

EAST GOSHEN MUNICIPAL AUTHORITY

February 12, 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. January 22, 2018

5. APPROVAL OF INVOICES

Pennoni Invoice #786299	\$	142.50
Pennoni Invoice #786300	\$	877.00
Pennoni Invoice #786301	\$	1,775.50
Pennoni Invoice #786302	\$	552.50
Pennoni Invoice #786304	\$	1,181.75
Pennoni Invoice #786305	\$	123.00
Pennoni Invoice #786306	\$	1,297.75
Pennoni Invoice #786307	\$	1,341.75
Gawthrop Invoice #190131	\$	680.00

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. January Financial Report

8. OLD BUSINESS

- a.

9. GOALS

- a. Continue to monitor the upgrades at West Goshen Sewer Plant.
- b. Continue to implement the I&I Plan.
- c. Submit articles for the newsletter.

10. NEW BUSINESS

11. CAPACITY REQUESTS

12. ANY OTHER MATTER

13. CORRESPONDENCE AND REPORTS OF INTEREST

- a. Goals presented by the ABC's at the planning session.
- b. Dana Pizarro was appointed to a five-year term as PE to the Authority

14. PUBLIC COMMENT

15. ADJOURNMENT

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

February 9, 2018

To: Municipal Authority
From: Mark Miller
Re: January 2018 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 754,000 gallons per day. No problems to report.

Meters: All meters were calibrated on 2/8/18 by Allied Control. The meters are being read on a daily basis. We have been having power problems with a couple of the meters which has required the men to go out and re-set the breakers.

C.C. Collection: We have been busy working in Supplee Valley prior to the contractor lining. We have been televising and repairing laterals. We have repaired four laterals to date. With the water table being high we are finding INI in the lines that were dry a couple months ago. We also repaired several manholes that had several leaks. The lining contractor has completed a majority of the lining. We had the contractor do several point repairs due to the lateral depths and location. We preplaced two manhole castings and lids on Reservoir Road. We televised the sewer line between Baldwin Drive and Reservoir Road. The line was in excellent condition.

We finished the roof hatch at Barkway Pump Station. All the pump stations were visited on a daily basis and wet wells were cleaned.

R.C. Collection: We found six lateral stacks raised due to frost, they were pushed down into place. The pump station was visited on a daily basis and the wet well was cleaned. Ace Disposal was utilized to vacuum the grease from the wet well. We did not have any emergencies on the Ridley Creek system.

R.C. Plant:

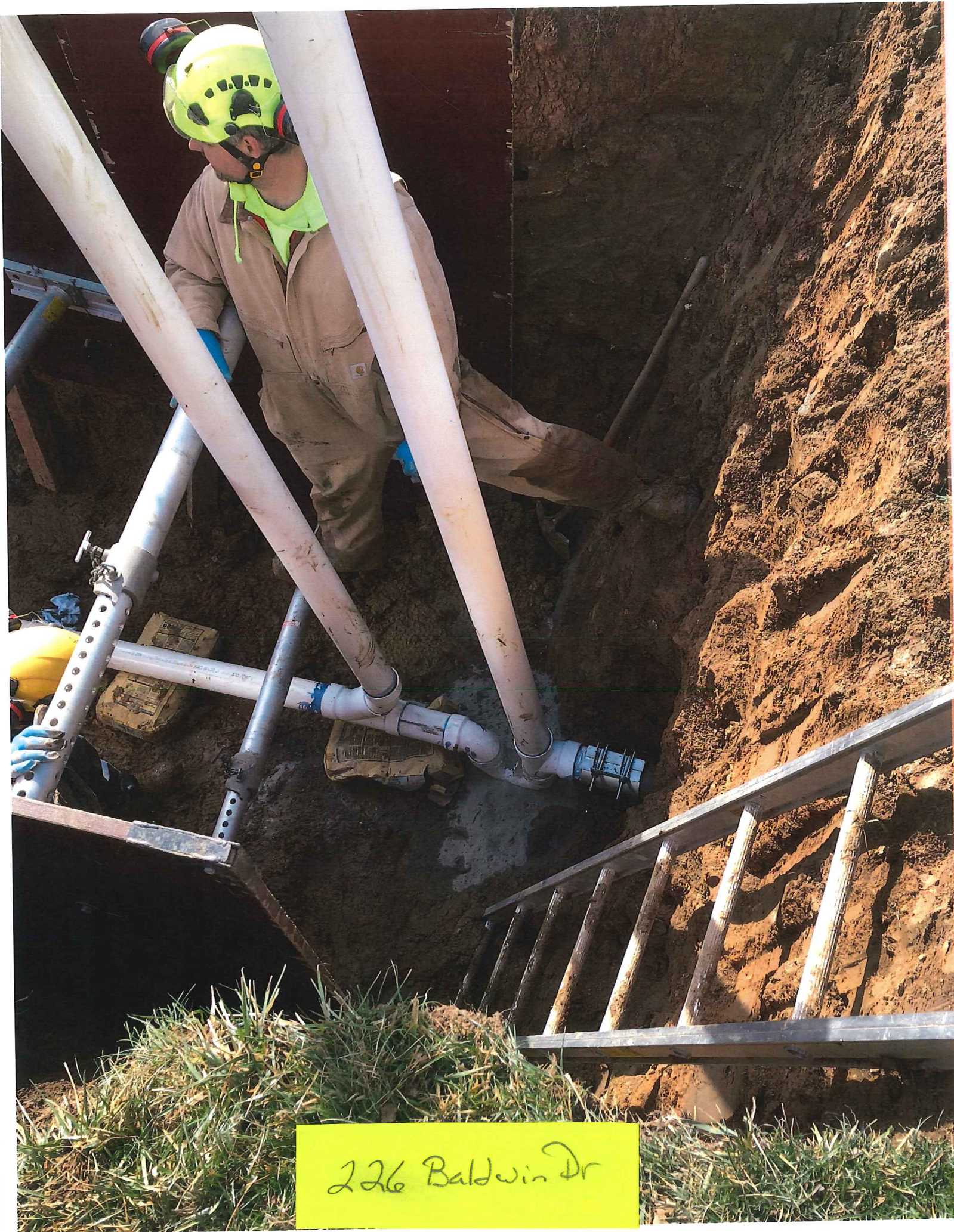
The caustic soda system is up and running. To make sure everything was operational we ran the system on a trial basis for ten days using water with not problems to report. Scott Towler said he was having problems with the meter at the sewer plant. I asked Allied Control to check it out then they were here.

Alarms:

We responded to 17 alarms for January ranging from power outages to high level alarms. The Ridley Creek, Reservoir Road meter has to be pulled for repairs; they could be down for ten days.

PA One Calls:

We received 38 PA One calls January.



