

**EAST GOSHEN MUNICIPAL AUTHORITY**

**September 9, 2019**

**7:00 PM**

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. August 12, 2019

4. APPROVAL OF INVOICES

Pennoni Invoice #876341	\$ 4,979.00
Pennoni Invoice #876342	\$ 1,565.50
Pennoni Invoice #876343	\$ 104.71
Gawthrop Greenwood, Invoice #213818	\$ 220.00

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. August Financial Report

8. OLD BUSINESS

- a. Pricing for Hershey Mill and Ridley Creek generators

9. GOALS

- a. Continue to monitor the upgrades at West Goshen Sewer Plant. Members have been attending meetings.
- b. Continue to implement the I&I Plan – on-going
- c. Continue to run the plant to DEP permit requirements

10. NEW BUSINESS

- a. Pennoni Memo - PCCS Permanent Sanitary metering.
- b. Pennoni Memo – Hershey’s Mill Pump Station Generator Replacement
- c. Pennoni Memo – RCSTP Generator – 1 Replacement
- d. Pennoni Memo – Proposal for Hershey’s Mill Pump Station Generator Replacement
- e. Pricing for Metering Manhole from OCF
- f. Pricing for Metering Manhole from Tracom
- g. Quote from Hartco for an Ultrasonic Module
- h. Quote from Hartco for a portable Laser flow system

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

- a.

14. PUBLIC COMMENT

15. ADJOURNMENT

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

September 6, 2019

To: Municipal Authority  
From: Mark Miller  
Re: August 2019 Monthly Report

**Monthly Flows:** West Goshen flow average is 780.000 for the month of August.

**Meters:** The meters were read on a daily basis. The meters were calibrated on August 23<sup>rd</sup> no problems were noted.

**C.C. Collection:** The pump stations were visited on a daily basis with no problems to report. We were notified of a sewer back up on Sturbridge Lane, we attempted to plunge the lateral until it was clear. The lateral was televised where we found the lateral had a significant sag. The homeowner was advised of the problem.

**R.C. Collection:** The stations were visited on a daily basis with no problems to report. A contractor working from PECO struck a lateral on Sleepy Hollow Lane, the contractor excavated the lateral and we made the repairs. We also replaced 14 casting while paving.

**R.C. Plant:** The plant operator reported that a limb was hanging over tank one, we trimmed the trees around the tanks. We installed the rebuilt pump for the Applebrook spray irrigation and started sending water to the golf course.

**Alarms:** We responded to 25 alarms for August.

**PA One Calls:** We responded to over 75 PA One Calls for the month of August.

**Monthly Rainfall:** 1.55 inches for August.

**EAST GOSHEN MUNICIPAL AUTHORITY**  
**ENGINEER'S REPORT**  
September 6, 2019

**Invoices**

- Invoices with summaries are provided under separate cover.

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

- We continued coordination with the vendor (Cummins) on product selection, fuel tank sizing, and cost for replacement of the existing Spectrum Detroit Diesel "Generator 1". We have requested a formal cost quote addressed to the Township for consideration at the September MA meeting, but we have not yet received it at the time of this report. We are working with the vendor to provide it ASAP so that we can forward to the MA prior to the meeting.

**Barkway Pump Station Grinder**

- No activity since our last report. The Muffin Monster manhole and equipment was delivered to the Township in late May.

**Tallmadge Drive Sewer Main Replacement**

- The 2-year maintenance bond period ends March 21, 2021.

**I&I Support and Reporting**

- No activity since our last report.

**New Connections**

- A new home is proposed at 204 Line Road that will require a grinder pump system. We are awaiting a plan submission to review.

**Hershey's Mill Pump Station Generator Replacement**

- We performed topographic, existing conditions, and property boundary survey of the pump station site and creek and are developing an existing conditions plan. The plan will be utilized for floodplain impact determination and site design (namely to determine required height of the generator above grade).
- We prepared a second rendering of the site with the proposed generator in-place for use by the Township in coordination with the Hershey's Mill Homeowner's Association. This rendering is as viewed from Greenhill Road; the prior rendering was a view from the Hershey's Mill entrance drive.
- We continued coordination with the vendor (Cummins) on product selection, fuel tank sizing, and cost. We have requested a formal cost quote addressed to the Township for consideration at the September MA meeting, but we have not yet received it at the time of this report. We are working with the vendor to provide it ASAP so that we can forward to the MA prior to the meeting.

**Permanent Flow Meter Manholes**

- We continued coordination with the Township and vendor on permanent flow meter manholes and meter systems for installation at two locations in the Ridley Creek collection system, specifically on field determining specific depths of the manholes, exact locations, and associated cost impacts.

END OF REPORT



## Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of July 2019. Discharge to the Applebrook irrigation lagoon remained off line during July and August. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

## Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for the July 2019 DMR.

**Table 1**

<b>July 2019- Final Effluent - Outfall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average										
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
July 1, 2019	0.342			2	5.7						
July 2, 2019	0.371	2.6	8.0	1	3.1	0.100	0.31	0.26	0.80	1	0.0000
July 9, 2019	0.384	2.0	6.4	6	19.2	0.100	0.32	0.24	0.77	1	0.0000
July 16, 2019	0.356	6.8	20.2	4	11.9	0.203	0.60	0.22	0.65	1	0.0000
July 23, 2019	0.434	2.0	7.2	4	14.5	0.100	0.36	0.14	0.51	6	0.7782
July 25, 2019	0.372			1	3.1						
July 26, 2019	0.350			6	17.5						
July 29, 2019	0.342			5	14.3						
July 30, 2019	0.342	4.7	13.4	4	11.4	0.1	0.29	0.11	0.31	1	0.0000
Average	0.366	3.6	11.1	4	11.2	0.121	0.38	0.19	0.61	2	0.1556
Minimum	0.342	2.0	6.4	1	3.1	0.100	0.29	0.11	0.31	1	0.0000
Maximum	0.434	6.8	20.2	6	19.2	0.203	0.60	0.26	0.80	6	0.7782





**RCSTP Monthly Operations  
Report:  
August 2019**

The treatment process performed well during July with no abnormalities. The process monitoring, and control data indicates the facility will remain within compliance of the NPDES permit.

There were periodic BOD<sub>5</sub> and TSS sample concentration atypically less or greater typical “normal” conditions. These variations are attributed to the varying influent wastewater flows without the influence of rainfall. Although there were variations, the monthly average influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentration and organic loading values.

Table 2 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during July 2019.

**Table 2**

July 2019 - Influent Wastewater											
Design Basis	Flow	BOD <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
		335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
July 2, 2019	0.436	249	905	222	807	33.4	121	60.5	220	9.8	35.6
July 9, 2019	0.474	202	734	207	753	31.8	126	45.4	180	6.8	26.9
July 16, 2019	0.443	557	2,025	212	771	32.7	121	55.5	205	5.8	21.4
July 23, 2019	0.526	75.4	274	223	811	28.5	125	38.5	169	6.3	27.6
July 30, 2019	0.410	188	683	220	800	32.0	109	53.8	184	4.3	14.7
Average	0.458	254	924	217	788	31.7	120	50.7	191	6.6	25.3
Minimum	0.410	75	274	207	753	28.5	109	38.5	169	4.3	14.7
Maximum	0.526	557	2,025	223	811	33.4	126	60.5	220	9.8	35.6



**RCSTP Monthly Operations  
Report:  
August 2019**

Table 3 illustrates the available data for the final effluent composite sample data reported for outfall 001 for use with the August 2019 DMR.

**Table 3**

<b>August 2019- Final Effluent - Outfall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
August 5, 2019	0.335			2	5.6						
August 6, 2019	0.319	2.0	5.3	3	8.0	0.100	0.27	0.32	0.85	3	0.4771
August 12, 2019	0.336			2	5.6						
August 13, 2019	0.323	2.0	5.4	3	8.1	0.100	0.27	0.61	1.64	1	0.0000
August 15, 2019	0.345										
August 20, 2019	0.339							0.69	1.95		
August 22, 2019	0.304										
August 27, 2019	0.316										
August 29, 2019	0.278										
Average	0.322	2.0	5.4	3	6.8	0.100	0.27	0.54	1.48	2	0.2386
Minimum	0.278	2.0	5.3	2	5.6	0.100	0.27	0.32	0.85	1	0.0000
Maximum	0.345	2.0	5.4	3	8.1	0.100	0.27	0.69	1.95	3	0.4771

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during July. SBR 3 was removed from service during August and SBR 2 placed into 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.

