

EAST GOSHEN MUNICIPAL AUTHORITY

September 9, 2024

7:00

- **PRE-MEETING TOUR OF WEST GOSHEN SEWER PLANT (for Municipal Authority members only):** Meet at East Goshen Township Building for van departure at 5pm
- **7:00pm CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE**
 - Ask if anyone will be taping the meeting
- **CHAIRMAN'S REPORT/OTHER MEMBERS' REPORTS**
- **APPOINTMENT OF OFFICERS**
- **SEWER REPORTS**
 - Director of Public Work's Report
 - Pennoni Engineer's Report
 - Big Fish Environmental Report
- **APPROVAL OF MINUTES**
 - August 12, 2024
- **APPROVAL OF INVOICES**
 - No invoices to approve
- **LIAISON REPORTS**
- **FINANCIAL REPORTS**
 - August 2024
- **OLD BUSINESS**
 - Award Recommendation for Supplee Valley Pipe Lining Contract (Mike Ellis)
 - See Mark Miller for full copy of Vortex bid package
 - Recommendation to Approve EnerG Test Study for RCSTP (Mike Ellis)

- **2024 Goals:**

Goal	Status
Ridley Creek plant compliance	January through August were in compliance with PADEP permit requirements.
Continue to implement infiltration and inflow for the sewer system	Ongoing.
RCSTP UV Disinfection System Construction Completion	The UV replacement is 99% complete.
Municipal Authority representative to attend West Goshen MA meetings. West Goshen MA meets 1 st Wed of each month at 6pm at the West Goshen Township Building.	Attend meetings on quarterly basis.
Long-term sustainability	(1) Sewer rate increase implemented July 2024. (2) Development of 20-year+ Capital Improvement Plan underway. (3) Continue to study sewer rates.

- **NEW BUSINESS**
- **CAPACITY REQUESTS**
- **ANY OTHER MATTER**
- **CORRESPONDENCE AND REPORTS OF INTEREST**
- **PUBLIC COMMENT**
- **ADJOURNMENT**

EAST GOSHEN MUNICIPAL AUTHORITY
EAST GOSHEN TOWNSHIP
1680 PAOLI PIKE, WEST CHESTER, PA 19380-6199
610-692-7171

Date: September 9, 2024
To: Municipal Authority
From: Mark Miller
Re: Monthly Report

Monthly Flows: The average daily flow to West Goshen was 768,659 per day.

Meters:

- Were read on a daily basis with no problems to report

C.C. Collection:

- All pump stations were visited on a daily basis with no problems to report.
- Wet wells were washed down & generator fluids checked.
- The muffin monster was serviced at the pump station.

C.C. Interceptor:

- Nothing to report

R.C. Collection:

- Pump stations were visited on a daily basis.
- Wet wells were washed down & generator fluids checked.
- Service was performed on the muffin monster.
- On 9/1/2024, we were notified by county radio of a resident on Burning Bush Lane reporting a backed lateral. Public Works cleared the lateral line.

Ridley Creek Plant:

- The plant operator reported that the utility water pump had quit. We pulled the pump and installed a rebuilt one that we had in stock.

Alarms: 17

PA One Calls: 97

Monthly Rainfall: 6.55"

Lateral Repairs or Caps: 0



EAST GOSHEN MUNICIPAL AUTHORITY ENGINEER'S REPORT

September 6, 2024

Ridley Creek Sewage Treatment Plant (RCSTP)

- **Caustic Soda Conversion** – We previously prepared a draft O&M Manual for the system that was submitted to the Township and operator for review. We will set up a meeting to review now that the system is up and running so that the Manual can be finalized.
- **UV Disinfection System** – The new UV module cords were delivered and installed, and the temporary UV channel was picked up by Glasco on August 13. The two-week trial of the second UV module has been successfully completed, and both modules are operational. Glasco is providing on-site training to Matthew Mullin (RCSTOP operator) and post-startup inspection of the permanent UV installation on September 6.

Pending that inspection, the only outstanding punchlist items are connection of the permanent alarm and flow metering cables to the two UV modules. John Laidley has been contacted to complete those connections. The cables are run but just need to be connected on both ends. The system is being run in Hand mode with one module On and the other Off in the meantime. After the flow metering cables are connected, the UV modules will automatically control which ones are On or Off based on flow pacing. The project will be complete at that time, and we notify PADEP accordingly.

We are awaiting final payment applications and closeout documents from the contractors.

- **Generator #2 Replacement** – No activity by Pennoni since the last report.
- **Electrical Supply Evaluation** – We evaluated costs and feasibility for installing a line conditioner on the main PECO electric supply line. We provided an email on September 5 with our follow-up recommendation to install a power meter on the incoming electric supply and to provide an analysis report.

If the Energ Test quote is awarded, arc flash labeling will need to be installed in advance. Their proposal requires that arc flash labeling be on any electric equipment that they will be in contact with. Labeling is not on the Main Distribution Panel (MDP), so it will need to be installed before they install the power meter. A short circuit and arc flash analysis was performed as part of the RCSTP expansion in 2011. Labels were provided at that time, but there is not a label currently on the MDP. The Township will need to have the labels printed and attached to the MDP, and they should be attached to other applicable equipment while at it if other equipment is not currently labeled either. We can forward an electronic copy of the report that includes the labels from 2011.

Separate of the power monitoring – An updated arc flash study should be considered in the near future since it has been over five years since the last study and there have been electrical equipment changes, most notably the replacement of both generators. We could obtain a quote, and this be considered in 2025 budgeting. We anticipate it can occur separate of and after the power monitoring.

Sanitary Sewer Pipe Rehab

- **Supplee Valley Pipe Lining** – We conducted the bid solicitation, and bids were opened on September 4. We provided a bid tabulation and award recommendation letter. The low bidder's total bid is \$331,241. Bids were consistent with our anticipated cost of approximately \$360,000. We confirmed with Dave Ware that there is adequate budget to award the total bid while also allowing for contingencies should additional repair work be identified to be necessary after the contractor performs their pre-lining TV inspection.

New Connections

- Millstone Meadows (1010 Hershey Mill Road) – We reviewed a revised Land Development Plan submission and issued a comment letter on July 25. In addition to other Land Development comments, a few minor sanitary sewer design comments remain. The BOS granted conditional Land Development approval on September 3. A meeting is scheduled with the Applicant's team, East Goshen, and Pennoni on September 12 to discuss approach to satisfaction of conditions, plan updates, and legal agreements.
- 301 Reservoir Road (5-Lot Residential Subdivision) – We reviewed a revised Land Development Plan submission and issued a comment letter on August 21. In addition to other Land Development comments, four sanitary sewer design comments remain outstanding. The BOS granted conditional Land Development approval on September 3. A meeting is scheduled with the Applicant's team, East Goshen, and Pennoni on September 12 to discuss approach to satisfaction of conditions, plan updates, and legal agreements.
- 1712 E. Boot Road – No activity by Pennoni since our last report. The service piping was previously installed, but we are not aware if the grinder pump has been installed.
- 14 Reservoir Road – No activity by Pennoni since our last report. We are awaiting a plan resubmission to address comments from our last review letter dated July 12, two of which are related to sanitary sewer.
- 1338 Morstein Road – The MA previously approved sewer capacity for the three proposed residential lots in East Goshen which are part of a 16-lot development that is primarily in West Whiteland. There has not been any recent activity related to Land Development Plan updates or sewage planning that East Goshen has been privy to. A meeting is scheduled with the Applicant, East Goshen, and Pennoni on September 12 to obtain updates.

Capital Improvement Plan

- We provided a 1st draft of a 20+ year capital improvement plan that includes pipe lining, manhole lining, pump station upgrades, metering, wastewater treatment plant upgrades and equipment replacement, and other improvements in August. The plan is under review with Finance and Public Works. The plan is updated over the next several weeks, and an updated draft will be presented to the MA in the fall.