226 Baldwin Dr

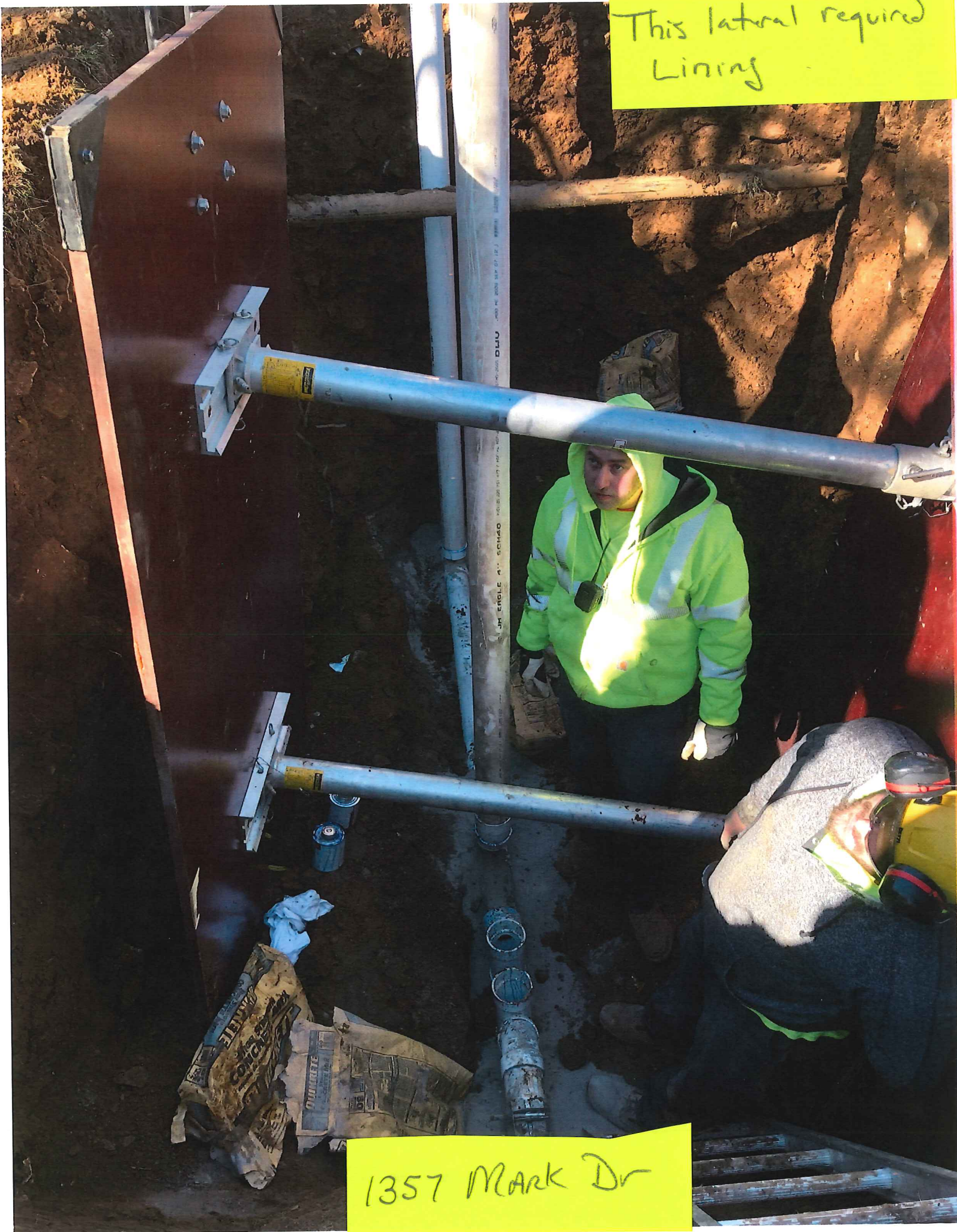


226 Baldwin Dr.



226 Baldwin Dr.

This lateral required
Lining



1357 Mark Dr

EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
February 9, 2018

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study – The chemical feed pump, piping, two chemical totes, electric, and controls are set up for the study. We have coordinated with the operator on the recommended starting chemical dosing rate (5 gallons/hour). The operator is running a pre-test on the system with water for a few days to ensure functionality of controls and equipment and no leaks before starting to feed caustic soda. We anticipate the caustic soda feed will begin the week of February 12.

Reservoir Road Pump Station

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

RCSTP and Pump Stations' O&M Manual

- 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

- A pre-construction meeting was conducted with the contractor, SWERP, on January 16. The Notice to Proceed was issued on January 22 with a contract duration of 60 days. The contract completion date is therefore March 23. Work began on January 24, and we anticipate they will complete work the week of February 26.
- As of February 9, SWERP has pipe lined 10 of the 18 sewer runs in the contract. They have also installed two spot repair liners on one sewer lateral and one spot repair liner on a sewer main to address significant infiltration that was identified during their pre-construction cleaning and televising. This was work beyond that in the contract so a change order will be needed for approximately \$5,500.
- The PW Department has also replaced two residential cleanouts and a portion of the associated sewer laterals to address infiltration, one of which is the lateral that received two spot repair liners downstream of the excavated lateral repairs. The PW Department also sealed a leak in a manhole.
- Infiltration is now occurring at the joints between a few laterals and the mains following the pipe lining, as a result of the pipe lining sealing the entire length of the sewer main piping and groundwater finding a new way in. We are coordinating with SWERP on the approach to seal these leaks (likely a cured-in-place trenchless lateral saddle connection) and the associated additional costs.

- In summary, there is a significant amount of infiltration that has been identified in this area of the sewer system during this project. Based on visual observations, we estimate that the project may be addressing nearly 100,000 gpd of infiltration sources, nearly half of which was in one lateral.

Barkway Pump Station Grinder

- The Township's electrical inspector confirmed that the hydraulic power pack and controls can be installed inside the building. We are initiating work to finalize the design.

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. We coordinated with Mark Miller on the scope of these test pits. *No update since our last report.*

Tallmadge Drive Sewer Main Replacement

- We prepared an existing conditions plan of the roadway and sanitary sewer based on our field survey, and we reviewed the Township's sewer videos. A portion of the sewer has a severe sag, and we have identified the approximate extent of repair required; however, additional televising may be needed to determine with certainty. At this time, we are tentatively recommending that only the sag be repaired/replaced. Two other alternatives would be to: (1) replace the full length of pipe from manhole-to-manhole to provide a consistently sloped pipe for the entire run, and (2) to replace that full length of pipe plus the next downstream sewer run and the intermediate manhole in order to improve the very flat slope of the subject pipe. We are evaluating the alternatives with Mark Miller. *No update since our last report.*

I&I Support and Reporting

- We issued a draft semi-annual I&I report to the Township and conducted a review meeting with Mark Miller thereafter. The report is being finalized based upon the meeting, and we expect to issue it on February 12.

Chapter 94 Reports

- We are in the process of obtaining and analyzing data and preparing the reports for the Westtown, West Goshen (Chester Creek), and RCSTP service areas.

New Connections

- No activity since last report.

West Goshen Sewer System Consultation

- No activity since last report.

Other

- 1405 Wexford Circle – We have communicated with the Township Codes Department and reviewed correspondence from PADEP about the single-family residential wastewater treatment system with stream discharge that is proposed to replace a failing on-lot system.



Executive Summary

The Ridley Creek sewage treatment plant outfall 001 experienced one exceedance of the permitted effluent discharge limitations for during the month of December 2017. The nature of the issue was a reported weekly TSS maximum of 16 mg/L as compared to the permitted discharge limitation of 15 mg/L. The root cause was attributed to one (1) disc filter drive unit was out of service. The problem was corrected and normal plant operations resumed. 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

The total phosphorus monthly average was reported as 0.24 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.13 to 0.42 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.399 mg/L as compared to the permit discharge limitation of 2.5 mg/L. The ammonia as N weekly maximum was 0.888 mg/L. The total suspended solids (TSS) monthly concentration was reported as 6 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 16 mg/L as compared to the permit discharge limitation of 15 mg/L.

