

**EAST GOSHEN MUNICIPAL AUTHORITY**

**July 11, 2022**

**7:00**

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.  
b. Pennoni Engineer's Report.  
c. Big Fish Environmental Report

4. APPROVAL OF MINUTES

- a. June 13, 2022

5. APPROVAL OF INVOICES

Pennoni Invoice #1126019	\$	1,051.25
Pennoni Invoice #1126021	\$	791.50
Pennoni Invoice #1113012	\$	2,537.25 Paid 6/15
Gawthrop Invoice #259154	\$	1,420.00
Colonial Invoice #14642609	\$	3,055.60
Tracom Invoice #80016	\$	18,730.00

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. June Financial Report

8. OLD BUSINESS

- a.

9. 2022 Goals:

Goal	Status
Ridley Creek Plant Compliance	January, February, March, April and May were in compliance and met all requirements *Note DEP Annual Insp.
Continue to Monitor Upgrades at WGSTP and Westtown Way Pump Station	On – going
Continue to Implement Infiltration and Inflow for the Sewer System	On-going
Caustic Soda Project	Equipment order
Replace sewer line Hershey Mill Estate trunk line replacement	Engineer will bring you up to date under old business.
Hunt Country Pump Station Mag Meter	On Hold
Hunt Country Pump Station Muffin Monster Replacement	On Hold
Hunt Country Pump Station Bypass Pump	On Hold
Three new meters for Ridley Creek Collection	Hibberd Lane is on line. Ridley Creek Plant is the next meter, in the process of replacing the meter at the plant. <ul style="list-style-type: none"> <li>• Ridley Meter installed</li> </ul>

10. NEW BUSINESS

a.

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

To: Municipal Authority  
From: Mark Miller  
Re: July 8, 2022 Monthly Report

- Monthly Flows:** The average daily flow to West Goshen was 701,682 per day.
- Meters:** The meters were read on a daily basis. We had to utilize Lenni Electric to replace three of the meter cabinets due to rust. We even had to replace the pole and electric service at the Ellis Lane meter.
- C.C. Collection:** We visited all the station where routine maintenance was performed. There were no problems to report for the month.
- C.C. Interceptor:** We had to remove six large Ash trees that were dead in the right of way. The work was performed by the Public Works crew and completed in a timely manner.
- R.C. Collection:** The pumping stations were visited on a daily basis. We did receive a call on June 18<sup>th</sup> for sewage coming from a manhole. Crews were on site within the hour and spent several hours as we encountered heavy grease build up. In addition, the sewer line was off the road and the ground was very wet. These lines were cleaned a year and a half ago. I have scheduled Pipe Data View to come and clean the lines. Attached is the letter from the property owner and some photos. DEP was notified of the carry over per protocol and area was cleaned up and covered with lime.
- Ridley Creek Plant:** Last week we started the installation of the new metering station for Ridley. Once the excavation was completed we installed a trench box 16'x16'x18', we then formed up the concrete pad for the metering pit to mount. We came in at midnight to make the tie in when there was very little flow. A section of pipe was cut out so we could mount the metering pit. The pit was lowered into the hole and connected to the pipe.

Once we complete the final grading, we will lay out an elevated walkway to the meter. We hope to have the meter on line by the end of July.  
(Photos attached)

**Alarms:** We responded to 26 alarms for June, most of them storm related.

**PA 1 Calls:** We responded to over 78 PA One Calls for the month June.

**Monthly Rainfall:** 3.80 inches of rain for the month of June.

**Lateral repairs or Caps:** 8 laterals repaired for the month of June.



## Mark Miller

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**From:** Andrew Marshall <ancmarshall@gmail.com>  
**Sent:** Monday, June 20, 2022 10:33 AM  
**To:** Michele Truitt; Mike Lynch; Cbright@eastgoshe.org; John Hertzog; David Shuey; Derek Davis  
**Cc:** Mark Miller; Mike Burns  
**Subject:** Exemplary Service to the Community by Public Works Group

Dear Michele and Board Members,

I wanted to thank you all for the great Public Works Group you have assembled for East Goshen Township. I had an emergency early last Saturday the 11th. The group was so responsive, understanding and hard working even though it was their day off and the job was frankly horrible.

The Township has a neighborhood Sewer line running from Forest Lane to Paoli Pike parallel to Line Road and a few feet from Ridley Creek. This has two Manhole covers on my property at 110 Tramore Circle. Early Saturday morning, 7.45am, one of the manhole covers began to seep out water, which within 30 minutes became a significant outflow of waste / sewage water.

I tried calling the Township but there was no emergency number. I did have Mark Miller's email so I shot him an urgent note. He was back to me via email and phone in five minutes, stating that he was gathering his crew together and would be on site within 40 minutes. By 8.45am it seemed that half the Township was here! Everyone was so polite and hard working throughout the 3 hours it took to unblock the Mains and clean up.

This could have been a horrible situation for the twelve houses on my street, the 63 houses of Rossmore Association and of course a mess for Ridley Creek. That day our street had one wedding party and one graduation party so imagine the difficulty we could have been in. Mark and his team really saved the day and again I want to thank you all, Mark and his team for supporting the Township in the way you all do. Our Township is fortunate to have you all.

Sincerely,  
Andrew & Cindy Marshall

--  
Andrew Marshall  
610-246-4834 (c)





Clogged Manhole





Jetting the Line





PIPELINE  
CAUTION  
BEFORE  
DIGGING  
CALL

Jetting from  
line road to  
Tramore





Excavation  
for  
Mets Pit





Formed up Pad





3AM Cut pipe out for Pit

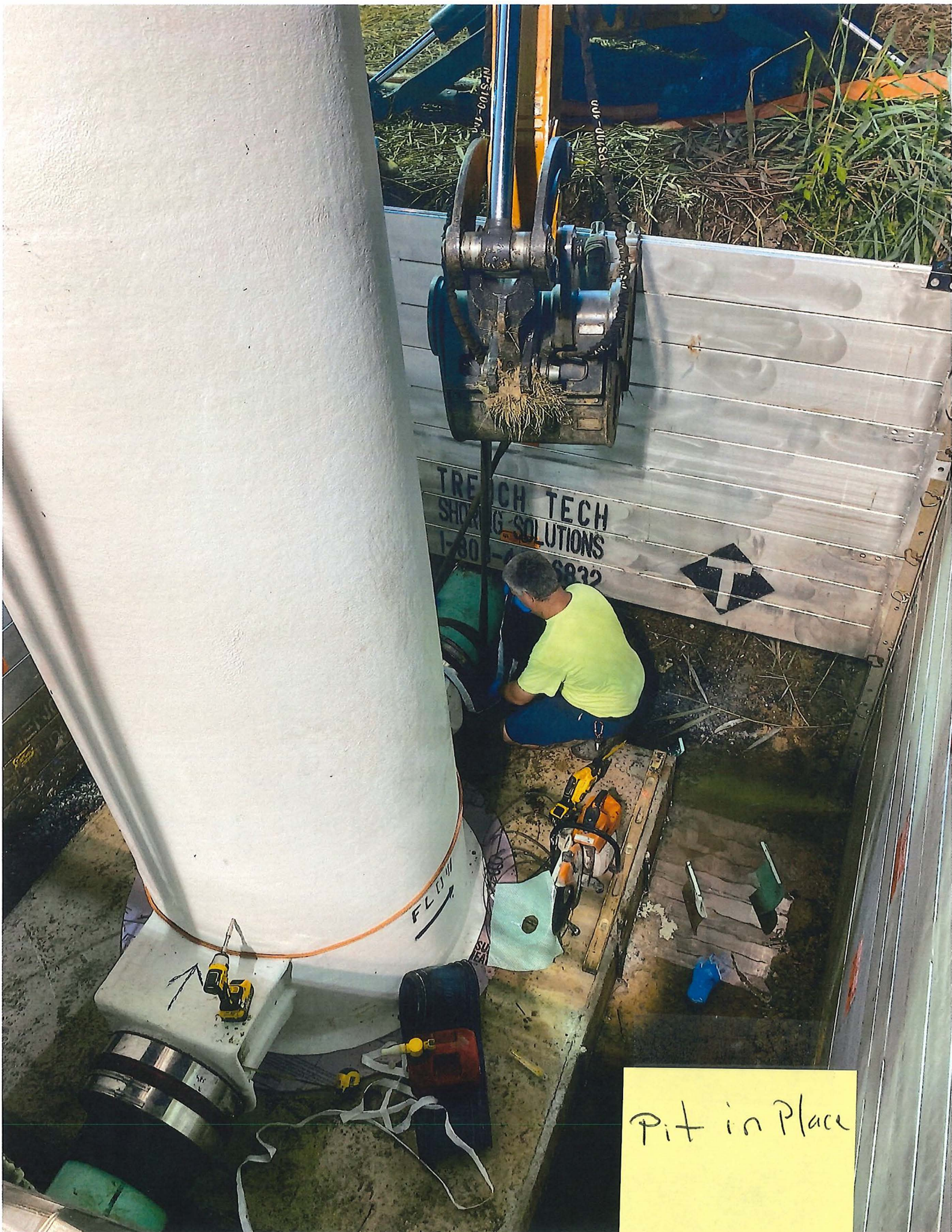




3AM

Getting Ready to install Pit





Pit in Place







**EAST GOSHEN MUNICIPAL AUTHORITY  
ENGINEER'S REPORT**

July 8, 2022

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

- Caustic Soda Conversion – We notified Pyrz Water (supplier) of the approval of their CoStars quotes for the chemical tank and the chemical feed pumps. They are preparing shop drawings that will be submitted for review.
- UV Disinfection System – Glasco provided the design submittal for the system. We reviewed and returned it with comments on July 7. They will provide a revised submittal for review, which we will review with the Township and operator.

They have previously indicated the lead time for the equipment is about 4 months following approval of submittals. Assuming approval by the end of July, the equipment would be delivered in the November-December timeframe. Please note that this is approximately 1.5 months later than originally planned because the submittal from the manufacturer was provided about 1.5 months later than originally scheduled.

The installation of the system and other electrical and controls work is tentatively planned to occur in late early winter once awards for the Commonwealth Financing Authority (CFA) Local Share Account (LSA) grants are announced. Bid documents for the mechanical and electrical construction contracts will be finalized this summer for bidding to occur in fall; the schedule will be refined over the next couple months pending updates on the CFA's schedule for grant award announcements.

**Ridley Creek Collection System Permanent Meters**

- We provided consultation during the installation of the new RCSTP influent flow metering manhole.

**Westtown Way Pump Station**

No update since our last report.

**Sanitary Sewer Pipe Rehab**

- Supplee Valley – No activity since our last report.
- Hershey's Mill Estates – No activity since our last report.