END OF REPORT



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 met all effluent limitations regarding water quality for August 2024. All supplemental reports were submitted for August 2024. Caustic usage decreased slightly to 53 gallons per day from 54 gallons last month. Aluminium sulfate solution volumes increased to an average of 70.3 gallons per day from the previous standard of 68.8 gallons per day last month. No significant mechanical or operational issues were observed during the sludge dewatering equipment or SBR treatment process. Sludge dewatering experienced no mechanical issues impacting production. There were no odor complaints during the month.

Table 1

August 2024- Final Effluent - Outfall 001														
NPDES Permit Discharge Limitations	Flow	CBOD5		Total Nitrogen		TSS		NH4-N		Total Phosphorus		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	0.75	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														
August 6, 2024	0.316	2.0	5.3	8.23	21.7	4.5	11.9	0.10	0.26	0.10	0.26	1	0.0000	
August 13, 2024	0.238	2.0	4.0	6.53	13.0	6.8	13.5	0.10	0.20	0.10	0.20	1	0.0000	
August 20, 2024	0.224	2.0	3.7	6.82	12.7	4.0	7.5	0.10	0.19	0.10	0.19	1	0.0000	
August 27, 2024														
Average	0.259	2.0	4.3	7.19	15.8	5.1	10.9	0.10	0.22	0.10	0.22	1	0.0000	
Minimum	0.224	2.0	3.7	6.53	12.7	4.0	7.5	0.10	0.19	0.10	0.19	1	0.0000	
Maximum	0.316	2.0	5.3	8.23	21.7	6.8	13.5	0.10	0.26	0.10	0.26	1	0.0000	

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for August 2024. The monthly average total phosphorus was reported as 0.1 mg/L compared to the permit limitation of 0.50 mg/L. The TSS samples consistently showed single digits. The results remain below the weekly maximum of 15 mg/L. The monthly average TSS is reported as 5.1 mg/L compared to the 10 mg/L discharge limitation.

The final effluent test results demonstrate that the biological treatment performed well during August. The sequencing batch reactors (SBRs) numbered 2, 3, and 4 were in service.

Table 2

August 2024 - Influent Wastewater													
Design Basis	Flow	BOD5		CBOD5		TSS		NH4-N		TKN, mg/L		Phosphorus, Total, mg/L	
	MGD	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
		Average	335	2,098	NA	NA	320	2,001	32	200	48	301	9.1
Sample Date													
August 6, 2024	0.432	452	1,627	374	1,346	455	1,638	29.5	106	49.3	177	7.2	25.7
August 13, 2024	0.303	255	645	479	1,212	833	2,107	26.8	68	115.0	291	17.80	45.0
August 20, 2024	0.244	444	904	322	656	362	737	34.0	69	66.4	135	6.69	13.6
August 27, 2024													
Average	0.326	384	1,059	392	1,071	550	1,494	30	81	76.9	201	10.55	28.1
Minimum	0.244	255	645	322.0	656	302	737	27	68	49.3	135	6.69	13.6
Maximum	0.432	452	1,627	479	1,346	833	2,107	34	106	115.0	291	17.80	45.0

Table 2 represents the water quality data of the flow entering the plant at the doghouse manhole where the composite samples were collected in August 2024.

Table 3

August 2024 - Applebrook - Out Fall 002													
NPDES Permit Discharge Limitations	Flow	CBOD5		Total Nitrogen		TSS		NH4-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
August 6, 2024	0.036	2.0	0.61	8.23	2.50	4.5	1.37	0.10	0.03	0.10	0.03	1	0.0000
August 13, 2024	0.033	2.0	0.56	6.53	1.81	6.8	1.89	0.10	0.03	0.10	0.03	1	0.0000
August 20, 2024	0.031	2.0	0.51	6.82	1.74	4.0	1.02	0.10	0.03	0.10	0.03	1	0.0000
August 27, 2024													
Average	0.033	2.0	0.56	7.19	2.02	5.1	1.4	0.10	0.03	0.10	0.03	1	0.0000
Minimum	0.031	2.0	0.51	6.53	1.74	4.0	1.0	0.10	0.03	0.10	0.03	1	0.0000
Maximum	0.036	2.0	0.61	8.23	2.50	6.8	1.9	0.10	0.03	0.10	0.03	1	0.0000

Table 3 represents the water quality data of the flow pumped to Applebrook Golf Course in August 2024.

PA DEP

No activity

Pennoni Associates

No activity

Significant Rainfall

During August, there were nine (9) days when rainfall occurred.

Five (5) events exceeded 0.50 inches of rain in 24 hours:

8/4: 0.55"

8/7: 1.70"

8/9: 0.66"

8/10: 0.87"

8/19" 0.88"

Total Rainfall for August was 5.48 inches

Chemical Data

August 2024		
<u>Chemical</u>	Daily Average	Total Monthly
<u>Caustic Soda, gal</u>	53.1	1,645
<u>Aluminum Sulfate solution, gal</u>	70.3	2,179
<u>Sludge Dewatering, gal*</u>	22,347	402,248

**18 days of sludge dewatering*

There was a decrease of 137,009 gallons of sludge dewatering during August compared to July.

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.

Major Repairs or Upgrades

Remaining UV cables were installed

Utility water pump replaced

New Muffin Monster installed

Caustic line for SBR 3 was replaced, and the tubing conduit design was improved to prevent another premature failure

Upcoming Repairs or Upgrades

The remaining caustic tubing conduits will be updated with the improved design to prevent premature failure of the caustic tubing

Flow Data

August 2024			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building	9.768	315,105	467,180
Influent Wastewater to SBRs	11.340	365,796	485,968
Internal Recycle	1.575	50,794	96,740
Treated Effluent to Disc Filters	11.101	358,110	465,920
Final Effluent Discharge	7.703	248,000	351,000
Applebrook Golf Course	0.993	32,034	37,168

The plant hydraulic design loading is 745,000 gpd.

There were no high-flow events during August.

1 **DRAFT**
2 **EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**
3 **MEETING MINUTES**
4 **August 12, 2024**
5

6 The East Goshen Township Municipal Authority held their regular meeting on Monday,
7 August 12, 2024 at 7:00 pm. at the Township Building.

8 Members in attendance are indicated in **BOLD**:

9 **Dana Pizarro, Chairman**

10 **Walter Wujcik, Vice Chairman**

11 **Jack Yahraes**

12 **Carmen Battavio**

13 **Kevin Cummings**

14
15 **Also in attendance were:**

16 **Mark Miller (Director of Public Works),**

17 Michele Truitt (Supervisor)

18 Dave Ware (Finance Director),

19 **Patrick McKenna (Attorney)**

20 **Mike Ellis (Pennoni).**

21
22
23 **COMMON ACRONYMS:**

24 *ATS – Automatic Transfer Switch*

25 *BFES – Big Fish Environmental Services*

26 *BOS – Board of Supervisors*

27 *CB – Conservancy Board*

28 *DEP – Department of Environmental Protection*

29 *EPA – Environmental protection Agency*

30 *HC – Historical Commission*

31 *I&I – Inflow & Infiltration*

32 *LCSTP – Lockwood Chase Sewer Treatment Plant*

33 *PWD – Public Works Department*

MA- Municipal Authority

NPDES – National Pollutant Discharge Elimination System

PC – Planning Commission

PM – Prevention Maintenance

PR – Park & Recreation Board

RCSTP – Ridley Creek Sewer Treatment Plant

SBR – Sequencing Batch Reactor

SSO – Sanitary System Overflow

WAS – Waste Activated Sludge

34
35 **Call to Order & Pledge of Allegiance**

36 Dana called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance.

37 Dana asked for a moment of silence for our troops, police, EMTs and first responders.

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

39
40
41 **Chairman’s Report/Other Members Report**

42 Mark reminded everyone that they will take a tour of the West Goshen plant before the September
43 meeting. Meet at the Township Building at 5:00 p.m. He will provide a van.
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1 **SEWER REPORTS**

2
3 **1. Director of Public Works, Mark Miller’s report for August 12, 2024.**

4
5 **Monthly Flows** – The average daily flow to West Goshen was 795,367 gallons per day.