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



**RCSTP Monthly Operations
Report:
January 2018**

Table 1

December 2017 - Final Effluent - Out Fall 001											
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	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
December 2, 2017	0.188			4	6.3						
December 5, 2017	0.173	4.2	6.1	4	5.8	0.128	0.18	0.13	0.19	3	0.4771
December 8, 2017	0.182			3	4.6						
December 12, 2017	0.188	16.9	26.5	5	7.8	0.394	0.62	0.22	0.34	1	0.0000
December 15, 2017	0.190			4	6.3						
December 19, 2017	0.168	2.0	2.8	4	5.6	0.888	1.24	0.17	0.24	1	0.0000
December 28, 2017	0.213	6.5	11.5	16	28.4	0.187	0.33	0.42	0.75	1	0.0000
Average	0.186	7.4	11.7	6	9.8	0.399	0.59	0.24	0.38	1	0.1193
Minimum	0.168	2.0	2.8	3	4.6	0.128	0.18	0.13	0.19	1	0.0000
Maximum	0.213	16.9	26.5	16	28.4	0.888	1.24	0.42	0.75	3	0.4771

The elevated TSS sample concentration recorded on December 28th is the result of a disc filter drive being off line inhibiting the routine filter back wash cycle. The filter drive was reset and the drive was observed to function as intended.

Table 2 illustrates the final effluent composite sample data reported for the December 2017 DMR. Discharge to Applebrook, Outfall 002 was 4.8355 million gallons during December.



**RCSTP Monthly Operations
Report:
January 2018**

Table 2

December 2017 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
			lbs/		lbs/		lbs/		lbs/		Geo
	MGD Average	mg/L	month	mg/L	month	mg/L	month	mg/L	month	Geo Mean	Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
December 2, 2017	0.1454			4.0	4.9						
December 5, 2017	0.1645	4.2	5.8	4.0	5.5	0.128	0.18	0.13	0.18	3	0.000
December 8, 2017	0.1467		0.0	3.0	3.7						
December 12, 2017	0.1451	16.9	20.5	5.0	6.1	0.394	0.48	0.22	0.27	1	0.000
December 15, 2017	0.1391		0.0	4.0	4.6						
December 19, 2017	0.1501	2.0	2.5	4.0	5.0	0.888	1.11	0.17	0.21	1	0.000
December 28, 2017	0.1285	6.5	7.0	16.0	17.1	0.187	0.20	0.42	0.45	1	0.119
Average	0.1285	7.4	5.9	5.7	6.7	0.40	0.49	0.24	0.28	2	0.0298
Minimum	0.1285	2.0	0.0	3.0	3.7	0.13	0.18	0.13	0.18	1	0.0000
Maximum	0.1645	16.9	20.5	16	17.1	0.89	1.11	0.42	0.45	3	0.1193

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 December 2017.



Table 3

December 2017 - 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											
December 5, 2017	0.402	159	533	168	563	35.0	117	42.5	142	4.2	14.1
December 12, 2017	0.344	168	563	130	435	31.6	91	42.4	122	5.3	17.8
December 19, 2017	0.365	227	760	384	1,286	43.9	134	43.6	133	7.0	23.4
December 28, 2017	0.425	401		504		43.9		45.8	162	7.1	23.8
Average	0.384	239	619	297	762	38.6	114	43.6	140	5.9	19.8
Minimum	0.344	159	533	130	435	31.6	91	42.4	122	4.2	14.1
Maximum	0.425	401	760	504	1286	43.9	134	45.8	162	7.1	23.8

Table 4 presents the available Outfall 001 final effluent data for the month of January 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.

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

During January, the presence of foam conditions on the surface of the SBRs increased to 100% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. The lower water temperatures within the SBRs, coupled with lower food to mass ratios, the foam concentrations have increased because of increased filamentous growth.



**RCSTP Monthly Operations
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Management of the food to mass ratio assists to manage the foam concentrations balanced by maintaining nitrification is critical during the colder winter months.

Table 4

January 2018 - Final Effluent - Out Fall 001											
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	10	131	2.5	44	0.5	3	200	1,000
	Instantaneous	40		42							
Sample Date											
January 3, 2018	0.256									1	0.0000
January 5, 2018	0.206	2.5	4.3	10.5	18.0	1.46	2.51	0.18	0.31		
January 9, 2018	0.189	3.6	5.7	9	14.2	1.15	1.81	0.15	0.24	2	0.3010
January 12, 2018	0.325			7	19.0						
January 16, 2018	0.176	2	2.9	8	11.7	0.353	0.52	0.15	0.22	2	0.3010
January 23, 2018	0.222	2.7	5.0	4	7.4					1	0.0000
January 30, 2018	0.381			6	19.1					1	0.0000
Average	0.302	2.7	4.5	7.4	14.9	0.99	1.6	0.16	0.3	1	0.1204
Minimum	0.222	2.7	5.0	4	7.4	0.000	0.00	0.00	0.00	1	0.0000
Maximum	0.381	2.7	5.0	6	19.1	0.000	0.00	0.00	0.00	1	0.0000

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



**RCSTP Monthly Operations
Report:
January 2018**

Table 5

January 2018 - Applebrook - Out Fall 002											
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	21	131	7	44	0.5	3	200	1,000
	Instantaneous	40		42							
January 3, 2018	0.1673									1.0	0.0
January 5, 2018	0.1210	2.5	2.5	10.5	10.6	1.46	1.47	0.18	0.18		
January 9, 2018	0.1301	3.6	3.9	9.0	9.8	1.15	1.25	0.15	0.16	2.0	0.3
January 12, 2018	0.1592			7.0	9.3						
January 16, 2018	0.1476	2.0	2.5	8.0	9.8	0.353	0.43	0.15	0.18	2.0	0.3
January 23, 2018	0.1620	2.7	3.6	4.0	5.4						
January 30, 2018	0.1524			6.0	7.6						
Average	0.1485	2.7	3.1	7.4	8.8	0.99	1.05	0.16	0.18	2	0.2007
Minimum	0.1210	2.0	2.5	4.0	5.4	0.35	0.43	0.15	0.16	1	0.0000
Maximum	0.1673	3.6	3.9	11	10.6	1.46	1.47	0.18	0.18	2	0.3010

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



**RCSTP Monthly Operations
Report:
January 2018**

Table 6

January 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
	1GD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
January 3, 2018	0.468	132	515	74	289	43.3	169	48.6	190	4.7	18.4
January 9, 2018	0.334	253	988	272	1,062	34.4	96	41.6	116	5.5	21.5
January 16, 2018	0.380	81.4	318	72	281	37.7	119	43.4	137	4.1	16.0
January 23, 2018	0.464	153	597	72	281	38.2	148			3.7	14.4
January 30, 2018	0.422	156	609	194	758						
Average	0.413	155	606	137	534	38.4	133	44.5	148	4.5	17.6
Minimum	0.334	81	318	72	281	34.4	96	41.6	116	3.7	14.4
Maximum	0.468	253	988	272	1062	43.3	169	48.6	190	5.5	21.5

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service during December and January. 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 Storm/Hydraulic Loading Events

During January, there were two (2) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24-hour period. A total of 2.53 inches of rainfall measured during the month. These events occurred on:



**RCSTP Monthly Operations
Report:
January 2018**

January 12th
January 23rd

0.68 inches
0.59 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: January 2018

Sludge Dewatering Summary	
Gallons of sludge dewatered	337,834
Number of dumpsters	4

**Eighteen (18) days of centrifuge operation*

Chemical Usage:

January 2018		
Chemical	Daily Average	Total Monthly
Soda Ash	300	9,000
Aluminum Sulfate solution	56.5	1,694
Polymer (centrifuge)	0.85	15.3

**Eighteen (18) days of centrifuge operation*

Flow data:

The field flow meter was removed from service. The flow meter volumes were erratic.

