 2016

**THERESA SPINELLI**  
A Notary Public of New Jersey  
My Commission Expires September 9, 2020

Supplee Valley Sanitary Sewer Pipe Lining  
Contract No. SSPL-2017

D. FORM OF GUARANTY

Accompanying this Bid is a Bid Bond in the amount of  
Ten Percent of the Total Bid Amount. Dollars (\$ 10% ) as bid security.

BULLETINS:

The bidder acknowledges receipt of the hereinafter enumerated bulletins which have been issued during period of bidding and agrees that said bulletins shall become a part of this contract. The bidder shall list below the numbers and issuing dates of the bulletins.

Bulletin No.

Issuing Date

Addendum No. 1

November 1, 2017

The undersigned hereby certifies that this Bid is genuine, and not sham or collusive, or submitted in the interest or on behalf of any person, firm or corporation not herein named, and has not, induced any other persons to refrain from biddings, and has not in any way sought by collusion to secure for himself an advantage over any other bidder.

FIRM NAME SWERP Incorporated

ADDRESS 1237 Hayes Boulevard

Bristol, PA 19007

PHONE 215-785-2242

Official Seal

Attest By

By

TITLE Patricia Whartenby, Asst. Secretary

TITLE James T. Brooks, V.P.

Supplee Valley Sanitary Sewer Pipe Lining  
Contract No. SSPL-2017

Section C, Form of Bid, is to be completed ELECTRONICALLY via PennBid™.

C. FORM OF BID

TO: East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380

Gentlemen:

This bid is submitted in accordance with your advertisement inviting bids to be received until 10:00 A.M., prevailing time, on the 6<sup>th</sup> day of November 2017 for:

***SUPPLEE VALLEY SANITARY SEWER PIPE LINING  
CONTRACT No. SSPL-2017***

Having carefully examined the Contract Documents together with all Addenda or Bulletins, as prepared by the Engineers, and being familiar with the various conditions affecting the work, (including those under the General Conditions which provide for the payment of liquidated damages to the Owner, hereafter set at \$100 per calendar day, in the event the contract is not completed within the allotted time) the undersigned agrees to furnish all labor, materials and equipment to construct and complete within 60 consecutive calendar days, all the necessary contract work, in accordance with said contract documents, for which the following units and/or lump sum prices are submitted.

Supplee Valley Sanitary Sewer Pipe Lining  
Contract No. SSPL-2017

Section C, Form of Bid, is to be completed ELECTRONICALLY via PennBid™.

*\*See PENNBID FORM\**

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>ESTIMATED TOTAL</u>
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**BASE BID**

1.	2,220 L.F.	Cured-In-Place Pipe Lining of 8" Pipe within Township Roads. Price complete, in place, per linear foot:	_____ DOLLARS \$ _____	\$ _____
2.	1,009 L.F.	Cured-In-Place Pipe Lining of 8" Pipe within Easements. Price complete, in place, per linear foot:	_____ DOLLARS \$ _____	\$ _____
3.	33 EA.	Lateral Reinstatements. Price complete, in place, per each:	_____ DOLLARS \$ _____	\$ _____
4.	2 EA.	Manhole Pressure Grouting. Price complete, in place, per each manhole:	_____ DOLLARS \$ _____	\$ _____
5.	50 GAL.	Grout. Price complete, in place, per gallon:	_____ DOLLARS \$ _____	\$ _____

**TOTAL BASE BID FOR CONTRACT NO. SSPL-2017**

(Based on Estimated Quantities of Items 1 through 6) \$ \_\_\_\_\_

**ADD ITEMS**

6.	305 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C384 to MH C040. Price complete, in place, per linear foot:	_____ DOLLARS \$ _____	\$ _____
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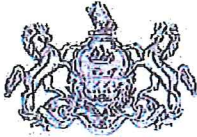
Supplee Valley Sanitary Sewer Pipe Lining  
Contract No. SSPL-2017

Section C, Form of Bid, is to be completed ELECTRONICALLY via PennBid™.

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>UNIT PRICE</u>	<u>ESTIMATED TOTAL</u>
7.	145 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C411 to MH C410. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____
8.	262 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C417 to MH C416. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____
9.	159 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C407 to MH C406. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____
10.	318 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C394 to MH C385. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____
11.	278 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C042I to MH C042H. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____
12.	305 L.F.	Cured-In-Place Pipe Lining of 8" Pipe between MH C042G to MH C042F. Price complete, in place, per linear foot:		
		_____ DOLLARS	\$ _____	\$ _____

Section C, Form of Bid, is to be completed ELECTRONICALLY via PennBid™.

**TOTAL AMOUNT BID FOR CONTRACT NO. SSPL-2017  
INCLUDING BASE BID AND ALL ADD ITEMS  
(Based on Estimated Quantities) \$ \_\_\_\_\_**



COMMONWEALTH OF PENNSYLVANIA

PUBLIC WORKS EMPLOYMENT VERIFICATION FORM

Date 11/06/2017

Business or Organization Name (Employer) SWERP Incorporated  
Address 1237 Hayes Boulevard  
City Bristol State PA Zip Code 19007

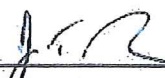
☒ Contractor ☐ Subcontractor (check one)

Contracting Public Body East Goshen Municipal Authority  
Contract/Project No Supplee Valley Sanitary Sewer Pipe Lining  
Project Description Cured-in-place pipe lining & manhole pressure grouting  
Project Location East Goshen Township, Chester County, PA 19380

As a contractor/subcontractor for the above referenced public works contract, I hereby affirm that as of the above date, our company is in compliance with the Public Works Employment Verification Act ('the Act') through utilization of the federal E-Verify Program (EVP) operated by the United States Department of Homeland Security. To the best of my/our knowledge, all employees hired post January 1, 2013 are authorized to work in the United States.

It is also agreed to that all public works contractors/subcontractors will utilize the federal EVP to verify the employment eligibility of each new hire within five (5) business days of the employee start date throughout the duration of the public works contract. Documentation confirming the use of the federal EVP upon each new hire shall be maintained in the event of an investigation or audit.