6
7
8 **Meters:**

- 9
 - The meters were read on a daily basis.
 - No issues found with operating meters

10
11
12
13 **C.C. Collection:**

- 14
 - All pump stations were visited on a daily basis.

15
16
17 **C.C. Interceptor:**

- 18
 - Mowed and maintained.

19
20
21 **R.C. Collection:**

- 22
 - Routine maintenance was performed on a daily basis.
 - Public Works crew pulled all manholes and inspected and marked out sewer lines in the Clocktower development in preparation for upcoming Riggs/Distler utility work.

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27 **Ridley Creek Plant**

- 28
 - Cleaned grit chamber
 - Jetted and flushed inflow pipe to the plant

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31
32 **Applebrook Golf Course**

- 33
 - PW crew replaced the Applebrook pump, and it is now pumping 36,500 gallons per day.

34
35 **Alarms:** 6

36
37 **PA 1 Calls:** 73

38
39 **Monthly Rainfall:** 2.80”

40
41 **Lateral Repairs or Caps:** 4: 1 Wentworth, 1 Reservoir Rd, 1 Baldwin Dr and 1 Katherine Ln

1 **2. Pennoni Engineer's Report dated July 15, 2024**
2

3 ***Ridley Creek Sewage Treatment Plant (RCSTP)***
4

- 5 • **Caustic Soda Conversion** – Matt Mullin provided as-built photos of the caustic soda
6 plumbing. We updated the as-built plans accordingly with the provided plumbing information
7 and submitted the revised as-built plans to PADEP on July 23.

8 We previously prepared a draft O&M Manual for the system that was submitted to the
9 Township and operator for review. We will set up a meeting to review now that the system is
10 up and running so that the Manual can be finalized.

- 11 • **UV Disinfection System** – On June 20, Lenni installed power to the jib crane and relocated
12 the control panel to its permanent location, but it was discovered that the cords to connect the
13 second UV module to the control panel are too short. Pennoni has since been coordinating
14 with Glasco to obtain a new, longer cord for the module. Glasco picked up the temporary UV
15 module cords to modify them to the correct length on July 25. Glasco will modify the
16 temporary cords and return them in early August. After the new cords are installed, the two-
17 week trial of the second UV module will begin. Glasco will also be scheduled to perform a
18 post-startup inspection of the permanent UV installation.

19 The temporary system has been fully disassembled. Pennoni informed Glasco on June 25 that
20 the temporary channel is ready for pickup and for them to coordinate with Mark Miller on the
21 specific day and time of the pickup.

22 An updated tentative construction schedule follows with completed work in italics:

- 23 ○ *Delivery of Permanent UV Equipment – October 30, 2023*
24 ○ *Delivery of Bypass Pumps and Hoses – Week of November 13, 2023*
25 ○ *Initiate Temporary Bypass Work – Mid-November 2023*
26 ○ *Complete Temporary Bypass Work and Initiate Use of Bypass System – January 23, 2024*
27 ○ *Two Week Trial and Sampling of Temporary Bypass System – completed February 9, 2024*
28 ○ *Township to Perform Concrete Channel Work – completed late-March 2024 (end of initial*
29 *curing)*
30 ○ *2nd Notice to Proceed to Contractors: Permanent Work – Mid-March 2024*
31 ○ *Redirect Flow back to Permanent Channel (±30 days of 2nd NTP) – April 24, 2024*
32 ○ *Two Week Trial of New UV System in Permanent Channel – April 24 – May 8, 2024*
33 ○ *Install Second UV Module into Permanent Channel -- June 11, 2024*
34 ○ *Two Week Trial of Second New UV System in Permanent Channel – August 13 – 27, 2024*
35 ○ *Construction Completed –Late August 2024*

- 36 • **Generator #2 Replacement** – No activity by Pennoni since the last report.
- 37 • **Electrical Supply Evaluation** – We received a quote from EnerG Test for the installation of
38 a power meter on the incoming electric supply line for \$9,144.00. The testing would be
39 performed for 25 days and will monitor and log power usage, voltage, phase, and other
40 components of the electric supply. EnerG Test's engineers will analyze the results and
41 provide a report within 30 days of completion of the monitoring. The report will address if
42 there are unusual power/voltage spikes or drops and other anomalies. We recommend that

1 their scope also include recommendations in their report to address any observed deficient
2 conditions. For example, if the voltage is extremely inconsistent, a line conditioner (which
3 acts as an electric filter) may be recommended on the main supply line. If problems are
4 identified on the main feed, their report and recommendations can be provided to PECO to
5 substantiate the problem with a request for PECO to implement the recommendations.

6 Their proposal requires that arc flash labeling be on any electric equipment that they will be in
7 contact with. Labeling is not on the Main Distribution Panel (MDP), so it will need to be
8 installed before they install the power meter. A short circuit and arc flash analysis was
9 performed as part of the RCSTP expansion in 2011. Labels were provided at that time, but
10 there is not a label currently on the MDP. The Township will need to have the labels printed
11 and attached to the MDP, and they should be attached to other applicable equipment while at
12 it if other equipment is not currently labeled either. We can forward an electronic copy of the
13 report that includes the labels from 2011.

14 Separate of the power monitoring – An updated arc flash study should be performed in the
15 near future since it has been over five years since the last study and there have been electrical
16 equipment changes, most notably the replacement of both generators. We could obtain a
17 quote, and this be considered in 2025 budgeting. We anticipate it can occur separate of and
18 after the power monitoring.

19 ***Sanitary Sewer Pipe Rehab***

- 20 • **Chester Creek Sewer Rehab** – The Contractor, Insituform, has completed all work. We
21 processed the fifth and final payment application and provided a payment recommendation
22 letter. We also reviewed the Contractor’s Maintenance Bond, Statement of Surety, and
23 Contractor’s Release and found all documents satisfactory. After approval of the final
24 payment application, this project will be fully complete.
- 25 • **Supplee Valley Pipe Lining** – The next sewer rehabilitation project is planned to be
26 installation of cured-in-place pipe liners in the remaining un-lined sewers in Supplee Valley
27 as well as some manhole lining. We are finalizing the bid document and have updated the
28 construction cost estimate. We anticipate the cost will be approximately \$400,000, and we are
29 coordinating with Dave Ware and Mark Miller on the available budget to establish Base Bid
30 vs. Add Items. Funding from the planned 2025 Pipe Lining budget item is expected to be
31 needed in conjunction with 2024 budget to cover the full cost of this work in one construction
32 contract. The project is therefore proposed to be advertised in late August, bids due in late
33 September, award consideration by the MA In October, and construction to occur in late
34 2024-early 2025 with all invoicing and payments to occur in 2025.

35 ***New Connections***

- 36 • Millstone Meadows (1010 Hershey Mill Road) – We reviewed a revised Land Development
37 Plan submission and issued a comment letter on July 25. In addition to other Land
38 Development comments, a few minor sanitary sewer design comments remain outstanding.
- 39 • 301 Reservoir Road (5-Lot Residential Subdivision) – We assisted the Design Engineer with
40 response to PADEP’s comments on the Sewage Facilities Planning mailer. Responses were
41 provided to PADEP, and PADEP issued a Planning exemption letter on August 6.

- 1 • 1712 E. Boot Road – No activity by Pennoni since our last report. The service piping was
2 previously installed, but we are not aware if the grinder pump has been installed.
- 3 • 14 Reservoir Road – PADEP approved the Sewage Facilities Planning Mailer exemption on
4 June 5. We received a new plan submission and provided a comment letter on July 12.
5 Amongst other things, two sanitary sewer design comments remain outstanding.