Since a LSA grant application was submitted for this project, construction contracts cannot be awarded if/until the grant is "approved". We therefore currently plan to bid the project in the late fall-early winter with construction projected in early to mid-2023.

However, we have been informed by suppliers that the lead time for ductile iron pipe is 9-12 months. We are therefore evaluating the possibility of the Township ordering the pipe now through a CoStars contract in advance of construction bidding.

- Ridley Creek Exposed Sewer Rehab – There is a ductile iron sewer main exposed in the Ridley Creek stream bed immediately north of N. Boot Road near Bellingham. We previously initiated preparation of a draft DEP emergency General Permit application to encase the pipe in concrete and add riprap to the immediately upstream stream bed.

We are awaiting the results of a bog turtle habitat survey assessment from a 3<sup>rd</sup> party "Qualified Bog

Turtle Surveyor (QBTS)" to address the associated requirement in the PNDI Search. If the QBTS does not identify habitat within 300 feet, approval from the US Fish and Wildlife Service (USFWS) is not required. The emergency permit application will be submitted to PADEP upon clearance of the bog turtle habitat.

### **I&I Program**

- No activity since our last report.

### **New Connections**

- Sewer Extension Study – No activity since our last report.
- 1344 Morstein Road – We discussed the construction approach with the contractor for the low pressure sewer lateral to connect to the public sewer in Eastwick Circle, and we are reviewing a revised approach intended to avoid a drop connection in the manhole.

### **Industrial Pretreatment Ordinance**

- No activity since our last report. As discussed at the May 2021 MA meeting, a headworks study with sampling at the RCSTP can be conducted to set contaminant limits.

END OF REPORT



**Executive Summary**

The Ridley Creek sewage treatment plant outfall 001 and 002 achieved compliance with all effluent limitations regarding water quality. The parameter regarding ultraviolet light intensity is being addressed with PA DEP. All supplemental reports were submitted for the month of April with the DMR. Discharge to the Applebrook irrigation lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. Aluminium sulfate solution volumes were slightly increased to a daily average of 64.4 as compared to the previous month at 58.5 gpd to achieve phosphorus removal. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process. Sludge dewatering has been increased to avoid potential odors during the sludge holding tank decanting process. There were no odor complaints during the month.

**Treatment Process Operation** Table 1 illustrates the final effluent composite sample data reported for outfall 001 June 2022. The results listed for the week of June 28<sup>th</sup> are draft values to be confirmed.

<b>June 2022- Final Effluent - Outfall 001</b>																
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		Total Nitrogen		TSS		NH <sub>4</sub> -N		Total Phosphorus		Fecal Coliform		Ultraviolet light intensity	Copper, Total	Zinc, Total
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean			
	Average	10	62	Report	Report	10	62	2.5	44	0.5	3	200	1,000			
	Inst. Max	20	94			15	94	5		1						
Sample Date																
June 7, 2022	0.259	2.0	4.3	1.43	3.09	4.0	8.6	0.10	0.22	0.18	0.39	2	0.3010	NS	NS	NS
June 14, 2022	0.250	2.0	4.2	6.52	13.59	4.4	NS	0.10	0.21	0.12	0.25	1	0.0000	NS	NS	NS
June 21, 2022	0.264	2.0	4.4	6.36	14.00	4.0	8.8	0.10	0.22	0.14	0.31	20	1.3010	NS	NS	NS
June 28, 2022	0.249	2.0	4.2	5.59	11.61	5.0	10.4	0.10	0.21			6	0.7782	NS	NS	NS
Average	0.256	2.0	4.3	4.98	10.6	4.4	9	0.10	0.21	0.15	0.32	7	0.5951	NA	NA	NA
Minimum	0.249	2.0	4.2	1.43	3.1	4.0	8.6	0.10	0.21	0.12	0.25	1	0.0000	NA	NA	NA
Maximum	0.264	2.0	4.4	6.52	14.0	5.0	10	0.10	0.22	0.18	0.39	20	1.3010	NA	NA	NA

The month to date average total phosphorus was reported as 0.15 mg/L as compared to the permit limitation of 0.5 mg/L. The TSS samples were consistently in single digits and well below the weekly maximum of 15 mg/L. The monthly average TSS was reported as 4.4 mg/L as compared to the discharge limitation of 10 mg/L. The TSS weekly averages are presented below in Table 2.

**Table 2**

<b>June 2021 Final Effluent Weekly TSS Averages</b>	
Week 1	<4.0 mg/L
Week 2	4.4 mg/L
Week 3	<4.0 mg/L
Week 4	5.0 mg/L

The final effluent test results demonstrate that the biological treatment process performed well during June. Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service. 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 for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Discharge to the Applebrook irrigation lagoon, outfall 002 continued through June 2022.

Table 3 presents the available pollutant data for the Applebrook discharge reported as outfall 002 on the June 2022 DMR.

**Table 3**

<b>June 2022 - Applebrook - Out Fall 002</b>														
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		Total Nitrogen		TSS		NH <sub>4</sub> -N		Phosphorus, Total		Fecal Coliform		
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean	
	Average	0.135	25		Report	Report	30		7.0	44	0.5	3	200	1,000
			40				45							
June 7, 2022	0.0401	2.0	0.67	1.43	3.09	4.0	1.34	0.10	0.03	0.18	0.06	2	0.3010	
June 14, 2022	0.0412	2.0	0.69	6.52	2.24	4.4	1.51	0.10	0.03	0.12	0.04	1	0.0000	
June 21, 2022	0.0418	2.0	0.70	6.36	NS	4.0	1.39	0.10	0.03	0.14	0.05	20	1.3010	
June 28, 2022	0.0406	2.0	0.68	5.59	1.89	5.0	1.69	0.10	0.03			6	0.7782	
Average	0.0409	2.0	0.68	4.98	2.41	4.4	1.5	0.10	0.03	0.15	0.05	7	0.5951	
Minimum	0.0401	2.0	0.67	1.43	1.89	4.0	1.3	0.10	0.03	0.12	0.04	1	0.0000	
Maximum	0.0418	2.0	0.70	6.52	3.09	5.0	1.7	0.10	0.03	0.18	0.06	20	1.3010	

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility generally remained within the design concentration and organic loading values. The monthly average weekly concentrations were generally observed to be less than the design parameters for the treatment process.

Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during June 2022.

Table 4

June 2022 - Influent Wastewater													
Design Basis	Flow	BOD <sub>5</sub>		CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD Average	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		335	2,098	NA	NA	320	2,001	32	200	48	301	9.1	57
Sample Date													
June 7, 2022	0.331	220	607	202	558	230	635	15.2	42	53.0	146	5.25	14.5
June 14, 2022	0.444	319	1,182	231	856	267	989	23.8	88	54.4	202	6.24	23.1
June 21, 2022	0.428	254	906	284	1,014	280	999	28.3	101	55.3	197	5.70	20.3
June 28, 2022	0.402	277	928	228	764	285	955	26.0	87			6.38	21.4
Average	0.4012	268	906	236	798	266	895	23	80	54.2	182	5.9	19.8
Minimum	0.3310	220	607	202	558	230	635	15	42	53.0	146	5.3	14.5
Maximum	0.4442	319	1,182	284	1,014	285	999	28	101	55.3	202	6.4	23.1

The foam on the SBR surface reduced to approximately 15% to 25% coverage of the surface area. The foam thickness is approximately 2 inches with a light to medium brown color. These conditions may contribute to a decrease in clarity within the final effluent post flow equalization basins; however, the clarity is improved after passing through the disc filters. The operation strategy is to lower the MLSS to maintain a F:M ratio of 0.06 while ensuring the ammonia effluent discharge concentration remains within the seasonal limit of 2.5 mg/L.

**PA DEP**

Discussions are ongoing regarding measuring and Ultraviolet light intensity.

**Pennoni Associates**

No activity

**Chemical Usage:**

June 2022		
Chemical	Daily Average	Total Monthly
Soda Ash, pounds	281	8,700
Aluminium Sulfate solution, gal	64.4	1,991
Centrifuge sludge dewatering, gallons	19,155*	574,643**

\*The centrifuge is not operated on a daily basis throughout the month.

\*\*There was an increase of 208,773 gallons of sludge dewatered during June

**Flow data:**

June 2022			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	11.933	397,777	507,360
Influent Wastewater to SBRs*	12.894	429,798	515,200
Internal Recycle**	1.169	37,716	130,390
Treated Effluent to Disc Filters	13.059	435,290	489,344
Final Effluent Discharge	8.071	269,000	316,000
Applebrook Golf Course	1.285	42,848	48,176

During June, the average monthly influent wastewater flow measured at the “field” flow meter was 397,777 gallons/day as compared to the influent flow into the SBRs as 429,798 gallons/day. The difference between the daily averages is 32,021 gpd, which is consistent with the average daily volume of internal recycle flow. These values are considered typical as the flows to the SBR should be greater due to including all the internal recycle flows.

**Minor Preventative Maintenance**

Flushed chemical feed lines to the SBRs.

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly

Cleaned buildings and laboratory

**Significant Rainfall**

During June, there were nine (9) days when rainfall occurred. There were two (2) events of rainfall meeting or exceeding 0.50 inches. Total rainfall for the month was recorded as 4.31 inches.

June 9<sup>th</sup> 1.10 inches

June 12<sup>th</sup> 1.50 inches



**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**June 13, 2022**

The East Goshen Township Municipal Authority held their regular meeting on Monday, June 13, 2022 at 7:00 pm. at the Township Building. Members in attendance are indicated in **BOLD**:  
Walter Wujcik, Chairman  
Kevin Cummings, Vice Chairman

**Phil Mayer**  
**Dana Pizarro**  
**Jack Yahraes**

Also in attendance were: Mark Miller (Director of Public Works), Dave Ware (Director of Finance), Patrick McKenna (Attorney) and Scott Towler (via phone).

**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**

Phil called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. He asked for a moment of silence for our First Responders, Military and Chester Co. EMTs. He asked if anyone would be recording the meeting. There was no response.

**Chairman’s Report**

**1. West Goshen** – Phil attended the recent meeting. Their plant is in compliance for May. They reviewed their 10 year Capital Improvement Plan which includes contributing townships. He reviewed the project/cost list and pointed out East Goshen. The Westtown Way Pump Station will have a 4-6 week delay for the switch board. They are pouring a pad under the Pump Station. Phil reported that they mentioned a development of about 20 homes that is still on on-site sewer systems. It will cost \$40,000 each to connect to the sewer system and half of them don’t want it.

**SEWER REPORTS**

**1. Director of Public Works, Mark Miller’s report for May 2022**

**Monthly Flows** – The average daily flow to West Goshen was 709,470 per day.

**Meters:** The meters were calibrated by Allied Control on May 15, 2022. No repairs were needed. The meters have been read on a daily basis.