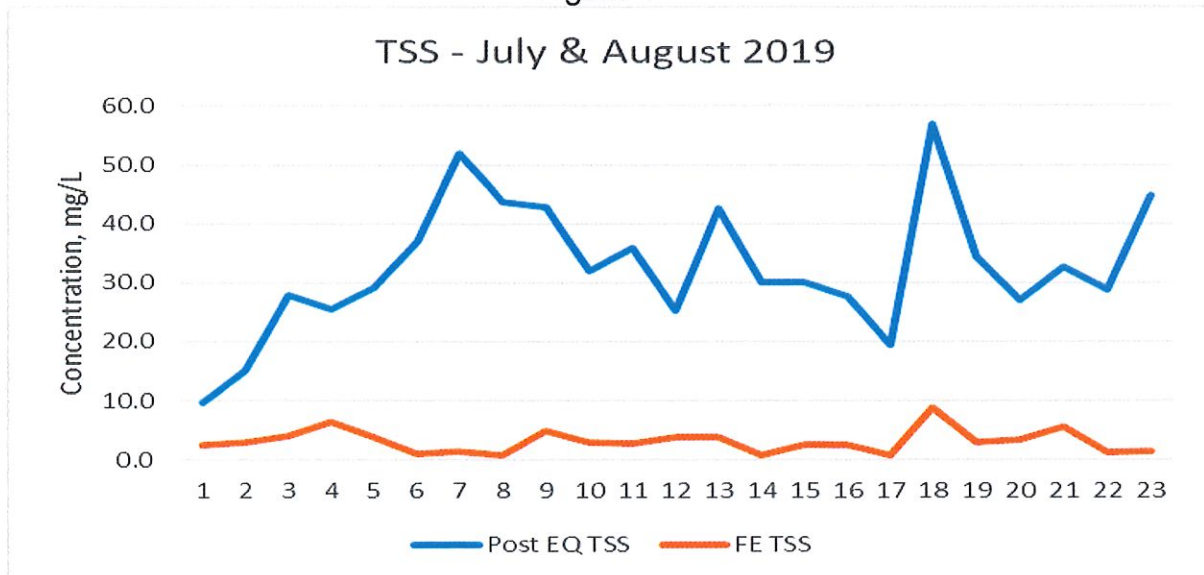
It is important to point out that the final effluent total phosphorus concentration has increased during the month of August. During the month of August, several troubleshooting measures were enacted to determine the root cause of the increase as well as implementing corrective actions, namely increasing the alum feed to the SBRs assist with total phosphorus removal.



Troubleshooting including increased process monitoring of each SBR's performance with respect to settleability of the mixed liquor prior to decanting. To evaluate the SBR's sludge settleability, a settled sludge volume (SSV) test is performed on the mixed liquor on a sample collected within twenty (20) minutes of the conclusion of the REACT cycle. The SSV test is performed daily on the SBRs. To further evaluate the sludge settleability, measurements of the clear supernatant (clear water above the sludge blanket) were obtained towards the end of the SETTLE cycle. The test results and observations indicated no issues or abnormalities with how well the sludge settled. Additional samples were collected from the effluent decant discharge pipes during the DECANT cycle of each SBR. The clarity of the effluent remained consistent with the sludge settleability.

On August 9<sup>th</sup>, SBR 3 was removed from service for an annual inspection and BR 2 was placed into service. In review of the final effluent total phosphorus date and more importantly the elevated TSS concentrations in the Post EQ tanks, it appears that placing SBR 2 in service coincided with the elevated Post EQ tank TSS during August (the elevated Post EQ TSS during July is related to the higher volumes of rainfall during July and typical lowers when the rain induced flows become lower). Figure 1 illustrates the final effluent and Post EQ Tank TSS concentrations during July and August.

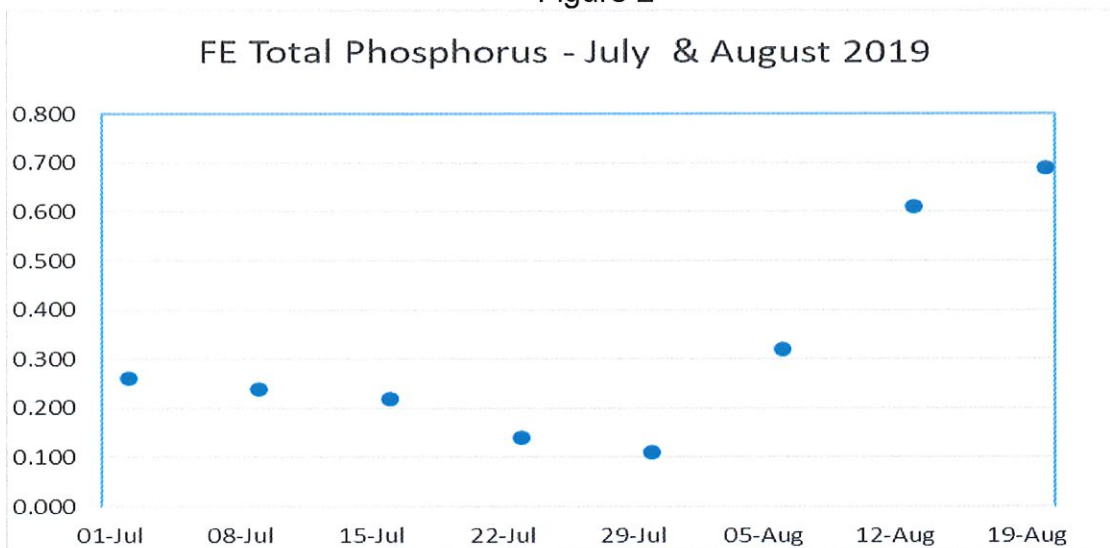
Figure 1



The figure illustrates no decline in the Post EQ tank TSS, however, concentrations maintain those concentrations typical of solids carryover from the SBRs. As shown in figure 2, the final effluent total phosphorus concentrations increased during

August. There is a direct relationship at the TSS concentrations increase, the total phosphorus concentration will increase. The alum feed rates were increased, nearly doubling the feed rates to the SBRs. The alum feed prior to the SBRs was increased, however, caution is exercised not to overfeed alum into the disc filters. Overdosing alum in the disc filters could blind the filter as well as lower the final effluent pH beyond the discharge limitations.

Figure 2



In review of the data, troubleshooting measures and corrective actions, it is believed that the effluent valve for SBR 2 is not fully closed or seated. All SBRs are decanted clear effluent, however, there is a solids carryover into the Post EQ tanks. The plant was performing well up until SBR 2 was placed on line. The effluent valve will be evaluated and inspected to confirm it is in the fully closed position. Any adjustments will be performed. Continuing to increase the alum feed and increased cleaning of the disc filters should assist to lower the total phosphorus concentration within discharge permit limitations. Lastly, collection of additional final effluent samples for total phosphorus is under consideration. The long-term solution is to return SBR 3 to service after its cleaning on September 11<sup>th</sup> and follow up inspection.

After troubleshooting the effluent valve/actuator assembly for SBR 2, it was determined to not function as intended. The valve was observed to open, however, it did not fully close. The firm Tri-Sate (local firm that provides part and repairs) was contacted without success. On Wednesday, September 4<sup>th</sup>, the actuator from SBR 3 was removed and installed on SBR 2. The performance of the actuator will be monitored as well as a gradual decline on the Post EQ tank





**RCSTP Monthly Operations  
Report:  
August 2019**

TSS. Tr-Sate will be contacted to evaluate the failed actuator for repair or replacement.

The foam on the SBR surface was observed to decrease slightly to approximately 0 to 30% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. The warmer water temperatures combined with increasing the F:M ratios to 0.06 and the rainfall during June and July have assisted to reduce the foam concentrations.