6 **Capital Improvement Plan**

- 7 • We prepared a 1st draft of a 20+ year capital improvement plan that includes pipe lining,
8 manhole lining, pump station upgrades, metering, wastewater treatment plant upgrades and
9 equipment replacement, and other improvements. The plan is currently under review with
10 Finance and Public Works. We anticipate the plan will be iteratively edited over the next few
11 weeks, and an updated draft will be presented to the MA at the September meeting.

12 Note: Michele Truitt’s memo commented that the warranty on pumps for the pump station start
13 when they are put into service not when they are received.
14
15

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

17 The Ridley Creek sewage treatment plant outfall 001 met all effluent limitations regarding water
18 quality for June 2024. All supplemental reports were submitted for July 2024. Caustic usage
19 increased to 54 gallons per day from 51 gallons per day last month. Aluminum sulfate solution
20 volumes decreased to a daily average of 68.8 gpd from the previous standard of 70.5 gallons per day.
21 No significant mechanical or operational issues were observed during the sludge dewatering
22 equipment or SBR treatment process. Sludge dewatering experienced no mechanical issues
23 impacting production. There were no odor complaints during the month.
24

25 Note: There was discussion about the effluent numbers.
26
27

28 **Approval of Minutes**

29 The minutes of the July 15, 2024 meeting were approved as amended.
30
31

32 **Approval of Invoices**

33 1. Walter moved to approve payment of the following Pennoni invoices:

- | | |
|------------------------|-------------|
| 34 • Invoice # 1233192 | \$ 113.00 |
| 35 • Invoice # 1233193 | \$ 339.00 |
| 36 • Invoice # 1233194 | \$ 5,142.50 |

37 Jack seconded the motion. The motion passed unanimously.
38

39 2. Carmen moved to approve Payment Application #5 for Insituform Technologies Chester Creek
40 Interceptor Inspection & Repair in the amount of \$11,348.00. Walter seconded the motion. The
41 motion passed unanimously.
42

1 3. Carmen moved to approve JWC Environmental paid Invoice #119462 in the amount of
2 \$27,691.19. This was for the muffin monster. Jack seconded the motion. The motion passed
3 unanimously.

4
5 4. Carmen moved to approve payment of the following West Goshen Sewer Authority invoices:

- 6 • EG23-B \$ 95.64
- 7 • EG23-T \$31,392.87

8 Walter seconded the motion. The motion passed unanimously.

9
10 5. Jack moved to approve payment of the Gawthrop Greenwood invoice #293953 in the amount of
11 \$315.00. Walter seconded the motion. The motion passed unanimously.

12
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14 **Liaison Reports**

15 1. Conservancy Board - Walter mentioned that the meeting is this Wednesday and they will review
16 landscape plans for a developer.

17
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19 **Financial Reports**

20 Dave Ware provided the following report:

21 Year to date July 2024, the Municipal Authority recorded \$534,087.84 in revenues (primarily from
22 Sewer Capital Reserve and Sewer Operating transfers) and \$528,781.16 in expenses (RCSTP UV
23 replacement capital costs, Flygt pump, Chester Creek Interceptor work by Insituform Technologies,
24 West Goshen capital sewer tapping and bond, engineering, and audit expenses). The net result of
25 operations is \$5,306.68. As of July 31, 2024, the fund balance was \$6,688.76.

26
27
28 **Old Business**

29 None

30
31 **Goals** – The goals were reviewed.

32
33
34 **New Business**

35 1. EnerG Test Quote - Mike explained that this quote of \$9,144.00 would be for an electric meter to
36 be installed and monitor the power supply coming into the plant. After discussion, Kevin and
37 Carmen want the cost of a filter instead.

38
39 2. Supplee Valley Pipe Relining – Mike mentioned that in 2016 1/3 of the neighborhood was done.
40 The cost to complete this is \$380,000.00 which includes manhole grouting. \$425,000.00 is available
41 for this year. He can put it out for bid this week and have bids available for the September meeting.
42 Kevin made a motion to approve advertising for bids for the sanitary sewer lining. Carmen seconded
43 the motion. The motion passed unanimously.

1 **Any Other Matter** - None

2

3

4 **Correspondence-** None

5

6

7 **Public Comment -** None

8

9

10 **Adjournment**

11 There being no further business Jack moved to adjourn the meeting. Walter seconded the motion.

12 The motion passed unanimously. The meeting was adjourned at 7:45 pm.

13 The next regular meeting will be held on Monday, September 9, 2024 at 7:00 p.m.

14

15 Respectfully submitted,

16

17

18 Ruth Kiefer, Recording Secretary

Memo

To: Municipal Authority
From: Dave Ware
Re: MA August 2024 YTD Financial Report
Date: September 4, 2024

YTD August 2024, the Municipal Authority recorded \$551,815.68 in revenues (primarily from Sewer Capital Reserve and Sewer Operating transfers) and \$546,471.54 in expenses (RCSTP UV replacement capital costs, Flygt pump, Chester Creek Interceptor work by Insituform Technologies, West Goshen capital sewer tapping and bond, RCSTP Caustic Soda, engineering and audit expenses). The net result of operations is \$5,344.14. As of August 31, 2024, the fund balance was \$12,906.30.

Attached is a complete list of 2024 YTD detailed MA revenues and expenses.

EAST GOSHEN TOWNSHIP
Municipal Authority Fund
YTD August 2024

Account Id	Account Description	Annual Budget	Current YTD	Prior YTD
REVENUE				
07-341-1000	INTEREST EARNINGS	0.00	262.26	164.53
07-364-1100	C.C. TAPPING FEES	2,300.00	0	0
07-364-1110	R.C.TAPPING FEES	8,574.08	2,084.88	4,882.72
07-364-1130	CONNECTION FEES - SEWER	1,127.52	563.76	563.76
07-380-1000	MISCELLANEOUS REVENUE	564.06	282.24	282.24
07-392-0500	TRANSFER FROM SEWER OPERATING	109,517.00	99,555.07	65,023.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	837,464.00	449,067.47	443,241.34
Total Revenue		959,546.66	551,815.68	514,157.59
EXPENSES				
07-424-1400	ADMINISTRATIVE WAGES	39,847.10	22,380.52	19,343.25
07-424-3000	MISCELLANEOUS EXPENSE	3,286.22	1,056.61	1,655.25
07-424-3110	MUNIC.AUTH.-AUDITING	21,630.00	11,250.00	10,500.00
07-424-3130	ENGINEERING SERVICES	48,667.50	21,929.00	25,522.00
07-424-3140	LEGAL SERVICES	8,652.00	4,249.50	5,432.50
07-424-3700	CHESTER CREEK ENGINEERING	0.00	10,567.25	0
07-424-7490	CAP.REPLACEMENT R.C.	310,500.00	27,691.19	0.00
07-429-1503	HERSHEYS MILL PUMP STATION CAPITAL	85,000.00	0	10,240.62
07-429-1505	RCSTP CAPITAL	366,963.84	199,467.96	115,446.16
07-429-1510	HERSHEY'S MILL ESTATES PROJECT	0.00	0	90,113.64
07-429-1520	RCSTP - CAUSTIC SODA	0.00	831.00	50,412.49
07-429-3700	CHESTER CREEK CAPITAL	0.00	215,560.00	0
07-429-6100	WEST GOSHEN CAPITAL	75,000.00	31,488.51	182,262.24
Total Expenses		959,546.66	546,471.54	510,928.15
Net Result From Operations		0.00	5,344.14	3,229.44

