

EAST GOSHEN MUNICIPAL AUTHORITY

May 11, 2015

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 Inc. Report with DMR's
- d. East Goshen Township Flows

3. APPROVAL OF MINUTES

- a. April 13, 2015

4. APPROVAL OF INVOICES

a. Pennoni	Invoice #634359	\$1,869.00
b. Pennoni	Invoice #634360	\$3,622.50
c. Pennoni	Invoice #634361	\$4,645.00
d. Pennoni	Invoice #634362	\$6,637.00
e. Pennini	Invoice #634363	\$9,188.75

5. LIAISON REPORTS

6. FINANCIAL REPORTS

- a. April 2015 Report

7. OLD BUSINESS

- a. RCSTP electrical single-line as-built diagram with notes from Pennoni also Lenni
Elect. TVSS install

8. GOALS

- a. Submit an article for each newsletter – Due date for newsletter
Need by 1/30/15 – Jack - **Completed**
Need by 5/1/15 – Dana - **Completed**
Need by 8/31/15
Need by 10/30/15

- b. Obtain construction permits for the Reservoir Road Pump Station – December 31, 2015 2/6 – Test boring done, meeting with Mike to review preliminary site plan and discuss control options. 3/9 concept design completed, met with PA DEP. **5/11 stormwater perc test completed, scheduled to meet with CCCD on 5/21**
 - c. Attend West Goshen Meetings quarterly – more often if needed.
 - 1st Quarter – Jack - **Completed**
 - 2nd Quarter – Jack - **Completed**
 - 3rd Quarter
 - 4th Quarter
 - d. Respond to capacity requests in 45 days or less.
 - e. Continue to implement I & I Plan **5/11 meeting with Mike on 5/13 to review plan**
 - f. Operate RCSTP in compliance with NPDES Permit **February, March**
9. NEW BUSINESS
- a. Acknowledge receipt of letter concerning presentation of the Comp Plan to the ABCs on Wednesday June 10, 2015 at 7 pm
10. CAPACITY REQUESTS
11. ANY OTHER MATTER
12. CORRESPONDENCE AND REPORTS OF INTEREST
13. PUBLIC COMMENT
14. ADJOURNMENT

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

May 6, 2015

To: Municipal Authority
From: Mark Miller
Re: April 2015 Monthly Report

Meters:

All meters were read on a daily basis there were no problems to speak of for the month. Allied Control has started the work with regards to the remote meters. Modems have been ordered, once they arrive Allied will start the installation.

C.C. Collection:

All pumping stations were visited on a daily basis with no problems to report. We made 10 sewer cap repairs this month. Ironically while talking with a resident about the sewer system I explained how frost pushes up the clean-outs. I stepped on their clean-out to demonstrate and pushed it down 6 inches.

We had to replace a broken manhole casting and lid on Green Hill Road. As part of our road paving program we will be cleaning and televising Supplee Valley and Cooper Circle. We will also be replacing all manhole casting and lids. I will have a report of our findings at the June meeting. Horn Plumbing contacted me about a new connection on Strasburg Road.

R.C. Collection:

The Hunt Country Pump Station had no problems to report. Once we get the Chester Creek meters up and running we will begin installation of the three meters on the collection system. We replaced several sewer caps on the collection system. Horizon Plumbing did a trap and clean-out repair in Bowtree due to the riser pulling out. I made the inspection and advised them to call us if they do any other repairs.

R.C. Plant:

We performed routine basis this month. The roof on the original building was replaced. We also had to replace several sheets of plywood as well. If you recall the building was Stucco. We have had problems with water getting behind the stucco which caused it to fall off. We have made several attempts to repair the stucco but we were unsuccessful. We hired Springer Brothers to install siding on the building. Scott asked that we order oil for the pumps and other equipment. On May 4 we started sending water to Applebrook Golf Course.

Re-sale Inspections:

We had six re-sale lateral inspections in the Twp. So far the ones I have done were very simple inspections.

Alarms:

We responded to 15 alarms for April.

PA One Calls:

We received 50 PA One calls since April.

Confined Space Training:

On April 24, the Public Works Department employees attended a confined space training course at the Lancaster Fire Safety Training Center, the course was taught by paid fire officers from the Baltimore Fire Department, Anne Arundel Fire Dept. and the Washington D.C. Fire Dept. the following Twps. And companies participated: East Goshen Twp., West Whiteland Twp., Willistown Twp., Uwchlan Twp. And Lenni Electric sent three electricians as well. WE did two hours of classroom training and we then went to the confined space area where we put our equipment to use. The instructors put us thru several scenarios which included a manhole rescue of a downed employee, the course was well received.