The influent organic loadings remain below those of the influent design loadings. Table 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during June 2019

**Table 4**

<b>August 2019 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
August 6, 2019	0.493	167	687	349	1,435	32.3	133	58.2	239	7.8	32.1
August 13, 2019	0.391	82	336	158	650	29.8	97	110	5		0.0
August 20, 2019	0.510										
August 27, 2019	0.439										
Average	0.458	124	511	254	1043	31.1	115	84.1	122	7.8	16.0
Minimum	0.391	82	336	158	650	29.8	97	58.2	5	7.8	0.0
Maximum	0.510	167	687	349	1435	32.3	133	110.0	239	7.8	32.1

During August, the final effluent outfall 001 monthly average flow to Ridley Creek was measured and recorded as 0.415 MGD. This represents approximately 55.4% of the facility's average daily design hydraulic loading of 0.750 MGD. This is a slight increase as compared to the monthly average for July, however, it reflects previous "normal" flows.



**RCSTP Monthly Operations  
Report:  
August 2019**

During August, influent flow measured at the manhole in the field prior to the Screening building was observed to be functioning as intended. This is the second consecutive month the flows measured at the "field" flow meter were lower than those measured entering the SBR.

**Significant Rainfall Events**

During August, there were seven (7) day when rainfall occurred. One (1) storm event resulting in a daily precipitation amount equal to or greater than 0.50 inches measured during a 24-hour period. A total of 2.34 inches of rainfall measured during the month. The event occurred on:

August 15<sup>th</sup> 1.21 inches

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reducing aeration minutes per cycle, extending decant minutes per cycle and reducing settling times.

**PA DEP**

No activity

**Chemical Usage:**

August 2019		
Chemical	Daily Average	Total Monthly
Soda Ash	255	7,600
Aluminum Sulfate solution	61..5	1,845

For the past several months, there have been significant issues with the chemical supplier. Soda ash, light is used to maintain the total alkalinity and buffer for pH. The supplier has been unable to provide this product and in place provided soda ash, dense. The dense soda ash is less soluble and tends to settle to the bottom of the tank. Additionally, deliveries of liquid aluminum sulfate solution have been inconsistent. A recent order of approximately 1,800 gallons resulting in a partial delivery of approximately 1,100 gallons. These are two (2) critical chemicals to support the treatment process and compliance with the discharge permit limitations. Assistance or guidance from the Township is appreciated.



**RCSTP Monthly Operations  
Report:  
August 2019**

**Flow data:**

August 2019			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	12.875	415,333	529,390
Influent Wastewater to SBRs	13.734	443,016	494,208
Internal Recycle	1.213	63,862	196,980
Treated Effluent to Disc Filters	13.016	433,865	472,192
Final Effluent Discharge	9.845	317,581	356,000
Applebrook Golf Course	0	0	0

**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



**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**August 12, 2019**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, August 12, 2019 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Kevin Cummings, Jack Yahraes, Phil Mayer, and Walter Wujcik. Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoi), Patrick McKenna (Attorney) and Gabriel Long (Intern).

**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**

Kevin called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops, veterans and first responders. Kevin asked if anyone would be recording the meeting. There was no response.

**Chairman's Report**

1. Phil attended the West Goshen meeting and reported that the Phase 1 project is almost done. They are procuring materials for Phase 2. They have found other things that need to be done so they are over the original \$9 million budget by about \$2 million. They will have a new schedule/cost in the next few weeks.

**Sewer Reports**

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

Monthly Flows: The average daily flows to West Goshen were 880,000 for the month of July.

Meters: The meters were read on a daily basis. We had some rain events, which created some challenges however we got thru them.

C.C. Collection: The pump stations have been visited on a daily basis. We had some minor problems with the alarm panel at the Barkway Pump Station. John Laldley was called and the problem was corrected. As part of our paving program we replaced all the sewer castings and lids on Barkway Lane and North Tulip Lane. We raised the manholes along the stream at Ashbridge Farms. Two sewer laterals were repaired by homeowners during the month. Each of the repairs were inspected by township staff. While prepping the roads in Vista Farms for overlay, the manhole casting and lids were checked for problems. We found some that needed minor masonry repairs which were done.

1 R.C. Collection: The pumping stations were visited on a daily basis, bar screens and walls  
2 were cleaned at the two stations. While prepping the roads for a paving overlay, we found a  
3 significant leak in the Rossmore development estimated to be between 20,000 to 25,000  
4 gallons a day. We excavated the area around the manhole and pumped the ground water  
5 while we made the repair. Also, while working in the development we replaced 16 manhole  
6 castings and lids that were damaged.

7 Ridley Creek Plant: Nothing to report.

8 Alarms: We responded to 32 alarms in July.

9 PA One Calls: We responded to over 70 PA One Calls for the month of July. We had a PA  
10 One Call in the Audubon development. However, the sanitary sewers in the development are  
11 considered private. That being said, the Homeowners Association has no clue where anything  
12 is, so I went in and worked with the Carr and Duff Company and marked all the manholes,  
13 which was a challenge. The contractor hired an underground locating company to locate the  
14 laterals before they drilled.

15 Rainfall: 11.85 inches for July. We had several significant rain events.

16 New Sewer Camera and Trailer -We received our new sewer camera and trailer on Friday. It  
17 was on display for the MA members to see before the meeting.

18 Discussion item: Now that we have this new camera, I would like to reach out to the various  
19 apartment complexes and townhome communities and arrange to televise the sanitary sewer  
20 lines and create videos of the sewers. Any defects we find they will be responsible for  
21 making the repairs. However, I would like to talk to Pat to set up some guidelines prior to  
22 doing the work.

## 23 **2. Pennoni Engineer's Report for May**

24 Invoices – Invoices with summaries were provided under separate cover.

### 25 Ridley Creek Sewage Treatment Plant (RCSTP)

26 We continued evaluating the existing Spectrum Detroit Diesel “Generator1” for replacement.  
27 A summary memo has been prepared to recommend a replacement generator model with  
28 budgetary pricing. This memo requires input from the Township regarding fuel storage  
29 sizing.

30 A proposal will be provided separately for full design of a replacement generator following  
31 general approval of the budgetary pricing provided in the generator memo.

### 32 Barkway Pump Station Grinder

33 No activity since our last report. The Muffin Monster manhole and equipment was delivered  
34 to the Township in late May.

### 35 Tallmadge Drive Sewer Main Replacement

36 The 2-year maintenance bond period ends March 21, 2021.

### 37 I&I Support and Reporting

38 No activity since our last report.

### 39 New Connections

40 No activity since our last report.

### 41 Hershey's Mill Pump Station

42 We have determined the preferred sizing and location of the replacement generator and diesel  
43 fuel tank in coordination with Mark Miller.

44 A summary memo has been prepared describing the recommended generator with budgetary  
45 pricing for the generator and constructed concrete pad. Additionally, we have prepared a  
46

photo rendering of the pump station site with the new exterior generator, as it would be viewed from Hershey's Mill community entrance drive for use in coordination with the Condo Association.

A proposal has been provided separately for survey, floodplain coordination and generator design.

#### Permanent Flow Meter Manholes

We continued investigation and research into permanent flow meter manholes and meter systems for installation for two locations in the Ridley Creek collection system. A summary memo has been prepared describing the permanent flow metering product options available, as well as their advantages and disadvantages. Our evaluation concluded that the new manhole option remains the most suitable choice, and budgetary pricing has been provided for recommended products.

**3. Big Fish Environmental Services** – The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge limitations for the month of June 2019. Discharge to the Applebrook irrigation lagoon remained off line during June and July 2019. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Mike provided a graph showing the phosphorus levels. There was a jump in June but they came back down to normal.

#### **Approval of Minutes**

The minutes of the July 8, 2019 meeting were approved as corrected.

#### **Approval of Invoices**

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

Pennoni Invoice #870502	\$ 1,534.50
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Pennoni Invoice #870503	\$ 102.25
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Phil seconded the motion. The motion passed unanimously.

2. Phil moved to approve the Horn Plumbing and Heating invoice #1424722 in the amount of \$1,973.00. Walter seconded the motion. The motion passed unanimously.