Municipal Authority
YTD Revenues and Expenses thru 8/31/2024

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-341-1000	INTEREST EARNINGS	01/31/24	Revenue Journal	INTEREST EARNED JANUARY 2024	35.21
07-341-1000	INTEREST EARNINGS	02/29/24	Revenue Journal	INTEREST EARNED FEBRUARY 2024	41.23
07-341-1000	INTEREST EARNINGS	03/31/24	Revenue Journal	INTEREST EARNED MARCH 2024	50.34
07-341-1000	INTEREST EARNINGS	04/30/24	Revenue Journal	INTEREST EARNED APRIL 2024	16.09
07-341-1000	INTEREST EARNINGS	05/31/24	Revenue Journal	INTEREST EARNED MAY 2024	13.17
07-341-1000	INTEREST EARNINGS	06/30/24	Revenue Journal	INTEREST EARNED JUNE 2024	38.57
07-341-1000	INTEREST EARNINGS	07/31/24	Revenue Journal	INTEREST EARNED JULY 2024	30.19
07-341-1000	INTEREST EARNINGS	08/31/24	Revenue Journal	INTEREST EARNED AUGUST 2024	37.46
07-364-1110	R.C.TAPPING FEES	01/02/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	02/01/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	03/01/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	04/01/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	05/01/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	06/04/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1110	R.C.TAPPING FEES	07/01/24	Revenue Journal	1577 COLONIAL LN	297.84
07-364-1130	CONNECTION FEES - SEWER	01/25/24	Revenue Journal	CONNECTION FEE INSTALLMENT INV# 13262	297.84
07-364-1130	CONNECTION FEES - SEWER	04/24/24	Revenue Journal	CONNECTION FEE INSTALLMENT INV# 13263	281.88
07-380-1000	MISCELLANEOUS REVENUE	01/25/24	Revenue Journal	PINE ROCK INTEREST PORTION - STOFFLET	141.12
07-380-1000	MISCELLANEOUS REVENUE	04/24/24	Revenue Journal	PINE ROCK INTEREST PORTION - PAPPANO	141.12
07-392-0500	TRANSFER FROM SEWER OPERATING	01/09/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	431.00
07-392-0500	TRANSFER FROM SEWER OPERATING	01/11/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	533.00
07-392-0500	TRANSFER FROM SEWER OPERATING	02/14/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	4,349.75
07-392-0500	TRANSFER FROM SEWER OPERATING	02/22/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	500.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/11/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	749.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/15/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	6,041.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/21/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	7,000.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/26/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	245.00
07-392-0500	TRANSFER FROM SEWER OPERATING	03/27/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	11,190.26
07-392-0500	TRANSFER FROM SEWER OPERATING	04/01/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	62.61
07-392-0500	TRANSFER FROM SEWER OPERATING	04/03/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	5,874.75
07-392-0500	TRANSFER FROM SEWER OPERATING	04/09/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	431.00
07-392-0500	TRANSFER FROM SEWER OPERATING	05/14/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	5,996.50
07-392-0500	TRANSFER FROM SEWER OPERATING	05/21/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	3,750.00
07-392-0500	TRANSFER FROM SEWER OPERATING	06/27/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	492.00
07-392-0500	TRANSFER FROM SEWER OPERATING	06/27/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	11,190.26
07-392-0500	TRANSFER FROM SEWER OPERATING	07/16/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	7,570.25
07-392-0500	TRANSFER FROM SEWER OPERATING	07/29/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	27,691.19
07-392-0500	TRANSFER FROM SEWER OPERATING	08/15/24	Revenue Journal	XFER FROM 05 SEWER OPERATING TO 07 MA	5,457.50
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/02/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	1,720.00

Municipal Authority
YTD Revenues and Expenses thru 8/31/2024

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/05/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	94.02
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/10/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	97.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/26/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	14,805.16
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/26/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	9,530.65
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	01/31/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	4,136.12
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/06/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	6,860.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/08/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	91.92
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/14/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	4,598.99
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/15/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	73,665.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/22/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	5,848.97
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/27/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	46,517.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	02/29/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	923.91
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/05/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	3,703.78
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/06/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	800.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/11/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	3,991.86
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/15/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	37,659.48
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	03/21/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	3,101.53
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	04/01/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	558.07
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	04/03/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	1,690.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	04/09/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	1,375.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	05/14/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	1,694.25
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	06/06/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	117,677.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	07/16/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	64,206.37
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	07/29/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	31,488.51
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	08/14/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	11,348.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	08/15/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	452.00
07-392-0900	TRANSFER FROM SEWER CAP RESERVE	08/27/24	Revenue Journal	XFER FROM 09 SEWER CAP TO 07 MA	432.88
Total Revenue					551,815.68
07-424-1400	ADMINISTRATIVE WAGES	03/26/24	Pay Check: 706	24-00730 QTR 1 2024 MA CHARGE BACK	11,190.26
07-424-1400	ADMINISTRATIVE WAGES	06/27/24	Pay Check: 708	24-01495 QTR 2 2024 MA CHARGE BACK	11,190.26
07-424-3000	MISCELLANEOUS EXPENSE	03/11/24	Pay Check: 3493	24-00582 2024 ANNUAL DAILY DISCHARGE CA	749.00
07-424-3000	MISCELLANEOUS EXPENSE	03/26/24	Pay Check: 3502	24-00722 PREP SEAL & PAINT BLOCK CHAMBER	245.00
07-424-3000	MISCELLANEOUS EXPENSE	04/01/24	Pay Check: 707	24-00765 VARIOUS PURCHASES- SEE NOTES	27.02
07-424-3000	MISCELLANEOUS EXPENSE	04/01/24	Pay Check: 707	24-00765 VARIOUS PURCHASES- SEE NOTES	35.59
07-424-3110	MUNIC.AUTH.-AUDITING	02/22/24	Pay Check: 3486	24-00447 PROGRESS BILLING AUDIT EGT MUA	500.00
07-424-3110	MUNIC.AUTH.-AUDITING	03/21/24	Pay Check: 3501	24-00676 PROGRESS BILLING AUDIT EGT MUA	7,000.00