1 **C.C. Collection:** The Public Works Department televised the sanitary sewers in Waterview Farms.  
2 This was done to make sure there were no problems after Aqua installed new lines. All of the Pump  
3 Stations were visited on a daily basis. The Public Works Department also vacuumed the wet wells  
4 and cleaned the floats and FOG rods.  
5

6 **R.C. Collection:** The pumping stations were visited on a daily basis. The Public Works Department  
7 vacuumed out the wet wells and cleaned the floats and FOG rods. We had a problem at the Hunt  
8 Country Pump Station when PECO lost a phase. The station was on backup power for 8 hours until  
9 PECO made repairs.  
10

11 **Ridley Creek Plant:** Routine maintenance was performed at the plant. John Laidley was on site to  
12 install the new remote control for the Filter Feed Controls so the operator can turn equipment on and  
13 off during storm events remotely. Our generator contractor was on site. While performing routine  
14 maintenance to the generator he noticed that the generator was low on antifreeze. Upon further  
15 investigation, Paul found that the lower hose failed, and the generator had shut down. We are going  
16 to have John Laidley install a dialer on both generators that will call out in the event of an equipment  
17 failure.

18 The equipment cabinet air conditioner on the Centrifuge quit working. We received quotes to replace  
19 the air conditioner unit. Prices range from \$6,800 to \$8,180. I called Lenni and Jimmy found a unit  
20 for \$5,500 which was ordered. The new unit is two weeks out and Lenni will take care of the  
21 installation.  
22

23 **Alarms:** We responded to 15 alarms for May.  
24

25 **PA One Calls:** We responded to over 90 PA One Calls for the month of May.  
26

27 **Monthly Rainfall:** 6.85 inches of rain for the month of May.  
28

29 **Lateral Repairs or Caps:** 2 laterals were repaired on Madison Drive due to a landscaper hitting the  
30 clean outs. 4 additional repairs were done in May.  
31

32 Phil asked about a bog turtle test at the exposed pipe on E. Boot Road. Mark explained how he will  
33 repair it. Also Mark mentioned that there was a clog at Rossmore again due to grease.  
34  
35  
36

## 37 **2. Pennoni Engineer's Report dated June 10, 2022** 38

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

- 40 • Caustic Soda Conversion – We confirmed tank fill pipe sizing with the chemical supplier and  
41 obtained an updated quote for the tank with larger fill (4”) and vent (6”) penetration from  
42 Pyrz Water.
- 43 • UV Disinfection System – Glasco is preparing the design submittal. They initially expected to  
44 submit it by the end of May, but we have not received it, and we are awaiting a schedule and  
45 update from them.

1 The overall lead time for the Glasco equipment was initially estimated to be approximately 5  
2 months (including submittals) from contract execution on April 8, so equipment delivery was  
3 expected around September 2022. However, this schedule may be extended pending the  
4 design submittal timeline.

5 The installation of the system and other electrical and controls work is tentatively planned to  
6 occur in late fall-early winter once awards for the Commonwealth Financing Authority (CFA)  
7 Local Share Account (LSA) grants are announced. Bid documents for the mechanical and  
8 electrical construction contracts will be finalized this summer for bidding to occur in fall; the  
9 schedule will be refined over the next couple months pending updates on the CFA's schedule  
10 for grant award announcements.

- 11 • NPDES Permit Renewal – The permit renewal was officially issued, effective April 1, 2022  
12 and runs through March 31, 2027. We are coordinating with Big Fish on the new treatment  
13 plant sampling requirements in the renewed permit.

#### 14 **Ridley Creek Collection System Permanent Meters**

- 15 • No activity since our last report.

#### 16 **Westtown Way Pump Station**

- 17 • No update since our last report. The following update is from HRG in our May report:

18 *Excavation and subgrade preparation for the exterior electrical pad has been completed, and interior*  
19 *work such as initial pump removal tasks has also commenced. Unsuitable soils and concrete deposits*  
20 *were encountered underground for the electrical pad and had to be removed and replaced with*  
21 *suitable materials. A change order is expected.*

22 *All equipment is currently expected to be delivered on schedule with the exception of the electrical*  
23 *switchboard which is tentatively delayed until early 2023. The switchboard delay may extend the*  
24 *entire project since they may not be able to install the new VFDs, and thereby install new pumps, until*  
25 *the switchboard is installed. The entire project may therefore be extended until mid-2023. The*  
26 *contractors have been asked to provide updated schedules at the next Township progress meeting*  
27 *later this month [May].*

#### 28 **Sanitary Sewer Pipe Rehab**

- 29 • Supplee Valley – No activity since our last report.
- 30 • Hershey's Mill Estates – The PADEP General Permit GP-11 "Stream Obstructions" was  
31 approved, and the permit is attached.

32 Since a LSA grant application was submitted for this project, construction contracts cannot be  
33 awarded if/until the grant is "approved". We therefore currently plan to bid the project in the  
34 late fall-early winter with construction projected in early to mid-2023.

- 35 • Ridley Creek Exposed Sewer Rehab – There is a ductile iron sewer main exposed in the  
36 Ridley Creek stream bed immediately north of N. Boot Road near Bellingham. We previously  
37 initiated preparation of a draft DEP emergency General Permit application to encase the pipe  
38 in concrete and add riprap to the immediately upstream stream bed.

39 A bog turtle habitat survey will be conducted by a 3<sup>rd</sup> party "Qualified Bog Turtle Surveyor  
40 (QBTS)" to address the associated requirement in the PNDI Search. The survey is scheduled

1 for June 16. If the QBTS does not identify habitat within 300 feet, approval from the US Fish  
2 and Wildlife Service (USFWS) is not required. The emergency permit application will be  
3 submitted to PADEP upon clearance of the bog turtle habitat.

#### 4 **I&I Program**

- 5 • No activity since our last report.

#### 6 **New Connections**

- 7 • Sewer Extension Study – No activity since our last report.
- 8 • 1344 Morstein Road – We reviewed a contractor’s sketch for a low pressure sewer lateral to  
9 connect the subject property to the public sewer in Eastwick Circle. We have comments and  
10 concerns on the proposed approach, and we are contacting the contractor to discuss.

#### 11 **Industrial Pretreatment Ordinance**

- 12 • No activity since our last report. As discussed at the May 2021 MA meeting, a headworks  
13 study with sampling at the RCSTP can be conducted to set contaminant limits.

#### 16 **3. Big Fish Environmental Services –**

17 The Ridley Creek sewage treatment plant outfall 001 and 002 reported non-compliance with three  
18 parameters identified as only “Report” with no effluent limitations regarding water quality. The  
19 parameters listed are effluent total nitrogen, Ultraviolet light intensity and influent CBOD. The non-  
20 compliance was the result of the NPDES permit becoming effective April 1 2022. All supplemental  
21 reports were submitted for the month of April with the DMR. Discharge to the Applebrook irrigation  
22 lagoon remained in service. Chemical usage utilized for pH and total alkalinity remained consistent  
23 with previous months. Aluminium sulfate solution volumes were reduced to a daily average of 58.5  
24 as compared to the previous month at 67.6 gpd to achieve phosphorus removal. No significant  
25 mechanical or operational issues were observed during operation of sludge dewatering equipment or  
26 SBR treatment process. There were no odor complaints during the month.  
27 Phil mentioned that the Members had a nice tour of the plant today.

#### 29 **Approval of Minutes**

30 The minutes of the May 9, 2022 meeting were approved. The April minutes will have to be approved  
31 at the next meeting.

#### 34 **Approval of Invoices**

- 35 1. The invoices were reviewed particularly the Maillie Invoice. It was determined that \$7,000 was  
36 paid and \$3,250 was still due. The Pennoni invoices were discussed, and it was discovered that  
37 Invoice #1113819 in the amount of \$13,564.75 was included in the packet but not on the  
38 Agenda. Dana made a motion to add the Pennoni Invoice #1113819 in the amount of \$13,564.57  
39 to the agenda. Jack seconded the motion. The motion passed unanimously.
- 40 2. Dana made a motion to approve payment of the 7 Pennoni invoices as shown on the agenda and  
41 the added invoice. Phil seconded the motion. The motion passed unanimously.

- 1 3. Dana made a motion to approve payment of the Deckman, Teledyne Instruments, TelTek  
2 Colonial Electric and 2 Gawthrop invoices as shown on the Agenda. Jack seconded the motion.  
3 The motion passed unanimously.  
4

5 **Liaison Reports**

6 None  
7

8 **Financial Reports**

9 **1. April Financial Report** - Dave Ware provided the following report:

10 In April 2022, the Municipal Authority recorded \$36,415 in revenues (transfers from Sewer  
11 Operating and Sewer Capital Reserve) and \$36,414 in expenses (General Engineering Services, 2  
12 Rebuilt Fairbanks Pumps for the Ashbridge Pump Station, Engineering for Hershey's Mill Estates  
13 Sewer Replacement and Engineering for RCSTP UV Replacement), for a net result of operations of  
14 \$0. As of April 30, 2022, the fund balance was \$9,128.

15 **2. May Financial Report** – Dave Ware provided the following report:

16 In May 2022, the Municipal Authority recorded \$10,576 in revenues (transfers from Sewer Operating  
17 and Sewer Capital Reserve plus Tapping Fees) and \$10,276 in expenses (General Engineering  
18 Services, Legal Services, and Engineering for RCSTP UV Replacement) for a net result of operations  
19 of \$300. As of May 31, 2022 the fund balance was \$9,428.

20 **3. Dave led a discussion** of total sewer debt service and additional capital needs. Mark Miller  
21 provided an inventory of the RCSTP. The total need is \$4.6m, \$3.3m is the current reserve. He  
22 reviewed current projects and funding needed for them. He reviewed sewer rates over the next 10  
23 years. He feels that a fixed rate of \$60 per year starting in 2023 would cover the need over 10 years.  
24 He is hoping to get grants for some of the projects. Dana feels we need to compare rates to a system  
25 and township about the same size as East Goshen. Mark suggested contacting FEMA for this. Dave  
26 will take their comments under consideration. The members thanked Dave for his report.  
27  
28

29 **Old Business**

30 **1. Connection for 1344 Morstein Road** - Patrick has been working with their attorney on the  
31 easement agreement. Mike Ellis is fine with the agreement but has concerns about the construction.  
32 Mark explained the details of what needs to be done. Jack made a motion to approve the connection.  
33 Dana seconded the motion. The motion passed unanimously.  
34  
35

36 **Goals**

37 The goals were reviewed. The items on hold are on the inventory list.  
38

39 **New Business**

40 **1. UV Replacemen Project** - Regarding an email from Mike Ellis about adding a budget item, Dana  
41 made a motion to increase the budget for UV engineering by \$30,000. Jack seconded the motion.  
42 The motion passed unanimously.