January 2018			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	NA	NA	NA
Influent Wastewater to SBRs	13.300	429,027	599,616
Internal Recycle	NA	NA	NA



**RCSTP Monthly Operations
Report:
January 2018**

Treated Effluent to Disc Filters	13.242	427,148	595,584
Final Effluent Discharge	7.017	226,355	381,000
Applebrook Golf Course	4.656	150,178	196,552

Minor Preventative Maintenance

Flushed chemical feed lines to the SBRs.

Cleaned piping within SBR building

Cleaned final effluent weir trough daily

Skimmed surface of disc filters daily

Drained and cleaned disc filters weekly

Look Ahead Preventative Maintenance Activities

Rebuild will be scheduled for February

Installation of the LDO probes and controls for SBRs is planned for first quarter 2018 when the weather becomes warmer.

DRAFT
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
January 22, 2018

The East Goshen Township Municipal Authority held their regular public meeting on Monday, January 22, 2018 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Jack Yahraes, Dana Pizarro, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Mark Miller (Director of Public Works), Mike Ellis (Pennoni), Carmen Battavio and David Shuey (Township Supervisors), 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

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

Chairman's Report

No report. Jack will attend the February meeting of the West Goshen Sewer Authority.

Sewer Reports

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

Monthly Flows: The average daily flow to West Goshen was 721,000 gallons per day.

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

C.C. Collection: We had a lateral backup on Wyllpen Drive. We plunged the lateral to clear the blockage. The pump stations were visited on a daily basis. The roof was replaced at Ashbridge Pump Station. We have also been clearing the Right of Ways. Lateral repair between both systems, we have done 11 repairs for the month. We had three lateral problems and we televised them. We did locate one on Sturbridge Lane that had been sheared off at the house. The property owner hired a plumbing contractor to make the repairs.

R.C. Collection: We finished the repairs to the Hershey Mill Pump Station. The controller needed to be replaced on the generator. We also had to pull a pump that was not performing.

R.C. Plant: We started to install plumbing for the caustic soda pilot test. The operator compiled a list of parts for the Centrifuge to rebuild the unit. This will be the second rebuild since the unit has been in service.

Alarms: We responded to 17 alarms for November.

PA One Calls: We received 27 PA One calls for November.

2. Pennoni Engineer's Report for October

Mike Ellis provided the following report.

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Caustic soda pilot study – We coordinated with Mark Miller on tapping the SBR influent pipe, purchasing the chemical feed pump, and ordering two caustic soda totes. The pilot study can begin upon receipt of the pumps and totes.

Reservoir Road Pump Station

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

RCSTP and Pump Stations' O&M Manual

- 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

- The contractor, SWERP, was notified of award. They submitted bonds, insurance, and the contract agreement, which were reviewed and found acceptable. A pre-construction meeting is being scheduled, and we anticipate initial cleaning and televising work will begin in January.

Barkway Pump Station Grinder

- We attended a field scoping meeting at the pump station on November 9 with Mark Miller and the Muffin Monster vendor, Mark Wolff of Watermark Environmental Systems. The recommended solution is to install the Muffin Monster within the existing wet well (rather than in a new prefabricated upstream manhole as previously considered) with the hydraulic power pack (HPP) and controls inside of the building. The vendor confirmed that a hydraulically powered Muffin Monster will fit within the existing wet well, so this solution is recommended because it is less expensive and there will be no noise issues with the HPP located inside. However, due to the size of the existing building, the HPP is expected to create slight encroachments of a few equipment clearance distances as per current codes. We have submitted a sketch of the proposed HPP and Muffin Monster control panel layout for review by the Township's electrical inspector. If deemed acceptable, the design will be finalized. *No update since our last report.*

1 **Ashbridge Pump Station Force Main**

- 2 • Test pits will be performed to identify backfill conditions along Manley Road with one test pit
3 on Edith Road, as recommended by the Municipal Authority, when weather permits. We
4 coordinated with Mark Miller on the scope of these test pits.

5 **Tallmadge Drive Sewer Main Replacement**

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

15 **I&I Support and Reporting**

- 16 • We received and analyzed new meter data from the portable and permanent flow meters
17 throughout the collection systems. A draft report will be issued the week of January 8 for
18 review by the Township. We anticipate a review meeting with Mark Miller will follow and
19 that a finalized report will be submitted by the end of January.
20 •

21 **New Connections**

- 22 • No activity since last report.

23 **West Goshen Sewer System Consultation**

- 24 • No activity since last report.
25
26

27 **3. Big Fish Environmental Services Report for December** – Scott's report for December showed
28 that the Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted
29 discharge limitations during the month of November 2017. Discharge to Applebrook continued
30 during the month. Chemical usage utilized for total phosphorus removal, pH and total alkalinity
31 remained consistent with previous months. No significant mechanical or operational issues were
32 observed during operation of sludge dewatering equipment or SBR treatment process.
33
34

35 **Approval of Minutes**

36 The minutes of the December 11, 2017 meeting were approved as corrected.
37
38
39
40

1 **Approval of Invoices**

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

- 3 a. Pennoni #782383 \$ 8,764.25
4 b. Pennoni #782384 \$ 956.50
5 c. Pennoni #782386 \$ 2,802.81

6 Jack seconded the motion. The motion passed unanimously.
7

8 2. Dana moved to approve payment of Gawthrop Greenwood invoice #188890 for \$600.00. Jack
9 seconded the motion. The motion passed unanimously.
10

11 3. Jack moved to approve payment of an additional Gawthrop Greenwood invoice for \$680.00.
12 Kevin seconded the motion. The motion passed unanimously.
13

14 4. Kevin moved to approve payment of a West Goshen Sewer Authority invoice for \$30,050.70.
15 Dana seconded the motion. The motion passed unanimously.
16

17 **Liaison Reports**

18 Conservancy Board - Walter reported that Keep East Goshen Beautiful Day will be held on Saturday
19 April 21, at 8:00 am. They are considering Clymers Woods or the Blacksmith Shop area for their
20 Spring planting.

21 Board of Supervisors – Carmen reported that the BOS will hold a special meeting for the Malvern
22 Institute. The Township received notice that two more pipeline companies are changing from oil to
23 natural gases in their pipelines. Sunoco is currently shut down by the DEP.
24

25 **Financial Reports**

26 Jon Altshul provided the following written report:

27 In December, the Municipal Authority recorded \$71,123 in income (interest and a \$70,000 transfer
28 from the sewer operating fund) and \$1,117,878 in expenses for a negative variance of \$1,046,755.
29 The main expense was the \$1,042,736 payment to West Goshen for EGMA's share of the anaerobic
30 digester. This expense was paid from the balance of the capital account, which primarily includes
31 proceeds from the 2013 MA note.

32 Jack moved to approve \$9,400 for Maley to do the annual audit. Dana seconded the motion. The
33 motion passed unanimously.
34

35 **Old Business**

36 Kevin moved to elect the following officers for 2018:

37 Jack – Chairman

38 Kevin – Vice Chairman

39 Phil – Secretary

40 Dana – Treasurer

41 Ed – Assistant Secretary/Treasurer

42 Jack mentioned that Ed is moving to Lancaster. He thanked him for his service as Chairman.
43
44
45
46

1 **New Business**

2 **Resolution NO#34-A** - This resolution revises the grant amount requested for a Pennsylvania Small
3 Water and Sewer Program Grant to \$64,000.00 for the Barkway Pump Station improvements. All
4 MA members have to sign it. Ed moved to adopt and sign the Resolution NO#34-A. Dana seconded
5 the motion. The motion passed unanimously.
6

7 **Correspondence and Reports of Interest**

8 After Reviewing the anti-Authority amendments to SB 656 Jack asked Rick to send a letter of
9 opposition to this bill to all of our state representatives.
10

11 **Adjournment**

12 There being no further business, Ed moved to adjourn the meeting. Kevin seconded the motion. The
13 meeting was adjourned at 7:55 p.m. The next regular meeting will be held on Monday, February 12,
14 2018 at 7:00 pm.
15

16 Respectfully submitted,
17
18
19

20 Ruth Kiefer
21 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 # : 786299
Invoice Date : 01/25/2018
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 1/14/2018

Prepared list of obtained permits with expiration dates and renewal timeframes.