I, James T. Brooks, authorized representative of the company above, attest that the information contained in this verification form is true and correct and understand that the submission of false or misleading information in connection with the above verification shall be subject to sanctions provided by law.

  
Authorized Representative Signature  
James T. Brooks, V.P.

November 8, 2017

**East Goshen Municipal Authority**  
Attn: Rick Smith, Township Manager  
1580 Paoli Pike  
West Chester, PA 19380

**RE: Construction Phase Services Proposal  
Supplee Valley Sanitary Sewer Pipe Lining  
East Goshen Municipal Authority**

Dear Mr. Smith:

**Pennoni** is pleased to present the following proposal for construction phase services associated with the Supplee Valley Sanitary Sewer Pipe Lining.

#### **PROJECT DESCRIPTION**

The Supplee Valley Sanitary Sewer Pipe Lining project involves cured-in-place pipe lining of 5,046 L.F. of 8-inch diameter asbestos cement pipe and pressure grouting two manholes.

#### **SCOPE OF SERVICES**

The proposed scope of work for this phase of the project includes construction inspection and construction-phase office support with specific details as follows.

**Construction Inspection:** Part-time construction inspection for critical construction activities. We anticipate the construction duration will be 3 – 4 weeks. We expect to be on-site an average of 4 – 6 hours per day for an estimated 100 hours of total inspection time.

**Office Support:** Pennoni's engineers will provide support on the project with responses to contractor requests for information (RFIs), questions or requests for clarification from the Authority, support of the construction inspector, conducting the preconstruction meeting, review of contractor requests for payment and change order requests, and project closeout documentation. We have estimated 24 hours of office support time

#### **FEE**

Our estimated fee, to be billed on a time and materials basis at our approved hourly rates, is twelve thousand dollars (**\$12,000**).

#### **BILLING AND PAYMENT**

An invoice for professional services completed will be presented for payment on a monthly basis. Invoices are due upon receipt.

We appreciate the opportunity to submit this proposal. Should you have any questions or need additional information, please do not hesitate to call.

Sincerely,

**PENNONI ASSOCIATES INC.**



Michael J. Ellis, PE  
Authority Engineer

Please indicate your acceptance of this proposal by signing and returning a copy as our authorization to proceed. In signing this proposal, the Client authorizes Pennoni to complete the professional services outlined in this proposal.

**Accepted By:**

---

**(Authorized Representative of the Client)**

---

**(Print Name & Title)**

---

**(Date)**



## Sue Smith

---

**From:** Michael Ellis <MEllis@Pennoni.com>  
**Sent:** Wednesday, November 08, 2017 12:33 PM  
**To:** rsmith@eastgoshen.org; Mark Miller (mmiller@eastgoshen.org)  
**Cc:** 'ssmith@eastgoshen.org'  
**Subject:** 2017 MA General Services Budget Status

Rick and Mark,

Our originally approved 2017 Municipal Authority General Services (Pennoni project # EGMA1701) budget was \$12,700 (approved in December 2016). It was increased to \$21,700 in August as per the email chain below. It was supplemented again in October for an additional \$5,000 to cover projected work for the remainder of the year including November and December MA meetings, caustic soda pilot study coordination, a sketch plan for replacement of the sewer main on Tallmadge Drive, and limited assistance with other general engineering matters that may arise.

As per discussions with Mark after the meeting, it became apparent that the existing plans for Tallmadge Drive upon which we were going to use as a base plan for the sewer replacement were not believed to be accurate. We therefore conducted a one-day existing conditions and topographic field survey and prepared an existing conditions base plan from that info, which was not anticipated as part of the \$5,000 supplement. Additionally, engineering assistance is also projected for the Ashbridge PS force main evaluation, which came to light after the October MA meeting and is not included in the \$5,000 supplement.

I anticipate an additional \$6,000-\$8,000 will be needed for Tallmadge Drive, Ashbridge, RCSTP caustic soda trial, November and December MA meetings, and other limited general services for the remainder of 2017.

I would also like to break the Tallmadge Drive and Ashbridge work into individual projects if acceptable for ease of budget tracking and invoicing moving forward.

I will send a more detailed email by tomorrow with a breakdown of effort on the various tasks to-date and the expected effort for the tasks (similar to the table in the below email chain) for specific consideration, but I wanted to provide this initial request email for Monday's MA meeting agenda.

Mike

**Michael Ellis, PE**

Municipal Division Manager

### **Pennoni**

121 Continental Drive, Suite 207 | Newark, DE 19713

Direct: 302-351-5236 | Mobile: 302-561-4235

www.pennoni.com | MEllis@Pennoni.com

---

**From:** Rick Smith [mailto:rsmith@eastgoshen.org]  
**Sent:** Tuesday, August 08, 2017 4:26 PM  
**To:** Michael Ellis <MEllis@Pennoni.com>  
**Cc:** 'Mark Miller' <mmiller@eastgoshen.org>; rsmith@eastgoshen.org  
**Subject:** RE: Pennoni Invoices - Municipal Authority - July 2017

Mike

This e-mail will confirm that at their meeting on August 7, 2017 the Authority increased the budget for General Engineering by \$9,000. The new total is \$21,700.

In addition at this same meeting the Authority authorized the expense of up to \$15,000 to take two (2) concrete core samples for SBR Tank #1 and conduct petrographic analysis of them.

I would suggest that you set up a separate project for this. And somehow make a note that we have already spent \$3,113.50 on the SBR coating from the general fund.

Rick

---

**From:** Michael Ellis [<mailto:MEllis@Pennoni.com>]  
**Sent:** Friday, August 04, 2017 1:26 AM  
**To:** Rick Smith  
**Cc:** Mark Miller ([mmiller@eastgoshen.org](mailto:mmiller@eastgoshen.org)); [ssmith@eastgoshen.org](mailto:ssmith@eastgoshen.org)  
**Subject:** Pennoni Invoices - Municipal Authority - July 2017

Hi Rick,

Current Municipal Authority invoices are attached.