43 **2. Pyrz Qoute** – Mark explained that the increase in the price is due to the increase in size – a 6” line.  
44 Jack made a motion to accept the updated quote to \$34,365. Dana seconded the motion. The motion  
45 passed unanimously.

46 **3. The Hershey's Mill sewer** PA DEP permit was reviewed.

1 4. Proposal for Phase 1 Bog Turtle Survey - A proposal was received from GHD to conduct a bog  
2 turtle habitat assessment for a proposed sanitary sewer rehabilitation project along the east branch of  
3 the Ridley Creek. Cost is estimated at \$2,500. Jack made a motion to accept this proposal from  
4 GHD for \$2,500 for a bog turtle survey. Dana seconded the motion. The motion passed  
5 unanimously.

6  
7 **Capacity Request** - None

8  
9  
10 **Any Other Matter** – None

11  
12 **Correspondence**- None

13  
14 **Public Comment** - None

15  
16  
17 **Adjournment**

18 There being no further business Jack moved to adjourn the meeting. Dana seconded the motion. The  
19 motion passed unanimously. The meeting was adjourned at 8:30 pm.  
20 The next regular meeting will be held on Monday, July 11, 2022 at 7:00 pm.

21  
22 Respectfully submitted,

23  
24  
25 Ruth Kiefer, Recording Secretary



# INVOICE

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

Mark Miller  
East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199

Invoice No : 1126019  
Invoice Date : 06/30/2022  
Project : EGMAU22001  
Project Name : 2022 General  
Services

---

**For Services Rendered Through 06/19/2022**

June Engineer's Report; reviewed RCSTP operator's report; reviewed proposed 1344 Morstein Rd sewer connection sketch and easement, and provided comments to M. Miller, Solicitor, and contractor; cursory review of Moser development sewer concept plans and associated upgrades for the downstream Hershey's Mill Pump Station; coordinated with Big Fish on sampling under new NPDES permit; and coordinated for bog turtle habitat investigation for Boot Road creek crossing sewer rehab permitting.

Billing Limits	Current	Prior	To-Date
Total Billings	1,051.25	13,320.75	14,372.00
Limit			35,000.00
Remaining			20,628.00

**Labor**

	Hours	Rate	Amount
Authority Engineer	4.75	141.00	669.75
Senior Professional	1.00	134.00	134.00
Associate Professional	1.00	105.00	105.00
Graduate Professional	1.50	95.00	142.50
Totals	8.25		1,051.25
<b>Total Labor</b>			<b>1,051.25</b>
<b>Total this Invoice</b>			<b><u>\$1,051.25</u></b>

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

---

2022 General Services  
EGMAU22001 Invoice Summary  
Invoice Date 6/30/2022

**Project:** EGMAU22001  
**Pennoni Job No.:** 2022 General Services  
**Invoice No:** 1126019  
**Invoice Period:** 5/16/2022 to 6/19/2022  
**Initial Authorization:** \$ 35,000.00 **Date:** 6/30/2022  
**Contract Amount:** \$ 35,000.00  
**Previously Invoiced:** \$ 13,320.75  
**Current Invoice:** \$ 1,051.25  
**Invoiced to Date (\$):** \$ 14,372.00  
**Invoiced to Date (%):** 41%  
**Remaining Budget (\$):** \$ 20,628.00  
**Remaining Budget (%):** 59%

**Budget by Phase:**

**Phase Name:** 2022 General Services  
**Phase Budget:** \$ 35,000.00  
**Previously Invoiced:** \$ 13,320.75  
**Current Invoice:** \$ 1,051.25  
**Invoiced to Date (\$):** \$ 14,372.00  
**Invoiced to Date (%):** 41%  
**Remaining Budget (\$):** \$ 20,628.00  
**Remaining Budget (%):** 59%

**Comments:** June Engineer's Report; reviewed RCSTP operator's report; reviewed proposed 1344 Morstein Rd sewer connection sketch and easement, and provided comments to M. Miller, Solicitor, and contractor; cursory review of Moser development sewer concept plans and associated upgrades for the downstream Hershey's Mill Pump Station; coordinated with Big Fish on sampling under new NPDES permit; and coordinated for bog turtle habitat investigation for Boot Road creek crossing sewer rehab permitting.





# INVOICE

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

Mark Miller  
East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199

Invoice No : 1126021  
Invoice Date : 06/30/2022  
Project : EGMAU22004  
Project Name : RCSTP UV  
Replacement

**For Services Rendered Through 06/19/2022**

Initiated review of Glasco's UV design submittal, initiated structural design of UV channel wall raising, and performed field visits for channel and wall measurements to assist in submittal review and structural design.

Billing Limits	Current	Prior	To-Date
Total Billings	791.50	18,323.50	19,115.00
Limit			30,000.00
Remaining			10,885.00

**Labor**

	Hours	Rate	Amount
Authority Engineer	.50	141.00	70.50
Senior Professional	4.25	134.00	569.50
Sr. Eng Tech	1.50	101.00	151.50
Totals	6.25		791.50
<b>Total Labor</b>			<b>791.50</b>

**Total this Invoice \$791.50**

**Outstanding Invoices**

Number	Date	Balance
1113012DUP	6/21/2022	-2,537.25
<b>Total</b>		<b>-2,537.25</b>

The above invoice was duplicate paid - we are applying this \$791.50 towards that credit balance. Remaining Credit Balance \$1,745.75

*This was paid in general services in Feb, then split to RCSTP UV.*

*[Signature] 7/8/22*

RCSTP UV Replacement  
EGMAU22004 Invoice Summary  
Invoice Date 6/30/2022

<b>Project:</b>	EGMAU22004		
<b>Pennoni Job No.:</b>	RCSTP UV Replacement		
<b>Invoice No:</b>	1126021		
<b>Invoice Period:</b>	5/16/2022	to	6/19/2022
<b>Initial Authorization:</b>	\$ 30,000.00	<b>Date:</b>	6/30/2022
<b>Contract Amount:</b>	\$ 30,000.00		
<b>Previously Invoiced:</b>	\$ 18,323.50		
<b>Current Invoice:</b>	\$ 791.50		
<b>Invoiced to Date (\$):</b>	\$ 19,115.00		
<b>Invoiced to Date (%):</b>	64%		
<b>Remaining Budget (\$):</b>	\$ 10,885.00		
<b>Remaining Budget (%):</b>	36%		

**Budget by Phase:**

<b>Phase Name:</b>	RCSTP UV Replacement		
<b>Phase Budget:</b>	\$ 30,000.00		
<b>Previously Invoiced:</b>	\$ 18,323.50		
<b>Current Invoice:</b>	\$ 791.50		
<b>Invoiced to Date (\$):</b>	\$ 19,115.00		
<b>Invoiced to Date (%):</b>	64%		
<b>Remaining Budget (\$):</b>	\$ 10,885.00		
<b>Remaining Budget (%):</b>	36%		

**Comments:** Initiated review of Glasco's UV design submittal, initiated structural design of UV channel wall raising, and performed field visits for channel and wall measurements to assist in submittal review and structural design.

68888



# INVOICE

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

Mark Miller  
East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199

Invoice No : 1113012  
Invoice Date : 03/25/2022  
Project : EGMAU22004  
Project Name : RCSTP UV  
Replacement

For Services Rendered Through 01/16/2022

RCSTP UV Replacement - Obtained and reviewed reduced cost quote for Trojan system, evaluated technical capabilities and features of Glasco vs. Trojan systems including additional vendor meetings, prepared and submitted cost comparison to MA, evaluated feasibility of a 4th UV system from Kershner, prepared scope and specifications for separate electrical construction work, submitted scope to Lenni for cost quote, design of temporary bypass system, and evaluated viability of FEMA disaster recovery grant application with operator and M. Miller.

### Labor

	Hours	Rate	Amount
Authority Engineer	1.75	141.00	246.75
Senior Professional	12.00	134.00	1,608.00
Associate Professional	6.50	105.00	682.50
Totals	20.25		2,537.25
<b>Total Labor</b>			<b>2,537.25</b>
<b>Total this Invoice</b>			<b>\$2,537.25</b>

\* should not have been paid as additional invoice; for tracking only. will run a credit balance until exhausted  
7/8/22

PAID 6/15/22

APPROVED BY: [Redacted]  
DATE PAID: \_\_\_\_\_  
CHECK #: \_\_\_\_\_  
CHARGED TO: 0742901505

RCSTP UV Replacement  
EGMAU22004 Invoice Summary  
Invoice Date 1/27/2022

**Project:** EGMAU22004  
**Pennoni Job No.:** RCSTP UV Replacement  
**Invoice No:** 1113012  
**Invoice Period:** NTP to 1/16/2022  
**Initial Authorization:** \$ **Date:** 1/27/2022  
**Contract Amount:** \$  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,537.25  
**Invoiced to Date (\$):** \$ 2,537.25  
**Invoiced to Date (%):** 0.00  
**Remaining Budget (\$):** \$  
**Remaining Budget (%):**

**Budget by Phase:**

**Phase Name:** RCSTP UV Replacement  
**Phase Budget:** \$  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 2,537.25  
**Invoiced to Date (\$):** \$ 2,537.25  
**Invoiced to Date (%):** 0  
**Remaining Budget (\$):** \$  
**Remaining Budget (%):**

**Comments:** RCSTP UV Replacement - Obtained and reviewed reduced cost quote for Trojan system, evaluated technical capabilities and features of Glasco vs. Trojan systems including additional vendor meetings, prepared and submitted cost comparison to MA, evaluated feasibility of a 4th UV system from Kershner, prepared scope and specifications for separate electrical construction work, submitted scope to Lenni for cost quote, design of temporary bypass system, and evaluated viability of FEMA disaster recovery grant application with operator and M. Miller.



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.c

Please Note:  
**Please Mail checks to:**  
**P.O. Box 562**  
**West Chester, PA 19381-0562**

**To Make a Payment with a Credit Card, please visit:**  
**<https://secure.lawpay.com/pages/gawthrop/operating>**

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester PA 19380

Page: 1  
06/09/2022  
Client No: 6604-001M  
Invoice No. 259154

General Authority Services

Fees

			Hours	
05/05/2022	PMM	Email from S. Smith with meeting agenda and materials.	0.20	40.00
05/09/2022	SLF	Preparation for and attendance at meeting	1.50	300.00
05/13/2022	PMM	Emails (3) from/to S. Smith regarding 1344 Morstein sewer easement.	0.60	120.00
05/15/2022	PMM	Email to M. Miller regarding easement agreement for Kyong-Aie Thomas.	0.20	40.00
05/16/2022	PMM	Email from M. Miller regarding easement agreement for Kyong-Aie.	0.20	40.00
05/17/2022	PMM	Telephone conference with M. Miller regarding easement agreement for Kyong-Aie; Emails (2) to/from M. McKeon regarding same; Email to M. Miller regarding review of legal description.	0.80	160.00
05/18/2022	EBK	Review of Yoegel sewer easement	0.40	80.00
	PMM	Emails (3) from M. Miller regarding sewer easement for Kyong-Aie; Emails (3) to/from M. McKeon regarding same; Email from S. Smith regarding same.	1.40	280.00
		For Current Services Rendered	5.30	1,060.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Stacey L. Fuller	1.50	\$200.00	\$300.00

East Goshen Municipal Authority

Page: 2

06/09/2022

Client No:

6604-001M

Invoice No.