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	142.50
Expense :	0.00
Phase Total :	142.50

Amount Due This Invoice

\$142.50

Phase : 12 -- Permitting

Labor

Class

Hours/
Units

Rate

Amount

Senior Professional

1.25

114.00

142.50

Labor Total:

1.25

142.50

Total Phase : 12 -- Permitting

Labor : \$142.50

Expense : \$0.00

Total Project : EGMA1504 -- Reservoir Rd PS Design & Permitting

Labor : \$142.50

Expense : \$0.00

OK IRS 2-9-18

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 1/25/2018

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 786299
Invoice Period: 9/18/2017 to 1/14/2018
Initial Authorization: \$ 167,120.00 **Date:** 1/25/2018
Contract Amount: \$ 193,200.00
Previously Invoiced: \$ 192,507.25
Current Invoice: \$ 142.50
Invoiced to Date (\$): \$ 192,649.75
Invoiced to Date (%): 99.72%
Remaining Budget (\$): \$ 550.25
Remaining Budget (%): 0.28%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 50,940.25	
Previously Invoiced:	\$ 50,428.50	
Current Invoice:	\$ 75.75	
Invoiced to Date (\$):	\$ 50,504.25	
Invoiced to Date (%):	99.14%	
Remaining Budget (\$):	\$ 436.00	
Remaining Budget (%):	0.86%	

Comments: Prepared list of obtained permits with expiration dates and renewal timeframes

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 1/14/2018

Task No.	Activity	Contract Amount*	Invoiced Effort thru 9/17/2017	Remaining Budget (\$)	Remaining Budget (%)	Completed?
1	Concept Design	\$13,655.75	\$13,655.75	-	-	Yes
2	DEP WQM Pre-App. Meeting	\$1,300.00	\$1,300.00	-	-	Yes
3	Existing Conditions Survey	\$22,783.75	\$22,783.75	-	-	Yes
4	Sewer Stakeout in Easements	\$0.00	\$0.00	-	-	Scope eliminated
5	1636 Bow Tree Dr. Boundary Survey & Easement	\$4,020.00	\$4,020.00	-	-	Yes
6	Additional Boundary Surveys & Easements	\$0.00	\$0.00	-	-	Scope eliminated
7	Geotechnical Borings	\$4,000.00	\$4,000.00	-	-	Yes
8	Install Permanent Survey Benchmarks	\$0.00	\$0.00	-	-	Scope eliminated
9	Progress Design	\$29,450.00	\$29,450.00	-	-	Yes
10	Infiltration Testing	\$1,800.00	\$1,800.00	-	-	Yes
11	Final Design	\$65,170.25	\$64,993.50	\$176.75	0.3%	No**
12	Permitting	\$50,940.25	\$50,647.00	\$293.25	0.6%	No***
TOTAL		\$193,120.00	\$192,650.00	\$470.00	0.2%	

*After 12/14/2015 approved re-allocation of task budgets, 5/9/2016 approval of \$7,000 supplement, 7/11/16 approval of \$4,000 supplement, 11/14/16 approval of \$5,000 supplement, 4/10/17 approval of \$4,000 supplement, and 6/12/17 approval of \$6,000 supplement.

**Need to assemble full bid document package for Township.

*** All permits have been received. Need to prepare permit expiration and renewal date summary list.



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 # : 786300
Invoice Date : 01/25/2018
Project : EGMA1701
Project Name : 2017 General Services

For Services Rendered through: 1/14/2018

FINAL INVOICE

Phase **** General Engineering Professional Services: Reviewed November-December RCSTP operator's report; prepared for and attended December MA meeting.

Phase 02 Ashbridge PS Force Main Rehabilitation: Submitted email narrative and exhibits with rock depth and potential extents of rock as well as recommended test pit locations; and coordinated with PW Director for reduced scope of test pits focused along Manley Rd following December MA meeting.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	743.75
Expense :	0.00
Phase Total :	743.75

Phase : 02 -- Ashbridge PS Force Main Rehab

Total Phase : 02 -- Ashbridge PS Force Main Rehab

Labor :	133.25
Expense :	0.00
Phase Total :	133.25

Amount Due This Invoice

\$877.00

Fee :	36,700.00
Prior Billings :	33,859.00
Current Billings :	877.00
Total Billings :	34,736.00

ok RS 2-9-18

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>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	6.25	119.00	743.75
Labor Total:	6.25		743.75

Total Phase : **** -- Professional Services

Labor : \$743.75

Expense : \$0.00

Phase : 02 -- Ashbridge PS Force Main Rehab

Labor			
<i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	0.75	119.00	89.25
Associate Professional	0.50	88.00	44.00
Labor Total:	1.25		133.25

Total Phase : 02 -- Ashbridge PS Force Main Rehab

Labor : \$133.25

Expense : \$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor : \$877.00

Expense : \$0.00

East Goshen Municipal Authority
EGMA1701 Invoice Summary
Invoice Date 1/25/2018

Project:	EGMA1701		
Pennoni Job No.:	2017 General Services		
Invoice No:	786300		
Invoice Period:	12/21/2017	to	1/14/2018
Initial Authorization:	\$ 12,700.00	Date:	1/25/2018
Contract Amount:	\$ 36,700.00		
Previously Invoiced:	\$ 33,859.00		
Current Invoice:	\$ 877.00		
Invoiced to Date (\$):	\$ 34,736.00		
Invoiced to Date (%):	95%		
Remaining Budget (\$):	\$ 1,964.00		
Remaining Budget (%):	5%		

Budget by Phase:

Phase Name:	2017 General Services
Phase Budget:	\$ 36,700.00
Previously Invoiced:	\$ 33,859.00
Current Invoice:	\$ 877.00
Invoiced to Date (\$):	\$ 34,736.00
Invoiced to Date (%):	95%
Remaining Budget (\$):	\$ 1,964.00
Remaining Budget (%):	5%

Comments: FINAL INVOICE

Phase **** General Engineering Professional Services: Reviewed November-December RCSTP operator's report; prepared for and attended December MA meeting.

Phase 02 Ashbridge PS Force Main Rehabilitation: Submitted email narrative and exhibits with rock depth and potential extents of rock as well as recommended test pit locations; and coordinated with PW Director for reduced scope of test pits focused along Manley Rd following December MA meeting.



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 # : 786301
Invoice Date : 01/25/2018
Project : EGMA1702
Project Name : 2017 Semi-Annual I&I Reports

For Services Rendered through: 1/14/2018

FINAL INVOICE

Analyzed portable and permanent flow meter data; and initiated preparation of I&I Report #17.