The EGMA1701 General Engineering project is nearly at budget in the attached invoices, which run through mid-July. We have worked ahead over the past 3 weeks in order to address the Supervisors and MA's direction to evaluate the SBR tank walls structural design, construction, and coatings, and to prepare recommendations for destructive and non-destructive condition testing. An approximate breakdown of effort on EGMA1701 for the year-to-date through 7/16/17 follows:

General Engineering*	\$3,940.25
Caustic Soda Pilot Study	\$5,462.25
SBR Coatings Analysis and Repair Inspections	\$3,113.50
TOTAL	\$12,516.00

\*Includes monthly engineer's reports, review of monthly plant operator's reports, attendance at monthly MA meetings, WSGA assistance prior to opening of separate job number, self-liquidating debt certification for bond issuance).

The budget was \$12,700. The requested and required effort for the Caustic Soda Pilot Study and SBR Coatings has been well beyond that which was anticipated at the onset of the year when the budget was set.

To complete the remainder of calendar year 2017, I anticipate another \$2,500 will be needed for General Engineering (5 months of meetings and engineer's reports) and potentially an additional \$6,000 for the Caustic Soda Study and SBR Coatings (assuming no further testing or analysis for the coatings or structure beyond that which has been done through today). We therefore respectfully request a supplement of approximately \$8,500 to allow for continued General Engineering efforts through the remainder of 2017.

Please call if you would like to discuss, or let me know if you may need any additional information.

Thanks,  
Mike

Michael Ellis, PE

Municipal Division Manager

**Pennoni**

121 Continental Drive, Suite 207 | Newark, DE 19713

**Direct:** 302-351-5236 | **Mobile:** 302-561-4235

[www.pennoni.com](http://www.pennoni.com) | [MEllis@Pennoni.com](mailto:MEllis@Pennoni.com)



PARTNERS FOR WHAT'S POSSIBLE



Gawthrop Greenwood, PC  
*Attorneys at Law*

17 East Gay Street, Suite 100, P.O. Box 562 p. 610.696.8225  
West Chester, PA 19381- 0562 www.gawthrop.com

NOV 1 2017

Patrick M. McKenna  
610.696.8225 x 155  
610.344.0922 fax  
pmckenna@gawthrop.com

October 31, 2017

Louis F. Smith, Jr., Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380-6199

**Re: 2018 Fees For Legal Services**

Dear Rick:

Please be advised that for 2018, Gawthrop Greenwood has no plans to change the rates or the terms of engagement under which we currently service East Goshen Municipal Authority.

The firm is pleased to have the continuing opportunity to provide legal services to the Municipal Authority in 2018 at our current rate of \$200 per hour. I highly value our long-standing relationship with East Goshen Township and its officials and staff. I would expect that for purposes of budgeting you would be safe in assuming that our experience in 2018 will be similar to the amount of work we did in 2017.

Very truly yours,

Patrick M. McKenna



## Sue Smith

---

**From:** Michael Ellis <MEllis@Pennoni.com>  
**Sent:** Wednesday, November 08, 2017 11:41 AM  
**To:** Mark Miller (mmiller@eastgoshen.org)  
**Cc:** 'ssmith@eastgoshen.org'; rsmith@eastgoshen.org; Brian Miller  
**Subject:** Ashbridge PS Force Main Evaluation outline  
**Attachments:** 2017-11-08 Ashbridge PS FM Evaluation.pdf

Mark,

As discussed, an outline of existing info on the force main and alternatives for investigations and repairs is attached. We are awaiting costs for pipe bursting and other repairs from vendors and contractors. I will have them to verbally present on Monday night.

You may want to include this in the MA packet to facilitate discussion at the meeting.

Mike

**Michael Ellis, PE**  
Municipal Division Manager

**Pennoni**  
121 Continental Drive, Suite 207 | Newark, DE 19713  
Direct: 302-351-5236 | Mobile: 302-561-4235  
[www.pennoni.com](http://www.pennoni.com) | [MEllis@Pennoni.com](mailto:MEllis@Pennoni.com)



PARTNERS FOR WHAT'S POSSIBLE



**BrIM A Game Changer for Bridge Design**



This e-mail will confirm that at their meeting on August 7, 2017 the Authority increased the budget for General Engineering by \$9,000. The new total is \$21,700.

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Rick

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**To:** Rick Smith  
**Cc:** Mark Miller ([mmiller@eastgoshen.org](mailto:mmiller@eastgoshen.org)); [ssmith@eastgoshen.org](mailto:ssmith@eastgoshen.org)  
**Subject:** Pennoni Invoices - Municipal Authority - July 2017

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Current Municipal Authority invoices are attached.

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The budget was \$12,700. The requested and required effort for the Caustic Soda Pilot Study and SBR Coatings has been well beyond that which was anticipated at the onset of the year when the budget was set.

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Please call if you would like to discuss, or let me know if you may need any additional information.

Thanks,  
Mike

Michael Ellis, PE

Municipal Division Manager

**Pennoni**

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PARTNERS FOR WHAT'S POSSIBLE

November 8, 2017

## Ashbridge Pumping Station Force Main Evaluation

### General Information

#### Force Main Pipe Information

- Pipe Diameter – 6"
- Pipe Material – SDR26 PVC
- Length of Force Main – 5,035 linear feet
  - 1,530 feet along Manley Road
  - 1,430 feet along Edith Road
  - 1,570 feet along Williams Way
  - 320 feet along N. Chester Road (SR 0352)
  - 185 feet through an easement

#### Pump Station Information for Bypass or Hauling

- From O & M Manual (7-8 of 68)
  - 200 gpm pump rate at 157 feet TDH (high head condition, an increase in the friction head would not be recommended due to the difficulty in meeting the design point)
  - 140 feet static head
  - Approximately 200 EDUs with ADF of 48,000 GPD
  - PADEP Permit N. 1587415

### Possible Steps

#### Plan Research

- Research historical files on force main for any documentation of design subsurface exploration, pipe bedding plan requirements, or rock clauses to identify possible extent of problem
  - As-built plans are not expected to exist