We then went back to the classroom where we had to take a thirty question test. The instructors praised our group for the way we performed our different scenarios. They were impressed that everyone participated without having to be told. They also liked the way the men knew their equipment. They recommended that we purchase two more escape air packs and masks, this is because when you have two men in a confined space **OSHA requires that you have two men ready to go in the event someone does down.** All the students had an awesome time however the next day we were all very sore but it was well worth it.



MEMORANDUM

TO: East Goshen Municipal Authority Board
Rick Smith, Township Manager

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: May 8, 2015

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- We provided correspondence and a single-line diagram mark-up to the Township documenting the existing surge protection (TVSS) components in the plant.

Reservoir Road Pump Station

- We continued with the progress design including site layout, diversion details and diversion piping profiles, pump design, wet well and valve vault, building architectural and HVAC, power, controls, and force main alignment and profiles. We performed a field recon of the proposed force main alignment as well to identify conflicts, namely other underground utilities.
- The current progress design plans will be reviewed with the Township Manager and PW Director on May 13th. We expect to have the progress (approx 60%) plans completed by the June MA meeting.
- We performed infiltration testing at the proposed pump station site on April 15th. Four test pits were excavated, and limiting conditions were found at shallow depths in two of them – rock in one, groundwater in the other. The infiltration rate in the other pits was 0.25 inches/hour, which is extremely limited. We are evaluating the stormwater management concepts in light of the severely limited infiltration capability.
- A NPDES Stormwater pre-application meeting has been scheduled with PADEP and the Chester County Conservation District on May 21st. The

Hershey's Mill PS and Marydell PS Diversions

- The 2-year Maintenance Bonds on the Hershey's Mill PS and Marydell PS Diversions expire on July and August respectively. We recommend warranty inspections be performed this month (May).

New Connections

- We performed a field inspection during the Acero Pump Station force main pressure test and conducted a preliminary inspection of the private pump station and valve vault.
- We received a submission for a proposed grinder pump at 1414 Bramble Lane that will be reviewed the week of May 11th.



Monthly Operations Report: April 2015

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 exceeded the monthly average discharge limitation for ammonia as nitrogen during the month of March. The elevated ammonia nitrogen discharge concentration was the results of excessive wasting of activated sludge, precipitation and seasonal changes. There was no discharge to Applebrook, which is identified as outfall 002. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. The cloth media for disc filter number 2 cloth media was replaced. There were no operational issues were observed during operation sludge dewatering equipment. SBR number 3 decanter was periodically tilted and required adjustment.

Treatment Process Operation

During March 2015, there was one exceedance of the final effluent discharge limitation of the monthly average for ammonia as nitrogen for outfall 001. To control the excessive foam accumulation of the surface of the SBRs resulting from the presence of the filamentous bacteria *Microthrix parvicella*, sludge wasting was increased to raise the F:M ratio and reduce the total suspended solids (TSS) concentrations entering the post flow equalization (EQ) basins and final effluent. In early March, it a tear in the cloth media for disc filter number 2 was discovered. This tear was the root source for the elevated TSS concentrations in the final effluent discharge rather than carryover solids from the SBRs into the post EQ basins. Replacement of the disc filter cloth media and adjustments to the activated sludge process resulted in reinstating the nitrification process and lowering the TSS concentrations in the final effluent discharge.

The early spring season is typically when the biological process is transitioned from the winter season mode (cold weather) of operation to the spring/summer mode of operation with increased ambient air and water temperatures. This transition also contributed to the decreased nitrification effectiveness through lower ambient air temperatures and precipitation ranging from rainfall to snow.

The total phosphorus monthly average concentration of 0.26 mg/L as compared to the permitted limitation of 0.50 mg/L. Table 1 illustrates the final effluent composite sample data reported for the March 2015 eDMR. During the month, the final effluent total phosphorus concentration discharged ranged from 0.15 mg/L to 0.40 mg/L. The aluminum sulfate daily average increased during March to 98.4 gpd.