Invoice is for effort through December 31, 2017. Related effort thereafter is invoiced under EGMAU18002.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,775.50
Expense :	0.00
Phase Total :	1,775.50

Amount Due This Invoice

\$1,775.50

Fee :	11,500.00
Prior Billings :	7,131.50
Current Billings :	1,775.50
Total Billings :	8,907.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	0.50	119.00	59.50
Associate Professional	19.50	88.00	1,716.00
Labor Total:	20.00		1,775.50

Total Phase : **** -- Professional Services

Labor :	\$1,775.50
Expense :	\$0.00

Total Project : EGMA1702 -- 2017 Semi-Annual I&I Reports

Labor :	\$1,775.50
Expense :	\$0.00

OK RS 2-9-18

East Goshen Municipal Authority
EGMA1702 Invoice Summary
Invoice Date 1/25/2018

Project:	EGMA1702		
Pennoni Job No.:	2017 Semi-Annual I&I Reports		
Invoice No:	786301		
Invoice Period:	9/18/2017	to	1/14/2018
Initial Authorization:	\$ 11,500.00	Date:	1/25/2018
Contract Amount:	\$ 11,500.00		
Previously Invoiced:	\$ 7,131.50		
Current Invoice:	\$ 1,775.50		
Invoiced to Date (\$):	\$ 8,907.00		
Invoiced to Date (%):	77%		
Remaining Budget (\$):	\$ 2,593.00		
Remaining Budget (%):	23%		

Budget by Phase:

Phase Name:	2017 Semi-Annual I&I Reports		
Phase Budget:	\$ 11,500.00		
Previously Invoiced:	\$ 7,131.50		
Current Invoice:	\$ 1,775.50		
Invoiced to Date (\$):	\$ 8,907.00		
Invoiced to Date (%):	77%		
Remaining Budget (\$):	\$ 2,593.00		
Remaining Budget (%):	23%		

Comments: FINAL INVOICE

Analyzed portable and permanent flow meter data; and initiated preparation of I&I Report #17.

Invoice is for effort through December 31, 2017. Related effort thereafter is invoiced under EGMAU18002.



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 # : 786302
Invoice Date : 01/25/2018
Project : EGMA1704
Project Name : Supplee Valley Pipe Lining & MH
Reh

For Services Rendered through: 1/14/2018

FINAL INVOICE

Wrote contract award letter to SWERP, coordinated with SWERP on bonding requirements, and prepared draft resident notification letters.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	552.50
Expense :	0.00
Phase Total :	552.50

Amount Due This Invoice

\$552.50

Fee :	10,000.00
Prior Billings :	9,428.00
Current Billings :	552.50
Total Billings :	9,980.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.50	119.00	178.50
Associate Professional	4.25	88.00	374.00
Labor Total:	5.75		552.50

Total Phase : **** -- Professional Services

Labor :	\$552.50
Expense :	\$0.00

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

Labor :	\$552.50
Expense :	\$0.00

East Goshen Municipal Authority
EGMA1704 Invoice Summary
Invoice Date 1/25/2018

Project: EGMA1704
Pennoni Job No.: Suplee Valley Pipe Lining & MH Reh
Invoice No: 786302
Invoice Period: 12/11/2017 to 1/14/2018
Initial Authorization: \$ 7,000.00 **Date:** 1/25/2018
Contract Amount: \$ 10,000.00
Previously Invoiced: \$ 9,428.00
Current Invoice: \$ 552.50
Invoiced to Date (\$): \$ 9,980.50
Invoiced to Date (%): 100%
Remaining Budget (\$): \$ 19.50
Remaining Budget (%): 0%

Budget by Phase:

Phase Name: Suplee Valley Pipe Lining & MH Reh
Phase Budget: \$ 10,000.00
Previously Invoiced: \$ 9,428.00
Current Invoice: \$ 552.50
Invoiced to Date (\$): \$ 9,980.50
Invoiced to Date (%): 100%
Remaining Budget (\$): \$ 19.50
Remaining Budget (%): 0%

Comments: FINAL INVOICE

Wrote contract award letter to SWERP, coordinated with SWERP on bonding requirements, and prepared draft resident notification letters.



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 # : 786304
Invoice Date : 01/25/2018
Project : EGMAU17007
Project Name : Supplee Valley CIPPL Construction

For Services Rendered through: 1/14/2018

Construction phase office support consisting of reviewing SWERP's insurance, bonding, and contract agreement forms; updating resident notification letters; reviewing shop drawings and pipe liner design calculations; and preparing for pre-construction meeting.

Effort in 2017 is invoiced at approved 2017 hourly rates; effort in 2018 is invoiced at approved 2018 hourly rates.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,181.75
Expense :	0.00
Phase Total :	1,181.75

Amount Due This Invoice

\$1,181.75

Fee :	12,000.00
Prior Billings :	0.00
Current Billings :	1,181.75
Total Billings :	1,181.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	123.00	123.00
Authority Engineer	1.25	119.00	148.75
Senior Professional	0.50	117.00	58.50
Associate Professional	6.25	91.00	568.75
Associate Professional	3.25	87.00	282.75
Labor Total:	12.25		1,181.75

Total Phase : **** -- Professional Services

Labor :	\$1,181.75
Expense :	\$0.00

Total Project : EGMAU17007 -- Supplee Valley CIPPL Construction

Labor :	\$1,181.75
Expense :	\$0.00

ok RS 2-9-18

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

East Goshen Municipal Authority
EGMAU17007 Invoice Summary
Invoice Date 1-25-2018

Project:	EGMAU17007		
Pennoni Job No.:	Supplee Valley CIPPL Construction		
Invoice No:	786304		
Invoice Period:	NTP	to	1/14/2018
Initial Authorization:	\$	12,000.00	Date: 1/25/2018
Contract Amount:	\$	12,000.00	
Previously Invoiced:	\$	-	
Current Invoice:	\$	1,181.75	
Invoiced to Date (\$):	\$	1,181.75	
Invoiced to Date (%):		10%	
Remaining Budget (\$):	\$	10,818.25	
Remaining Budget (%):		90%	

Budget by Phase:

Phase Name:	Supplee Valley CIPPL Construction		
Phase Budget:	\$	12,000.00	
Previously Invoiced:	\$	-	
Current Invoice:	\$	1,181.75	
Invoiced to Date (\$):	\$	1,181.75	
Invoiced to Date (%):		10%	
Remaining Budget (\$):	\$	10,818.25	
Remaining Budget (%):		90%	

Comments: Construction phase office support consisting of reviewing SWERP's insurance, bonding, and contract agreement forms; updating resident notification letters; reviewing shop drawings and pipe liner design calculations; and preparing for pre-construction meeting.

Effort in 2017 is invoiced at approved 2017 hourly rates; effort in 2018 is invoiced at approved 2018 hourly rates.



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 # : 786305
Invoice Date : 01/25/2018
Project : EGMAU18001
Project Name : 2018 General Services

For Services Rendered through: 1/14/2018

Prepared January Engineer's Report. Initiated evaluation of feasibility to disconnect elementary school mechanical room floor drain from sanitary sewer.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	123.00
Expense :	0.00
Phase Total :	123.00

Amount Due This Invoice

\$123.00

Fee :	18,000.00
Prior Billings :	0.00
Current Billings :	123.00
Total Billings :	123.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	123.00	123.00
Labor Total:	1.00		123.00

Total Phase : **** -- Professional Services

Labor :	\$123.00
Expense :	\$0.00

Total Project : EGMAU18001 -- 2018 General Services

Labor :	\$123.00
Expense :	\$0.00

OK RS 2-9-18

East Goshen Municipal Authority
EGMAU18001 Invoice Summary
Invoice Date 1-25-2018

Project: EGMAU18001
Pennoni Job No.: 2018 General Services
Invoice No: **786305**
Invoice Period: NTP to 1/14/2018
Initial Authorization: \$ 18,000.00 **Date:** 1/25/2018
Contract Amount: \$ 18,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 123.00
Invoiced to Date (\$): \$ 123.00
Invoiced to Date (%): 1%
Remaining Budget (\$): \$ 17,877.00
Remaining Budget (%): 99%

Budget by Phase:

Phase Name: 2018 General Services
Phase Budget: \$ 18,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 123.00
Invoiced to Date (\$): \$ 123.00
Invoiced to Date (%): 1%
Remaining Budget (\$): \$ 17,877.00
Remaining Budget (%): 99%

Comments: Prepared January Engineer's Report. Initiated evaluation of feasibility to disconnect elementary school mechanical room floor drain from sanitary sewer.