#### **Financial Reports**

Jon Altshul provided the following written report:

In July, the Municipal Authority recorded \$5,950 in revenues (from inter-fund transfers) and \$8,198 in expenses, for a negative variance of \$2,248. As of July 26<sup>th</sup>, the fund balance was \$17,868.

Walter commented that there is no payment to Big Fish included in the financial reports. Mark will find out how Big Fish is paid.

#### **Liaison Reports**

None

#### **Goals**

Kevin submitted the article for the Township Newsletter.

1 **New Business**

2 1. PCCS Permanent Sanitary metering – Mike provided a map proposing to install two permanent  
3 meters, one at Hibberd Lane and the other at Boot Road near the Blacksmith Shop. He explained  
4 where other meters were installed and how they monitor flows. They reviewed ultrasonic and laser  
5 and are recommending the ultrasonic. Mike explained how it works with new manholes. He  
6 reviewed the quotes from OCF and TRACOM. A decision was tabled until the next meeting.

7 2. Hershey's Mill Pump Station Generator replacement – Mike explained the need for a larger  
8 60kw generator. The facility would have to be expanded so a survey is needed. Cost and installation  
9 were discussed. Walter moved to approve Pennoni's proposal for the Hershey's Mill generator  
10 replacement not to exceed \$22,400.00. Phil seconded the motion. The motion passed unanimously.

11 3. RCSTP Generator – Mike explained that a replacement in kind (48 hrs) will fit on the existing  
12 pad. \$150,000 was budgeted for 72 hrs and expansion of the pad.

13  
14 **Any Other Matter**

15 None

16  
17 **Adjournment**

18 There being no further business, Jack moved to adjourn the meeting. Walter seconded the motion.  
19 The meeting was adjourned at 8:20. The next regular meeting will be held on Monday,  
20 September 9, 2019 at 7:00 pm.

21  
22 Respectfully submitted,

23  
24  
25 Ruth Kiefer  
26 Recording Secretary



# INVOICE

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

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

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

Invoice # : 876341  
Invoice Date : 09/06/2019  
Project : EGMAU19001  
Project Name : 2019 General Services

For Services Rendered through: 8/11/2019

Prepared July Engineer's Report. Researched and provided contract operations information to the Township.

Permanent RCCS Metering: continued evaluation and vendor coordination for product alternatives and costs for new permanent metering within the Ridley Creek Collection System, and prepared and submitted summary & recommendations memo.

Hershey's Mill PS Generator: updated and submitted rendering of proposed generator as viewed from Hershey's Mill entrance (rendering scope was not part of HMPS generator design & permitting proposal).

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

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

Labor : 4,979.00  
Expense : 0.00  
Phase Total : 4,979.00

Amount Due This Invoice

\$4,979.00

Fee : 27,000.00  
Prior Billings : 10,633.75  
Current Billings : 4,979.00  
Total Billings : 15,612.75

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

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	4.00	127.00	508.00
Senior Professional	5.00	121.00	605.00
Associate Professional	38.00	94.00	3,572.00
Engineering Technician	3.50	84.00	294.00
<b>Labor Total:</b>	<b>50.50</b>		<b>4,979.00</b>

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

Labor : \$4,979.00  
Expense : \$0.00

Total Project : EGMAU19001 -- 2019 General Services

Labor : \$4,979.00  
Expense : \$0.00

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



East Goshen Municipal Authority  
EGMAU19001 Invoice Summary  
Invoice Date 9/6/2019

**Project:** EGMAU19001  
**Pennoni Job No.:** 2019 General Services  
**Invoice No:** 876341  
**Invoice Period:** 7/15/2019 to 8/11/2019  
**Initial Authorization:** \$ 27,000.00 **Date:** 9/6/2019  
**Contract Amount:** \$ 27,000.00  
**Previously Invoiced:** \$ 10,633.75  
**Current Invoice:** \$ 4,979.00  
**Invoiced to Date (\$):** \$ 15,612.75  
**Invoiced to Date (%):** 58%  
**Remaining Budget (\$):** \$ 11,387.25  
**Remaining Budget (%):** 42%

**Budget by Phase:**

**Phase Name:** 2019 General Services  
**Phase Budget:** \$ 27,000.00  
**Previously Invoiced:** \$ 10,633.75  
**Current Invoice:** \$ 4,979.00  
**Invoiced to Date (\$):** \$ 15,612.75  
**Invoiced to Date (%):** 58%  
**Remaining Budget (\$):** \$ 11,387.25  
**Remaining Budget (%):** 42%

**Comments:** Prepared July Engineer's Report. Researched and provided contract operations information to the Township.

Permanent RCCS Metering: continued evaluation and vendor coordination for product alternatives and costs for new permanent metering within the Ridley Creek Collection System, and prepared and submitted summary & recommendations memo.

Hershey's Mill PS Generator: updated and submitted rendering of proposed generator as viewed from Hershey's Mill entrance (rendering scope was not part of HMPS generator design & permitting proposal).



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

Invoice # : 876342  
Invoice Date : 09/06/2019  
Project : EGMAU19004  
Project Name : RCSTP Generator Replacement

OK *Ja* *Net*

For Services Rendered through: 8/11/2019

Evaluated existing and proposed generator load requirements and sizing for replacement generator; vendor coordination for fuel tank alternatives, sizing, and pricing; finalized and submitted memo with generator replacement recommendations and costs.

**Phase : 01 -- Concept Design**

**Total Phase : 01 -- Concept Design**

Labor : 1,565.50  
Expense : 0.00  
Phase Total : 1,565.50

**Amount Due This Invoice**

**\$1,565.50**

Fee : 5,000.00  
Prior Billings : 979.50  
Current Billings : 1,565.50  
Total Billings : 2,545.00

**Phase : 01 -- Concept Design**

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	1.25	127.00	158.75
Senior Professional	0.75	121.00	90.75
Associate Professional	14.00	94.00	1,316.00
<b>Labor Total:</b>	<b>16.00</b>		<b>1,565.50</b>

**Total Phase : 01 -- Concept Design**

Labor : \$1,565.50  
Expense : \$0.00

**Total Project : EGMAU19004 -- RCSTP Generator Replacement**

Labor : \$1,565.50  
Expense : \$0.00

East Goshen Municipal Authority  
EGMAU19004 Invoice Summary  
Invoice Date 9/6/2019

**Project:** EGMAU19004  
**Pennoni Job No.:** RCSTP Generator Replacement  
**Invoice No:** 876342  
**Invoice Period:** 7/15/2019 to 8/11/2019  
**Initial Authorization:** \$ 5,000.00 **Date:** 9/6/2019  
**Contract Amount:** \$ 5,000.00  
**Previously Invoiced:** \$ 979.50  
**Current Invoice:** \$ 1,565.50  
**Invoiced to Date (\$):** \$ 2,545.00  
**Invoiced to Date (%):** 51%  
**Remaining Budget (\$):** \$ 2,455.00  
**Remaining Budget (%):** 49%

**Budget by Phase:**

**Phase Name:** RCSTP Generator Replacement  
**Phase Budget:** \$ 5,000.00  
**Previously Invoiced:** \$ 979.50  
**Current Invoice:** \$ 1,565.50  
**Invoiced to Date (\$):** \$ 2,545.00  
**Invoiced to Date (%):** 51%  
**Remaining Budget (\$):** \$ 2,455.00  
**Remaining Budget (%):** 49%

**Comments:** Evaluated existing and proposed generator load requirements and sizing for replacement generator; vendor coordination for fuel tank alternatives, sizing, and pricing; finalized and submitted memo with generator replacement recommendations and costs.



