

EAST GOSHEN MUNICIPAL AUTHORITY

July 9, 2018

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. June 11, 2018

5. APPROVAL OF INVOICES

Pennoni Invoice #808974	\$	581.48
Pennoni Invoice #808975	\$	327.75
Pennoni Invoice #808976	\$	4,869.00
Pennoni Invoice #808977	\$	30.75
Gawthrop Greenwood Invoice #196673	\$	440.00

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. June Financial Report
- b. Analysis of Pennoni Engineering Budget

8. OLD BUSINESS

- a.

9. GOALS

- a. Continue to monitor the upgrades at West Goshen Sewer Plant. Jack and Phil have been attending meetings.de
- b. Continue to implement the I&I Plan – 3-8-2018 completed

- c. Submit articles for the newsletter - none

10. NEW BUSINESS

- a. Discuss the preliminary proposed CIP
- b. Approval for the purchase to replace modems at metering stations

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

14. PUBLIC COMMENT

15. ADJOURNMENT

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

July 6, 2018

To: Municipal Authority

From: Mark Miller

Re: June 2018 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 782,000 gallons per day. No problems to report.

Meters: The meters are being read on a daily basis, we had to clean the meter pits as part of our maintenance.

C.C. Collection: The pump stations were checked on a daily basis. There were no problems at any of the pump stations for the month of June. We received a call for a clogged lateral at 612 Marydell Dr. We tried to plunge the line but that was unsuccessful so we tried to jet the lateral; after several attempts we cleared the lateral. Aqua Water will be replacing the water lines in Marydell, so we cleaned and televised the lines and physically marked the laterals. We cleaned and televised 6500lf of pipe.

R.C. Collection: The pump station was visited on a daily basis; the wet well was cleaned twice this month due to excessive grease build up. We cleaned and televised the sewer lines in the Hadleigh Development in preparation of the road paving.

Ridley Creek: Blower B1B failed and has been removed and taken to Deckens for repair. Scott asked me to get the influent meter checked as it was reading high. John Laidly was notified and came out; removed the probe and placed it back in service. John recommended that we plug the influent line so he can calibrate the meter. I ordered a plug in the event he decides to plug the line.

Lateral Repairs: We received 11 requests for sewer caps between both systems.

Alarms: We responded to 25 alarms for June which were all various issues.

PA One Calls: We received 74 PA One calls June.

EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
July 5, 2018

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study – We are analyzing study data in coordination with Big Fish. We anticipate a summary report will be issued prior to the August MA meeting.

RCSTP and Pump Stations' O&M Manual

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

Supplee Valley Pipe Lining

- SWERP completed lining of all contracted sewers on February 21. They subsequently installed supplemental lateral saddle liners in 3 of 6 locations in April that were approved via change order. One of the lateral locations cannot be lined or grouted due to the severe angle of connection between the lateral and the main; however, this location only had a very minor infiltration leak. We are continuing to coordinate with the PW Department and SWERP to evaluate the feasibility of installing saddles in the other two difficult-to-access laterals as well as the one spot repair lateral liner that was approved via change order. Lastly, the contractor still needs to perform injection grouting in two manholes. Once we resolve the accessibility, we will pursue a schedule from the contractor to complete the work. *No update since our last report. Accessibility has been resolved, but SWERP has not provided a schedule to complete the work.*

Barkway Pump Station Grinder

- We met with Mark Miller on June 5 to review our design plans. We are re-evaluating the feasibility of coring the wet well to run the hydraulic lines rather than entering through the top of the wet well steel hatch. However, a site investigation is required to accurately determine coring feasibility due to inconsistencies in how the foundation is shown on the original pump station design plans. The design plans will be finalized thereafter. *No update since our last report.*

Ashbridge Pump Station Force Main

- Test pits will be performed to identify backfill conditions along Manley Road with one test pit on Edith Road, as recommended by the Municipal Authority, when weather permits. *No update since our last report.*

Tallmadge Drive Sewer Main Replacement

- We revised the bid document for re-bid including insurance changes as discussed at the June MA meeting. The first advertisement will be issued on July 9, and the following re-bid schedule is proposed:
 - Bids Due = August 7
 - Award = August 13

- Contract Execution = late August
- Construction = Anytime between late August and December 15 (must be completed within 20 consecutive days)

I&I Support and Reporting

- We intend to analyze meter data and submit the next semi-annual I&I report following completion of the Supplee Valley pipe lining project so that the impact of that project can be assessed. That report will likely be issued in the July-August timeframe. We propose to make a summary Powerpoint presentation at a MA meeting immediately thereafter. *No update since our last report.*

New Connections

- We reviewed two revised plan submissions for a proposed residential grinder pump sewer connection at 1506 Meadowbrook Lane.

West Goshen Sewer System Consultation

- No activity since last report.



**RCSTP Monthly Operations
Report:
June 2018**

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted effluent discharge limitations for during the month of May 2018. Discharge to the Applebrook storm water lagoon continued during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for the May 2018 DMR.

Table 1

May 2018 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -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	20	125	10	131	2.5	44	0.5	3	200	1,000
	0.75	40		42							
Sample Date											
May 1, 2018	0.210	4.3	7.5	3	5.3	0.251	0.44	0.31	0.54	1	0.0000
May 4, 2018	0.210			6	10.5						
May 8, 2018	0.209	2.0	3.5	2	3.5	0.100	0.17	0.17	0.30	2	0.3010
May 15, 2018	0.241	5.0	10.0	5	10.0	0.100	0.20	0.23	0.46	2	0.3010
May 18, 2018	0.243			6	12.2						
May 22, 2018	0.278	4.2	9.7	4	9.3	0.176	0.41	0.20	0.46	1	0.0000
May 29, 2018	0.207	5.6	9.7	3	5.2	0.100	0.41	0.19	0.33	1	0.0000
Average	0.228	4.2	8.2	4	8.4	0.119	0.30	0.20	0.39	2	0.1505
Minimum	0.207	2.0	3.5	2	3.5	0.100	0.17	0.17	0.30	1	0.0000
Maximum	0.278	5.6	10.0	6	12.2	0.251	0.44	0.31	0.54	2	0.3010

The total phosphorus monthly average was reported as 0.20 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.17 to 0.31 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.119 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.251 mg/L. The total suspended



**RCSTP Monthly Operations
Report:
June 2018**

solids (TSS) monthly concentration was reported as 4 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 6 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 2 illustrates the final effluent composite sample data reported for the May 2018 DMR.

Table 2

May 2018 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
		40		42							
May 1, 2018	0.1426	4.3	5.1	3	3.6	0.251	0.299	0.31	0.37	1	0.0000
May 4, 2018	0.1490			6	7.5						
May 8, 2018	0.1423	2.0	2.4	2	2.4	0.100	0.119	0.17	0.20	2	0.3010
May 15, 2018	0.1367	5.0	5.7	5	5.7	0.100	0.114	0.23	0.26	2	0.3010
May 18, 2018	0.1131			6	5.7						
May 22, 2018	0.1388	4.2	4.9	4	4.6	0.176	0.204	0.20	0.23	1	0.0000
May 29, 2018	0.1353	5.6	6.3	3	3.4	0.100	0.113	0.19	0.21	1	0.0000
Average	0.1368	4.2	4.9	4	4.7	0.145	0.170	0.22	0.26	1	0.1204
Minimum	0.1131	2.0	2.4	2	2.4	0.100	0.113	0.17	0.20	1	0.0000
Maximum	0.1490	5.6	6.3	6	7.5	0.251	0.299	0.31	0.37	2	0.3010

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

Table 3 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during May 2018.



**RCSTP Monthly Operations
Report:
June 2018**

Table 3

May 2018 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -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											
May 1, 2018	0.560	175	818	262	1,224	32.1	150	33.5	157	5.6	26.2
May 8, 2018	0.474	114		69		29.1		49.8		3.8	
May 15, 2018	0.483	135	631	116	542	28.2	114	33.1	133	4.4	20.6
May 22, 2018	0.536	209	977	264	1,234	30.0	134	25.8	115	5.9	27.6
May 29, 2018	0.452	345	1,612	392	1,832	31.4	118	39.3	148	7.1	33.2
Average	0.501	196	1,009	221	1208	30.2	129	36.3	138	5.4	26.9
Minimum	0.452	114	631	69	542	28.2	114	25.8	115	3.8	20.6
Maximum	0.560	345	1,612	392	1832	32.1	150	49.8	157	7.1	33.2

Table 4 presents the available Outfall 001 final effluent data for the month of June 2018. Continued maintenance activities of cleaning the alum static mixer injector, flushing of the alum chemical piping to the SBRs and weekly draining and cleaning of the disc filters. The alum feed to the SBRs was frequently increased to improve the total phosphorus removal.