#### Pipe Zone Verification

- Soft dig test pits
  - Depth of pavement could be an issue
  - Would be able to confirm presence/absence of pipe zone aggregate
  - Locating the pipe will be difficult
- Excavated test pits and restoration
- Ground penetrating radar; may not be viable due to apparent rocks in backfill

#### Force Main Condition Assessment

- Televisual inspection
  - not effective for the full length of the force main
  - limited access
- Acoustic testing (ePulse by Echologics, a Mueller Technologies Company)
  - limited; has been used for asbestos cement, ductile iron, and cast iron
- Hydrostatic testing
  - would only confirm the presence of a leak, not the location



### Force Main Modifications

- Pipe Bursting
  - Potential replacement solution to better maintain interior diameter
  - May require analysis of the force main and pumping station design to confirm head conditions and pump configuration
  - Budgetary cost - TBD
- HDPE Slip Lining
  - Potential replacement solution that would require analysis of the force main and pumping station design to confirm head conditions and pump configuration
  - Budgetary cost - TBD
- Fusible PVC Slip Lining
  - Aegion <http://www.aegion.com/InfrastructureSolutions/Fusible-PVC>
  - May require analysis of the force main and pumping station design to confirm head conditions and pump configuration
  - Budgetary cost - TBD
- CIPP Lining
  - Insituform by Aegion  
<http://www.aegion.com/InfrastructureSolutions/PipeLiningsWastewater/InsituformCIPP>
  - Alphaliner by Reline America <http://www.relineamerica.com/>
  - May not be feasible for the required distance in one shot
  - Could be completed for partial lengths with excavated access to each end
  - May be too rigid of a repair and subject to same failure if PVC host pipe breaks
  - Budgetary cost - TBD

### Force Main Replacement

- Full or Partial parallel replacement by HDD
  - Surrounding rock outcrops or underground rock could pose an issue
  - \$100-125 per linear foot replaced, plus effort for reconnection to the existing force main, not including rock drilling
  - Budgetary cost - \$500,000 to \$650,000 for full replacement of 5,035 by HDD
  - Price could increase to \$300 per linear foot for rock drilling
- Excavation, replacement, backfill and restoration
  - Roadway disturbance and restoration would be required which would escalate the cost due to materials and traffic control
  - May be a good option if sections for replacement are limited and can be identified
  - Budgetary cost - \$200-\$250 per linear foot replaced; full length replacement at \$1M-\$1.25M

### Permitting

#### PennDOT

- PennDOT HOP with traffic control would be required for work along N. Chester Road (SR 0352)

#### PADEP

- NPDES for linear disturbance when open cut disturbance over 1 acre

#### Chester County Conservation District (<http://www.chesco.org/205/Conservation-District>)

- Erosion and Sedimentation Pollution Control submission

## Helpful Links

### International Society for Trenchless Technology (ISTT)

- <http://www.istt.com/guidelines/pipe-bursting>
- <http://www.istt.com/guidelines/pipe-splitting>
- <http://www.istt.com/guidelines/cipp-lining>
- <http://www.istt.com/guidelines/close-fit-slip-lining>

### Trenchless Technology

- <https://trenchlesstechnology.com/>



**EAST GOSHEN MUNICIPAL AUTHORITY  
RESOLUTION NO 34**

**A RESOLUTION FORMALLY REQUESTING A PENNSYLVANIA SMALL  
WATER AND SEWER PROGRAM GRANT IN THE AMOUNT OF \$76,075 FOR  
NECESSARY SAFETY AND EFFICIENCY IMPROVEMENTS AT THE  
BARKWAY PUMP STATION**

**WHEREAS**, East Goshen Municipal Authority (the “Authority”) has identified serious safety issues at the Barkway Pump Station (the “Pump Station”) located at the corner of Barkway Lane and Morstein Road in East Goshen Township, Chester County, Pennsylvania; and

**WHEREAS**, the Authority has proposed to correct these deficiencies by replacing the existing bar screen style trash basket at the Pump Station with a new manhole and a Muffin Monster; and

**WHEREAS**, the Authority Engineer estimates the cost for this project, including engineering and design, at \$89,500; and

**WHEREAS**, if awarded a grant through the Pennsylvania Small Water and Sewer Program, the Authority would be responsible for a local match in an amount not less than \$13, 425, or 15% of the estimated project cost; and

**WHEREAS**, the Authority therefore seeks grant funding for this project through the Pennsylvania Small Water and Sewer Program in an amount not to exceed \$76,075; and

**WHEREAS**, pursuant to 1998 inter-municipal agreements, operating and capital costs incurred at the Pump Station are shared on a proportionate basis between East Whiteland Township, West Whiteland Township and East Goshen Township; and

**WHEREAS**, Louis F. Smith is the Township Manager of East Goshen Township and the Secretary of the Authority;

**NOW, THEREFORE**, the Authority, in public session duly assembled, hereby **RESOLVES** that it wishes to submit a \$76,075 grant application through the Pennsylvania Small Water and Sewer Program for the project described above with an estimated total cost, including engineering, of \$89,500; that if the grant application is successful, it would be responsible for a local match in an amount not less than \$13,425; and that Louis F. Smith is duly authorized to execute all documents related to this grant and grant application on the Authority's behalf.

**ADOPTED AND ENACTED** this 11<sup>th</sup> day of December 2017.

**ATTEST:**

**EAST GOSHEN MUNICIPAL AUTHORITY**

\_\_\_\_\_  
Secretary

By: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

December 7, 2017

**East Goshen Municipal Authority**  
Attn: Rick Smith, Township Manager  
1580 Paoli Pike  
West Chester, PA 19380

**RE: Fee Schedule for Year 2018 and Annual Services  
East Goshen Municipal Authority**

Dear Rick:

Pennoni is proud to serve East Goshen Municipal Authority, and we look forward to working with you again in 2018. We respectfully request reappointment as Authority Engineer for 2018.