259154

General Authority Services

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna	3.40	200.00	680.00
Ellen Koopman	0.40	200.00	80.00

Previous Balance ~~\$360.00~~

Total Current Charges 1,060.00

Balance Due \$1,420.00



Handwritten signature in blue ink, possibly reading "J. [unclear]" with a date "7/8/22" written below it.

To ensure proper credit, please write your client number on your check when returning payment.  
A finance charge of 1.25% per month (15% annually) may be charged on balances not paid 60 days after the invoice date.

Original Invoice  
**INVOICE**

Divisions of Colonial Electric:



INVOICE NUMBER	INVOICE DATE
14642609	06/07/22
PLEASE REMIT PAYMENT TO	
Colonial Electric Supply Company, Inc. PO BOX 414564 Boston MA 02241-4564	

Billing Questions?  
Call: THOMAS KARACKAI  
484-679-2295

**BILLING ADDRESS**

5191 1 MB 0.485 E0049X I0092 D9225318658 S2 P9073788 0001:0001

**SHIPPING ADDRESS**

EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE  
WEST CHESTER PA 19380-6107

EAST GOSHEN TOWNSHIP  
ATTN: ACCOUNTS PAYABLE  
1580 PAOLI PIKE  
WEST CHESTER PA 19380-6107

CUSTOMER PO	ORDER DATE	ORDERED BY	SHIP DATE	SHIPPED VIA	FREIGHT TERM
RIDLEY FLOW METER	05/25/22	JIM	06/07/22		PAD
COMMENTS	CO. UNIT / WH	ENTERED BY	ACCOUNT ID	ORIGINAL INVOICE	SALESPERSON
	02 / DC	9795	E163	QT217988	0001

LINE	SKU	CUSTOMER SKU	DESCRIPTION	ORD QTY	SHIP QTY	BO QTY	UNIT PRICE	UM	EXTENDED AMT
10	60000015520		HAY716080 7/8 STAINLESS	20	20	0	866.44	C	173.29
20	60000006865		HAYN821-3/8SS SPRING NUT SS	4	4	0	579.13	C	23.17
30	60000010230		HAYF213-304SS 4H FLAT T	2	2	0	26.57	E	53.14
40		MESSAGE	ABOVE IS A 4-HOLE FLAT T						
50		MESSAGE	QTY:1 IN STK BALANCE						
			2-WEEKS						
60		MESSAGE	*****						
			***						
70	60000023025		HAYF214-304SS 4H FLAT 90	2	2	0	18.00	E	36.00
			DNR						
80	NS8888	62398038690	HMND 1418N4SSS16 48X36X16	1	1	0	2770.00	E	2770.00
			ENCL						
90		MESSAGE	DELIVERY:2-WEEKS						

APPROVED BY: [Signature]  
DATE PAID: \_\_\_\_\_  
CHECK #: \_\_\_\_\_  
CHARGED TO: 07

Invoice Due By: 7/7/2022

Invoices not paid within 30 days from the billing date are subject to a late fee of 1.5% per month. All sales are subject to Colonial's standard terms and conditions of sale in effect as of the date of the placement of an order. Colonial objects to any proposed term that is inconsistent with its standard terms of sale. Colonial's current standard terms and conditions of sale can be found at <http://www.colonialelectric.com/termsandsale> or a copy can be obtained from Colonial's Customer Financial Services Dept. All terms and conditions are subject to change without notice. To ensure proper customer service, Colonial Electric records all calls for quality and training.

<b>SUBTOTAL</b>	3055.60
<b>S&amp;H CHGS</b>	
<b>0.00% TAX</b>	0.00
<b>PAY THIS AMOUNT</b>	<b>3055.60</b>

For a Complete List of Locations  
Please Visit  
[www.colonialelectric.com](http://www.colonialelectric.com)

Accepted By  
[Signature]  
CUMMINS





# colonial electric supply

Since 1972... Powered By Excellence!

[www.coloniaelectric.com](http://www.coloniaelectric.com)

Downingtown (610) 873-6400  
Reading (610) 374-2134

Glenolden (610) 870-0160  
Warminster (215) 672-5600

**Corporate Office**  
201 W.Church Road  
King of Prussia, PA 19406  
Phone: (610) 312-8100  
Fax: (610) 312-8131

Myerstown (717) 376-3039  
Vineland (856) 462-63009  
Collegeville (610) 489-7600

Lancaster (717) 405-3101  
Hammonton (609) 704-99501  
Pleasantville (609) 645-8110

Allentown (610) 435-9691  
Brooklyn (718) 210-0590  
Wilmington (302) 998-9993

Northeast Philadelphia (215) 464-0800  
Center City Philadelphia (215) 928-0800  
Cape May Court House (609) 465-7144

## PACKING LIST

Invoice No.	Date	Page
14642609	06/06/22	1 of 1

Ship To  
EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE [F]  
  
WEST CHESTER PA 19380-6107

Sold To  
EAST GOSHEN TOWNSHIP E163  
ATTN: ACCOUNTS PAYABLE  
1580 PAOLI PIKE  
WEST CHESTER PA 19380

Customer PO	Date Ordered	Ordered By	Date Required
RIDLEY FLOW METER	05/25/22	JIM	06/07/22

Shipped Via	Freight	Source	Co. Unit / WH	Entered By	Account ID
	PAD	CC	02 / DC	9795	E163

Original Invoice	Salesperson	Comments
QT217988	0001	

Job No	Contact	Payment Terms
	RECEIVING Phone: 610-692-7171	N30D

Line	SKU	WH Location	Description	Ordered	Back Ordered	Shipped	Unit Price	UM	Extended Amt
10	60000015520	Pipe	HAY716080 7/8 STAINLESS	20	0	20	866.44	C	173.29
20	60000006865		HAYN821-3/8SS SPRING NUT SS	4	0	4	579.13	C	23.17
30	60000010230		HAYF213-304SS 4H FLAT T	2	0	2	26.57	E	53.14
40	MESSAGE		ABOVE IS A 4-HOLE FLAT T						
50	MESSAGE		QTY:1 IN STK BALANCE 2-WEEKS						
60	MESSAGE		*****						
70	60000023025		HAYF214-304SS 4H FLAT 90 DNR	2	0	2	18.00	E	36.00
80	NS8888		HMND 1418N4SSS16 48X36X16 ENCL CUST SKU: 62398038690	1	0	1	2770.00	E	2770.00
90	MESSAGE		DELIVERY:2-WEEKS						

APPROVED BY: [Signature] 7/6/22  
DATE PAID: \_\_\_\_\_  
CHECK #: \_\_\_\_\_  
CHARGED TO: \_\_\_\_\_

Capital New Flow meter

**X**

**RETURNS POLICY:** All returns must have prior authorization. Returns under \$25.00 will not be accepted. No cash refunds will be given for material returned. Returns must be undamaged in manufacturers original carton and may be subject to a restocking fee.  
**SPECIAL ORDERS:** A deposit is required on special order merchandise, and these orders are non-cancelable and non-returnable.  
**TERMS & CONDITIONS:** Colonial's current standard terms and conditions of sale can be found at [www.coloniaelectric.com/TermsOfSale](http://www.coloniaelectric.com/TermsOfSale) or a copy can be obtained from Colonial's Customer Financial Services Dept. All terms and conditions are subject to change.

TP: 1	Subtotal	3055.60
22:13:36	Transportation	0.00
	.0% Tax	0.00
	<b>Total</b>	<b>3055.60</b>



Picked by	Cartons	Packages	Reels
Coils	Pieces	Bundles	Skids



Colonial Electric Supply Company, Inc.

ROUTE MANIFEST

ROUTE: F

STOP: 5 06/07/22

Time Comm/ShipNotes

Inv#

Ship Addr

Cust Name / Site Name

14642609 1580 PAOLI PIKE [F]  
WEST CHESTER, PA 19380-6107

EAST GOSHEN TOWNSHIP

Contact: RECEIVING Phone: 610-692-7171

[X-Dock] CT:1 SK:1

Qty: 20

HAY716080 7/8 STAINLESS

P

**CT:1 SK:1**

TRACOM, Inc.  
 6575-A Industrial Way  
 Alpharetta, GA 30004  
 1.877.435.8637  
 maryann@tracomfrp.com  
 www.tracomfrp.com



# Invoice

**BILL TO**  
 Mr Mark Miller  
 East Goshen Township  
 1580 Paoli Pike  
 West Chester, PA 19380

**SHIP TO**  
 East Goshen Township  
 Mark Miller  
 1580 Paoli Pike  
 West Chester, PA 19380

INVOICE #	DATE	TOTAL DUE	TERMS	ENCLOSED
80016	06/01/2022	\$18,730.00	Net 30	

<b>SHIP DATE</b>	<b>SHIP VIA</b>	<b>P.O. NUMBER</b>	<b>PROJECT NAME</b>
06/01/2022	Matson	422-3700	East Goshen Township


ACTIVITY	DESCRIPTION	QTY	AMOUNT
MH-4H20	Packaged H-20 Fiberglass Manhole, 4'-0" Ø, with: -13'-0" deep (inlet invert to grade ring bench) -Fiberglass tube, 1/2" nominal thickness, Polyester Resin and Gel Coat (white) -Integral base with 4" external mounting flange -Polystyrene pad for placement between slab and manhole -H-20 Highway Loading Cone (grade rings, cover, and frame by others) -31" I.D. / 32" O.D. opening	1	16,880.00
MH-I-PB-18	Palmer-Bowlus flume, 4D+1" style, 18" throat -Inlet and Outlet Bulkheads -Resin, Isophthalic polyester, 1/4" thick -Gel coat with U.V. inhibitors, grey cloud, textured finish, 15mil	1	
FAB-2"NPT	2" Ø NPT fitting / coupling / tap	1	
FAB-LADDER	Ladder, FRP, 1.5" Ø reinforced rungs, non-slip top surface, S.S. hardware	16	
P-18	Pipe Stub, 18" Ø x 6" L x 1/4" Thick, FRP	2	
C-CON-18	Coupling, concentric, 18" Ø for C.I./PVC, flexible PVC with S.S. clamps	2	
FLOW-ULT-FIXED-I	Ultrasonic mounting bracket, 304SS, Fixed arm (HA)	1	
Freight Out	Freight	1	1,850.00

Prompt Payment is appreciated.