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Table 4

June 2018 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -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	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
June 5, 2018	0.211	4.0	7.0	4	7.0	0.150	0.26	0.26	0.46	1	0.0000
June 12, 2018	0.232	4.2	8.1	3	5.8	0.299	0.58	0.32	0.62	1	0.0000
June 19, 2018	0.176	3.5	5.1	4	5.9	0.605	0.89	0.28	0.41	1	0.0000
June 22, 2018				2	0.0						
June 26, 2018				4	0.0			0.24	0.00		
June 28, 2018											
Average	0.206	3.9	6.6	3	2.9	0.452	0.73	0.28	0.34	1	0.0000
Minimum	0.176	3.5	5.1	2	0.0	0.150	0.26	0.24	0.00	1	0.0000
Maximum	0.232	4.2	8.1	4	7.0	0.605	0.89	0.32	0.62	1	0.0000

The facility is anticipated to achieve compliance with the discharge permit limitations during the month of June 2018. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

During June, the presence of foam conditions on the surface of the SBRs remained consistent at approximately 75% 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 within the SBRs, coupled with raising the food to mass ratios, the foam concentrations have decreased.

Table 5 presents the available June data for Outfall 002, Applebrook. The discharge limitations for Outfall 002 are anticipated to remain within compliance with the NPDES permit. Discharge to Applebrook, Outfall 002 was 4,343,728 gallons during June.



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Table 5

June 2018 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
		40		42							
June 5, 2018	0.1362	4.0	4.5	4	4.5	0.150	0.170	0.26	0.30	1	0.0000
June 12, 2018	0.1462	4.2	5.1	3	3.7	0.299	0.365	0.32	0.39	1	0.0000
June 19, 2018	0.1476	3.5	4.3	4	4.9	0.605	0.745	0.28	0.34	1	0.0000
June 22, 2018				2	0.0						
June 26, 2018				4	0.0			0.24	0.00		
June 28, 2018											
Average	0.1433	3.9	4.7	3	2.6	0.351	0.427	0.28	0.26	1	0.0000
Minimum	0.1362	3.5	4.3	2	0.0	0.150	0.170	0.24	0.00	1	0.0000
Maximum	0.1476	4.2	5.1	4	4.9	0.605	0.745	0.32	0.39	1	0.0000

Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during June 2018.

Table 6

June 2018 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -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											
June 5, 2018	0.476	124	492	174	691	28.9	115	28.0	111	3.3	13.1
June 12, 2018	0.699	115	457	54	214	33.8	197	40.3	235	4.8	19.1
June 19, 2018	0.515	211	838	103	409	38.3	165	36.0	155	4.8	19.1
June 26, 2018	0.537										
Average	0.557	150	596	110	438	33.7	159	34.8	167	4.3	17.1
Minimum	0.476	115	457	54	214	28.9	115	28.0	111	3.3	13.1
Maximum	0.699	211	838	174	691	38.3	197	40.3	235	4.8	19.1



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

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

Significant Rainfall

During June, there were eight (8) days when rainfall occurred. Six (6) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24-hour period as well as consecutive days of precipitation exceeding 0.5 inches of rainfall. A total of 2.12 inches of rainfall measured during the month. These events occurred on:

June 2 nd	0.12 inches
June 3 rd	0.61 inches
June 4 th	0.59 inches
<i>Three (3) consecutive days of rainfall for a total of 1.32 inches</i>	
June 11 th	>1.00 inch
June 28 th	0.53 inches

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

PA DEP

No activity

Solids Dewatering and Disposal:

June 2018	
Gallons of sludge dewatered	230,622
Number of dumpsters	4

**fifteen (15) days of centrifuge operation*



**RCSTP Monthly Operations
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June 2018**

Chemical Usage:

June 2018		
Chemical	Daily Average	Total Monthly
Soda Ash	295	9,000
Aluminum Sulfate solution	49.2	1,427
Polymer (centrifuge)	0.85	12.75

**Fifteen (15) days of centrifuge operation*

Flow data:

June 2018			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	16.492	549,737	722,150
Influent Wastewater to SBRs	13.489	499,643	602,240
Internal Recycle	Na	Na	Na
Treated Effluent to Disc Filters	13.446	448,213	602,880
Final Effluent Discharge	6.037	201,233	358,000
Applebrook Golf Course	4.343	144,791	172,832

The field flow meter recorded elevated flows as compared to the flow meter measuring flow to the SBRs on an average of 100,000 gpd. Periodic inspection of the flow meter (without confined space entry) has been initiated during June to visually check for debris on the flow meter resulting in flow measurement errors. The field flow meter was removed and recalibrated.

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned piping within SBR building

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters bi-weekly



Major Preventative Maintenance Activities

Centrifuge

Contacted Alfa Laval to exchange tool. No response as of 6/28/2018.

Blower B1B

This blower is on the blowers used to provide air to the sludge holding and final effluent post flow equalization tanks. Assistance was provided to the electricians to turn the blowers on for inspection of the wiring. The blower is planned for removal and sent out for repair or replacement.

SBR 1

In preparation for putting SBR 1 online, the following tasks were completed:

- Replaced a 20-foot section of the alum feed line that was cracked.
- Unclogged the alum feed line near the feed point of a clog. We used the snake that is on site.
- Checked the decant valves, and replaced one that would not close. (We have 2 working spares, and a 3rd that probably will work after it soaks for a couple of days.)
- Removed, cleaned, and replaced the air relief valves on the decanter log.
- Installed the new Hach Sc200 controller, and new Hach LDO probe. (The probe was air calibrated in the bag, and the analog output to the Siemens control panel was confirmed.)
- We set up the WAS check valve so that we can pump WAS from SBR#2 to SBR#1.

On June 27th, the tank equalization process was initiated during the morning by opening the Influent valve to both tanks. When SBR 1 and SBR 2 tank volumes have equalized, transfer of the remaining contents of SBR 2 began using the SBR 2 sludge pump. SBR 1 sludge pumped was removed from the resting flange to prevent the pump impeller from spinning backwards. The transfer was completed at approximately 9:00 PM. McGovern was on site on June 28th at 7:00 AM to



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begin the cleaning of the walls, floors and removal of the remaining contents. SBR 2 is ready for inspection and repairs.

SBR 3 is tentatively planned for removal on July 26th and SBR 4 on August 23rd.

Actuators for supplying Aluminum sulfate solution to the SBRs

We contacted the manufacturer of the Electric Valve Actuator on the alum feed system to the SBRs and have not received a response. There doesn't appear to be a difference in any of the part numbers between the new and old actuators. There is an internal difference in the number of cams on the motor shaft. There are two cams on the motor shaft with two micro-switches hanging above. These cams rotate with the shaft and activate the switches when the valve reaches the appropriate positions. There were an additional two cams and switches on the actuator that failed, however, they were removed and placed on one of the new replacement actuators. The new actuators only have two cams and two switches, while the alum valves in operation have four cams and switches. There might have been an add-on when they were originally ordered installed.

One actuator was repaired by swapping the capacitor out of the valve that Mark retrieved from the parts closet. It would be helpful if we could get four (4) new capacitors.

Recommended Projects

Summary

Recommend the installation of intake louvers, approximately floor to ceiling, on the wall where the blowers are located. On the opposite wall, installation of an exhaust fan. The configuration proposed would be like that of the blower room where the blowers for the SBRs are located.

Background

The blower room, where air is provided to the sludge holding and final effluent flow equalization tanks, has an internal temperature over 100 degrees Fahrenheit. Also located within the room are the disc filter feed pumps (dry mounted submersible pumps with cooling jackets), motor control panel for the blowers and an adjacent room housing motor control panel number 2, influent pump control panel and fine screen control panel. A small air conditioner is used to assist towards lowering the temperature in the small room where MCC no. 2 is located.