Our proposed rates for 2018 are listed below, reflecting an average increase of 3.0%:

Authority Engineer .....	\$123/hr
Senior Professional .....	\$117/hr
Project Professional .....	\$104/hr
Staff Professional .....	\$96/hr
Associate Professional .....	\$91/hr
Senior Engineering Technician .....	\$89/hr
Graduate Professional .....	\$82/hr
Engineering Technician .....	\$83/hr

While our company has many employee classifications, these are the classifications most frequently utilized in performing tasks for our municipal clients. We assign the most appropriate level staff competent to perform the work effort requested.

As part of our responsibilities to the Authority as the appointed Engineer, we will provide the following professional services:

- Participation in monthly meetings of the Authority Board
- Preparation of semi-annual sewer system status reports
- Continued support in I&I reduction with periodic sewer meter data analysis upon request
- Preparation of the annual Chapter 94 Municipal Wasteload Management Reports
- Consultation on issues on behalf of the Authority

The estimated total fee for annual services is \$40,000, to be billed on an hourly basis at the above rates. We have allocated the budget as follows:

- Monthly meetings and general consultation.....\$18,000
- I&I support and semi-annual reports.....\$11,000
- Chapter 94 reports.....\$11,000

Mr. Rick Smith

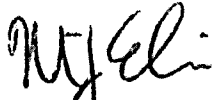
The estimated fees are based upon the actual level of effort for each activity over the past several years and expectations for 2018. The estimated fee for the Monthly meetings and general consultation is increased from our originally approved 2017 fee for those services, while the I&I support and Chapter 94 reports fees are decreased. For reference, the estimated overall \$40,000 is a 2.0% increase over the originally approved 2017 fee.

Similar to previous years, we will establish separate accounts for each project listed above, and each project will be invoiced separately. Other projects outside of general services, as requested, will be proposed separately and at the approved rates schedule.

If you have any questions, please do not hesitate to contact me.

Sincerely,

**PENNONI ASSOCIATES INC.**



Michael J. Ellis, PE  
Authority Engineer



Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

FYI

369 East Park Drive  
Harrisburg, PA 17111  
717.564.1121  
FAX (717) 564.1122  
www.hrg-inc.com

November 7, 2017

Mr. Edward McAssey, Jr., PhD  
East Goshen Township  
1580 Paoli Pike  
West Chester, Pennsylvania 19380

Re: West Goshen Sewer Authority  
2017 Sanitary Sewer System Repairs Project  
Contract No. 17-5

Dear Mr. McAssey:

In accordance with the intermunicipal agreement between West Goshen Sewer Authority (WGSA), West Goshen Township, and East Goshen Township, this correspondence is intended to provide notification that WGSA has awarded the construction Contract 17-5 for completion of the 2017 Sanitary Sewer System Repairs Project to DiRocco Brothers, Inc. for an estimated unit price cost of \$1,224,125.44.

Because the 2017 Sanitary Sewer System Repairs Project includes certain portions of Work that does not involve conveyance of sewage from East Goshen Township, Mr. Moffa has provided the attached calculation to show quantities in which East Goshen is required to share in the cost. As a result, East Goshen is responsible for an estimated cost of \$22,688.59.

Please note that these projected costs do not include contingency or legal fees. These costs along with any additional costs or deducts associated with the Project will be reconciled with East Goshen Township at the final project closeout and all change orders will be submitted to East Goshen Township in accordance with the agreement.

Payment of the \$22,688.59 shall be coordinated with Mike Moffa, West Goshen Township Wastewater Superintendent.

11-8-17

UNDER REVIEW

Rick



Mr. Edward McAssey  
November 7, 2017  
Page 2

Please feel free to contact me at [jfox@hrg-inc.com](mailto:jfox@hrg-inc.com) or at 717-564-1121 if you have any questions on the above referenced Project.

Sincerely,

**Herbert, Rowland & Grubic, Inc.**



Joshua T. Fox, P.E.  
WGSA Engineer

JTF/pk

007608.0426

p:\0076\007608\_0426\admin\corres\2017.11.07 2017 sanitary sewer repair costs to east goshen.docx

c: Mr. Rick Smith, East Goshen Township Manager  
West Goshen Sewer Authority  
Mr. Michael Moffa, Wastewater Superintendent  
HRG File