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Pennoni  
P.O. Box 827328  
Philadelphia, PA 19182-7328

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

Invoice # : 876343  
Invoice Date : 09/06/2019  
Project : EGMAU19005  
Project Name : HMPS Survey & Design for  
Generator

---

For Services Rendered through: 8/11/2019

Initiated site design work for replacement generator.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Survey	\$7,800.00	\$0.00	0.00%	\$0.00	\$0.00
02 -- Civil	\$5,800.00	\$0.00	1.81%	\$104.71	\$104.71
03 -- MEP	\$8,800.00	\$0.00	0.00%	\$0.00	\$0.00
Total :	<u>\$22,400.00</u>	<u>\$0.00</u>		<u>\$104.71</u>	<u>\$104.71</u>

Amount Due This Invoice

\$104.71

OK  
*[Signature]*

East Goshen Municipal Authority  
EGMAU19005 Invoice Summary  
Invoice Date 9/6/2019

**Project:** EGMAU19005  
**Pennoni Job No.:** HMPS Survey & Design for Generator  
**Invoice No:** 876343  
**Invoice Period:** NPT to 8/11/2019  
**Initial Authorization:** \$ 22,400.00 **Date:** 9/6/2019  
**Contract Amount:** \$ 22,400.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 104.71  
**Invoiced to Date (\$):** \$ 104.71  
**Invoiced to Date (%):** 0%  
**Remaining Budget (\$):** \$ 22,295.29  
**Remaining Budget (%):** 100%

**Budget by Phase:**

**Phase Name:** HMPS Survey & Design for Generator  
**Phase Budget:** \$ 22,400.00  
**Previously Invoiced:** \$ -  
**Current Invoice:** \$ 104.71  
**Invoiced to Date (\$):** \$ 104.71  
**Invoiced to Date (%):** 0%  
**Remaining Budget (\$):** \$ 22,295.29  
**Remaining Budget (%):** 100%

**Comments:** initiated site design work for replacement generator.





Gawthrop Greenwood, PC  
Attorneys at Law

17 East Gay Street, Suite 100 | (p) 610-696-822  
West Chester, PA 19381-0562 | (f) 610-344-092  
gglaw@gawthrop.com | www.gawthrop.c

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester PA 19380

Page: 1  
08/09/2019  
Client No: 6604-001M  
Invoice No. 213818

General Authority Services

Fees

		Hours	
07/05/2019	PMM	Review and analyze meeting materials.	0.20
07/16/2019	PMM	Email from J Altshul regarding letter for DEP for muffin monster purchase and grant.	0.20
07/18/2019	PMM	Review and analyze materials from J Altshul for letter to DCED regarding muffin monster grant; Letter to B Ennis and J Altshul regarding local procurement process compliance; Email to J Altshul regarding same.	0.70
		For Current Services Rendered	1.10
			220.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Patrick M. McKenna	1.10	\$200.00	\$220.00
Previous Balance			\$720.00
Total Current Charges			220.00
07/19/2019	Payment		-460.00
07/25/2019	Payment		-260.00
	Total Payments		-720.00
	Balance Due		<u>\$220.00</u>

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

# Memo

---

To: Municipal Authority  
From: Jon Altshul  
Re: MA August Financial Report  
Date: September 6, 2019

---

In August, the Municipal Authority recorded 33,154 in revenues (including \$29,078 from the PA Small Water and Sewer Grant or 90% of the total cost of the Barkway Muffin Monster and \$4,090 from transfers in) and \$1,857 in expenses, for a positive variance of \$31,297. As of July 26<sup>th</sup>, the fund balance was \$49,166.

A complete list of YTD MA revenues and expenses is attached.

I have also attached the Municipal Authority pages from last year's CIP. In anticipation of next year's budget, I would also like to discuss the 2020 figures.

EAST GOSHEN TOWNSHIP  
Other Funds  
August 2019  
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			(113.76)	(113.76)		(13.89)	(13.89)
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020							
DCED GRANT	07354 0400	32,307		29,078.00	29,078.00		29,078.00	29,078.00
C.C. TAPPING FEES	07364 1100							
R.C. TAPPING FEES	07364 1110							
M.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130			845.64	845.64			
MISCELLANEOUS REVENUE	07380 1000			424.36	424.36			
TRANSFER FROM GENERAL ACCT	07392 0100							
TRANSFER FROM SEWER OPERATING	07392 0500	311,118	155,559	218,481.30	62,922.30		3,987.50	3,987.50
TRANSFER FROM SEWER CAP RESV	07392 0501	357,000						
TRANSFER-ANNUAL CAP. RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900			17,802.47	17,802.47		102.25	102.25
<b>TOTAL REVENUE</b>		<b>700,425</b>	<b>155,559</b>	<b>266,518.01</b>	<b>110,959.01</b>		<b>33,153.86</b>	<b>33,153.86</b>
<b>EXPENSES</b>								
ADMINISTRATIVE WAGES	07424 1400	32,000	16,000	15,175.18	824.82			
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000	2,262	1,508	634.00	874.00	188		188.00
MUNIC. AUTH. - AUDITING	07424 3110	9,663	9,663	9,650.00	13.00			
ENGINEERING SERVICES	07424 3130	70,000	46,666	31,191.50	15,474.50	5,833	1,534.50	4,298.50
LEGAL SERVICES	07424 3140	8,000	5,340	2,920.00	2,420.00	670	220.00	450.00
W.G. C.C. STP-UPGRADE	07424 7400							
MANHOLE COVER REPLACEMENTS	07424 7405							
C.C. CAPITAL - METERS	07424 7410							
C.C. CAPITAL- COLLECTION	07424 7420							
C.C. CAPITAL- INTERCEPTOR	07424 7430							
CAPITAL PROJ.-ENGINEERING	07424 7431							
R.C. CAPITAL-STP	07424 7440			15,776.22	(15,776.22)			
R.C. CAPITAL - COLLECTION	07424 7450							
R.C.-CAP. PROJ.-ENGINEER	07424 7451							
CAP. REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
HERSHEY MILL STATION - ENGINEER	07426 1000			4,986.25	(4,986.25)			
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
TALLMADGE DRIVE	07426 3000			102,660.00	(102,660.00)			

EAST GOSHEN TOWNSHIP  
Other Funds  
August 2019  
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
RESERVOIR PUMP STATION - ENGINEER	07428 1000							
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
RELINING	07429 1500	130,000	65,000		65,000.00			
BARKWAY PUMP STATION CAPITAL	07429 1501	67,000	33,500	59,302.71	(25,802.71)			
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503	125,000	62,500		62,500.00			
HUNT CO PUMP STATION CAPITAL	07429 1504	87,000	43,500		43,500.00			
RCSTP CAPITAL	07429 1505	169,500	84,750	979.50	83,770.50		102.25	(102.25)
ASBESTOS CONCRETE ENGINEERING	07429 3130							
DIVERSION PROJ.- LEGAL	07429 3166							
WEST GOSHEN CAPITAL	07429 6100							
M.C.-DVRFA-DEBT SERVICE	07471 1000							
M.A.-R.C. DEBT SERVICE	07471 1010							
DVRFA PUMPING STATIONS - PRINCIPAL	07471 2000							
M.C.-DVRFA-INTEREST PAYM	07472 1000							
M.A.-R.C. INTEREST	07472 1010							
DVRFA PUMPING STATIONS - INTEREST	07472 2000							
TRANSFER TO GENERAL FUND	07492 0100							
TRANSFER TO SEW.OPERATING	07492 0500							
TRF TO SEWER SINKING FUND	07492 0550							
TRANSFER TO AUTHORITY CAP FUND	07492 0990							
TOTAL EXPENSES		700,425	368,427	243,275.36	125,151.64	6,691	1,856.75	4,834.25
NET RESULT FROM OPERATIONS			(212,868)	23,242.65	236,110.65	(6,691)	31,297.11	37,988.11