Municipal Authority
YTD Revenues and Expenses thru 8/31/2024

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-424-3110	MUNIC.AUTH.-AUDITING	05/21/24	Pay Check: 3509	24-01183 FINAL BILLING AUDIT EGT MUA	3,750.00
07-424-3130	ENGINEERING SERVICES	02/14/24	Pay Check: 3483	24-00380 SERV THRU 011424 23 CHAPTER 94	744.50
07-424-3130	ENGINEERING SERVICES	02/14/24	Pay Check: 3483	24-00381 SERV THRU 011424 2024 GEN SERV	799.75
07-424-3130	ENGINEERING SERVICES	02/14/24	Pay Check: 3483	24-00384 SERV THRU 011424 2023 GEN SERV	521.50
07-424-3130	ENGINEERING SERVICES	03/15/24	Pay Check: 3497	24-00647 SERV THRU 021124 23 CHAPTER 94	649.75
07-424-3130	ENGINEERING SERVICES	03/15/24	Pay Check: 3497	24-00648 SERV THRU 021124 2024 GEN SERV	725.00
07-424-3130	ENGINEERING SERVICES	04/03/24	Pay Check: 3503	24-00780 SERV THRU 031724 2024 GEN SERV	1,609.50
07-424-3130	ENGINEERING SERVICES	04/03/24	Pay Check: 3503	24-00779 SERV THRU 031724 23 CHAPTER 94	1,101.75
07-424-3130	ENGINEERING SERVICES	05/14/24	Pay Check: 3508	24-01143 SERV THRU 041424 2024 GEN SERV	4,015.50
07-424-3130	ENGINEERING SERVICES	05/14/24	Pay Check: 3508	24-01142 SERV THRU 041424 23 CHAPTER 94	1,509.50
07-424-3130	ENGINEERING SERVICES	07/16/24	Pay Check: 3514	24-01661 SERV THRU 061624 2024 GEN SERV	5,109.75
07-424-3130	ENGINEERING SERVICES	08/15/24	Pay Check: 3521	24-01872 SERV THRU 071424 2024 GRN SERV	5,142.50
07-424-3140	LEGAL SERVICES	01/11/24	Pay Check: 3474	24-00076 LEGAL SERV DEC 2023 GEN AUTH	533.00
07-424-3140	LEGAL SERVICES	02/14/24	Pay Check: 3481	24-00378 LEGAL SERV JAN 2024 GEN AUTH	528.50
07-424-3140	LEGAL SERVICES	03/15/24	Pay Check: 3496	24-00635 LEGAL SERVICES 2/5-2/12/24 GEN	430.50
07-424-3140	LEGAL SERVICES	04/09/24	Pay Check: 3505	24-00826 LEGAL SERV MARCH 2024 GEN AUTH	431.00
07-424-3140	LEGAL SERVICES	05/14/24	Pay Check: 3507	24-01141 LEGAL SERV APRIL 2024 GEN AUTH	471.50
07-424-3140	LEGAL SERVICES	06/27/24	Pay Check: 3511	24-01450 LEGAL SERV MAY 2024 GEN AUTH	492.00
07-424-3140	LEGAL SERVICES	07/16/24	Pay Check: 3512	24-01657 LEGAL SERV JUNE 2024 GEN AUTH	1,048.00
07-424-3140	LEGAL SERVICES	08/15/24	Pay Check: 3520	24-01873 LEGAL SERV JULY 2024 GEN AUTH	315.00
07-424-3700	CHESTER CREEK ENGINEERING	02/14/24	Pay Check: 3483	24-00383 SERV THRU 011424 CHESTER CREEK	1,755.50
07-424-3700	CHESTER CREEK ENGINEERING	03/15/24	Pay Check: 3497	24-00645 SERV THRU 021124 CHESTER CREEK	4,235.75
07-424-3700	CHESTER CREEK ENGINEERING	04/03/24	Pay Check: 3503	24-00782 SERV THRU 031724 CHESTER CREEK	3,163.50
07-424-3700	CHESTER CREEK ENGINEERING	07/16/24	Pay Check: 3514	24-01660 SERV THRU 061624 CHESTER CREEK	1,412.50
07-424-7490	CAP.REPLACEMENT R.C.	07/29/24	Pay Check: 3516	24-01742 CMD3210-XDS2.0 MUFFIN MONSTER	27,691.19
07-429-1505	RCSTP CAPITAL	01/05/24	Pay Check: 3472	24-00033 TYPE B C&G 3" COUOLER X M NPT	94.02
07-429-1505	RCSTP CAPITAL	01/10/24	Pay Check: 703	24-00056 VARIOUS PURCHASES- SEE NOTES	97.00
07-429-1505	RCSTP CAPITAL	01/17/24	Pay Check: 3475	24-00098 RC ST-RAN CONDUIT FOR TEMP PUM	9,530.65
07-429-1505	RCSTP CAPITAL	01/26/24	Pay Check: 3476	24-00041 ADAPTER 4" FNPT X 6" MCAM	429.92
07-429-1505	RCSTP CAPITAL	01/26/24	Pay Check: 3476	24-00041 ADAPTER 6" FRMALE CAM X MNPT	1,337.24
07-429-1505	RCSTP CAPITAL	01/26/24	Pay Check: 3476	24-00041 HOSE 6" X 50' CAMLOCK LAYFLAT	12,392.88
07-429-1505	RCSTP CAPITAL	01/26/24	Pay Check: 3476	24-00041 DELIVERY	645.12
07-429-1505	RCSTP CAPITAL	01/31/24	Pay Check: 3477	24-00210 SAND BAR (YELLOW) & BAGS	67.00
07-429-1505	RCSTP CAPITAL	01/31/24	Pay Check: 3478	24-00237 HOSE 6"X10' HD TANK TRUCK CAML	4,069.12
07-429-1505	RCSTP CAPITAL	02/06/24	Pay Check: 3479	24-00271 TROUGH AND CMU WALL ABLATION	6,860.00
07-429-1505	RCSTP CAPITAL	02/08/24	Pay Check: 704	24-00317 VARIOUS PURCHASES- SEE NOTES	91.92
07-429-1505	RCSTP CAPITAL	02/14/24	Pay Check: 3482	24-00379 RCSTP- UV REPLACEMENT PYMT 1	4,296.24
07-429-1505	RCSTP CAPITAL	02/14/24	Pay Check: 3483	24-00382 SERV THRU 011424 RCSTP GENERAT	302.75
07-429-1505	RCSTP CAPITAL	02/22/24	Pay Check: 3484	24-00426 UV SYSTEM INSTALLATION-FILTER	1,427.00