						E. Goshen		
								Charge
No.	Description	Qty	Unit	Unit Cost	Extension	Units	Allocation	54.8%
GENERAL								
1	MOBILIZATION & PROJECT MANAGEMENT	1	L.S.	\$ 48,500.00	\$ 48,500.00	*	\$ 1,270.83	\$ 696.41
2	TRAFFIC MAINTENANCE & PROTECTION	1	L.S.	\$ 15,000.00	\$ 15,000.00	*	\$ 393.04	\$ 215.39
3	EROSION & SEDIMENTATION CONTROL	1	L.S.	\$ 8,500.00	\$ 8,500.00	*	\$ 222.72	\$ 122.05
4	BY-PASS PUMPING	1	L.S.	\$ 51,000.00	\$ 51,000.00			\$ -
5	CLEARING & GRUBBING	1	L.S.	\$ 12,500.00	\$ 12,500.00			\$ -
6	ROW RESTORATION	1	L.S.	\$ 20,000.00	\$ 20,000.00			\$ -
SANITARY SEWER PIPE, APPURTENANCES, AND RELATED WORK								
7	SANITARY SEWER REPLACEMENT (MH 317 TO MH 316)	1	EA.	\$ 63,700.00	\$ 63,700.00		\$ -	\$ -
8	SPOT REPAIR #1 (CASWALLEN DRIVE)	1	EA.	\$ 7,000.00	\$ 7,000.00		\$ -	\$ -
9	SPOT REPAIR #3 (OAK CIRCLE)	1	EA.	\$ 15,000.00	\$ 15,000.00		\$ -	\$ -
10	SPOT REPAIR #4 (ISABEL LANE)	1	EA.	\$ 18,000.00	\$ 18,000.00		\$ -	\$ -
11	SPOT REPAIR #5 (ISABEL LANE)	1	EA.	\$ 20,000.00	\$ 20,000.00		\$ -	\$ -
12	SPOT REPAIR #6 (SPRING LANE)	1	EA.	\$ 18,000.00	\$ 18,000.00		\$ -	\$ -
13	SPOT REPAIR #7 (SPRING VALLEY LANE)	1	EA.	\$ 18,000.00	\$ 18,000.00		\$ -	\$ -
14	SPOT REPAIR #8 (OAK LANE)	1	EA.	\$ 13,500.00	\$ 13,500.00		\$ -	\$ -
15	SPOT REPAIR #9 (PAOLI PIKE)	1	EA.	\$ 10,500.00	\$ 10,500.00		\$ -	\$ -
16	8-INCH CURED IN PLACE PIPE LINING	5761	L.F.	\$ 45.00	\$ 259,245.00		\$ -	\$ -
17	30-INCH CURED IN PLACE PIPE LINING	997	L.F.	\$ 152.00	\$ 151,544.00		\$ -	\$ -
18	8-INCH SECTIONAL LINING	1	EA.	\$ 650.00	\$ 650.00		\$ -	\$ -
19	8-INCH CLEANOUT INSTALLATION	2	EA.	\$ 2,500.00	\$ 5,000.00		\$ -	\$ -
20	8" X 4" CURED IN PLACE LATERAL LINING	1	EA.	\$ 3,800.00	\$ 3,800.00		\$ -	\$ -
21	SANITARY SEWER LATERAL REINSTATEMENT	63	EA.	\$ 215.00	\$ 13,545.00		\$ -	\$ -
22	CHEMICAL GROUT	150	GAL.	\$ 75.00	\$ 11,250.00		\$ -	\$ -
23	INTERNAL GRINDING/CUTTING OF EXISITING LATERALS	6	EA.	\$ 650.00	\$ 3,900.00		\$ -	\$ -
SANITARY SEWER MANHOLES, APPURTENANCES, AND REALTED WORK								
24	MANHOLE 801-16 REPLACEMENT	1	EA.	\$ 42,500.00	\$ 42,500.00		\$ -	\$ -
25	MANHOLE 801-14 REPLACEMENT	1	EA.	\$ 42,500.00	\$ 42,500.00		\$ -	\$ -
26	MANHOLE 326 REPLACEMENT	1	EA.	\$ 12,500.00	\$ 12,500.00		\$ -	\$ -
27	MANHOLE 1602 REHABILITATION	1	EA.	\$ 4,400.00	\$ 4,400.00		\$ -	\$ -
28	MANHOLE 1601 REHABILITATION	1	EA.	\$ 4,290.00	\$ 4,290.00		\$ -	\$ -
29	MANHOLE 942 REHABILITATION	1	EA.	\$ 2,813.80	\$ 2,813.80		\$ -	\$ -
30	MANHOLE 943 REHABILITATION	1	EA.	\$ 2,500.00	\$ 2,500.00		\$ -	\$ -
31	MANHOLE CP-1 REHABILITATION	1	EA.	\$ 3,207.00	\$ 3,207.00		\$ -	\$ -
32	MANHOLE 940 REHABILITATION	1	EA.	\$ 2,487.00	\$ 2,487.00		\$ -	\$ -
33	MANHOLE 939 REHABILITATION	1	EA.	\$ 3,405.00	\$ 3,405.00		\$ -	\$ -
34	MANHOLE 1205 REHABILITATION	1	EA.	\$ 7,050.00	\$ 7,050.00		\$ -	\$ -
35	MANHOLE 1204 REHABILITATION	1	EA.	\$ 8,789.00	\$ 8,789.00		\$ -	\$ -
36	MANHOLE 1235-2 REHABILITATION	1	EA.	\$ 2,906.00	\$ 2,906.00		\$ -	\$ -
37	MANHOLE 1235-1 REHABILITATION	1	EA.	\$ 545.00	\$ 545.00		\$ -	\$ -
38	MANHOLE 1235 REHABILITATION	1	EA.	\$ 3,057.00	\$ 3,057.00		\$ -	\$ -
39	MANHOLE 1236-3 REHABILITATION	1	EA.	\$ 3,234.00	\$ 3,234.00		\$ -	\$ -
40	MANHOLE 1236-2 REHABILITATION	1	EA.	\$ 3,093.00	\$ 3,093.00		\$ -	\$ -
41	MANHOLE 1236-1 REHABILITATION	1	EA.	\$ 3,760.00	\$ 3,760.00		\$ -	\$ -
42	MANHOLE 1236 REHABILITATION	1	EA.	\$ 2,630.80	\$ 2,630.80		\$ -	\$ -
43	MANHOLE 1237-3 REHABILITATION	1	EA.	\$ 2,781.60	\$ 2,781.60		\$ -	\$ -
44	MANHOLE 1237-2 REHABILITATION	1	EA.	\$ 5,181.20	\$ 5,181.20		\$ -	\$ -
45	MANHOLE 1237-1 REHABILITATION	1	EA.	\$ 650.00	\$ 650.00		\$ -	\$ -
46	MANHOLE 1237 REHABILITATION	1	EA.	\$ 2,064.00	\$ 2,064.00		\$ -	\$ -
47	MANHOLE 1238 REHABILITATION	1	EA.	\$ 545.00	\$ 545.00		\$ -	\$ -
48	MANHOLE 1239 REHABILITATION	1	EA.	\$ 3,868.00	\$ 3,868.00		\$ -	\$ -
49	MANHOLE 1240 REHABILITATION	1	EA.	\$ 4,123.20	\$ 4,123.20		\$ -	\$ -
50	MANHOLE 1241 REHABILITATION	1	EA.	\$ 3,462.80	\$ 3,462.80		\$ -	\$ -
51	MANHOLE 1241-2 REHABILITATION	1	EA.	\$ 3,410.80	\$ 3,410.80		\$ -	\$ -
52	MANHOLE 679 REHABILITATION	1	EA.	\$ 2,958.40	\$ 2,958.40		\$ -	\$ -
53	MANHOLE 679-3 REHABILITATION	1	EA.	\$ 2,927.20	\$ 2,927.20		\$ -	\$ -
54	MANHOLE 661 REHABILITATION	1	EA.	\$ 5,147.40	\$ 5,147.40		\$ -	\$ -
55	MANHOLE 660 REHABILITATION	1	EA.	\$ 3,182.00	\$ 3,182.00		\$ -	\$ -
56	MANHOLE 660A REHABILITATION	1	EA.	\$ 3,083.20	\$ 3,083.20		\$ -	\$ -
57	MANHOLE 659 REHABILITATION	1	EA.	\$ 2,963.80	\$ 2,963.80		\$ -	\$ -
58	MANHOLE 658 REHABILITATION	1	EA.	\$ 2,901.20	\$ 2,901.20		\$ -	\$ -
59	MANHOLE 507-A REHABILITATION	1	EA.	\$ 2,849.20	\$ 2,849.20		\$ -	\$ -
60	MANHOLE 508 REHABILITATION	1	EA.	\$ 3,312.00	\$ 3,312.00		\$ -	\$ -
61	MANHOLE 501-1 REHABILITATION	1	EA.	\$ 2,823.20	\$ 2,823.20		\$ -	\$ -
62	MANHOLE 501-1A REHABILITATION	1	EA.	\$ 2,375.00	\$ 2,375.00		\$ -	\$ -
63	MANHOLE 1327 REHABILITATION	1	EA.	\$ 3,421.20	\$ 3,421.20		\$ -	\$ -
64	MANHOLE 1328 REHABILITATION	1	EA.	\$ 3,161.20	\$ 3,161.20		\$ -	\$ -
65	MANHOLE 800-33 REHABILITATION	1	EA.	\$ 5,562.15	\$ 5,562.15		\$ -	\$ -
66	MANHOLE 800-34 REHABILITATION	1	EA.	\$ 5,482.50	\$ 5,482.50		\$ -	\$ -
67	MANHOLE 304-2 REHABILITATION	1	EA.	\$ 3,150.80	\$ 3,150.80		\$ -	\$ -
68	MANHOLE 304-2A REHABILITATION	1	EA.	\$ 450.00	\$ 450.00		\$ -	\$ -
69	MANHOLE 304-3 REHABILITATION	1	EA.	\$ 5,465.50	\$ 5,465.50		\$ -	\$ -
70	MANHOLE 304-4 REHABILITATION	1	EA.	\$ 450.00	\$ 450.00		\$ -	\$ -
71	MANHOLE 304-5 REHABILITATION	1	EA.	\$ 3,802.50	\$ 3,802.50		\$ -	\$ -
72	MANHOLE 304-6 REHABILITATION	1	EA.	\$ 2,041.00	\$ 2,041.00		\$ -	\$ -
73	MANHOLE 316 REHABILITATION	1	EA.	\$ 6,019.20	\$ 6,019.20		\$ -	\$ -
74	MANHOLE 317 REHABILITATION	1	EA.	\$ 4,921.00	\$ 4,921.00		\$ -	\$ -
75	MANHOLE 336 REHABILITATION	1	EA.	\$ 2,600.00	\$ 2,600.00		\$ -	\$ -
76	MANHOLE 335 REHABILITATION	1	EA.	\$ 3,476.00	\$ 3,476.00		\$ -	\$ -
77	MANHOLE 327 REHABILITATION	1	EA.	\$ 2,971.20	\$ 2,971.20		\$ -	\$ -
78	MANHOLE 878-A REHABILITATION	1	EA.	\$ 2,662.00	\$ 2,662.00		\$ -	\$ -