**BALANCE DUE**

**\$18,730.00**

Capital  
 R.C. Plant  
 Meter.

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

TRACOM, Inc.  
 6575-A Industrial Way  
 Alpharetta, GA 30004  
 1.877.435.8637  
 maryann@tracomfrp.com  
 www.tracomfrp.com



# Invoice

**BILL TO**  
 Mr Mark Miller  
 East Goshen Township  
 1580 Paoli Pike  
 West Chester, PA 19380

**SHIP TO**  
 East Goshen Township  
 Mark Miller  
 1580 Paoli Pike  
 West Chester, PA 19380

INVOICE #	DATE	TOTAL DUE	TERMS	ENCLOSED
80016	06/01/2022	\$18,730.00	Net 30	

SHIP DATE	SHIP VIA	P.O. NUMBER	PROJECT NAME
06/01/2022	Matson	422-3700	East Goshen Township

ACTIVITY	DESCRIPTION	QTY	AMOUNT
MH-4H20	Packaged H-20 Fiberglass Manhole, 4'-0" Ø, with: -13'-0" deep (inlet invert to grade ring bench) -Fiberglass tube, 1/2" nominal thickness, Polyester Resin and Gel Coat (white) -Integral base with 4" external mounting flange -Polystyrene pad for placement between slab and manhole -H-20 Highway Loading Cone (grade rings, cover, and frame by others) -31" I.D. / 32" O.D. opening	1	16,880.00
MH-I-PB-18	Palmer-Bowlus flume, 4D+1" style, 18" throat -Inlet and Outlet Bulkheads -Resin, Isophthalic polyester, 1/4" thick -Gel coat with U.V. inhibitors, grey cloud, textured finish, 15mil	1	
FAB-2"NPT	2" Ø NPT fitting / coupling / tap	1	
FAB-LADDER	Ladder, FRP, 1.5" Ø reinforced rungs, non-slip top surface, S.S. hardware	16	
P-18	Pipe Stub, 18" Ø x 6" L x 1/4" Thick, FRP	2	
C-CON-18	Coupling, concentric, 18" Ø for C.I./PVC, flexible PVC with S.S. clamps	2	
FLOW-ULT-FIXED-I	Ultrasonic mounting bracket, 304SS, Fixed arm (HA)	1	
Freight Out	Freight	1	1,850.00

Prompt Payment is appreciated.

**BALANCE DUE**

**\$18,730.00**

# Memo

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To: Municipal Authority  
From: Dave Ware  
Re: MA June 2022 Financial Report  
Date: July 7, 2022

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In June 2022, the Municipal Authority recorded \$15,563 in revenues (transfers from Sewer Operating and Sewer Capital Reserve) and \$24,060 in expenses (General Engineering Services, Legal Services, and Engineering for RCSTP UV Replacement, Ashbridge Pump Station for Electrical Panel Replacement), for a net result of operations of <\$8,497>. As of June 30, 2022, the fund balance was \$931.

A complete list of 2022 full year MA revenues and expenses is attached.

EAST GOSHEN TOWNSHIP  
Other Funds  
June 2022  
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
<b>REVENUE</b>								
INTEREST EARNINGS	07341 1000			0.88	0.88		0.10	0.10
DCED GRANT	07354 0400	152,980						
C.C. TAPPING FEES	07364 1100	2,000	2,000		(2,000.00)			
R.C.TAPPING FEES	07364 1110	2,000	358	300.00	(58.01)	358		(358.01)
CONNECTION FEES - SEWER	07364 1130	1,000	335	281.88	(52.92)			
MISCELLANEOUS REVENUE	07380 1000			141.12	141.12			
TRANSFER FROM SEWER OPERATING	07392 0500	130,000		50,990.55	50,990.55		6,989.50	6,989.50
TRANSFER FROM SEWER CAP RESERVE	07392 0900	476,930	413,125	66,511.15	(346,613.54)	29,307	8,573.90	(20,732.74)
<b>TOTAL REVENUE</b>		<b>764,910</b>	<b>415,818</b>	<b>118,225.58</b>	<b>(297,591.92)</b>	<b>29,665</b>	<b>15,563.50</b>	<b>(14,101.15)</b>
<b>EXPENSES</b>								
ADMINISTRATIVE WAGES	07424 1400	30,529	14,754	16,744.10	(1,990.20)	7,473	8,372.05	(898.65)
MISCELLANEOUS EXPENSE	07424 3000	1,500	1,345	1,665.25	(320.27)		125.00	(125.00)
MUNIC.AUTH.-AUDITING	07424 3110	10,300	10,300	10,250.00	50.00			
ENGINEERING SERVICES	07424 3130	45,000	19,946	28,468.25	(8,522.55)	3,281	2,610.50	670.14
LEGAL SERVICES	07424 3140	8,000	5,038	2,360.00	2,677.74	2,186	360.00	1,826.17
R.C. CAPITAL-STP	07424 7440	315,000						
CAP.REPLACEMENT R.C.	07424 7490	41,400						
RELINING	07426 3001	130,000						
BARKWAY PUMP STATION CAPITAL	07429 1501			2,215.00	(2,215.00)			
ASHBRIDGE PUMP STATION CAPITAL	07429 1502			11,493.05	(11,493.05)		2,861.05	(2,861.05)
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503			29,390.17	(29,390.17)		121.60	(121.60)
HUNT CO PUMP STATION CAPITAL	07429 1504			1,870.00	(1,870.00)			
RCSTP CAPITAL	07429 1505	46,897	63,458	24,458.50	38,999.87	6,687	9,610.25	(2,922.95)
WEST GOSHEN CAPITAL	07429 6100	136,284						
<b>TOTAL EXPENSES</b>		<b>764,910</b>	<b>114,841</b>	<b>128,914.32</b>	<b>(14,073.63)</b>	<b>19,628</b>	<b>24,060.45</b>	<b>(4,432.94)</b>
<b>NET RESULT FROM OPERATIONS</b>			<b>300,977</b>	<b>(10,688.74)</b>	<b>(311,665.55)</b>	<b>10,037</b>	<b>(8,496.95)</b>	<b>(18,534.09)</b>