2019 YTD Municipal Authority Transactions through August 31st

Account #	Description	Per	Debits	Credits	Date	Name	Description	Description 3
07341-1000	BEGINNING BALANCE							
07341-1000	INTEREST EARNINGS	1901	15	0	1/4/2019	REIMBURSE S/R FOR DEC.2018	BANK FEES	7100.1035
07341-1000	INTEREST EARNINGS	1901	0	1.06	2/4/2019	INTEREST EARNED JANUARY 2019		
07341-1000	INTEREST EARNINGS	1902	15	0	2/4/2019	REIMBURSE S/R FOR JANUARY 2019	BANK FEES	7100.1035
07341-1000	INTEREST EARNINGS	1902	0	0.66	3/4/2019	INTEREST EARNED FEB.2019		
07341-1000	INTEREST EARNINGS	1903	0	0.62	3/31/2019	INTEREST EARNED MARCH 2019	BANK FEES	7100.1035
07341-1000	INTEREST EARNINGS	1904	15	0	4/3/2019	REIMBURSE S/R FOR MARCH 2019		
07341-1000	INTEREST EARNINGS	1904	0	0.64	4/30/2019	INTEREST EARNED APRIL 2019	BANK FEES	7100.1035
07341-1000	INTEREST EARNINGS	1905	15	0	5/3/2019	REIMBURSE S/R FOR APRIL 2019	BANK FEES	
07341-1000	INTEREST EARNINGS	1905	15	0	5/6/2019	REIMBURSE S/R FOR FEB.2019	BANK FEES	
07341-1000	INTEREST EARNINGS	1905	0	0.66	6/4/2019	INTEREST EARNED MAY 2019 07	FUND	
07341-1000	INTEREST EARNINGS	1906	15	0	6/4/2019	REIMBURSE S/R FOR MAY 2019	BANK FEES	
07341-1000	INTEREST EARNINGS	1906	0	0.86	6/30/2019	INTEREST EARNED JUNE 2019 07	FUND	
07341-1000	INTEREST EARNINGS	1907	15	0	7/1/2019	REIMBURSE S/R FOR BANK FEES		Jun-19
07341-1000	INTEREST EARNINGS	1907	0	0.63	7/31/2019	INTEREST EARNED JULY 2019		7100.1035
07341-1000	INTEREST EARNINGS	1908	15	0	8/2/2019	REIMBURSE S/R FOR JULY 2019	BANK FEES	
07341-1000	INTEREST EARNINGS	1908	0	1.11	9/3/2019	INTEREST EARNED AUGUST 2019		7100.1035
07341-1000	INTEREST EARNINGS	1909	15	0	9/3/2019	REIMBURSE S/R FOR AUGUST 2019	BANK FEES	
07354-0400	BEGINNING BALANCE							
07354-0400	DCED GRANT	1908	0	29078	8/9/2019	WATER & SEWER GRANT	DCED GRANT	
07364-1130	BEGINNING BALANCE							
07364-1130	CONNECTION FEES - SEWER	1901	0	423	1/30/2019	STOFFLET, MICHAEL		
07364-1130	CONNECTION FEES - SEWER	1902	0	423	2/11/2019	JACOBS, ROBERT & CHERYL		
07364-1130	CONNECTION FEES - SEWER	1902	0	423	2/19/2019	GEORGE SMITH & CHRISTINA CONLE		
07364-1130	CONNECTION FEES - SEWER	1902	141.12	0	2/1/2019	ANNUAL PINE ROCK - INTEREST	PMT - STOFFLET	
07364-1130	CONNECTION FEES - SEWER	1902	141.12	0	2/11/2019	ANNUAL PINE ROCK INTEREST PMT	JACOBS	
07364-1130	CONNECTION FEES - SEWER	1902	141.12	0	2/19/2019	ANNUAL PINE ROCK INSTALLMENT	RC210	
07380-1000	BEGINNING BALANCE							
07380-1000	MISCELLANEOUS REVENUE	1902	0	141.12	2/1/2019	ANNUAL PINE ROCK - INTEREST	PMT - STOFFLET	
07380-1000	MISCELLANEOUS REVENUE	1902	0	141.12	2/11/2019	ANNUAL PINE ROCK INTEREST PMT	JACOBS	
07380-1000	MISCELLANEOUS REVENUE	1902	0	141.12	2/19/2019	ANNUAL PINE ROCK INSTALLMENT	RC210	
07380-1000	MISCELLANEOUS REVENUE	1902	0	1	2/19/2019	SALE OF GENERATOR TO BEALE TWP	MISCELLANEOUS REVENUE	
07392-0500	BEGINNING BALANCE							
07392-0500	TRANSFER FROM SEWER OPER/	1901	0	57399.61	1/15/2019	XFER FR: SEWER TO MA 1/15/19		
07392-0500	TRANSFER FROM SEWER OPER/	1902	0	34587.6	2/15/2019	XFER FROM SEWER 05 TO MA 07		
07392-0500	TRANSFER FROM SEWER OPER/	1903	0	12508.88	3/14/2019	XFER \$ FROM 05 TO MA 07 TO	COVER EXPENSES	
07392-0500	TRANSFER FROM SEWER OPER/	1904	0	38312.19	4/10/2019	XFER TO 07 FROM 05 4/10/19		
07392-0500	TRANSFER FROM SEWER OPER/	1905	0	8789.27	5/16/2019	XFER \$ FROM 05100.1030 TO MA		7100.1035
07392-0500	TRANSFER FROM SEWER OPER/	1906	0	58265	6/17/2019	XFER \$ FROM SEWER TO MA		
07392-0500	TRANSFER FROM SEWER OPER/	1907	0	4631.25	7/16/2019	XFER \$ FROM SEWER TO MA		7/16/2019
07392-0500	TRANSFER FROM SEWER OPER/	1908	0	3987.5	8/13/2019	XFER \$ FROM 05100.1030 & 09100	.1035 TO MA 07100.1035	
07392-0900	BEGINNING BALANCE							
07392-0900	TRANSFER FROM SEWER CAP R	1901	0	12132.22	1/15/2019	XFER FROM SEWER SINKING TO MA		1/15/2019
07392-0900	TRANSFER FROM SEWER CAP R	1902	0	2161	2/15/2019	XFER FROM SEWER CAPITAL 09 TO	MA 07	
07392-0900	TRANSFER FROM SEWER CAP R	1903	0	1729.75	3/14/2019	XFER \$ FROM SEWER SINKING TO	MA 07 TO COVER EXPENSES	
07392-0900	TRANSFER FROM SEWER CAP R	1905	0	37.75	5/16/2019	XFER \$ TO MA 7100.1035 FROM		9100.1035
07392-0900	TRANSFER FROM SEWER CAP R	1906	0	305.5	6/17/2019	XFER \$ FR: SEWER SINKING TO MA		
07392-0900	TRANSFER FROM SEWER CAP R	1907	0	1334	7/16/2019	XFER FROM SEWER SINKING TO MA		7/16/2019
07392-0900	TRANSFER FROM SEWER CAP R	1908	0	102.25	8/13/2019	XFER \$ FROM 05100.1030 & 09100	.1035 TO MA 07100.1035	
07424-1400	BEGINNING BALANCE							