This excessive heat contributes to premature failure of the equipment.

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
June 11, 2018

The East Goshen Township Municipal Authority held their regular public meeting on Monday, June 11, 2018 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Jack Yahraes, Dana Pizarro, Kevin Cummings and Phil Mayer. Also in attendance were: Mark Miller (Director of Public Works), Jon Altshul (Asst. Township Manager), Stacey L. Fuller (attorney), Mike Ellis (Pennoni), Scott Towler (Plant Operator), and Walter Wujcik (Conservancy Board).

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park & Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&I – Inflow & 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

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

Chairman's Report

Phil attended the West Goshen meeting. On July 11 they had a sewer tank overflow during a storm. They have a phone system to notify but it didn't work. At the EPA meeting they agreed that \$75,000 in landscaping will be done. They still have to get Federal EPA approval. The \$12.5 M fine payment from Sunoco for the Mariner pipeline was set up for grants for the 85 municipalities along the route. West Goshen is submitting a grant request for the \$75,000. West Whiteland and Westtown agreements are not signed. Rates were discussed. Phil provided copies of the graph of quarterly rates for all townships.

Sewer Reports

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

Monthly Flows: The average daily flow to West Goshen was 771,000 gallons per day. No problems to report.

Meters: The meters are being read on a daily basis. No problems to report

C.C. Collection: The pump stations were checked on a daily basis. Routine maintenance was performed at each station. Franc Environmental was utilized to clean and vacuum the wet wells. The floats were pulled up and cleaned at all the pump stations and the plant.

R.C. Collection: The station was visited on a daily basis. We continue to have a build-up of rags in the basket.

1 R.C. Plant: Equipment and parts were dropped off for Scott's personnel to rebuild the
2 centrifuge. The meter seems to be working correctly. The filter feed pump was rebuilt and
3 reinstalled. .

4 Alarms: We responded to 10 alarms for May, which were all various issues.

5 PA One Calls: We received 68 PA One calls for May.

6 Lateral Repairs: We replaced 8 caps and found that 2 required pushing the stacks back into
7 the tee.

8 Note: Aqua PA has notified us that they will be replacing the water main in Marydell. We
9 will be cleaning and televising the lines and marking laterals as part of the PA One Call.

10 This way they will have accurate locations. We will mark the depth and location of each
11 lateral and main.

12 13 **2. Pennoni Engineer's Report for May**

14 Mike Ellis provided the following report.

15 **Invoices**

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

17 18 **Multi-Year Capital Planning**

19 We performed a field visit to the Hunt Country Pump Station and began to evaluate concepts
20 and budgetary costs for adding a Muffin Monster and flow meter to the station. We also performed
21 field visits to obtain information on the Hershey's Mill Pump Station emergency generator and the
22 RCSTP generators in order to evaluate concepts and budgetary costs for generator replacements. We
23 will provide concepts and budgetary costs prior to the July MA Meeting.

24 The following list of future sewer system capital improvement projects (previously discussed
25 at the November 2017 MA meeting) is updated to include the aforementioned projects (items 9-12
26 below), item #8 and some updates to other projects in italics:

- 27 1. Supplee Valley Sewer System Pipe Lining - *Nearly complete construction*
- 28 2. Barkway Pump Station Muffin Monster – *Submitted a grant application; planned to be*
29 *constructed in 2018 if the grant is awarded or budgeted for 2019 if it is not awarded.*
- 30 3. Ashbridge Pump Station Fore Main Rehabilitation
- 31 4. Tallmadge Drive Sewer Main Replacement – *See project update hereafter*
- 32 5. RCSTP SBR Tank Coatings – *Tentatively planning to coat one tank per year from 2021-*
33 *2014*
- 34 6. RCSTP Caustic Soda Treatment Change – *Tentatively planning to budget for 2020*
- 35 7. Waterview Sewer System Rehabilitation
- 36 8. Ridley Creek Collection System 3 Permanent Gravity Sewer Meters – Tentatively
37 budgeting for 2019.
- 38 9. Hunt Country Pump Station Muffin Monster – Consider budgeting for 2019
- 39 10. Hunt Country Pump Station Flow Meter – Consider budgeting for 2019
- 40 11. RCSTP Generator Replacement – Consider budgeting for 2019
- 41 12. Hershey's Mill Pump Station Generator Replacement – Consider budgeting for 2019

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

- 43 • Caustic soda pilot study – The trial began on February 28 and concluded on May 6. Analysis
44 of sampling data is ongoing and we are preparing a letter report of the results, potential

1 permanent caustic soda feed concept and capital cost estimate, and a cost benefit analysis of
2 caustic soda vs. soda ash.

- 3 • Dutchland is scheduled to re-coat the core holes in SBR#1 on June 8, 2018 so that the tank
4 can be put back into operation.

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

- 6 • We recommend the Manual be revisited in July-August 2018 to determine if updates are
7 needed and/or if new information has become available to incorporate.
8

9 **Supplee Valley Pipe Lining**

10 • SWERP completed lining of all contracted sewers on February 21. They subsequently
11 installed supplemental lateral saddle liners in 3 of 6 locations in April that were approved via change
12 order. One of the lateral locations cannot be lined or grouted due to the severe angle of connection
13 between the lateral and the main; however, this location only had a very minor infiltration leak. We
14 are continuing to coordinate with the PW Department and SWERP to evaluate the feasibility of
15 installing saddles in the other two difficult to access laterals as well as the one spot repair lateral liner
16 that was approved via change order. Lastly, the contractor still needs to perform injection grouting in
17 two manholes. Once we resolve the accessibility, we will pursue a schedule from the contractor to
18 complete the work.

19 **Barkway Pump Station Grinder**

- 20 • We met with Mark Miller on June 5 to review our design plans. We are re-evaluating the
21 feasibility of coring the wet well to run the hydraulic lines rather than entering through the top
22 of the wet well steel hatch. However, a site investigation is required to accurately determine
23 coring feasibility due to inconsistencies in how the foundation is shown on the original pump
24 station design plans. The design plans will be finalized thereafter.
25

26 **Ashbridge Pump Station Force Main**

- 27 • Test pits will be performed to identify backfill conditions along Manley Road with one test pit
28 on Edith Road, as recommended by the Municipal Authority, when weather permits. *No*
29 *update since our last report.*
30

31 **Tallmadge Drive Sewer Main Replacement**

- 32 • We notified bidders that all bids were rejected.
- 33 • We have updated the bid document for re-bid in the following ways and met with Mark Miller
34 on June 5 to review the changes:
 - 35 ○ Bid items clearly indicate the Township will purchase aggregate materials and have
36 them delivered and clarify that the cost of those materials shall not be included in the
37 contractor bid prices.
 - 38 ○ A unit price bid item for "rock removal" was added.
 - 39 ○ A flexible schedule is proposed allowing the contractor to perform the work anytime
40 before December 15, 2018.

- The contractor shall backfill with all 2A stone. The Township will perform all temporary and permanent paving.
- The contractor's insurance coverage requirements have been reduced.
- We have prepared an updated opinion of probable cost based on the bid document changes, original bid prices, and conversations with the contractors following the first bid.
- The following re-bid schedule is proposed:
 - Advertise = July 9
 - Bids Due = August 7
 - Award = August 13
 - Contract Execution = late August
 - Construction = Anytime between late August and December 15 (must be completed within 20 consecutive days)

I&I Support and Reporting

- We intend to analyze meter data and submit the next semi-annual I&I report following completion of the Supplee Valley pipe lining project so that the impact of that project can be assessed. That report will likely be issued in the July-August timeframe. We propose to make a summary Powerpoint presentation at the MA meeting immediately thereafter. *No update since our last report.*

New Connections

- We discussed our comments on the proposed residential grinder pump sewer connection plans at 1506 Meadowbrook Lane via grinder pump with the applicant's design consultant and we are awaiting a revised plan submission.

West Goshen Sewer System Consultation

- No activity since last report.

3. Big Fish Environmental Services – Scott's report showed that the Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted effluent discharge limitations during the month of April 2018. Discharge to the Applebrook storm water lagoon continued during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. The caustic solution addition pilot study for pH control was completed on May 6th. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Approval of Minutes

The minutes of the May 14, 2018 meeting were approved as corrected.