Municipal Authority
YTD Revenues and Expenses thru 8/31/2024

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-429-1505	RCSTP CAPITAL	02/22/24	Pay Check: 3484	24-00425 DISK FILTER#1 FAILURE, ALARM T	300.00
07-429-1505	RCSTP CAPITAL	02/22/24	Pay Check: 3485	24-00436 PIPING FOR NEW MUFFIN MONSTER	3,980.40
07-429-1505	RCSTP CAPITAL	02/22/24	Pay Check: 3487	24-00437 ELECTRICAL PARTS-INSTL MUFFIN M	141.57
07-429-1505	RCSTP CAPITAL	02/27/24	Pay Check: 3489	24-00513 FLYGT NP-3171.095 6" SUBMERSIB	33,647.00
07-429-1505	RCSTP CAPITAL	02/29/24	Pay Check: 705	24-00520 VARIOUS PURCHASES- SEE NOTES	794.81
07-429-1505	RCSTP CAPITAL	02/29/24	Pay Check: 705	24-00520 VARIOUS PURCHASES- SEE NOTES	129.10
07-429-1505	RCSTP CAPITAL	03/05/24	Pay Check: 3490	24-00539 PURCHASE TENT HEATERS & DELIVER	2,149.78
07-429-1505	RCSTP CAPITAL	03/05/24	Pay Check: 3491	24-00530 (20) ROD 5/8 X 20' (#5)	356.00
07-429-1505	RCSTP CAPITAL	03/05/24	Pay Check: 3491	24-00550 5.5 YD CONCRETE 4000 PSI	1,198.00
07-429-1505	RCSTP CAPITAL	03/06/24	Pay Check: 3492	24-00567 20X20 TENT RENTAL UV CONCRETE	800.00
07-429-1505	RCSTP CAPITAL	03/11/24	Pay Check: 3494	24-00606 DUMPSTER RENTAL- CONSTRUCTION	450.00
07-429-1505	RCSTP CAPITAL	03/11/24	Pay Check: 3495	24-00607 RCSTP-UV DISINFEC RPLCMT PYMT2	3,541.86
07-429-1505	RCSTP CAPITAL	03/15/24	Pay Check: 3497	24-00646 SERV THRU 021124 RCSTP GENERAT	3,658.25
07-429-1505	RCSTP CAPITAL	03/15/24	Pay Check: 3497	24-00644 SERV THRU 031124 RCSTP UV REPL	2,698.50
07-429-1505	RCSTP CAPITAL	03/15/24	Pay Check: 3498	24-00659 (5) 5 GALLONS WHITE PAINT	118.95
07-429-1505	RCSTP CAPITAL	03/15/24	Pay Check: 3499	24-00625 RCSTP- UV DISINFECTION SYS REP	31,183.78
07-429-1505	RCSTP CAPITAL	03/21/24	Pay Check: 3500	24-00698 INSTALL EMER. SHOWER & EYEWASH	3,101.53
07-429-1505	RCSTP CAPITAL	04/01/24	Pay Check: 707	24-00765 VARIOUS PURCHASES- SEE NOTES	18.49
07-429-1505	RCSTP CAPITAL	04/01/24	Pay Check: 707	24-00765 VARIOUS PURCHASES- SEE NOTES	313.32
07-429-1505	RCSTP CAPITAL	04/01/24	Pay Check: 707	24-00765 VARIOUS PURCHASES- SEE NOTES	226.26
07-429-1505	RCSTP CAPITAL	04/03/24	Pay Check: 3503	24-00783 SERV THRU 031724 RCSTP UV REPL	661.50
07-429-1505	RCSTP CAPITAL	04/03/24	Pay Check: 3503	24-00781 SERV THRU 031724 RCSTP GENERAT	1,028.50
07-429-1505	RCSTP CAPITAL	04/09/24	Pay Check: 3504	24-00872 20X20 FRAME TENT RENTAL4/3-5/1	800.00
07-429-1505	RCSTP CAPITAL	04/09/24	Pay Check: 3506	24-00869 CONCRETE PUMPING- 1751 TOWNE	575.00
07-429-1505	RCSTP CAPITAL	05/14/24	Pay Check: 3508	24-01144 SERV THRU 041424 RCSTP UV REPL	1,571.25
07-429-1505	RCSTP CAPITAL	07/16/24	Pay Check: 3513	24-01664 RCSTP-UV DISINFEC RPLCMT PYMT3	10,110.42
07-429-1505	RCSTP CAPITAL	07/16/24	Pay Check: 3513	24-01662 RCSTP-UNWIRE & REMOVE CABLES	267.50
07-429-1505	RCSTP CAPITAL	07/16/24	Pay Check: 3514	24-01658 SERV THRU 061624 RCSTP UV REPL	-226.00
07-429-1505	RCSTP CAPITAL	07/16/24	Pay Check: 3514	24-01658 SERV THRU 061624 RCSTP UV REPL	689.75
07-429-1505	RCSTP CAPITAL	07/16/24	Pay Check: 3515	24-01663 RCSTP-UV DISINFECTION SYS REP	52,769.70
07-429-1505	RCSTP CAPITAL	08/15/24	Pay Check: 3521	24-01871 SERV THRU 070124 RCSTP UV REPL	339.00
07-429-1505	RCSTP CAPITAL	08/27/24	Pay Check: 3522	24-01972 INJECTABLE MORTAR HY 200-A V3	432.88
07-429-1520	RCSTP - CAUSTIC SODA	05/14/24	Pay Check: 3508	24-01145 SERV THRU 041424 RCSTP CAU SOD	123.00
07-429-1520	RCSTP - CAUSTIC SODA	07/16/24	Pay Check: 3514	24-01659 SERV THRU 061624 RCSTP CAU SOD	595.00
07-429-1520	RCSTP - CAUSTIC SODA	08/15/24	Pay Check: 3521	24-01870 SERV THRU 071424 RCSTP CAU SOD	113.00
07-429-3700	CHESTER CREEK CAPITAL	02/14/24	Pay Check: 3480	24-00376 CHESTERCREEK INTERCEPTOR PYMT1	20,340.00
07-429-3700	CHESTER CREEK CAPITAL	02/14/24	Pay Check: 3480	24-00377 CHESTERCREEK INTERCEPTOR PYMT2	53,325.00
07-429-3700	CHESTER CREEK CAPITAL	02/27/24	Pay Check: 3488	24-00516 CHESTERCREEK INTERCEPTOR PYMT3	12,870.00
07-429-3700	CHESTER CREEK CAPITAL	06/06/24	Pay Check: 3510	24-01292 CHESTERCREEK INTERCEPTOR PYMT4	117,677.00

Municipal Authority
YTD Revenues and Expenses thru 8/31/2024

Account Number	Account Description	Date	Type	Transaction Data/Comment	Amount
07-429-3700	CHESTER CREEK CAPITAL	08/05/24	Pay Check: 3519	24-01787 CHESTERCREEK INTERCEPTOR PYMTS	11,348.00
07-429-6100	WEST GOSHEN CAPITAL	07/29/24	Pay Check: 3517	24-01750 2023 WG SEWER AUTH TAPPING FEE	31,392.87
07-429-6100	WEST GOSHEN CAPITAL	07/29/24	Pay Check: 3518	24-01751 2023 WG SEWER AUTH BOND FUND E	95.64
Total Expense					546,471.54
Net Operating					5,344.14

September 5, 2024

EGMAU24001

Mark Miller
Director of Public Works
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

**Re: Award Recommendation
Supplee Valley Sanitary Sewer Pipe Lining, Contract No. SSPL-2024**

Dear Mr. Miller:

We have tabulated the bids received through PennBid on September 4, 2024 for the referenced contract. The bid tabulation is attached.

As reflected in the bid tabulation, the low bidder for the project is Vortex Services, LLC, who submitted a Total Bid of \$331,241.00.

We found Vortex Services submitted proposal to be complete and accurate. We have confirmed their experience on similar projects. Therefore, as the responsive low bidder, we recommend Vortex Services be awarded the contract for the Base Bid and all Add Items in the amount of \$331,241.00.

Vortex Services' bid package documents are also attached.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Associate Vice President

Enclosures: As noted

/za

cc: East Goshen Municipal Authority
Derek Davis, Township Manager
Dave Ware, Finance Director
Patrick McKenna, Esq.

East Goshen Municipal Authority
 Tabulation of Bids Received by 11:00 AM Eastern on September 4, 2024
 Contract No. SSPL-2024: Supplee Valley Sanitary Sewer Pipe Lining

ITEM NUMBER	DESCRIPTION	ESTIMATED QUANTITY/UNIT	Vortex Services LLC		Insituform Technologies, LLC		AM-Liner East, Inc.		Mobile Dredging & Video Pipe, Inc.	
			UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT	UNIT COST	AMOUNT
BASE BID										
1-1	Cured-In-Place Pipe Lining of 8" Pipe within Township Roads	2,418 L.F.	\$54.00	\$130,572.00	\$51.00	\$123,318.00	\$60.00	\$145,080.00	\$62.00	\$149,916.00
1-2	Cured-In-Place Pipe Lining of 8" Pipe within Easements	2,556 L.F.	\$54.00	\$138,024.00	\$62.00	\$158,472.00	\$65.00	\$166,140.00	\$65.00	\$166,140.00
1-3	Lateral Reinstatements	35 EA.	\$55.00	\$1,925.00	\$99.00	\$3,465.00	\$150.00	\$5,250.00	\$200.00	\$7,000.00
TOTAL BASE BID (BASED ON ESTIMATED QUANTITIES)				\$270,521.00		\$285,255.00		\$316,470.00		\$323,056.00
ADD ITEMS										
2-1	Cured-In-Place Pipe Lining of 8" Pipe from C414 to C413	370 L.F.	\$45.00	\$16,650.00	\$45.00	\$16,650.00	\$60.00	\$22,200.00	\$66.00	\$24,420.00
2-2	Cured-In-Place Pipe Lining of 8" Pipe from C413 to C412	139 L.F.	\$72.00	\$10,008.00	\$89.00	\$12,371.00	\$60.00	\$8,340.00	\$66.00	\$9,174.00
2-3	Cured-In-Place Pipe Lining of 8" Pipe from C412 to C411	232 L.F.	\$63.00	\$14,616.00	\$63.00	\$14,616.00	\$60.00	\$13,920.00	\$66.00	\$15,312.00
2-4	Lateral Reinstatements between C414 to C413	6 EA.	\$55.00	\$330.00	\$128.00	\$768.00	\$150.00	\$900.00	\$200.00	\$1,200.00
2-5	Lateral Reinstatements between C413 to C412	3 EA.	\$55.00	\$165.00	\$136.00	\$408.00	\$150.00	\$450.00	\$200.00	\$600.00
2-6	Lateral Reinstatements between C412 to C411	1 EA.	\$55.00	\$55.00	\$141.00	\$141.00	\$150.00	\$150.00	\$200.00	\$200.00
2-7	Manhole Pressure Grouting	4 EA.	\$3,124.00	\$12,496.00	\$4,850.00	\$19,400.00	\$2,000.00	\$8,000.00	\$2,400.00	\$9,600.00
2-8	Grout	160 GAL.	\$40.00	\$6,400.00	\$58.00	\$9,280.00	\$15.00	\$2,400.00	\$20.00	\$3,200.00
TOTAL ADD ITEMS (BASED ON ESTIMATED QUANTITIES)				\$60,720.00		\$73,634.00		\$56,360.00		\$63,706.00
TOTAL BASE BID AND ADD ITEMS (BASED ON ESTIMATED QUANTITIES)				\$331,241.00		\$358,889.00		\$372,830.00		\$386,762.00
BID SECURITY REVIEW				10% of Bid		10% of Bid		10% of Bid		10% of Bid

We Declare this to be a true Tabulation of Bids Received on September 4, 2024 by East Goshen Municipal Authority for Contract No. SSPL-2024.