						E. Goshen		
No.	Description	Qty	Unit	Unit Cost	Extension	Units	Allocation	Charge 54.8%
79	MANHOLE 879-A1 REHABILITATION	1	EA.	\$ 2,758.00	\$ 2,758.00		\$ -	\$ -
80	ARV-MH1 REHABILITATION	1	EA.	\$ 4,600.00	\$ 4,600.00	1	\$ 4,600.00	\$ 2,520.80
<b>FORCE MAIN VALVES, MANHOLES, AND APPURTENANCES</b>								
81	4-INCH ARV MANHOLE REPLACEMENT (ARV-MH2)	1	EA.	\$ 15,957.34	\$ 15,957.34	1	\$ 15,957.34	\$ 8,744.62
82	2-INCH ARV MANHOLE REPLACEMENT (ARV-MH3)	1	EA.	\$ 12,250.00	\$ 12,250.00		\$ -	\$ -
83	2-INCH ARV REPLACEMENT (ARV-MH1)	1	EA.	\$ 7,725.00	\$ 7,725.00	1	\$ 7,725.00	\$ 4,233.30
<b>SURFACING / RESTORATION</b>								
84	2" MUNICIPAL MILL AND OVERLAY	1583	S.Y.	\$ 17.60	\$ 27,860.80	64	\$ 1,126.40	\$ 617.27
85	1.5" PENNDOT MILL AND OVERLAY	35	S.Y.	\$ 13.75	\$ 481.25		\$ -	\$ -
86	TEMPORARY PAVING SURFACE RESTORATION	357	L.F.	\$ 78.00	\$ 27,846.00	10	\$ 780.00	\$ 427.44
<b>MISCELLANEOUS</b>								
87	UNSUITABLE BEARING MATERIAL REPLACEMENT	150	C.Y.	\$ 150.00	\$ 22,500.00		\$ -	\$ -
88	ADDITIONAL UNCLASSIFIED EXCAVATION	100	C.Y.	\$ 150.00	\$ 15,000.00		\$ -	\$ -
89	ADDITIONAL AGGREGATE BACKFILL	120	TON	\$ 50.00	\$ 6,000.00		\$ -	\$ -
90	MISCELLANEOUS CONCRETE INSTALLATION	10	C.Y.	\$ 500.00	\$ 5,000.00		\$ -	\$ -
91	INFLOW DISHES	24	EA.	\$ 150.00	\$ 3,600.00		\$ -	\$ -
92	FENCE REMOVAL, TEMPORARY FENCING, & REINSTALL	1	L.S.	\$ 12,500.00	\$ 12,500.00		\$ -	\$ -
A	** ENGINEERING				\$ 221,964.08	*	\$ 5,816.05	\$ 3,187.19
B	CONSTRUCTION CONTRACT ADMINISTRATION, INSPECTION				\$ 134,000.00	*	\$ 3,511.16	\$ 1,924.11
<b>Totals</b>							\$ 41,402.53	\$ 22,688.59

Comments:

\* Allocations for Lines 1, 2, 3, A, & B were calculated by multiplying the percent of project expenses associated with E. Goshen to the total project cost (excluding Items 1,2, 3, A & B).

$$\frac{\$ 30,188.74}{\$ 1,152,125.44} = 2.6203\%$$

\*\* Engineering costs include all payments as of Nov 1, 2017 Sewer Authority Meeting.