07424-1400	ADMINISTRATIVE WAGES	1903	7587.59	0 3/25/2019	EAST GOSHEN TOWNSHIP - GENERAL	QTR.1-2019 REIMBURSEMENT - MA	
07424-1400	ADMINISTRATIVE WAGES	1906	7587.59	0 6/28/2019	EAST GOSHEN TOWNSHIP - GENERAL	QTR.2 2019 REIMBURSEMENT - MA	
07424-3000	BEGINNING BALANCE						
07424-3000	MISCELLANEOUS EXPENSE	1901	8	0 1/15/2019	PMAA	PA MUNICIPAL AUTH.- PROUD HISTORY	" - BRIGHT F
07424-3000	MISCELLANEOUS EXPENSE	1902	8	0 2/14/2019	YAHRAES, JOHN E.	REIMBURSEMENT - PROUD HISTORY...	" PUBLICATION
07424-3000	MISCELLANEOUS EXPENSE	1902	-8	0 2/14/2019	YAHRAES, JOHN E.	VOID CK. 3148	
07424-3000	MISCELLANEOUS EXPENSE	1905	626	0 5/16/2019	DELAWARE RIVER BASIN COMMISSION	ANNUAL FEE D-2000-030 CP WASTE	WATER DIS
07424-3110	BEGINNING BALANCE						
07424-3110	MUNIC.AUTH.-AUDITING	1903	7007	0 3/25/2019	MAILLIE FALCONIERO & CO.	2018 FINANCIAL STMT. - MUNICIPAL	AUTHORITY
07424-3110	MUNIC.AUTH.-AUDITING	1905	2643	0 5/20/2019	MAILLIE FALCONIERO & CO.	EXAM. MUNIC.AUTH. 2018 FINANCIAL	STATEMENT
07424-3130	BEGINNING BALANCE						
07424-3130	ENGINEERING SERVICES	1901	4864	0 1/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 12/30/18 2018 I&I SUPPT.	
07424-3130	ENGINEERING SERVICES	1902	5170	0 2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 CHAP.94	
07424-3130	ENGINEERING SERVICES	1903	6055	0 3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 2019 GEN.SERV	
07424-3130	ENGINEERING SERVICES	1904	2875.25	0 4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 2019 GENERAL	
07424-3130	ENGINEERING SERVICES	1905	5596	0 5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 2019 GEN.SERV	
07424-3130	ENGINEERING SERVICES	1906	925.5	0 6/17/2019	PENNONI ASSOCIATES INC.	SERV.THRU 5/12/19 2019 GEN.SERVICE	
07424-3130	ENGINEERING SERVICES	1907	4171.25	0 7/16/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 6/17/19 - 2019 I&I	SUPPORT
07424-3130	ENGINEERING SERVICES	1908	1534.5	0 8/13/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 7/14/19 2019 GEN.SERV.	
07424-3140	BEGINNING BALANCE						
07424-3140	LEGAL SERVICES	1901	440	0 1/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. 12/7-12/28/18 GEN.AUTH.	
07424-3140	LEGAL SERVICES	1902	620	0 2/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 1/2-1/14/19 GEN.AUTH	
07424-3140	LEGAL SERVICES	1903	260	0 3/14/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICES - FEB.2019 GEN.AUTH.	
07424-3140	LEGAL SERVICES	1904	260	0 4/18/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE MARCH 2019 - GEN.AUTH	
07424-3140	LEGAL SERVICES	1905	400	0 5/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - 4/2019 GEN.SERVICE	
07424-3140	LEGAL SERVICES	1907	460	0 7/16/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 5/13/19	
07424-3140	LEGAL SERVICES	1907	260	0 7/22/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 6/10/19 GEN.AUTHORITY	
07424-3140	LEGAL SERVICES	1908	220	0 8/13/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - JULY 2019 GEN.AUTH.	
07424-7440	BEGINNING BALANCE						
07424-7440	R.C. CAPITAL-STP	1901	11830.72	0 1/15/2019	IWC ENVIRONMENTAL	SCREEN REPLACEMENT	
07424-7440	R.C. CAPITAL-STP	1905	1972.5	0 5/20/2019	HORN PLUMBING & HEATING INC	50% DEPOSIT - MINI SPLIT HVAC UNIT	
07424-7440	R.C. CAPITAL-STP	1907	1973	0 7/3/2019	HORN PLUMBING & HEATING INC	FINAL 50% MINI SPLIT HVAC UNIT	
07426-1000	BEGINNING BALANCE						
07426-1000	HERSHEY MILL STATION - ENGIN	1901	301.5	0 1/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 12/30/18 HERSHEY MILL	GENERATOR
07426-1000	HERSHEY MILL STATION - ENGIN	1902	2161	0 2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU: 1/27/19 H.M.GENERATOR	
07426-1000	HERSHEY MILL STATION - ENGIN	1903	1729.75	0 3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 HM GENERATOR	
07426-1000	HERSHEY MILL STATION - ENGIN	1905	31.75	0 5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 HM GENERATOR	
07426-1000	HERSHEY MILL STATION - ENGIN	1906	305.5	0 6/17/2019	PENNONI ASSOCIATES INC.	SERV. THRU 5/12/19 H.M. GENERATOR	
07426-1000	HERSHEY MILL STATION - ENGIN	1907	456.75	0 7/16/2019	PENNONI ASSOCIATES INC.	SERV. THRU 6/17/19 - H.M.GENERATOR	
07426-3000	BEGINNING BALANCE						
07426-3000	TALLMADGE DRIVE	1901	42431.4	0 1/15/2019	IRON EAGLE EXCAVATING INC.	EXCAVATING - TALLMADGE DR. SEWER	REPLACEMENT
07426-3000	TALLMADGE DRIVE	1901	9082	0 1/15/2019	PENNONI ASSOCIATES INC.	SERV.THRU 12/30/18 TALLMADGE DR.	
07426-3000	TALLMADGE DRIVE	1902	4678.25	0 2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 TALLMADGE	
07426-3000	TALLMADGE DRIVE	1902	21326.4	0 2/15/2019	IRON EAGLE EXCAVATING INC.	SANITARY SEWER BYPASS PUMPING & FLO	CONTROL, SEWER LATERAL & GRAVITY PIPE
07426-3000	TALLMADGE DRIVE	1903	2949.25	0 3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 TALLMADGE SEWER	
07426-3000	TALLMADGE DRIVE	1904	20403.7	0 4/10/2019	IRON EAGLE EXCAVATING INC.	EXCAVATING - TALLMADGE DR. SEWER	REPLACEMENT
07426-3000	TALLMADGE DRIVE	1904	141.25	0 4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 TALLMADGE	SEWER
07426-3000	TALLMADGE DRIVE	1905	1647.75	0 5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 TALLMADGE DR.	
07429-1501	BEGINNING BALANCE						
07429-1501	BARKWAY PUMP STATION CAPI	1901	582.21	0 1/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 12/30/18 BARKWAY PS MM	
07429-1501	BARKWAY PUMP STATION CAPI	1902	2793.45	0 2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 BARKWAY MUF MON	
07429-1501	BARKWAY PUMP STATION CAPI	1903	2386.13	0 3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 BARKWAY PS	

07429-1501	BARKWAY PUMP STATION CAPI	1904	297.4	0	4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 BARKWAY PS	MUFFIN M
07429-1501	BARKWAY PUMP STATION CAPI	1905	519.52	0	5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 BARKWAY PS MUF	
07429-1501	BARKWAY PUMP STATION CAPI	1906	52724	0	6/17/2019	JWC ENVIRONMENTAL	MUFFIN MONSTER	
07429-1505	BEGINNING BALANCE							
07429-1505	RCSTP CAPITAL	1907	877.25	0	7/16/2019	PENNONI ASSOCIATES INC.	SERV.THRU 6/17/19 - RCSTP GENERATOR	
07429-1505	RCSTP CAPITAL	1908	102.25	0	8/13/2019	PENNONI ASSOCIATES INC.	SERV.THRU 7/14/19 RCSTP GENERATOR	REPLACEM

# 2019-2023 Capital Improvement Program



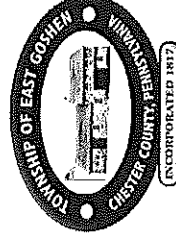
## Sewer & Municipal Authority

(Except West Goshen Upgrades)

Category	2019	2020	2021	2022	2023
Sewer Camera with Trailer (R & Sewer Cap Resv Fund)	\$100,000	-	-	-	-
Hershey's Mill P/S Generator (R)	\$125,000	-	-	-	-
Hunt Country P/S Mag Meter (R)	\$15,000	-	-	-	-
Hunt Country Muffin Monster (R)	\$67,000	-	-	-	-
Ridley Creek STP Generator (R)	\$150,000	-	-	-	-
Relining AC sewer lines and brick man holes (N)	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
Barkway P/S Muffin Monster (N & grants/Whitelands)	\$67,000	-	-	-	-
Hunt Country P/S Bypass Pump (N)	\$5,000	-	-	-	-
Ridley Creek Flow Meter (N)	\$12,000	\$12,000	-	-	-
Ridley Creek STP Air Spacer (N)	\$7,500	-	-	-	-
Ridley Creek Caustic Soda Project (N)	-	\$160,000	-	-	-
Ridley Creek SBR Tank Lining (N)	-	-	\$61,000	\$61,000	\$61,000
<b>Total Sewer Capital</b>	<b>\$678,500</b>	<b>\$302,000</b>	<b>\$191,000</b>	<b>\$191,000</b>	<b>\$191,000</b>
Municipal Authority	\$578,500	\$302,000	\$191,000	\$191,000	\$191,000
Sewer Capital Reserve Fund	\$100,000	-	-	-	-