Approval of Invoices

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

- | | | |
|----|-----------------|------------|
| a. | Pennoni #803811 | \$ 168.68 |
| b. | Pennoni #803812 | \$ 964.00 |
| c. | Pennoni #803813 | \$6,309.75 |
| d. | Pennoni #803814 | \$ 61.50 |

Dana seconded the motion. The motion passed unanimously.

There was discussion to move the Talmadge Drive project into a new budget item.

1 **Liaison Reports**

2 **Conservancy Board** - Walter reported that at the meeting this week they will discuss locations for bat
3 houses. They did a site walk with the Marydell Pond Committee. Jon is applying for permits for this
4 project.. They hope to have the permits by 9/1 so dredging can start. They discussed location of a
5 forbay for future sediment removal.
6

7 **Financial Reports**

8 Jon Altshul provided the following written report:

9 In May, the Municipal Authority recorded \$57 in income (a \$71 transfer from the now closed capital
10 account offset by the cost of Positive Pay) and \$1,787 in expenses (primarily annual fees to the
11 Delaware River Basin Commission) for a negative variance of \$1,730. To clarify, due to my
12 oversight the Pennoni invoices approved at the May MA meeting were not processed until June.
13 Therefore this report understates May expenses by \$10,148.

14 In addition, earlier this week, I discovered a rather large discrepancy in the Sewer Operating Fund
15 budget, fortunately one that works in the Township/MA's benefit. Due to an error in the underlying
16 debt service amortization schedule, the Township over-budgeted the principal payment on the 2008
17 MA note (for the Ridley Creek upgrade) by \$187,000. As a result, it is likely that the Sewer
18 Operating Fund will finish the year with a substantial surplus.

19 As of May 31st, the MA fund balance was \$20,797, all of which is in the operating account.
20

21 **Old Business**

22 Insurance for Talmadge Drive – The insurance specs revision for Talmadge Drive project were
23 reviewed. Discussed #1 Contractors Workers Comp insurance reduce to \$100,000. #2 General
24 Liability aggregate reduced to \$1,000,000. Kevin feels the liability should be \$2,000,000. Deductible
25 changed from \$0 to \$5,000. Mike reported they were strongly advised not to reduce the class of the
26 insurance company.
27

28 **Adjournment**

29 There being no further business, Dana moved to adjourn the meeting. Kevin seconded the motion.
30 The meeting was adjourned at 8:15 p.m. The next regular meeting will be held on Monday, July 9,
31 2018 at 7:00 pm.
32

33 Respectfully submitted,
34
35
36

37 Ruth Kiefer

38 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 # : 808974
Invoice Date : 06/28/2018
Project : EGMAU17006
Project Name : Barkway PS Muffin Monster

For Services Rendered through: 6/17/2018

Review meeting with Mark Miller about near-final design plan submission; and follow-up evaluation of hydraulic lines routing and generator capacity.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
**** -- Professional Services	\$9,000.00	\$7,769.99	92.79%	\$8,351.47	\$581.48
Total :	<u>\$9,000.00</u>	<u>\$7,769.99</u>		<u>\$8,351.47</u>	<u>\$581.48</u>

Amount Due This Invoice

\$581.48

ok M&M
7/6/2018

East Goshen Municipal Authority
EGMAU17006 Invoice Summary
Invoice Date 5/24/2018

Project: EGMAU17006
Pennoni Job No.: Barkway PS Muffin Monster
Invoice No: 808974
Invoice Period: 5/21/2018 to 6/17/2018
Initial Authorization: \$ 9,000.00 **Date:** 6/28/2018
Contract Amount: \$ 9,000.00
Previously Invoiced: \$ 7,769.99
Current Invoice: \$ 581.48
Invoiced to Date (\$): \$ 8,351.47
Invoiced to Date (%): 93%
Remaining Budget (\$): \$ 648.53
Remaining Budget (%): 7%

Budget by Phase:

Phase Name: Barkway PS Muffin Monster
Phase Budget: \$ 9,000.00
Previously Invoiced: \$ 7,769.99
Current Invoice: \$ 581.48
Invoiced to Date (\$): \$ 8,351.47
Invoiced to Date (%): 93%
Remaining Budget (\$): \$ 648.53
Remaining Budget (%): 7%

Comments: Review meeting with Mark Miller about near-final design plan submission; and follow-up evaluation of hydraulic lines routing and generator capacity.



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

Invoice # : 808975
Invoice Date : 06/28/2018
Project : EGMAU17007
Project Name : Supplee Valley CIPPL Construction

For Services Rendered through: 6/17/2018

Review of additional alternative manhole grouting material submittals; and determination of approach to completing remaining lateral repairs and scheduling with PW Director and contractor.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 327.75
Expense : 0.00
Phase Total : 327.75

Amount Due This Invoice

\$327.75

Fee : 15,000.00
Prior Billings : 13,783.00
Current Billings : 327.75
Total Billings : 14,110.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	123.00	123.00
Associate Professional	2.25	91.00	204.75
Labor Total:	3.25		327.75

Total Phase : **** -- Professional Services

Labor : \$327.75
Expense : \$0.00

Total Project : EGMAU17007 -- Supplee Valley CIPPL Construction

Labor : \$327.75
Expense : \$0.00

ok MSH
7/6/2018

East Goshen Municipal Authority
EGMAU17007 Invoice Summary
Invoice Date 6/28/2018

Project: EGMAU17007
Pennoni Job No.: Suplee Valley CIPPL Construction
Invoice No: 808975
Invoice Period: 5/21/2018 to 6/17/2018
Date: 6/28/2018
Initial Authorization: \$ 12,000.00
Contract Amount: \$ 15,000.00
Previously Invoiced: \$ 13,783.00
Current Invoice: \$ 327.75
Invoiced to Date (\$): \$ 14,110.75
Invoiced to Date (%): 94%
Remaining Budget (\$): \$ 889.25
Remaining Budget (%): 6%

Budget by Phase:

Phase Name: Suplee Valley CIPP
Phase Budget: \$ 15,000.00
Previously Invoiced: \$ 13,783.00
Current Invoice: \$ 327.75
Invoiced to Date (\$): \$ 14,110.75
Invoiced to Date (%): 94%
Remaining Budget (\$): \$ 889.25
Remaining Budget (%): 6%

Comments: Review of additional alternative manhole grouting material submittals; and determination of approach to completing remaining lateral repairs and scheduling with PW Director and contractor.



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Philadelphia, PA 19182-7328

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

Invoice # : 808976
Invoice Date : 06/28/2018
Project : EGMAU18001
Project Name : 2018 General Services

For Services Rendered through: 6/17/2018

Phase **** Professional Services - Prepared June Engineer's Report; reviewed June RCSTP operator's report; prepared for and attended June MA meeting; analyzed RCSTP caustic soda trial sampling data following completion of study and initiated summary report; coordinated with Dutchland for re-coating of core holes in SBR #1 and observed work on-site; site visit to Hunt Country Pump Station for initial scoping of future Muffin Monster and flow meter improvements; site visits to RCSTP and Hershey's Mill Pump Station for initial scoping of future generator replacements; initiated budgetary cost estimating for aforementioned RCSTP, Hunt Country PS, and Hershey's Mill PS capital improvements; and reviewed Township's long-range sewer system capital projects' financial forecast and provided comments. Phase **** Total Effort To-Date = \$10,637.75

Phase 01 Tallmadge Drive Sewer Replacement - Modified plans and specifications in preparation for re-bidding, prepared re-bid schedule, evaluated insurance coverage modifications with insurance carrier, emailed proposed insurance changes to the MA and Township for review, attended meeting with PW Director to review proposed project changes, and updated cost estimate. Phase 01 Total Effort To-Date = \$10,556.75

Phase : ** -- Professional Services**

Total Phase : ** -- Professional Services**

Labor :	2,889.00
Expense :	0.00
Phase Total :	2,889.00

Phase : 01 -- Tallmadge Drive Sewer Replacement

Total Phase : 01 -- Tallmadge Drive Sewer Replacement

Labor :	1,980.00
Expense :	0.00
Phase Total :	1,980.00

Amount Due This Invoice

\$4,869.00

Fee :	30,000.00
Prior Billings :	16,325.50
Current Billings :	4,869.00
Total Billings :	21,194.50

ok M/LM
7/6/2018

Continued on next page...