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 # : 786306
Invoice Date : 01/25/2018
Project : EGMAU18002
Project Name : 2018 I&I Support and Reports

For Services Rendered through: 1/14/2018

Continued analysis of portable and permanent flow meter data and preparation of I&I Report #17.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,297.75
Expense :	0.00
Phase Total :	1,297.75

Amount Due This Invoice

\$1,297.75

Fee :	11,000.00
Prior Billings :	0.00
Current Billings :	1,297.75
Total Billings :	1,297.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.25	123.00	153.75
Senior Professional	2.00	117.00	234.00
Associate Professional	10.00	91.00	910.00
Labor Total:	13.25		1,297.75

Total Phase : **** -- Professional Services

Labor :	\$1,297.75
Expense :	\$0.00

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

Labor :	\$1,297.75
Expense :	\$0.00

East Goshen Municipal Authority
EGMAU18002 Invoice Summary
Invoice Date 1-25-2018

Project: EGMAU18002
Pennoni Job No.: 2018 I&I Support and Reports
Invoice No: **786306**
Invoice Period: NTP to 1/14/2018
Initial Authorization: \$ 11,000.00 **Date:** 1/25/2018
Contract Amount: \$ 11,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,297.75
Invoiced to Date (\$): \$ 1,297.75
Invoiced to Date (%): 12%
Remaining Budget (\$): \$ 9,702.25
Remaining Budget (%): 88%

Budget by Phase:

Phase Name: 2018 I&I Support and Reports
Phase Budget: \$ 11,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,297.75
Invoiced to Date (\$): \$ 1,297.75
Invoiced to Date (%): 12%
Remaining Budget (\$): \$ 9,702.25
Remaining Budget (%): 88%

Comments: Continued analysis of portable and permanent flow meter data and preparation of I&I Report #17.



INVOICE

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

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

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

Invoice # : 786307
Invoice Date : 01/25/2018
Project : EGMAU18003
Project Name : 2017 Chapter 94 Reports

For Services Rendered through: 1/14/2018

Initiated data gathering and analysis and preparation of Chapter 94 Reports for West Goshen (Chester Creek), Ridley Creek, and Westtown Service Areas.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,341.75
Expense :	0.00
Phase Total :	1,341.75

Amount Due This Invoice

\$1,341.75

Fee :	11,000.00
Prior Billings :	0.00
Current Billings :	1,341.75
Total Billings :	1,341.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	123.00	123.00
Senior Professional	0.50	117.00	58.50
Associate Professional	12.75	91.00	1,160.25
Labor Total:	14.25		1,341.75

Total Phase : **** -- Professional Services

Labor :	\$1,341.75
Expense :	\$0.00

Total Project : EGMAU18003 -- 2017 Chapter 94 Reports

Labor :	\$1,341.75
Expense :	\$0.00

East Goshen Municipal Authority
EGMAU18003 Invoice Summary
Invoice Date 1-25-2018

Project: EGMAU18003
Pennoni Job No.: 2017 Chapter 94 Reports
Invoice No: **786307**
Invoice Period: NTP to 1/14/2018
Initial Authorization: \$ 11,000.00 **Date:** 1/25/2018
Contract Amount: \$ 11,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,341.75
Invoiced to Date (\$): \$ 1,341.75
Invoiced to Date (%): 12%
Remaining Budget (\$): \$ 9,658.25
Remaining Budget (%): 88%

Budget by Phase:

Phase Name: 2017 Chapter 94 Reports
Phase Budget: \$ 11,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 1,341.75
Invoiced to Date (\$): \$ 1,341.75
Invoiced to Date (%): 12%
Remaining Budget (\$): \$ 9,658.25
Remaining Budget (%): 88%

Comments: Initiated data gathering and analysis and preparation of Chapter 94 Reports for West Goshen (Chester Creek), Ridley Creek, and Westtown Service Areas.



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
01/09/2018
Client No: 6604-001R
Invoice No. 190131

General Authority Services

Fees

		Hours		
12/11/2017				
PMM	Review and analyze meeting packet in preparation for Authority meeting.	0.40		
PMM	Attend Authority Meeting.	3.00		
	For Current Services Rendered	3.40		680.00
Recapitulation				
Timekeeper		Hours	Hourly Rate	Total
Patrick M. McKenna		3.40	\$200.00	\$680.00
	Previous Balance			\$600.00
	Total Current Charges			680.00
01/02/2018	Payment			-600.00
	Balance Due			<u>\$680.00</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 January Financial Report
Date: February 8, 2017

In January, the Municipal Authority recorded \$815 in income (one connection fee and interest) and \$43,354 in expenses (primarily \$30,051 for West Goshen Capital and general engineering expenses), for a negative variance of \$43,354.

As of January 31st, the fund balance was \$99,792, of which \$72,280 is in the main construction account (most of which represents the 2013 note) and the remaining \$27,512 is in the operating account with M&T. Note that in January, we closed a small MA account with DNB First Bank, which is where we had been depositing tap in fees, and transferred the balance to M&T. Once the balance of the construction account is drawn down, the MA will only have the one checking account with M&T.

Two weeks ago, I submitted the Small Water & Sewer Program application to DCED for the Barkway Pump Station project. Hopefully, we will receive word on our application by early spring.

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
JANUARY 2018

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)				
101,938.77				
CAPITAL:				
REVENUE				
INTEREST EARNED - CONSTRUCTION	07341 1020	50	391.64	391.64
TOTAL REVENUE		50	391.64	391.64
EXPENSES				
C.C. CAPITAL - COLLECTION	07424 7420	0	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0	0.00	0.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0	0.00	0.00
WEST GOSHEN CAPITAL	07429 6100	59,736	30,050.70	30,050.70
TOTAL EXPENSES		59,736	30,050.70	30,050.70
NET CAPITAL		(59,686)	(29,659.06)	(29,659.06)
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT				
72,279.71				

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
JANUARY 2018

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING:				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&T)				
REVENUE				
INTEREST EARNINGS	07341 1000	10	0.31	0.31
C.C. TAPPING FEES	07364 1100	8,000	0.00	0.00
R.C. TAPPING FEES	07364 1110	2,000	0.00	0.00
CONNECTION FEES - SEWER	07364 1130	1,692	423.00	423.00
MISCELLANEOUS REVENUE	07380 1000	0	0.00	0.00
TRANSFER FROM SEWER OPERATING	07392 0500	75,853	0.00	0.00
TOTAL REVENUE		87,555	423.31	423.31
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	32,411	0.00	0.00
MISCELLANEOUS EXPENSE	07424 3000	2,500	100.00	100.00
MUNIC.AUTH.-AUDITING	07424 3110	9,384	0.00	0.00
ENGINEERING SERVICES	07424 3130	43,260	12,523.56	12,523.56
LEGAL SERVICES	07424 3140	0	680.00	680.00
M.C.-DVRFA-DEBT SERVICE	07471 1000	0	0.00	0.00
M.C.-DVRFA-INTEREST PAYMIN	07472 1010	0	0.00	0.00
TOTAL EXPENSES		87,555	13,303.56	13,303.56
NET OPERATING		0	(12,880.25)	(12,880.25)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING				
MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING				