(R=replacement; N=new)

11/13/18



# 2019-2023 Capital Improvement Program



## Sewer & Municipal Authority

(Except West Goshen Upgrades)

### Justification for New Assets

- **Relining brick manholes and asbestos cement sewer lines** was identified three years ago as a long term maintenance priority for pre-mid-1970s sewer assets, which are at the end of their useful life.
- **Muffin Monster and Safety-Related improvements at Barkway Pump Station** will address safety and pump efficiency concerns at this pump station, which has a 20 foot drop from ground level. About 60% of these costs are borne by East and West Whiteland. In addition, the Municipal Authority received a DCED grant for \$32,307 for this project.
- **New flow meter** along Line Road connecting to the Ridley Creek STP will allow us to measure I&I in that system. Currently, the only RC flow meters are at the plant.
- **Sequence Batch Reactor Tank Lining** (4 total, 2021-2024) project reflects recoating hairline fractures in tanks from water line to top of tanks. These costs are substantially lower than was anticipated last year, as there is no damage below the water line.
- **Ridley Creek STP Air Splitter** for control room to prevent overheating & equipment damage
- **Ridley Creek Caustic Soda project** to improve worker safety and efficiency at the plant. Currently, caustic soda is manually poured into tanks.
- **Hunt Country Pump Station Bypass Pump Connection** needed to allow for bypass pumping.

## Sue Smith

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**From:** Michael Ellis <MEllis@Pennoni.com>  
**Sent:** Friday, September 6, 2019 10:25 AM  
**To:** Sue Smith; Mark Miller; Rick Smith; Jon Altshul  
**Cc:** Ruth Kiefer; Nathan M. Cline  
**Subject:** Engineers Report  
**Attachments:** Engineers Report 2019-09-06.pdf; Engineers Report 2019-09-06.docx

Hi All,

Our Engineer's Report is attached in both PDF and Word formats. Invoices to follow.

Mark and I discussed including placeholder for the following items under Old Business if possible:

- Purchase RCSTP replacement generator
- Purchase HMPS replacement generator (conditional approval subject to floodplain analysis not changing the generator specs)
- Purchase 2 permanent metering manholes and meters for the Ridley Creek Collection System

The generator vendor had committed to provide formal quotes for the RCSTP and HMPS replacement generators by Wednesday, but we have not received yet. I notified them that we need them today. Upon receipt, I can forward them via email to the Township and MA members.

We expected the updated permanent metering quotes by now also, but the vendor has requested a conference call later this morning to discuss some questions they have. I am hopeful they will provide updated quotes by Monday morning that I can forward to the Township and MA members.

Mike

### Michael Ellis, PE

Municipal Division Manager

### Pennoni

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

FYI

September 5, 2019

Dear Property Owner:

The purpose of this letter is to inform you that the East Goshen Township Board of Supervisors will consider a Deed of Consolidation for two parcels owned by William and Evelyn Howard at 250 Line Rd. Malvern, PA 19355, at their meeting on September 17, 2019. The property owners are requesting approval to consolidate two parcels they own (UPI 53-5-16 and UPI 53-5-16.1). One of the parcels is improved with a single family home the other is a vacant parcel with no improvements.

Pursuant to Township policy, property owners within 1000 feet of the subject property are notified when requests like this are received. **The meeting date when this matter will be discussed and possibly approved is listed below and subject to change without further written notice:**

**September 17, 2019 – Board of Supervisors (7:00 PM)**

This meeting will be held at the Township Administration Building and is open to the public. The Application is available for review at the Township building during normal business hours. If any person who wishes to attend the hearing has a disability and/or requires an auxiliary aid, service or other accommodation to observe or participate in the proceedings, he or she should contact East Goshen Township at 610-692-7171 to discuss how those needs may be accommodated.

Sincerely,



Mark A. Gordon  
Township Zoning Officer

Cc: Sally Slook, Township Manager, Willistown Township

*Would you like more information about the latest news in the Township and surrounding area? East Goshen Township and Chester County offer two valuable resources to stay informed about important local issues. East Goshen communicates information by email about all Township news through Constant Contact. To sign up, go to [www.eastgoshen.org](http://www.eastgoshen.org), and click the "E-notification & Emergency Alert" button on the left side of the homepage. Chester County offers an emergency notification system called ReadyChesco, which notifies residents about public safety emergencies in the area via text, email and cell phone call. Signing up is a great way to keep you and your loved ones informed and safe during emergencies. Visit [www.readychesco.org](http://www.readychesco.org) to sign up today!*



FYI

CARLISLE

# DEP issues notice about fish kill

Borough receives notice of violation in connection with contractor

TAMMIE GITT  
The Sentinel

Styrene found in LeTort Spring Run in the area of a July 31 fish kill in North Middleton Township has raised questions about the safety of the process being used to rehabilitate sewer pipes in the Carlisle area.



A notice of violation issued to the Borough of Carlisle by the Pennsylvania Department of Environmental Protection as a result of its investigation into the fish kill that happened near the Carlisle Barracks shows that styrene, a chemical, was found in three of five water samples taken from locations near the fish kill.

According to the notice, a contractor for the borough worked at a site about 50 feet upstream from the observed fish kill in the 600 block of Letort

**"Be assured, that the borough will plan to issue a public statement once the investigation has concluded, however it is too premature to do so at this time."**

Carlisle Borough Manager  
Susan Armstrong

Lane in a channelized portion of the LeTort Spring Run to Post Road. The contractor used a process known as cure-in-place pipe (CIPP) installation as part of the rehabilitation project.

Carlisle Borough awarded a \$8,245,274 contract for the LeTort Interceptor Rehabilitation Project, which rehabilitates sewer pipes in that area, to Ric-Man Construction Florida Inc. of Deerfield Beach, Florida in July 2018.

## Process

According to the CIPP Solutions Group, which recently

Please see DEP, Page A2

## DEP

From A1

completed a three-year study into the process; CIPP involves the chemical manufacture of new plastic pipe inside an existing pipe.

The process requires the handling of raw chemicals onsite but has the advantage of creating new plastic pipe without digging up the old one and it can be less expensive than other areas, according to the group's website.

In addition, the DEP investigation found an "unpermitted discharge of raw sewage" coming from a portable pump house that flowed onto the ground and into a channelized portion of LeTort Spring Run. The pump station was also used by the contractors.

According to the DEP notice to Carlisle, a release of pollution subjects the borough to "appropriate enforcement action."

The borough has been asked to submit a written report of its own investigation into the incident, including the circumstances leading to the incident and the borough's role in the oversight of the project within 15 days.

## Borough response

Carlisle Borough Manager Susan Armstrong said the borough continues to work with the DEP on the investigation of the incident and to provide the information requested.

"Be assured, that the Borough will plan to issue a public statement once the investigation has concluded, however it is too premature to do so at this time," she wrote in an email.

The notice is not a final

action from the DEP, which could yet determine if an enforcement action is appropriate.

The Pennsylvania Fish and Boat Commission is also investigating the incident.

"At this point, the PFBC and DEP investigations into the incident are separate and ours remains ongoing," said Mike Parker, spokesman for the Pennsylvania Fish and Boat Commission, in an email to The Sentinel.

That styrene was found in close proximity to a site using the CIPP process is not surprising to Andrew J. Whelton, professor at Purdue University's Lyles School of Civil Engineering and Division of Environmental and Ecological Engineering. Whelton is a member of the team producing the study on CIPP.

"It's pretty typical that chemicals are released into the environment during this activity," he said, noting that styrene is not the only chemical used or released.

Chemical release is not the only concern, Whelton said. If the contractor cut the pipe after they created it, the particles could get into the air, fall back into the stream and sink to the bottom.

It can take time for the stream to recover from a contamination. Whelton said a site his group tested in New York recently had contamination above state water quality standards after 22 days.

"It's not lining a pipe. It's manufacturing plastic outdoors with little environmental controls," Whelton said.

Email Tammie at tgitt@cumberlandlink.com. Follow her on Twitter @TammieGitt.

FYI

Pick