MUNICIPAL AUTHORITY June 30, 2022 YTD Financials

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	ID #	Name	Description	Description 2
07341-1000	BEGINNING BALANCE						0						
07341-1000	INTEREST EARNINGS	2201	JE	82114	-	0.19	0	1/31/2022	INTEREST		INTEREST EARNED JANUARY 2022	07 FUND	
07341-1000	INTEREST EARNINGS	2202	JE	82467	-	0.18	0	2/28/2022	INTEREST		INTEREST EARNED FEBRUARY 2022		7100.1035
07341-1000	INTEREST EARNINGS	2203	JE	82815	-	0.17	0	3/31/2022	INTEREST		INTEREST EARNED MARCH 2022	07 FUND	
07341-1000	INTEREST EARNINGS	2204	JE	83206	-	0.15	0	4/30/2022	INTEREST		INTEREST EARNED APRIL 2022		7100
07341-1000	INTEREST EARNINGS	2205	JE	83641	-	0.09	0	5/31/2022	INTEREST		INTEREST EARNED MAY 2022	07 FUND	
07341-1000	INTEREST EARNINGS	2206	JE	84003	-	0.10	0	6/30/2022	INTEREST		INTEREST EARNED JUNE 2022	07 FUND	
07364-1110	BEGINNING BALANCE						0						
07364-1110	R.C.TAPPING FEES	2205	RE	83419	-	300.00	0	5/18/2022	83419 1		706 HEMLOCK HILL SEWER INSPECT	R.C.TAPPING FEES	
07364-1130	BEGINNING BALANCE						0						
07364-1130	CONNECTION FEES - SEWER	2202	CR	82091	-	423.00	0	2/2/2022		2714 012430 1	STOFFLET, MICHAEL		
07364-1130	CONNECTION FEES - SEWER	2202	JE	82092	141.12	-	0	2/2/2022			PINE RK	INTEREST PORTION - STOFFLET	
07380-1000	BEGINNING BALANCE						0						
07380-1000	MISCELLANEOUS REVENUE	2202	JE	82092	-	141.12	0	2/2/2022			PINE RK	INTEREST PORTION - STOFFLET	
07392-0500	BEGINNING BALANCE						0						
07392-0500	TRANSFER FROM SEWER OPERATING	2201	JE	81851	-	5,497.00	0	1/13/2022	XFER		XFER \$ TO MA FROM SEWER &	SEWER CAP.RE: DEC.EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2202	JE	82281	-	6,324.50	0	2/16/2022	XFER		XFER \$ FROM OS & 09 RE: JAN.	2022 MA EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2203	JE	82519	-	660.00	0	3/8/2022	XFER		XFER \$ FROM SEWER & SEWER	CAPITAL TO MA	
07392-0500	TRANSFER FROM SEWER OPERATING	2203	JE	82561	-	360.00	0	3/11/2022	XFER		XFER \$ FROM OS TO 07 MA AUTH.		
07392-0500	TRANSFER FROM SEWER OPERATING	2203	JE	82627	-	7,000.00	0	3/18/2022	XFER		XFER \$ FROM OS TO 07 RE: 07	EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2203	JE	82773	-	8,372.05	0	3/30/2022	XFER		XFER \$ FROM OS TO 07 TO COVER	MA EXPENSE - EGT QTR.1	
07392-0500	TRANSFER FROM SEWER OPERATING	2204	JE	82986	-	10,814.00	0	4/14/2022	XFER MA		XFER \$ FROM OS & 09 TO MA RE:	APRIL EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2205	JE	83218	-	3,690.00	0	5/4/2022	XFER		XFER \$ FROM OS TO MA TO COVER	EXPENSES	
07392-0500	TRANSFER FROM SEWER OPERATING	2205	JE	83370	-	1,283.50	0	5/13/2022	XFER		XFER \$ TO MA RE: MAY EXPENSES	FROM OS & 09	
07392-0500	TRANSFER FROM SEWER OPERATING	2206	JE	83682	1,283.50	5,302.50	0	6/7/2022	CORRECT		CORRECT MA \$ XFER TRX 83370		5/13/2022
07392-0500	TRANSFER FROM SEWER OPERATING	2206	JE	83789	-	2,970.50	0	6/16/2022	XFER TO MA		XFER FUNDS TO MA FROM SEWER &	SEWER CAPITAL - JUNE 2022	
07392-0500	TRANSFER FROM SEWER OPERATING	2207	JE	83995	-	8,372.05	0	7/1/2022	XFER		XFER \$ FROM OS TO 07 TO COVER	MA EXPENSES	
07392-0900	BEGINNING BALANCE						0						
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2201	JE	81851	-	18,986.13	0	1/13/2022	XFER		XFER \$ TO MA FROM SEWER &	SEWER CAP.RE: DEC.EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2202	JE	82281	-	1,217.25	0	2/16/2022	XFER		XFER \$ FROM OS & 09 RE: JAN.	2022 MA EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2203	JE	82519	-	6,831.00	0	3/8/2022	XFER		XFER \$ FROM SEWER & SEWER	CAPITAL TO MA	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2204	JE	82986	-	25,600.37	0	4/14/2022	XFER MA		XFER \$ FROM OS & 09 TO MA RE:	APRIL EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2205	JE	83370	-	5,302.50	0	5/13/2022	XFER		XFER \$ TO MA RE: MAY EXPENSES	FROM OS & 09	
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2206	JE	83682	5,302.50	1,283.50	0	6/7/2022	CORRECT		CORRECT MA \$ XFER TRX 83370		5/13/2022
07392-0900	TRANSFER FROM SEWER CAP RESERVE	2206	JE	83789	-	12,592.90	0	6/16/2022	XFER TO MA		XFER FUNDS TO MA FROM SEWER &	SEWER CAPITAL - JUNE 2022	
07424-1400	BEGINNING BALANCE						0						
07424-1400	ADMINISTRATIVE WAGES	2203	CD	82771	8,372.05	-	0	3/30/2022		3311	425 EAST GOSHEN TOWNSHIP - GENERAL	QTR.1 - 2022 REIMBURSEMENT	
07424-1400	ADMINISTRATIVE WAGES	2206	CD	83972	8,372.05	-	0	6/30/2022		3322	425 EAST GOSHEN TOWNSHIP - GENERAL	QTR.2-2022 REIMBURSEMENT	
07424-3000	BEGINNING BALANCE						0						
07424-3000	MISCELLANEOUS EXPENSE	2201	CD	81850	880.25	-	0	1/13/2022		3303	2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC	2022 ACTIVE MEMBERSHIP DUES	
07424-3000	MISCELLANEOUS EXPENSE	2203	CD	82517	660.00	-	0	3/8/2022		3306	3871 DELAWARE RIVER BASIN COMMISSION	ANLN MONITORING & COORDINATION FEE	
07424-3000	MISCELLANEOUS EXPENSE	2206	CD	83970	125.00	-	0	6/30/2022		3321	1065 PETTY CASH	PA MUNIC. AUTH.WORKSHOP - W.WUJCIK	
07424-3110	BEGINNING BALANCE						0						
07424-3110	MUNIC.AUTH.-AUDITING	2203	CD	82626	7,000.00	-	0	3/18/2022		3310	808 MAILLIE FALCONIERO & CO.	MUNICIPAL AUTH.2021 FINANCIAL AUDIT	
07424-3110	MUNIC.AUTH.-AUDITING	2205	CD	83214	3,250.00	-	0	5/3/2022		3314	808 MAILLIE FALCONIERO & CO.	FINAL BILLING - 2021 MUNICIPAL AUTH	FINANCIAL STATEMENTS
07424-3130	BEGINNING BALANCE						0						
07424-3130	ENGINEERING SERVICES	2201	CD	81850	4,076.75	-	0	1/13/2022		3302	1052 PENNONI ASSOCIATES INC.	SERVICES THRU 12/19/21 2021 GEN.SER	
07424-3130	ENGINEERING SERVICES	2202	CD	82280	5,664.50	-	0	2/16/2022		3305	1052 PENNONI ASSOCIATES INC.	SERVICES THRU 1/16/22 - GEN.SERVICE	
07424-3130	ENGINEERING SERVICES	2204	CD	82985	10,814.00	-	0	4/14/2022		3313	1052 PENNONI ASSOCIATES INC.	SERVICES THRU 3/20/22 2022 GEN.SERV	
07424-3130	ENGINEERING SERVICES	2205	CD	83360	5,302.50	-	0	5/12/2022		3316	1052 PENNONI ASSOCIATES INC.	SERVICES THRU 4/17/22 2022 GEN.SERV	
07424-3130	ENGINEERING SERVICES	2206	CD	83788	2,610.50	-	0	6/16/2022		3319	1052 PENNONI ASSOCIATES INC.	SERV. THRU 5/15/22 2022 GEN.SERVICE	
07424-3140	BEGINNING BALANCE						0						
07424-3140	LEGAL SERVICES	2201	CD	81850	540.00	-	0	1/13/2022		3300	528 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - NOVEMBER 2021	
07424-3140	LEGAL SERVICES	2202	CD	82280	660.00	-	0	2/16/2022		3304	528 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - DEC.2021 GEN.AUTH.	
07424-3140	LEGAL SERVICES	2203	CD	82560	360.00	-	0	3/11/2022		3308	528 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE FEB.2022 GEN.AUTH.	
07424-3140	LEGAL SERVICES	2205	CD	83217	440.00	-	0	5/4/2022		3315	528 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 3/11-3/14/22 GEN.AUTH	
07424-3140	LEGAL SERVICES	2206	CD	83788	360.00	-	0	6/16/2022		3318	528 GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 4/8-4/11/22 GEN.AUTH.	
07429-1501	BEGINNING BALANCE						0						
07429-1501	BARKWAY PUMP STATION CAPITAL	2201	CD	81850	2,215.00	-	0	1/13/2022		3299	356 DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMP	
07429-1502	BEGINNING BALANCE						0						

**MUNICIPAL AUTHORITY June 30, 2022 YTD Financials**

Account #	Description	Per	Src	Trx#	Debits	Credits	Balance	Date	Check#	ID #	Name	Description	Description 2
07429-1502	ASHBRIDGE PUMP STATION CAPITAL	2204	CD	82985	8,632.00	-	0	4/14/2022	3312	356	DECKMAN MOTOR & PUMP INC.	2 REBUILT FAIRBANKS PUMPS	
07429-1502	ASHBRIDGE PUMP STATION CAPITAL	2206	CD	83788	2,861.05	-	0	6/16/2022	3317	293	COLONIAL ELECTRIC SUPPLY	REPLACE DISCONNECTED ELEC.PANEL	
07429-1503	BEGINNING BALANCE						0						
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	2,709.00	-	0	1/13/2022	3299	356	DECKMAN MOTOR & PUMP INC.	2 - REBUILT HYDROMATIC PUMPS	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	11,255.01	-	0	1/13/2022	3301	2128	JWC ENVIRONMENTAL	MUFFIN MONSTER	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2201	CD	81850	3,852.69	-	0	1/13/2022	3302	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 12/19/21 HM ESTATES	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2202	CD	82280	1,217.25	-	0	2/16/2022	3305	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 1/16/22 - HM ESTATES	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2203	CD	82517	6,831.00	-	0	3/8/2022	3307	717	KAPPE ASSOCIATES	MAGNETIC FLOW METER	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2203	CD	82617	(11,255.01)	-	0	3/17/2022	3301	2128	JWC ENVIRONMENTAL	VOID CK.#3301 - LOST IN MAIL	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2203	CD	82617	11,255.01	-	0	3/17/2022	3309	2128	JWC ENVIRONMENTAL	REPLACEMENT CK.FOR 3301	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2204	CD	82985	3,403.62	-	0	4/14/2022	3313	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 3/20/22 HM ESTATES	
07429-1503	HERSHEYS MILL PUMP STATION CAPITAL	2206	CD	83788	121.60	-	0	6/16/2022	3319	1052	PENNONI ASSOCIATES INC.	SERV. THRU 5/15/22 HERSHEY MILL	ESTATES SEWER DESIGN
07429-1504	BEGINNING BALANCE						0						
07429-1504	HUNT CO PUMP STATION CAPITAL	2201	CD	81850	1,870.00	-	0	1/13/2022	3299	356	DECKMAN MOTOR & PUMP INC.	REBUILT HYDROMATIC PUMP	
07429-1505	BEGINNING BALANCE						0						
07429-1505	RCSTP CAPITAL	2204	CD	82985	13,564.75	-	0	4/14/2022	3313	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 3/20/22 RCSTP UV REP.	
07429-1505	RCSTP CAPITAL	2205	CD	83360	1,283.50	-	0	5/12/2022	3316	1052	PENNONI ASSOCIATES INC.	SERVICES THRU 4/17/22 RCSTP UV	
07429-1505	RCSTP CAPITAL	2206	CD	83788	4,005.25	-	0	6/16/2022	3319	1052	PENNONI ASSOCIATES INC.	SERV. THRU 5/15/22 RCSTP CAUSTIC	SODA CONVERSION
07429-1505	RCSTP CAPITAL	2206	CD	83788	5,605.00	-	0	6/16/2022	3320	4390	TELEDYNE INSTRUMENTS INC.	ULTRASONIC FLOW METER	

# Memo

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To: Municipal Authority  
From: Dave Ware  
Re: Sewer Rate Calculation July 2022 & Proposed Capital Plan  
Date: July 7, 2022

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At the Board of Supervisors meeting Tuesday, July 5, 2022 I presented a proposal for increasing sewer rates as well as a 4 year capital plan to fully fund the sewer capital reserve for the Ridley Creek Sewer Treatment Plan and Pump Stations. The Board felt there was not enough notice for rate payers of the increase and that the year one impact beginning with the July 2022 billing may be overly burdensome given the current inflationary climate.

Attached is what I submitted. I will be developing additional alternative options for the Board's consideration for the July 19, 2022 meeting.



# Memo

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To: Board of Supervisors  
From: Dave Ware  
Re: Consider 2022 Sewer Rates and a Proposed Capital Plan  
Date: June 30, 2022

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An updated Inventory List for Ridley Creek Sanitary Treatment Plant (including Pump Stations and Collection System) indicates that East Goshen Township should have just over \$4.6M already in reserve to replace all of the capital items currently in operation. Our current Sewer Capital Reserve Fund balance is \$2.3M. I believe the primary reason for this funding gap is due to the calculation of sewer rates based on the current budget year, rather than additionally accounting for un-capitalized sewer assets, future projects, etc...Additionally, the average single family household's quarterly bill increased roughly 4% total, or 0.5% per year, over the 8 year period 2012 through 2019. In contrast, the average annual inflation over that same period increased 13% total, or 1.6% per year.