Table 1

March 2015 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-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
	Instantaneous Maximum	40		42							
Sample Date											
March 3, 2015	0.371	3.5	10.8	15	46	2.00	6.19	0.40	1.24	89	1.9494
March 9, 2015	0.460			9	35						
March 10, 2015	0.528	4.4	19.4	4	18	4.44	19.6	0.20	0.88	1	0.0000
March 12, 2015	0.410			7	24						
March 17, 2015	0.411	4.7	16.1	6	21	10.30	35.3	0.30	1.03	14	1.1461
March 18, 2015	0.426			6	21						
March 19, 2015	0.360			15	45						
March 24, 2015	0.454	5.40	20.4	15	57	11.10	42.0	0.26	0.98	2	0.3010
March 25, 2015	0.354			15	44						
March 27, 2015	0.506			7	30						
March 31, 2015	0.381	2.40	7.63	10	32	10.50	33.4	0.15	0.48	2	0.3010
Average	0.424	4.1	14.9	10	34	7.7	27.3	0.26	0.92	7	0.8491
Minimum	0.354	2.4	7.6	4	18	2.0	6.19	0.15	0.48	1	0.0000
Maximum	0.528	5.4	20.4	15	57	11.1	42.0	0.40	1.24	89	1.9494

There was no discharge from Outfall 002 to Applebrook during March 2015. Table 2 illustrates the influent wastewater pollutant loadings for March 2015. The influent loadings remained within the treatment facility design loadings.



Table 2

March 2015 - 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											
March 3, 2015	0.485	171	692	104	421	31.0	125	39.1	3.8	4.2	17
March 10, 2015	0.836	199	805	64	259	33.7	136	31.9	2.0	3.8	15
March 17, 2015	0.551	42.8	173	69	279	16.8	68	17.8	4.6	2.0	8
March 24, 2015	0.444	186	752	210	849	27.5	111	40.4	4.2	4.6	19
March 31, 2015	0.460	189	764	199	805	28.8	116	43.8	4.2	4.2	17
Average	0.555	158	637	129	452	27.6	111	34.6	4	3.8	15
Minimum	0.444	43	173	64	259	16.8	68	17.8	2	2.0	8
Maximum	0.836	199	805	210	849	33.7	136	43.8	5	4.6	19

Table 3 presents the available Outfall 001 final effluent data for the month of April 2015. During April, excessive foam conditions remained on the surface of the SBRs resulting from the filamentous bacteria *Microthrix parvicella*

Process control measures to minimize the adverse effects of the *Microthrix parvicella* bacterium included increased lowering the MLSS concentrations. One impact of lowering the MLSS concentrations during this time of year as temperatures and hydraulic conditions vary, result in inhibiting the effectiveness of nitrification. During March, the final effluent ammonia as nitrogen concentrations became elevated.

At the present time, there are no anticipated exceedances of the permitted limitations for April 2015. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.



Table 3

April 2015 - 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	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
April 7, 2015	0.346	6.7	19.3	16	46	2.87	8.28	0.28	0.81	10	1.0000
April 14, 2015	0.356	5.9	17.5	10	30	0.696	2.07	0.36	1.07	1	0.0000
April 16, 2015	0.309			7	18						
April 21, 2015	0.396	4.2	13.9	13	43	0.54	1.8	0.45	1.49	1	0.0000
April 23, 2015	0.361			6	18						
April 24, 2015	0.339			6	17						
April 28, 2015	0.297							0.35	0.87	1.00	0.0000
Average	0.343	5.6	16.9	10	29	1.4	4.0	0.36	1.06	2	0.2500
Minimum	0.297	4.2	13.9	6	17	0.5	1.79	0.28	0.81	1	0.0000
Maximum	0.396	6.7	19.3	16	46	2.9	8.3	0.45	1.49	10	1.0000

During April 2015, there was no discharge of treated effluent to Applebrook. The pump has been placed in the off mode during the winter months. The pump for Applebrook was activated on May 4, 2015.

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations and loadings. 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 4 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during April 2015.



Table 4

April 2015 - 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											
April 7, 2015	0.451	83.1	312	223	838	39.5	149	45.1	169.6	6.2	23
April 14, 2015	0.455	171	643	134	504	33.9	127	46.1	175.1	5.5	21
April 21, 2015	0.477	93.2	350	110	414	33.8	127	40.5	161.2	5.2	20
April 28, 2015	0.413										
Average	0.449	116	435	156	585	35.7	134	43.9	169	5.6	21
Minimum	0.413	83	312	110	414	33.8	127	40.5	161	5.2	20
Maximum	0.477	171	643	223	838	39.5	149	46.1	175	6.2	23

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during March and April

Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. The average coverage of the surface area was estimated at 90%. Increased sludge wasting rates were maintained to manage the MLSS concentrations and F:M ratio within the desired goals. Daily monitoring of the influent and final effluent 24-hour composites samples for total phosphorus is ongoing. 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. The volume of aluminum sulfate solution to the SBRs increased to a daily average of 98.4 as compared to the previous month average of 87.0 gpd. During April, soda ash daily addition increased to 465 lbs. per day as compared to the previous month's average of 389 lbs. per day. 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.