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

...Continued from previous page

Phase : ** -- Professional Services**

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>			
Authority Engineer	8.75	123.00	1,076.25
Senior Professional	6.00	117.00	702.00
Associate Professional	10.25	91.00	932.75
Sr. Engineering Technician	2.00	89.00	178.00
Labor Total:	27.00		2,889.00

Total Phase : ** -- Professional Services****Labor : \$2,889.00****Expense : \$0.00****Phase : 01 -- Tallmadge Drive Sewer Replacement**

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>			
Authority Engineer	1.75	123.00	215.25
Senior Professional	0.50	117.00	58.50
Associate Professional	18.75	91.00	1,706.25
Labor Total:	21.00		1,980.00

Total Phase : 01 -- Tallmadge Drive Sewer Replacement**Labor : \$1,980.00****Expense : \$0.00****Total Project : EGMAU18001 -- 2018 General Services****Labor : \$4,869.00****Expense : \$0.00**

East Goshen Municipal Authority
EGMAU18001 Invoice Summary
Invoice Date 6/28/2018

Project: EGMAU18001
Pennoni Job No.: 2018 General Services
Invoice No: 808976
Invoice Period: 5/21/2018 to 6/17/2018
Date: 6/28/2018
Initial Authorization: \$ 18,000.00
Contract Amount: \$ 26,820.25
Previously Invoiced: \$ 16,325.50
Current Invoice: \$ 4,869.00
Invoiced to Date (\$): \$ 21,194.50
Invoiced to Date (%): 79%
Remaining Budget (\$): \$ 5,625.75
Remaining Budget (%): 21%

Budget by Phase:

Phase Name: 2018 General Services
Phase Budget: \$ 26,820.25
Previously Invoiced: \$ 16,325.50
Current Invoice: \$ 4,869.00
Invoiced to Date (\$): \$ 21,194.50
Invoiced to Date (%): 79%
Remaining Budget (\$): \$ 5,625.75
Remaining Budget (%): 21%

Comments: Phase **** Professional Services - Prepared June Engineer's Report; reviewed June RCSTP operator's report; prepared for and attended June MA meeting; analyzed RCSTP caustic soda trial sampling data following completion of study and initiated summary report; coordinated with Dutchland for re-coating of core holes in SBR #1 and observed work on-site; site visit to Hunt Country Pump Station for initial scoping of future Muffin Monster and flow meter improvements; site visits to RCSTP and Hershey's Mill Pump Station for initial scoping of future generator replacements; initiated budgetary cost estimating for aforementioned RCSTP, Hunt Country PS, and Hershey's Mill PS capital improvements; and reviewed Township's long-range sewer system capital projects' financial forecast and provided comments. Phase ****
Total Effort To-Date = \$10,637.75

Phase 01 Tallmadge Drive Sewer Replacement - Modified plans and specifications in preparation for re-bidding, prepared re-bid schedule, evaluated insurance coverage modifications with insurance carrier, emailed proposed insurance changes to the MA and Township for review, attended meeting with PW Director to review proposed project changes, and updated cost estimate. Phase 01 Total Effort To-Date = \$10,556.75



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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 # : 808977
Invoice Date : 06/28/2018
Project : EGMAU18002
Project Name : 2018 I&I Support and Reports

For Services Rendered through: 6/17/2018

Coordination with Township for analysis of instantaneous permanent meter data.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 30.75
Expense : 0.00
Phase Total : 30.75

Amount Due This Invoice

\$30.75

Fee : 11,000.00
Prior Billings : 2,502.00
Current Billings : 30.75
Total Billings : 2,532.75

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	0.25	123.00	30.75
Labor Total:	0.25		30.75

Total Phase : **** -- Professional Services

Labor : \$30.75
Expense : \$0.00

Total Project : EGMAU18002 -- 2018 I&I Support and Reports

Labor : \$30.75
Expense : \$0.00

ok MSM
7/6/2018

East Goshen Municipal Authority
EGMAU18002 Invoice Summary
Invoice Date 6-28-2018

Project: EGMAU18002
Pennoni Job No.: 2018 I&I Support and Reports
Invoice No: 808977
Invoice Period: 5/21/2018 to 6/17/2018
Initial Authorization: \$ 11,000.00 **Date:** 6/28/2018
Contract Amount: \$ 11,000.00
Previously Invoiced: \$ 2,502.00
Current Invoice: \$ 30.75
Invoiced to Date (\$): \$ 2,532.75
Invoiced to Date (%): 23%
Remaining Budget (\$): \$ 8,467.25
Remaining Budget (%): 77%

Budget by Phase:

Phase Name: 2018 I&I Support and Reports
Phase Budget: \$ 11,000.00
Previously Invoiced: \$ 2,502.00
Current Invoice: \$ 30.75
Invoiced to Date (\$): \$ 2,532.75
Invoiced to Date (%): 23%
Remaining Budget (\$): \$ 8,467.25
Remaining Budget (%): 77%

Comments: Coordination with Township for analysis of instantaneous permanent meter data.



Gawthrop Greenwood, PC
Attorneys at Law

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
06/07/2018
Client No: 6604-001M
Invoice No. 196673

General Authority Services

Fees

		Hours	
05/11/2018			
PMM	Email from M Ellis regarding Tallmadge Drive bid status with memo and supporting documents; Review and analyze same.	0.40	
05/14/2018			
PMM	Review file and analyze meeting packet in preparation for Authority meeting.	0.30	
SLF	Preparation for and attendance at meeting.	1.50	
	For Current Services Rendered	2.20	440.00

Recapitulation

Timekeeper	Hours	Hourly Rate	Total
Stacey L. Fuller	1.50	\$200.00	\$300.00
Patrick M. McKenna	0.70	200.00	140.00

Previous Balance \$480.00

Total Current Charges 440.00

05/21/2018 Payment -480.00

Balance Due \$440.00

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: Lynn LeBlanc
Re: MA June Financial Report
Date: July 03, 2018

In June, the Municipal Authority recorded \$13,167 in income (including \$30,000 from a transfer from the Sewer Operating Fund) and \$11,917 in expenses, for a positive variance of \$2,962.99.

I have also included in your packet a memo with recommendations for amending the 2018 MA budget, as well as Mark's recommendations for long-range capital planning.

As of June 30th, the MA fund balance was \$25,009.78.

EAST GOSHEN TOWNSHIP
Other Funds
June 2018
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
<hr/>								
REVENUE								
INTEREST EARNINGS	07341 1000	10	5	(57.42)	(62.42)		(15.00)	(15.00)
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020	50	50	613.94	563.94			
DCED GRANT	07354 0400							
C.C. TAPPING FEES	07364 1100	8,000	4,000		(4,000.00)	4,000		(4,000.00)
R.C. TAPPING FEES	07364 1110	2,000	2,000		(2,000.00)	2,000		(2,000.00)
M.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130	1,692	846	1,127.52	281.52	846		(846.00)
MISCELLANEOUS REVENUE	07380 1000			564.48	564.48			
TRANSFER FROM GENERAL ACCT	07392 0100			71.30	71.30			
TRANSFER FROM SEWER OPERATING	07392 0500	75,853	37,926	60,000.00	22,074.00	6,321	30,000.00	23,679.00
TRANSFER-ANNUAL CAP. RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900							
TRANSFER FROM RCSTP BUDGET	07392 0990							
LOAN PROCEEDS-SEWER PROJECT	07393 1001							
<hr/>								
TOTAL REVENUE		87,605	44,827	62,319.82	17,492.82	13,167	29,985.00	16,818.00
<hr/>								
EXPENSES								
ADMINISTRATIVE WAGES	07424 1400	32,411	16,205	16,320.66	(115.66)	8,103	8,160.33	(57.33)
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000	2,500	1,250	1,336.00	(86.00)	209		209.00
MUNIC. AUTH. - AUDITING	07424 3110	9,384	9,384	9,400.00	(16.00)			
ENGINEERING SERVICES	07424 3130	43,260	21,630	47,366.32	(25,736.32)	3,605	17,126.18	(13,521.18)
LEGAL SERVICES	07424 3140			2,620.00	(2,620.00)		440.00	(440.00)
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							
R.C. CAPITAL - COLLECTION	07424 7450							
R.C.-CAP. PROJ.-ENGINEER	07424 7451							
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452							
R.C. CAP EXPANSION - ELECTRICAL	07424 7453							
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454							
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455							