The current aging sewer infrastructure is in need of maintenance and replacement as illustrated by the Hershey's Mill Estates Sewer Replacement project, with a cost estimate of \$1.54M. While we are fortunate to use federal ARPA funds of nearly \$1M for this project, another \$500K plus is needed. Unfortunately, there is a likelihood that more of these projects could emerge at any given time, and the Township is ill-prepared to fund them and has been for years. Many townships have underfunded their sewer systems for years and due to lack of maintenance and increased costs are now selling their systems to AQUA, effectively turning over control of rates and customer service.

After consultation with the Municipal Authority, I am proposing a sewer capital plan staged over the coming four years to address these issues. The total additional revenue needed to fully fund the current sewer projects as well as the treatment plant and pump stations is \$3.4M (see attached rate calculation), which amounts to about \$520 per unit. For July 2022 I propose maintaining the sewer variable rate of \$9.70 per thousand gallons, while increasing the fixed rate by \$40/quarter to \$75.61. Each July, the new quarterly fixed rate of \$75.61 would decrease by \$5 until 2026 when we should be fully funded. At that point the fixed rate would return to \$35.61/quarter. This plan is based on our current best information and will be reassessed each July to review funding progress, variable usage, ongoing projects, status of sewer infrastructure, and may be subject to change at the Board's discretion.

## Analysis of Sewer Rate Options

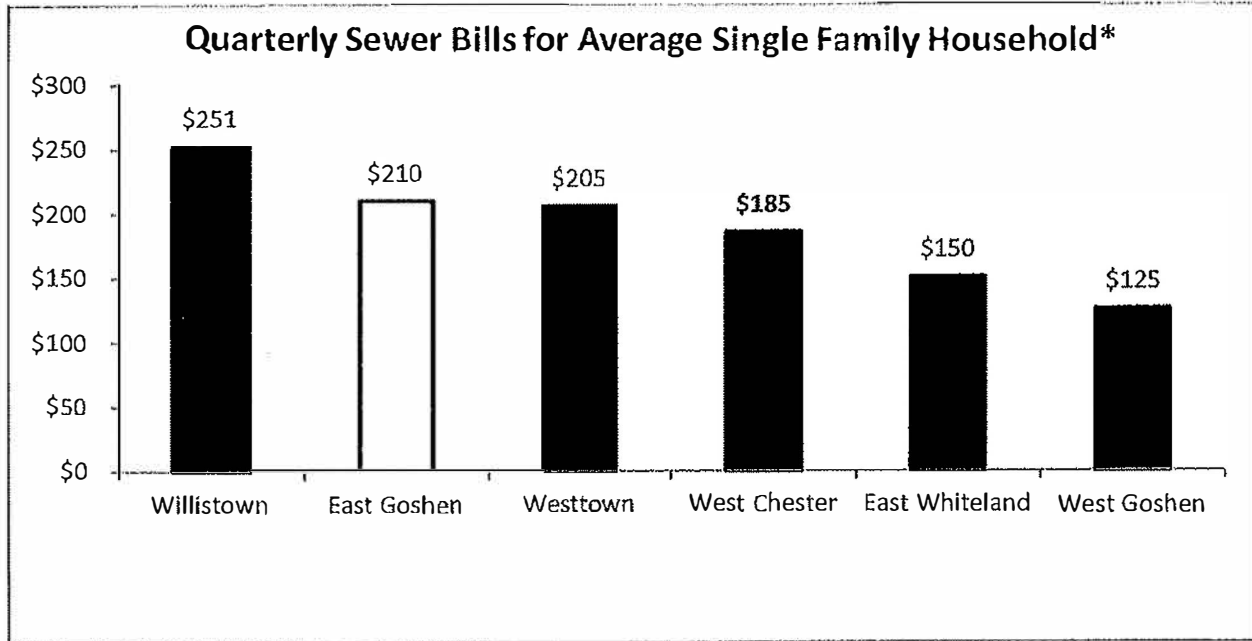
**Key Statistics-East Goshen Township Sewer Rates, 2012-2022**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Fixed Rate	\$ 26.15	\$ 26.20	\$ 26.56	\$ 30.07	\$ 27.26	\$ 27.26	\$ 27.02	\$ 33.74	\$ 32.41	\$ 35.61	\$ 75.61
Variable Rate (per TG)	\$ 7.97	\$ 7.51	\$ 7.68	\$ 7.90	\$ 8.38	\$ 8.38	\$ 8.74	\$ 8.42	\$ 9.13	\$ 9.70	\$ 9.70
Avg SFD Quarterly Bill	\$ 140.44	\$ 135.24	\$ 139.34	\$ 143.34	\$ 146.15	\$ 146.26	\$ 148.37	\$ 146.01	\$ 152.62	\$ 169.84	\$ 209.84

\*2022 Average Single Family Dwelling assumes no change in usage for variable cost.

**Comparison to nearby municipalities**

At the proposed rates, the average sewer bills in East Goshen will remain in line with those in many nearby communities, as shown below.



\*For townships that use metered water consumption as the basis for bills (Willistown, West Chester and East Goshen), we assumed 13,838 gallons used per quarter (the average 2022 single family consumption in East Goshen); for townships with different rates based on service districts (Willistown, Westtown, Uwchlan and East Whiteland), we used the highest rate. For townships that do not bill quarterly (Tredyffrin, West Chester and West Whiteland), annual or monthly bills were adjusted to a quarterly basis.

**Recommended Motion:** Madam Chair, I move that we adopt Resolution 2022-13, revising the fee schedule, to amend the Township’s sewer rates to \$75.61 per quarter fixed and \$9.70 per thousand gallons variable.

### Calculation of 2022 Sewer Rates

Re-estimated 2022 Fixed Costs	\$1,002,507.66
Re-estimated 2022 Variable Costs	\$2,863,626.04
2022 Projected Expenses:	\$3,866,133.71

Re-estimated Non Rental Sewer Revenue 2022	\$144,311.00
Total Sewer Rental through 6/2022	\$1,783,067.90
Total Sewer Rental Projected at Current Rates 7/1-12/1 2022	\$1,783,067.90
2022 Projected Revenue with No Rate Change:	\$3,710,446.80

Total 2022 Re-estimated Revenue Shortfall      \$155,686.91 \*\*

Current Sewer Capital Reserves	\$2,299,857.34
Total Sewer Capital Reserves Needed	\$4,620,461.57
Add'l Sewer Reserves Needed for RCSTP & Pump Inventory	\$2,320,604.23 *****

This is the total amount needed to replace all inventory

Additional Long-Term & Project Specific Capital Costs NOT in Budget

Ridley Creek Ultraviolet Disinfection System	\$185,000.00
West Goshen Sewer Authority Capital Improvements	\$215,000.00
Hershey's Mill Estates Sewer Replacement	\$550,000.00
Add'l Sewer Reserves Needed for RCSTP & Pump Inventory	\$2,320,604.23 *****

\$125K Currently in Budget (\$310K Total Estimate)

This is the amount NOT funded by ARPA & Bond money

This is the amount NOT funded by ARPA money

Total Additional Reserves Needed:	\$3,270,604.23
Revenue Shortfall Projected:	\$155,686.91 **

Total Revenue Needed:      \$3,426,291.13

Total Sewer Units	6,629
Amount Needed per Unit	\$516.86

Total Amount From July 2022 - July 2026

Proposed Increase from Current Fixed Rate Annualized Recd

\$40.00; Updated Fixed Rate of \$75.61	\$1,060,640.00	2022/2023 Quarterly Increase; Avg SFD Rate \$209.84
\$35.00; Updated Fixed Rate of \$70.61	\$928,060.00	2023/2024 Quarterly Increase; Avg SFD Rate \$204.84
\$30.00; Updated Fixed Rate of \$65.61	\$795,480.00	2024/2025 Quarterly Increase; Avg SFD Rate \$199.84
\$25.00; Updated Fixed Rate of \$60.61	\$662,900.00	2025/2026 Quarterly Increase; Avg SFD Rate \$194.84
\$0.00; Updated Fixed Rate of \$35.61	\$0.00	2026/2027 Quarterly Increase; Avg SFD Rate \$169.84

Additional Revenue Received:	\$3,447,080.00
Amount Received per Unit	\$520.00

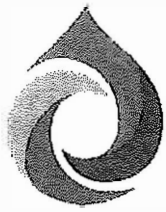
Year 1 - 4 (\$160 + \$140 + \$120 + \$100)

Current Quarterly Rates as of June 2022

Current fixed rate	\$35.61
Current variable rate	\$9.70 per Thousand Gallons
Average SFD bill without rate change	\$169.84 per Quarter

**New rate as of July 2022**

Fixed	\$75.61
Variable	\$9.70
Average SFD consumption	13,838
Average SFD bill with rate change	\$209.84
Estimated Total 2022 Annualized Increase	\$ 160.00



## *Notification of Voter Delegate*

**TO:** PMAA Member Authorities

**FROM:** Douglas E. Bilheimer  
Executive Director

**DATE:** June 1, 2022

The PMAA Board of Directors' voted April 18, 1994, to implement, by its resolution, certain administrative recommendations set forth by the PMAA By-Law Revision Committee. These do not require prior amendment of the By-Laws because the existing By-Laws (Article IX, Sections 1 and 2) do provide the basic authorization for voting at meetings: one vote per active member to be cast by a delegate chosen by its own board of directors. The procedures approved by the Board are as follows:

1. Fifteen days before the meeting, each member authority will notify the Executive Director of the name of its official voting at the meeting and also the name of an alternate delegate, both of whom have been approved by the members' Board of Directors. The delegates shall either be an elected or an appointed official of the applicable authority.
2. As part of the registration procedure at the Annual Meeting, the named delegate shall be handed a "card", which he or she may hold up to cast the vote of that authority. It shall be the responsibility of each delegate, in the event he or she is not on the floor, to hand the card to the appropriate alternate delegate.
3. The presiding officer at the Annual Meeting shall have the discretion in each vote to designate voting by voice, by a show of delegate cards, or by written ballot, unless upon motion duly made and adopted the Body itself votes to require written ballots.
4. In pursuance of the powers of the presiding officer, the President may designate a time limit for floor remarks by each person speaking, which shall be stated by the presiding officer at the opening of the meeting.

Please note, this form **does not** need returned to our office if no one from your authority is attending the conference.

DEB/kaw  
Attachment

# Notification of Voting Delegate & Alternate

Our Authority's Board of Directors hereby name the following individuals to serve as Voting Delegate and Alternate Delegate:

## Voting Delegate

Name: \_\_\_\_\_

Title: \_\_\_\_\_

## Alternate Delegate

Name: \_\_\_\_\_

Title: \_\_\_\_\_

## Authority submitting this information:

Authority: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Designated Voting Delegate or Alternate Delegate will receive an identification card at the Registration Booth at the PMAA Annual Conference.

**Please note this form must be returned to the  
PMAA office by Friday, August 26, 2022.**