SBR No. 2 remains out of service as a treatment unit. Minor repairs will be scheduled as weather conditions permit.

Solids Dewatering and Disposal: April 2015

Sludge Dewatering Summary	
Gallons of sludge dewatered	262,122
Average Dewatered Total Solids, %	NA
Wet Tons	NA
Dry Tons	NA
Number of dumpsters	4

**Seventeen (17) days of centrifuge operation*

Flow data:

April 2015			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	13.163	438,754	579,630
Influent Wastewater to SBRs	12.998	433,263	502,656
Internal Recycle	0.272	9,051	59,170
Treated Effluent to Disc Filters	12.904	430,142	537,856
Final Effluent Discharge	10.169	338,967	422,000
Applebrook Golf Course	0	0	0

Chemical Usage:

April 2015		
Chemical	Daily Average	Total Monthly
Soda Ash	465	14,400
Aluminum Sulfate solution	98.4	2,854
Polymer (centrifuge)	0.84	14.3

**Seventeen (17) days of centrifuge operation*



During April, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids. Sludge holding tank No. 1 was in service. The level at the beginning of April was 9.69 feet and the level at the end of the month was 8.76 feet. The initial total solids concentration was 0.71% increasing to 0.90% at the end of the month. The average pH concentration was 7.01 S.U. The average total alkalinity concentration was 240 mg/L. Zero gallons of supernatant were decanted during the month. A total of 450 pounds of soda ash were added.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 8.12 feet and the level at the end was 10.87. The initial total solids concentration was 0.91% total solids decreasing to 0.75% at the end of the month. The average pH concentration was 6.64 S.U. and 900 pounds of soda ash was added. The average total alkalinity concentration was 168 mg/L. Zero gallons of supernatant were decanted.

Significant Storm/Hydraulic Loading Events

During April, there was one storm event resulting in daily precipitation amounts greater than 0.5 inches measured during a 24 hour period. On April 20th, 0.98 inches of rainfall was recorded. A total of 2.4 inches of rainfall was measured at the facility during March.

Minor Repairs and Preventative Maintenance

The cloth media for disc filter number 2 was replaced.

[illegible]