EAST GOSHEN TOWNSHIP
Other Funds
June 2018
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
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456							
LOCHWOOD - CAPITAL -STP	07424 7460							
LOCHWOOD-CAPITAL-COLLECT.	07424 7470							
LOCHWOOD ABANDONMENT ENGINEER	07424 7475							
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476							
LOCHWOOD ELIMINATION PHASE 2	07424 7477							
CAP.REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
MARYDELL PUMP STATION - ENGINEER	07425 1000							
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000							
HERSHEY MILL STATION - ENGINEER	07426 1000							
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
RESERVE PUMP STATION - ENGINEER	07427 1000							
RESERVE PUMP STATION - CONSTRUCTION	07427 2000							
RESERVOIR PUMP STATION - ENGINEER	07428 1000			188.00	(188.00)		45.50	(45.50)
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
ASBESTOS CONCRETE ENGINEERING	07429 3130							
DIVERSION PROJ.- LEGAL	07429 3166							
WEST GOSHEN CAPITAL	07429 6100	59,736	59,736	102,339.08	(42,603.08)			
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 PAYMN	07472 1000							
M.A.-R.C. INTEREST	07472 1010							
DVRFA PUMPING STATIONS - INTEREST	07472 2000							
TRANSFER TO GENERAL FUND	07492 0100			71.30	(71.30)			
TRANSFER TO SEW.OPERATING	07492 0500							
TRF TO SEWER SINKING FUND	07492 0550							
TRANSFER TO AUTHORITY CAP FUND	07492 0990							
TOTAL EXPENSES		147,291	108,205	179,641.36	(71,436.36)	11,917	25,772.01	(13,855.01)
NET RESULT FROM OPERATIONS		(59,686)	(63,378)	(117,321.54)	(53,943.54)	1,250	4,212.99	2,962.99

June 2018 Municipal Authority Financial Report - YTD REVENUES & EXPENDITURES

January 1, 2018 Fund Balance

142,331.32

Account #	Description	Per	Debits	Credits	Date	Name	Description
07341-1000	BEGINNING BALANCE	1801	0	0.31	2/2/2018	INTEREST EARNED JANUARY 2018	07 FUND
07341-1000	INTEREST EARNINGS	1802	0	0.2	2/14/2018	INTEREST ADJ. FROM JAN.2018	7105.2
07341-1000	INTEREST EARNINGS	1802	0	0.54	3/5/2018	INTEREST EARNED FEBRUARY 2018	07 FUND
07341-1000	INTEREST EARNINGS	1803	15	0	3/6/2018	REIMBURSE S/R FOR BANK FEES	INTEREST EARNINGS
07341-1000	INTEREST EARNINGS	1803	0	0.47	4/2/2018	INTEREST EARNED MARCH 2018	07 FUND
07341-1000	INTEREST EARNINGS	1804	15	0	4/2/2018	REIMB.S/R FOR 3/2018 BANK FEES	INTEREST EARNINGS
07341-1000	INTEREST EARNINGS	1804	0	0.55	5/1/2018	INTEREST EARNED APRIL 2018	07 FUND
07341-1000	INTEREST EARNINGS	1805	15	0	5/1/2018	REIMBURSMT- 4/2018 BANK FEES	INTEREST EARNINGS
07341-1000	INTEREST EARNINGS	1805	15	0	6/1/2018	BANK FEES - MAY 2018	INTEREST EARNINGS
07341-1000	INTEREST EARNINGS	1805	0	15	6/5/2018	REVERSE TRX 63388 EXPENSE TO	BE ENTERED IN JUNE NOT MAY
07341-1000	INTEREST EARNINGS	1805	0	0.51	6/1/2018	INTEREST EARNED MAY 2018	07 FUND
07341-1000	INTEREST EARNINGS	1806	15	0	6/5/2018	REIMBURSE S/R FOR MAY '18 FEES	INTEREST EARNINGS
07341-1020	BEGINNING BALANCE	1801	0	391.64	2/2/2018	INTEREST EARNED JANUARY 2018	07 FUND
07341-1020	INTEREST EARNED - CONSTRUCTION	1802	0	69.31	3/5/2018	INTEREST EARNED FEBRUARY 2018	07 FUND
07341-1020	INTEREST EARNED - CONSTRUCTION	1803	0	81.66	4/2/2018	INTEREST EARNED MARCH 2018	07 FUND
07341-1020	INTEREST EARNED - CONSTRUCTION	1804	0	71.3	5/1/2018	INTEREST EARNED APRIL 2018	07 FUND
07341-1020	INTEREST EARNED - CONSTRUCTION	1805	0	0.03	6/1/2018	INTEREST EARNED MAY 2018	07 FUND
07364-1130	BEGINNING BALANCE	1801	0	423	1/25/2018	STOFFLET, MICHAEL	JACOBS & STOFFLET INTEREST
07364-1130	CONNECTION FEES - SEWER	1802	0	423	2/13/2018	JACOBS, ROBERT & CHERYL	
07364-1130	CONNECTION FEES - SEWER	1802	0	423	2/27/2018	GEORGE SMITH & CHRISTINA CONLE	
07364-1130	CONNECTION FEES - SEWER	1802	282.2	0	2/13/2018	ANNUAL PINE ROCK INSTALLMENT	
07364-1130	CONNECTION FEES - SEWER	1802	141.1	0	2/27/2018	ANNUAL PINE ROCK INSTALLMENT	
07364-1130	CONNECTION FEES - SEWER	1803	0	423	3/23/2018	PAPPANO, JOSEPH & PATRICIA	RC214 PAPPANO
07364-1130	CONNECTION FEES - SEWER	1803	141.1	0	3/23/2018	ANNUAL PINE ROCK INSTALLMENT	
07380-1000	BEGINNING BALANCE	1802	0	282.24	2/13/2018	ANNUAL PINE ROCK INSTALLMENT	JACOBS & STOFFLET INTEREST
07380-1000	MISCELLANEOUS REVENUE	1802	0	141.12	2/27/2018	ANNUAL PINE ROCK INSTALLMENT	
07380-1000	MISCELLANEOUS REVENUE	1803	0	141.12	3/23/2018	ANNUAL PINE ROCK INSTALLMENT	RC214 PAPPANO
07392-0100	BEGINNING BALANCE	1805	0	71.3	6/7/2018	XFER \$ TO MA REGARDING DEPOSIT	ERROR 5/10/18
07392-0100	TRANSFER FROM GENERAL ACCT	1803	0	30000	3/29/2018	XFER \$ FROM SEWER TO MUNICIPAL	TO COVER EXPENSES
07392-0500	TRANSFER FROM SEWER OPERATING	1806	0	30000	6/22/2018	XFER \$ FROM SEWER TO MA	
07424-1400	BEGINNING BALANCE	1803	8160	0	3/26/2018	EAST GOSHEN TOWNSHIP - GENERAL	1ST QTR.2018 REIMBURSEMENT - MA
07424-1400	ADMINISTRATIVE WAGES	1806	8160	0	6/21/2018	EAST GOSHEN TOWNSHIP - GENERAL	2ND QTR.2018 REIMBURSEMENT - MA
07424-3000	BEGINNING BALANCE	1801	100	0	1/31/2018	COMMONWEALTH FINANCING AUTHORITY	GRANT APPLIC. DCED - WATER & SEWER
07424-3000	MISCELLANEOUS EXPENSE	1805	1236	0	5/30/2018	DELAWARE RIVER BASIN COMMISSION	ANNUAL FEE D-2000-030 CP WASTE
07424-3110	BEGINNING BALANCE	1803	6964	0	3/22/2018	MAILIE FALCONIERO & CO.	PROGRESS BILLING - MA AUTHORITY 2017
07424-3110	MUNIC.AUTH.-AUDITING	1804	2436	0	4/17/2018	MAILIE FALCONIERO & CO.	EXAMINATION 2017 MA FINANCIAL STMTS
07424-3130	BEGINNING BALANCE	1801	12524	0	1/24/2018	PENNONI ASSOCIATES INC.	SERV.THRU 12/10/17 2017 GENERAL
07424-3130	ENGINEERING SERVICES	1802	5415	0	2/15/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 1/14/18 -2017 GENERAL
07424-3130	ENGINEERING SERVICES	1802	552.5	0	2/22/2018	PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 SUPPLEE VAL.
07424-3130	ENGINEERING SERVICES	1803	11749	0	3/15/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 2/11/18 2018 GEN.SERV