East Goshen Township General Ledger

Report Date 02/08/18

GL Transaction Details

PAGE 1

MGRP18 run by BRIAN

8 : 55 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000			INTEREST EARNINGS			0.00				
	1801	JE	61740		0.31		02/02/18	INTEREST		INTEREST EARNED JANUARY 2018 07 FUND
07341-1000	****	***	****	0.00	0.31	-0.31				
07341-1020			INTEREST EARNED - CONSTRUCTION			0.00				
					391.64		02/02/18	INTEREST		INTEREST EARNED JANUARY 2018 07 FUND
07341-1020	****	***	****	0.00	391.64	-391.64				
07364-1130			CONNECTION FEES - SEWER			0.00				
		CR	61617		423.00		01/25/18	2572	10606	1 STOFFLET, MICHAEL
07364-1130	****	***	****	0.00	423.00	-423.00				
07424-3000			MISCELLANEOUS EXPENSE			0.00				
		CD	61728	100.00			01/31/18	3114		3353 COMMONWEALTH FINANCING AUTHORITY GRANT APPLIC. DCED - WATER & SEW PROGRAM FOR BARKWAY
07424-3000	****	***	****	100.00	0.00	100.00				
07424-3130			ENGINEERING SERVICES			0.00				
			61613	12,523.56			01/24/18	3113		1052 PENNONI ASSOCIATES INC. SERV.THUR 12/10/17 2017 GENERAL SERVICES
07424-3130	****	***	****	12,523.56	0.00	12,523.56				
07424-3140			LEGAL SERVICES			0.00				
				680.00			01/24/18	3112		528 GANTHROP GREENWOOD & HALSTED LEGAL SERVICES DEC. 2017 GEN.AUT
07424-3140	****	***	****	680.00	0.00	680.00				
07429-6100			WEST GOSHEN CAPITAL			0.00				
			61614	30,050.70			01/24/18	22015		3843 WEST GOSHEN SEWER AUTHORITY 16.67% OF COST - ENHANCED CHEMIC ADDITION
07429-6100	****	***	****	30,050.70	0.00	30,050.70				

East Goshen Township General Ledger

Report Date 02/08/18

GL Transaction Details

PAGE 2

MGRP18 run by BRIAN

8 : 55 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
Grand Total			43,354.26	814.95	42,539.31				

Source	Debits	Credits
JE	0.00	391.95
CR	0.00	423.00
CD	43,354.26	0.00
	43,354.26	814.95

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

February 7, 2018

East Goshen Township ABC Members
1580 Paoli Pike
West Chester, PA 19380

Dear ABC Members:

The East Goshen Township ABC Annual Planning Session was held on Saturday, January 6, 2018. This was one of the best planning sessions that we have had to date, and it was due in no small part to the efforts of the ABC members in attendance.

Enclosed is a list of the goals that were presented by the ABCs at the planning session.

At their meeting on February 6, 2018 the Board of Supervisors approved these goals.

It would be appreciated begin working on these goals ASAP.

Also please provide me with a status report on your goals by August 29th. The Board will review them at its meeting on September 5, 2017.

Sincerely,



Louis F. Smith, Jr.
Township Manager

Enclosure

Memo

East Goshen Township

Date: February 1 2018
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: 2018 ABC Goals

The Board needs to set the 2018 ABC Goals. The goals listed below are a summation of what was presented at the Planning Session. Where applicable I have noted the appropriate objective from the Comp Plan or action from the Park Rec and Open Space Plan. I have also identified three goals for the Board.

If the Board approves the goals I will send a cover letter with the goals to each ABC and ask them to submit a status report for the Board's review at their meeting on September 4.

Conservancy Board

1. Continue invasive species control - **Comp Plan Objective 11.6**
2. Continue maintenance of the blue bird houses in Applebrook
3. Develop a maintenance plan for the Serpentine Barren – **PR&OS Plan Action 2.2C**
4. Keep East Goshen Beautiful Day - **Comp Plan Objective 11.4**
5. Maintain the riparian buffer along the creeks
6. Maintain Clymer's Woods.
7. Review the pond study and make a recommendation to the Board of Supervisors.

Futurist Commission

1. The creation of a much needed "town center" to house specialty shops, restaurants, micro businesses, and central gathering areas. **Comp Plan Objective 7.1**
2. Develop clear signage and lighting to highlight the "town center". **Comp Plan Objective 6.1**
3. Support a referendum to allow for liquor sales.

4. Establish a strategic long-range planning objective with steps outlining how to achieve the objective and the stated benefits to all residents.
5. Rebranding the Town Center as “Goshenville”.

Municipal Authority

1. Continue to monitor the upgrades at West Goshen Sewer Plant. **Comp Plan Objective 10.1**
2. Continue to implement the Inflow (surface water) & Infiltration (groundwater) (collectively “I&I”) Plan. **Comp Plan Objective 10.1**
3. Submit articles for the newsletter.

Park & Recreation Commission

1. Increase pedestrian circulation along Paoli Pike, especially in the form of a “Paoli Pike Promenade” with sidewalks and crosswalks, as well as increasing pedestrian circulation and safety along Greenways, with trails, walkways and crosswalks. **Comp Plan Objective 8.6**
2. Develop the Paoli Pike Trail to create the linkage between West Chester and Malvern, through East Goshen, from West Goshen to Willistown and consider the potential for feeder trails from the various developments to the Paoli Pike Trail. **Comp Plan Objective 8.6**
3. Complete the playground renovation. **Comp Plan Objective 9.3**
4. Renovate the basketball court area **Comp Plan Objective 9.3**
5. Improve the upper sports fields to include landscaping and a new access. **Comp Plan Objective 9.3**
6. Install security cameras in the park. **Comp Plan Objective 9.3**
7. Make the Veterans Pavilion more user friendly for seniors. **Comp Plan Objective 9.3**
8. Improve the pathway from the Pavilion to the Pickle Ball Court. **Comp Plan Objective 9.3**
9. Installed a picnic area to support the playground and the baseball fields. **Comp Plan Objective 9.3**

Planning Commission

1. Review the PPMCP and look at the overlay district to determine what needs to be amended in the Zoning Ordinance. **Comp Plan Objective 6.2 and 6.2**
2. Look at single family development for the remaining parcels in the township. **Comp Plan Objective 5.2 and 5.5**

Board of Supervisors

Review and update as need the Comp Plan Implementation Matrix. **Comp Plan Notes on page 16-1**

Adopt a parkland standard of 28.20 acres per 1,000 residents **PR&OS Plan Action 1.1A**

Adopt a mandatory Dedication of Parkland Ordinance. **PR&OS Plan Action 1.1B**

Adopt the Pond Study and a schedule for implementing the recommendations. **PR&OS Plan Action 2.2B**

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

January 4, 2018

FYI

Dana Pizarro
1602 Ivy Lane
West Chester, PA 19380

RE: Municipal Authority Appointment

Dear Dana:

I am pleased to inform you that at their meeting on Tuesday, January 2, 2018, the Board of Supervisors appointed you to a five-year term as PE to the East Goshen Township Municipal Authority. Your term will expire at the end of the year 2022.

We thank you for your hard work in the past and look forward to working with you in the coming years. If we can ever be of any assistance, please do not hesitate to call.

Sincerely yours,



Louis F. Smith, Jr.
Township Manager

cc: Municipal Authority