**Herbert, Rowland & Grubic, Inc.**  
**Engineering & Related Services**

**AN EMPLOYEE-OWNED COMPANY**

369 East Park Drive  
Harrisburg, PA 17111  
717.564.1121  
FAX (717) 564.1122  
www.hrg-inc.com

November 6, 2017

Mr. Edward McAssey, Jr., PhD  
East Goshen Township  
1580 Paoli Pike  
West Chester, Pennsylvania 19380

Re: West Goshen Sewer Authority  
Anaerobic Digester Replacement Project  
Contract Nos 17-3, 17-6, and 17-7

Dear Mr. McAssey:

In accordance with the intermunicipal agreement between West Goshen Sewer Authority (WGSA), West Goshen Township, and East Goshen Township, this correspondence is intended to provide notification that WGSA has awarded the following contracts for completion of the Anaerobic Digester Replacement Project:

- Contract 17-3: General Construction – Eastern Environmental Contractors, Inc.
- Contract 17-6: Electrical Construction – Garden Spot Electric, Inc.
- Contract 17-7: Mechanical Construction – GEM Mechanical Services

The following costs are estimated for completion of the Project:

Engineering (Survey, Preliminary Design, Permitting, Final Design, and Bidding)	\$402,807.74
Contract 17-3	\$4,424,240.00
Contract 17-6	\$695,000.00
Contract 17-7	\$218,000.00
Engineering – Construction Phase	\$189,000.00
Resident Project Representation	\$222,300.00
<b>Total</b>	<b>\$6,152,187.74</b>

11-8-17

UNDER REVIEW  
TICK

Mr. Edward McAssey  
November 6, 2017  
Page 2

In accordance with the intermunicipal agreement, East Goshen Township is responsible for 16.67% of these costs, which are currently estimated at \$1,025,569.70; however, \$6,989.81 was previously paid for engineering costs (2016 Capital Projects). As a result, East Goshen is responsible for a revised estimated cost of \$1,018,579.89.

Please note that these projected costs do not include contingency, legal, or systems integration fees. Any additional costs or deducts in the costs associated with the Project will be reconciled with East Goshen Township at the final project closeout and all change orders will be submitted to East Goshen Township in accordance with the agreement.

Payment of the \$1,025,569.70 shall be coordinated with Mike Moffa, West Goshen Township Wastewater Superintendent.

Please feel free to contact me at [jfox@hrg-inc.com](mailto:jfox@hrg-inc.com) or at 717-564-1121 if you have any questions on the above referenced Project.

Sincerely,

**Herbert, Rowland & Grubic, Inc.**



Joshua T. Fox, P.E.  
WGSA Engineer

JTF/pk

007608.0426

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c: Mr. Rick Smith, East Goshen Township Manager  
West Goshen Sewer Authority  
Mr. Michael Moffa, Wastewater Superintendent  
HRG File



**BOARD OF SUPERVISORS**  
EAST GOSHEN TOWNSHIP  
CHESTER COUNTY  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

**FYI**

November 30, 2017

Dear Property Owner:

The purpose of this letter is to provide you with an update on the Malvern Institute Zoning Hearing Board application. The Malvern Institute (the Applicant) has granted the Township an extension until February 28, 2018 in order to conduct a Zoning Hearing for their Special Exception and Zoning Variance application.

As you know, the Applicant has requested a Special Exception and Zoning Variances to expand the non-conforming Treatment Center use. The Applicant has modified their plans and now proposes to construct a single story addition to accommodate their requested expansion rather than adding a second story to the existing building. The applicant also proposes to construct a loft in the existing barn, convert the existing smoking area in the rear of the facility to a greenhouse, construct a new smoking pavilion, and add parking on the property. As a result of these plan modifications the Township requested an extension for the application review period and the Applicant has provided one through February 28, 2018.

Pursuant to Township policy, all Township properties within 1,000 feet of the property in question are notified of Zoning Hearing Board applications.

**THE REVISED SCHEDULE FOR THE REVIEW OF THIS APPLICATION IS:**

1. **Wednesday, January 17, 2018 (7:00 PM) - Planning Commission meeting**
2. **Tuesday, January 23, 2018 (7:00 PM) - Board of Supervisors**
3. **Tuesday, February 6, 2018 (7:00 PM) - Board of Supervisors (If Needed)**
4. **Tuesday, February 13, 2017 (7:30 PM) - Zoning Hearing Board (Zoning Hearing)**

All meetings will be held at the Township Building and are open to the public. The application and plans are available for review at the Township Building during normal business hours. Please give me a call at 610-692-7171 or e-mail me at [mgordon@eastgoshen.org](mailto:mgordon@eastgoshen.org) if you have any questions or need additional information.

Sincerely,



Mark Gordon  
Township Zoning Officer

Cc: All ABC's  
Brian Nagle, Esq. (VIA EMAIL ONLY)  
Kristin Camp, Esq., Solicitor, East Goshen Township (VIA EMAIL ONLY)  
Mark Thompson, Esq. (VIA EMAIL ONLY)  
John Nagel, Manager, East Whiteland Township (VIA EMAIL ONLY)  
David Burman, Manager, Willistown Township (VIA EMAIL ONLY)