07424-3130	ENGINEERING SERVICES	1806	9622	0	6/7/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 SUPPLEE VAL.
07424-3130	ENGINEERING SERVICES	1806	7504	0	6/12/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 5/20/18 BARKWAY PS
07424-3140	BEGINNING BALANCE						
07424-3140	LEGAL SERVICES	1801	680	0	1/24/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICES DEC. 2017 GEN.AUTH.
07424-3140	LEGAL SERVICES	1802	240	0	2/22/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - JAN 2018 GEN.AUTH.
07424-3140	LEGAL SERVICES	1803	400	0	3/19/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - FEBRUARY 2018
07424-3140	LEGAL SERVICES	1804	380	0	4/17/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 3/12/18
07424-3140	LEGAL SERVICES	1805	480	0	5/16/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - APRIL 2018 GEN.AUTH
07424-3140	LEGAL SERVICES	1806	440	0	6/18/2018	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. - MAY 2018 GEN.AUTHORITY
07428-1000	BEGINNING BALANCE						
07428-1000	RESERVOIR PUMP STATION - ENGINEER	1802	142.5	0	2/22/2018	PENNONI ASSOCIATES INC.	SERVICE THRU 1/14/18 RESERV RD PS
07428-1000	RESERVOIR PUMP STATION - ENGINEER	1806	45.5	0	6/7/2018	PENNONI ASSOCIATES INC.	SERVICES THRU 4/15/18 RESERVOIR RD
07429-6100	BEGINNING BALANCE						
07429-6100	WEST GOSHEN CAPITAL	1801	30051	0	1/24/2018	WEST GOSHEN SEWER AUTHORITY	16.67% OF COST - ENHANCED CHEMICAL
07429-6100	WEST GOSHEN CAPITAL	1802	3664	0	2/22/2018	WEST GOSHEN SEWER AUTHORITY	16.67% - ENHANCED CHEMICAL ADDITION
07429-6100	WEST GOSHEN CAPITAL	1803	-3664	0	3/15/2018	WEST GOSHEN SEWER AUTHORITY	VOID CK. 2017
07429-6100	WEST GOSHEN CAPITAL	1804	72288	0	4/13/2018	WEST GOSHEN SEWER AUTHORITY	2017 SEWER SYSTEM REPAIR PROJECT
07492-0100	BEGINNING BALANCE						
07492-0100	TRANSFER TO GENERAL FUND	1805	71.3	0	5/10/2018	EAST GOSHEN TOWNSHIP - GENERAL	XFER TO GENERAL TO CLOSE ACCOUNT
07492-0500	BEGINNING BALANCE						
07492-0500	TRANSFER TO SEW OPERATING	1806	30000	0	6/22/2018	XFER FROM SEWER TO MA	
07492-0500	TRANSFER TO SEW OPERATING	1806	0	30000	6/22/2018	REVERSE TRX 63662	

June 30, 2018 Fund Balance

25,009.78

Memo

To: Municipal Authority
From: Jon Altshul
Re: Analysis of Pennoni engineering budget
Date: June 20, 2018

At the June 11, 2018 MA meeting, the Authority asked me to analyze and provide recommendations on the engineering budget for various MA projects. The table below shows how various MA projects were budgeted in 2018. In addition, a detailed worksheet of all Pennoni invoices for the MA is presented on the last page.

Project/Category	Amount Budgeted (Total; including Engineering)	Fund Budgeted	Actual MA Engineering Costs 2018 YTD	Notes
Barkway P/S	\$89,500	Sewer Operating	3,087.32	No grant revenue budgeted; assumes more expensive option chosen (which it wasn't)
Tallmadge Drive	\$30,000	Sewer Operating	12,049.25	Originally assumed work performed in house
Supplee Valley Relining	\$100,000*	Sewer Operating	10,288.25	We budget \$100,000 per year; Supplee Valley represents 2 years of budget allocation
Ashbridge Force Main	\$50,000	Sewer Capital	3,431.25	
General Engineering	\$43,260	Municipal Authority	47,554.32*	Excluding Barkway, Tallmadge Drive, Supplee Valley & Ashbridge, \$18,698 has been spent on MA engineering

With 20/20 hindsight, these projects should have been budgeted directly in the Municipal Authority, rather than in the Sewer Operating and Sewer Capital funds, with revenue being transferred to the MA from those two funds.

Options for the MA's Consideration

- 1) Do nothing and continue to charge the invoices to the budgeted fund/line items. Even with the Supplee Valley relining and the Tallmadge Drive project, the sewer fund may end the year with a small surplus, due to the Township over-budgeting for debt service on the 2008 MA note. This is therefore the easiest option for both the MA & the Township.
- 2) The Municipal Authority amends its 2018 budget to reflect higher engineering costs for capital projects as outlined below. However, in the interest of simplicity, the Township does not amend the Sewer Fund budget to offset the higher revenue requirements (i.e. increase the transfer from Sewer Operating to the MA) and the Sewer Fund pays for the MA projects as was originally budgeted. Under this scenario, new line items would be created in the MA to track these specific engineering expenses.

	Proposed Change to MA Budget for engineering capital costs
Barkway P/S	+9,000
Tallmagde Drive	+18,000
Supplee Valley Relining	+11,505
Ashbridge Force Main	No change
Transfer from Sewer Fund (Revenue)	+38,505
NET TOTAL	-

Additionally, there is a third option, whereby both the 2018 MA and the Township's Sewer Operating Fund budgets are both amended to more accurately align expected costs and inter-fund transfers as of June and charge all construction costs to the Municipal Authority. However, this would be administratively challenging and would cause the Sewer Operating Fund to be unbalanced. I would therefore recommend against that third option. However, as part of the 2019 budget process, I would recommend that all sewer-related capital costs be budgeted and charged to the Municipal Authority budget with an appropriate offsetting transfer from the Township's sewer fund.

If the MA wishes to go with Option #2, below find a proposed motion:

Mr. Chairman, I move that we amend the 2018 Municipal Authority budget to create the following capital line items with the following budgeted level: Barkway Pump Station Engineering, \$9,000; Tallmadge Drive Engineering, \$18,000; and Relining Engineering, \$11,505. I further move that we increase the line item "Transfer from Sewer Operating Fund" by \$38,505 from \$75,853 to \$114,358 and that Township staff transfer expenses already incurred in the General Engineering line item to the new line items just created.

PENNONI ASSOCIATES INC.