PENNONI ASSOCIATES INC.



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

Lynn Werkheiser

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Thursday, September 5, 2024 6:49 PM
To: Mark Miller; Lynn Werkheiser; David Ware
Cc: Derek Davis; Erika Addison
Subject: RCSTP Electrical Supply Evaluation
Attachments: 2024-07-24_EnerG Test Proposal Sf-10794 Ridley Creek STP Utility Power Monitoring.pdf

Hi All,

This email is in follow up to the Authority's direction at the August meeting to install a line conditioner on the PECO main electric supply line at the RCSTP instead of performing a study of the incoming electrical supply, if the cost to install a line conditioner was similar to the cost of the study.

Exec Summary – We recommend the study be performed per the attached quote before performing any corrective actions.

Explanation follows:

EnerG Test provided the attached quote to install a power meter on the incoming electric supply line. EnerG Test's quote proposed \$9,144.00 for the installation of the power meter, including testing for 25 days. The testing will monitor and log power usage, voltage, phase, and other components of the electric supply. As part of the quote, EnerG Test's engineers will analyze the results and provide a report within 30 days of completion of the monitoring. The report will address if there are any unusual power/voltage spikes or drops and other anomalies.

The MA requested at the August meeting that we obtain a cost to install a line conditioner on the main electric supply line. We consulted with our electrical engineers and Lenni Electric, who both advised that the cost for a line conditioner would be significantly more than \$9,144. Lenni expects the labor alone would be at least that much. That would potentially require this work be publicly bid. Additionally, Lenni is not certified to work on that size line, nor would any Township contractor be allowed to without PECO approval since PECO owns that part of the line. PECO would likely only allow a line conditioner if installed by their own crew. Further, PECO is highly unlikely to approve or install such equipment without a study that identifies/proves the exact issues and corrective actions. If the study identifies the problem to be on the PECO side of the Main Distribution Panel (MDP), then PECO will be obligated to address it at their own cost. We recognize that could be very slow to occur, but there is not an option if the solution needs to be implemented on that line.

Pennoni and Lenni further recommend the study in order to determine the exact problem. While a line conditioner might be a solution based on what we've heard, we do not know if it will address the electrical spiking issues without a study. For example, the study may identify that the spikes occur due to an issue on the RCSTP side of the MDP. For example, there could be a very high instantaneous electric demand within the plant, such as certain pieces of equipment (i.e. blowers and pumps) turning on at exactly the same time, which may only happen infrequently. There could be a variety of other causes as well, each of which may have a different solution. It would thereby be a guess to implement a "corrective action" without the study.

As a result, we strongly recommend that the study be performed as the 1st step. We also recommend EnerG Test's quote include recommendations to address any observed deficient conditions. If the study identifies that there are problems and that they are on the PECO line, the report and recommendations can be provided to PECO to substantiate the problem with a request for PECO to implement the recommendations. This process is expected

to be more effective for the Authority/Township by first identifying if there is a problem, and if so, what the cause(s) is and how to address it.

Mike

Michael Ellis, PE

Municipal Division Manager

Pennoni

Christiana Executive Campus, 121 Continental Drive, Suite 207 | Newark, DE 19713

Direct: +1 302-351-5236 | **Mobile:** +1 302-561-4235

www.pennoni.com | MEllis@Pennoni.com



[Our Services and Expertise](#)

Erika Addison
Pennoni Associates
121 Continental Drive, Suite 207
Newark, DE 19713
Phone: 302-351-5263
Email: eaddison@Pennoni.com

July 24, 2024

Re: Ridley Creek STP Utility Power Monitoring
Site Address: 1751 Towne Drive, West Chester, PA 19380
EnerG Test Proposal #SF-10794

EnerG Test, LLC is a NETA accredited, highly trained, qualified, and experienced engineering service, electrical testing, and equipment servicing organization, a fully owned subsidiary of the Tri-M Group. Safety, quality, and professionalism are the fundamental characteristics of our company, and our accomplishments are identified by reliability, efficiency, and thoroughness. We specialize in offering engineering, testing, and equipment solutions to meet our customer's needs.

Based on your request, EnerG Test will provide labor material, and equipment to provide the following scope of work:

Detailed Scope of Work:

1. Install Power Quality Meter
 - a. Average current usage, peak current usage
 - b. RMS voltage, Transient voltage, voltage swells, voltage dips and dropouts
 - c. Power factor, Displacement power factor, voltage unbalances and phase sequence
 - d. Harmonic voltage and currents
 - e. All data will be analyzed by a professional engineer and a full report will be provided.

General Clarifications:

- Power meter will be left on for a period of 25 days.
- EnerG Test to provide protective grounds, as necessary, for safe access to the equipment
- No repair, replacement parts, or associated labor outside of the scope of work is included.
- This proposal assumes that any equipment requiring energized electrical work, including but not limited to commissioning, metering, and testing, will be labeled by the owner with an NFPA 70E compliant arc flash label. If a label or owner provided analysis is not available, an incident energy analysis can be provided at an additional fee.
- This proposal excludes providing an Arc Flash Hazard Analysis and associated equipment labeling.
- Final report will be issued within 30 calendar days after completion of scope of work.

Schedule/ Timeline

- Our proposal is based on completing the scope of work during normal business hours (Mon-Fri 7am – 3:30pm)
- No electrical outage will be required to install the power meter.
- Power meter will be left on for a period of 25 days.

Owner Responsibilities

The facility owner representatives are to provide:

- Provide all equipment manufacturer manuals and single line drawings
- All switching to remove electrical load and restore electrical load if applicable.
- Coordination of switching by the local utility to isolate the equipment for inspection and testing and payment for services provided by the utility if applicable.



206 Gale Lane
Kennett Square, PA 19348

enerGtest.com

Office: 484-731-0200
24hr Service: 800-456-7782

empowering peace of mind

Pricing

Total Project Pricing: \$9,144.00

- No federal, state, or local taxes on labor are included in the above pricing.
- If this project is tax exempt, a copy of their tax-exempt form will be submitted with their purchase order
- The volatility of copper and other metals as well as the unpredictability of the impacts related to new government tariffs have made the projection of certain building materials difficult to forecast. EnerG Test reserves the right to recover increases greater than 5% of any materials containing copper or other metals. The increase will be based on Producer Price Index as of the day the proposal is submitted.
- Cancellation or postponement of schedule work (non-weather related) could result in additional charges.
- Cancellation/postponement within 48 hours of scheduled work will result in a fee of 10% of the project value.
- Cancellation/postponement within 1 week of scheduled work will result in a fee of 5% of the project value.

Terms & Conditions

- This proposal is valid for thirty (30) days, from the date of issue.
- EnerG Test's Customer Terms and Conditions (05.25.21 Version) are the basis for all pricing and should this proposal be accepted shall become part of the contract documentation and supersede all subsequent terms to the contrary.

EnerG Test appreciates the opportunity to support your electrical needs. If you have any questions, please contact me.

Respectfully,

Jason Smith

Jason Smith
Account Executive
Cell: 610-721-3548
Email: mjsmith@energtest.com