Engineer Services

2018

Budget Sub#	Description	Invoice #	Check #	Check Date	Amount	
07424 3130	SERV. THRU 12/10/17 2017 GENERAL / ASHBRIDGE	782383	3113	1/24/2018	3,298.00	
07424 3130	SERVICES THRU 1/14/18 -2017 GENERAL/ ASHBRIDGE	786300	3115	2/15/2018	<u>133.25</u>	3,431.25
07424 3130	SERV. THRU 12/10/17 BARKWAY MUF. MONS	782386	3113	1/24/2018	2,802.81	
07424 3130	SERVICE THRU 2/11/18 BARKWAY PS MUF	789506	3118	3/15/2018	115.83	
07424 3130	SERVICES THRU 5/20/18 BARKWAY PS	803811	3127	6/12/2018	<u>168.68</u>	3,087.32
07424 3130	SERVICES THRU 1/14/18 2017 CHAP. 94	786307	3115	2/15/2018	1,341.75	
07424 3130	SERVICE THRU 2/11/18 2017 CHAP. 94	789510	3118	3/15/2018	1,173.00	
07424 3130	SERVICES THRU 4/15/18 2017 CHAP. 94	799468	3126	6/7/2018	<u>3,408.25</u>	5,923.00
07424 3130	SERV. THRU 12/10/17 2017 GENERAL	782383	3113	1/24/2018	1,993.75	
07424 3130	SERVICES THRU 1/14/18 -2017 GENERAL	786300	3115	2/15/2018	743.75	
07424 3130	SERVICES THRU 1/14/18 2018 GEN. SERV	786305	3115	2/15/2018	123.00	
07424 3130	SERVICES THRU 2/11/18 2018 GEN. SERV	789508	3118	3/15/2018	2,043.75	
07424 3130	SERVICES THRU 4/15/18 2018 GEN. SERV	799477	3126	6/7/2018	2,076.00	
07424 3130	SERVICES THRU 5/20/18 2018 GEN. SERV	803813	3127	6/12/2018	<u>1,329.50</u>	8,309.75
07424 3130	SERVICES THRU 1/14/18 2018 I&I	786306	3115	2/15/2018	1,297.75	
07424 3130	SERVICES THRU 2/11/18 2018 I&I REPT	789509	3118	3/15/2018	1,112.00	
07424 3130	SERVICES THRU 4/15/18 2018 I&I SUPP	799467	3126	6/7/2018	30.75	
07424 3130	SERVICES THRU 5/20/18 2018 I&I	803814	3127	6/12/2018	<u>61.50</u>	2,502.00
07428 1000	SERVICE THRU 1/14/18 RESERV. RD PS	786299	22016	2/22/2018	142.50	
07428 1000	SERVICES THRU 4/15/18 RESERVOIR RD	799471	3126	6/7/2018	<u>45.50</u>	188.00
07424 3130	SERVICES THRU 1/14/18 2017 SEMI-ANN	786301	3115	2/15/2018	<u>1,775.50</u>	1,775.50
07424 3130	SERV. THRU 12/10/17 SUPPLEE VAL. PIPE	782384	3113	1/24/2018	956.50	
07424 3130	SERVICE THRU 1/14/18 SUPPLEE VAL.	786302	3117	2/22/2018	552.50	
07424 3130	SERVICE THRU 2/11/18 SUPPLEE VALLEY	789507	3118	3/15/2018	7,304.50	
07424 3130	SERVICES THRU 4/15/18 SUPPLEE VAL.	799466	3126	6/7/2018	510.75	
07424 3130	SERVICES THRU 5/20/18 SUPPLEE VALL	803812	3127	6/12/2018	<u>964.00</u>	10,288.25
07424 3130	SERV. THRU 12/10/17 2017 GENERAL /TALLMADGE	782383	3113	1/24/2018	3,472.50	
07424 3130	SERVICES THRU 4/15/18 2018 GEN. SERV/ TALMADGE	799477	3126	6/7/2018	3,596.50	
07424 3130	SERVICES THRU 5/20/18 2018 GEN. SERV/ TALMADGE	803813	3127	6/12/2018	<u>4,980.25</u>	12,049.25
					TOTAL	47,554.32

Memo

To: Municipal Authority
From: Jon Altshul
Re: Preliminary Proposed CIP for Discussion
Date: June 22, 2018

Attached find Mark's "wish list" of sewer capital improvements and purchases, as well as a spreadsheet laying out these costs by year through 2024.

Other than a noticeable bump in 2020 for the caustic soda injection system project, the total annual costs are fairly stable, meaning that this work plan can be absorbed into the existing sewer rate model with only a minimal impact on rates. Moreover, the \$250,000 figure for the caustic soda project may be high.

We can discuss more on July 9th.

Proposed Sewer Capital Improvement Program, as of 6/22/18

Project	2018 Adopted	2018 Re-est	2019	2020	2021	2022	2023	2024	Notes
Barkway P/S	89,500	9,000	67,000						May have offsetting grant revenue
Ashbridge Force Main	50,000	50,000							Sewer Cap Reserve (no impact on rates)
Tallmadge Dr	30,000	85,000							
HM P/S Generator			75,000						Sewer Cap Reserve (no impact on rates)
Mag Meter Hunt Country PS					8,000				
Bypass Pump Connection			5,000						
RC Collection Meters			12,000	12,000					
RC Generator			150,000						
SBR Tank Rehab					130,000	130,000	130,000	130,000	Sewer Cap Reserve (no impact on rates)
Pipe/Manhole Lining	100,000	160,000	130,000	130,000	130,000	130,000	130,000	130,000	
Caustic Soda System				250,000					
Total	269,500	304,000	439,000	392,000	268,000	260,000	260,000	260,000	
Total net of projects paid from SW Cap Reserve	219,500	254,000	214,000	392,000	268,000	260,000	260,000	260,000	

Jon

Below is my wish list for sewer work over the next 5 years

Meters

2018 Replace Modems on Meters. \$8,600.00

Chester Creek Collection

2019 Muffin Monster at Bark way pump station.

2019 Replace Generator at Hershey Mill Pump Station \$75,000.00 (NOTE) If need be we can defer until 2020

We may have to modify the building for the generator. If so all work would be done in house.

Ridley Creek System

2020-2021 Mag Meter for Hunt Country Pump Station. \$8,000.00

Bypass Pump Connection. \$5,000.00

2019-2020 - 3 Meters on the collection system \$12,000.00 each

Ridley Creek Plant

2019 Replace generator and switch gear \$150,000.00

Refurbish SBR Tanks starting in 2021 doing one tank per year \$130,000.00

2020 -2021 Caustic Soda injection system and storage tank \$250,000.00 ? price

Pipe Lining

Consider increase the amount to \$130,000.00 per year.

2019 -2020 Waterview Farms

2021-22-23-24 Marydell/Pinoaks Farms

2025-2026 Grand-Oak Development

2027 Hershey Mill Estates

2028 Milltown

2029-2030 Line Interceptor from Strasburg Road to Westtown Way.

I would like your approval to replace the modems at the five metering stations. As you know ACS is responsible for the maintenance of the meters. We were informed back in May by Verizon that the 3 G modems would need replaced. Our cost will be \$6,880.00 West Goshen will share in the Westtown Way meter cost.



ALLIED CONTROL SERVICES, INC.

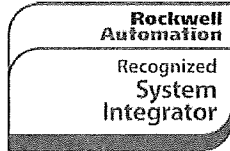
611 GARFIELD AVE. • P.O. BOX 234 • WEST POINT, PA 19486

Phone: 215-699-2855

Fax: 215-699-9030



UL 508A / 698A
Registered Firm



NJ Electrical Lic #14734 / DE Electrical Lic #T1-0004854 / MD Electrical Lic #9097 / WV Electrical Lic #043488 / VA Electrical Lic #2710066014

11 June 2018

East Goshen TWP M.A
1580 Paoli Pike
West Chester PA 19380

Attn: Mr. Mark Miller

Reference: 3G Cellular Upgrades

Dear Mark:

Per your request, we are pleased to offer this proposal for the above referenced project. This quotation reflects materials and installation for the 5 existing sites that are currently communicating via 3G and require upgrading to 4G to remain functional.

Item	Description	Price	Qty	Total
1	Turnkey Installation Sierra Wireless 4G Modems and associated antennas, jumpers, and misc. hardware for 5 locations.	\$8,600.00	Lot	\$8,600.00
Total				\$8,600.00

DELIVERY : 1 Week, shipping included

TERMS : Net 30 Days From Date Of Invoice

VALIDITY : Pricing is firm for orders received within sixty (60) days of this quotation.

If you have any questions regarding our quotation or if you would like to proceed with the project, please contact Lee Mace or Paul Mamzic Jr. at 1-800-441-4844.

Best Regards,

Paul Mamzic Jr.

Notification of Voter Delegate

TO: PMAA Member Authorities

FROM: Douglas E. Bilheimer
Executive Director

DATE: June 8, 2018



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

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

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

DEB/kaw
Attachment

Notification of Voting Delegate & Alternate

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

Voting Delegate

Name: _____

Title: _____

Alternate Delegate

Name: _____

Title: _____

Authority submitting this information:

Authority: _____

Address: _____

City: _____ State: _____ Zip: _____

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

**Please note this form must be returned to the
PMAA office by Wednesday, August 15, 2018.**