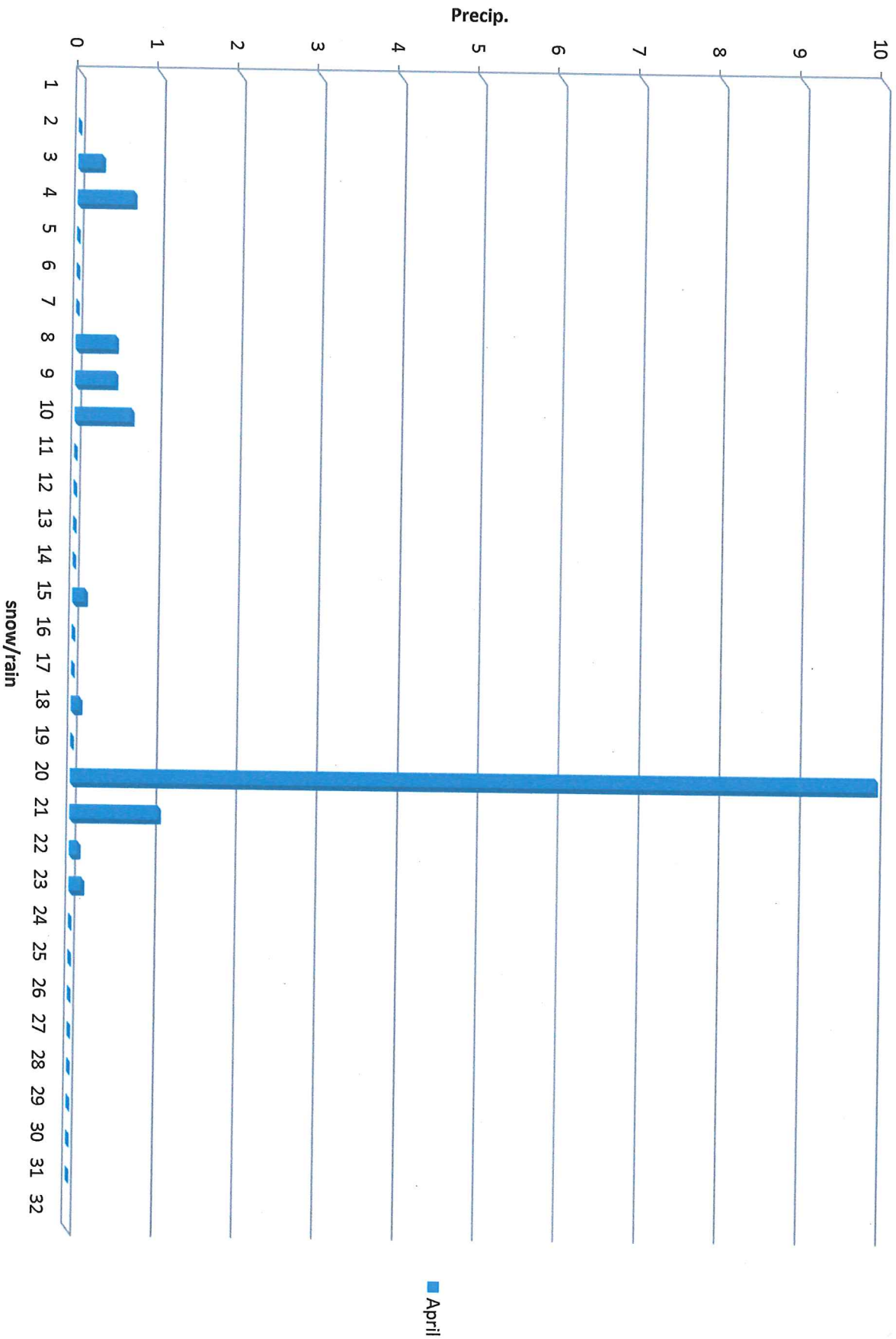
HERSHEY'S MILL			ASHBRIDGE			HICKS METER			RESERVOIR			BARKWAY		
DATE	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD	READING	GPD		
04/01/15	33,493,201	876,090	2,097,391	70,200	20,133,414	273,580	69,737,366	723,450	3,574,296	9,350				
04/02/15														
04/03/15														
04/04/15														
04/05/15														
04/06/15														
04/07/15	34,002,332	848,552	2,101,611	70,333	20,282,696	248,803	70,148,126	684,567	3,580,755	10,765				
04/08/15	34,080,840	785,080	2,102,278	66,700	20,308,754	260,580	70,215,639	675,130	3,581,710	9,550				
04/09/15	34,157,100	762,600	2,102,973	69,500	20,332,692	239,380	70,280,503	648,640	3,582,609	8,990				
04/10/15	34,231,248	741,480	2,103,617	64,400	20,358,008	253,160	70,346,365	658,920	3,583,549	9,400				
04/11/15														
04/12/15														
04/13/15	34,460,852	765,347	2,106,727	70,333	20,424,524	221,720	70,538,363	639,893	3,586,745	10,653				
04/14/15	34,529,898	690,360	2,106,369	64,200	20,449,784	252,600	70,605,101	667,380	3,587,603	8,580				
04/15/15	34,598,812	689,240	2,107,039	67,000	20,475,956	261,720	70,673,593	684,920	3,588,480	8,770				
04/16/15	34,667,800	689,880	2,107,686	64,700	20,502,568	266,120	70,741,777	681,840	3,589,387	9,070				
04/17/15	34,738,276	704,760	2,108,352	66,600	20,528,582	260,140	70,809,999	682,220	3,590,299	9,120				
04/18/15														
04/19/15														
04/20/15	34,954,580	721,013	2,110,418	68,867	20,594,314	219,107	71,001,066	636,957	3,593,288	9,863				
04/21/15	35,030,864	762,840	2,111,238	82,000	20,623,650	293,360	71,087,548	864,620	3,594,412	11,240				
04/22/15	35,112,308	814,440	2,112,049	81,100	20,651,798	281,480	71,168,921	813,730	3,595,489	10,770				
04/23/15														
04/24/15														
04/25/15														
04/26/15														
04/27/15	35,464,644	704,672	2,115,494	68,900	20,769,370	235,144	71,500,566	663,350	3,600,338	9,698				
04/28/15	35,535,436	707,920	2,116,163	66,900	20,795,680	263,100	71,567,036	664,400	3,601,274	9,360				
04/29/15	35,593,912	584,760	2,116,782	61,900	20,819,210	235,300	71,627,491	604,550	3,602,040	7,660				
04/30/15	35,662,896	689,840	2,117,493	71,100	20,846,886	276,760	71,696,970							

2015 SUMMARY OF METER READINGS

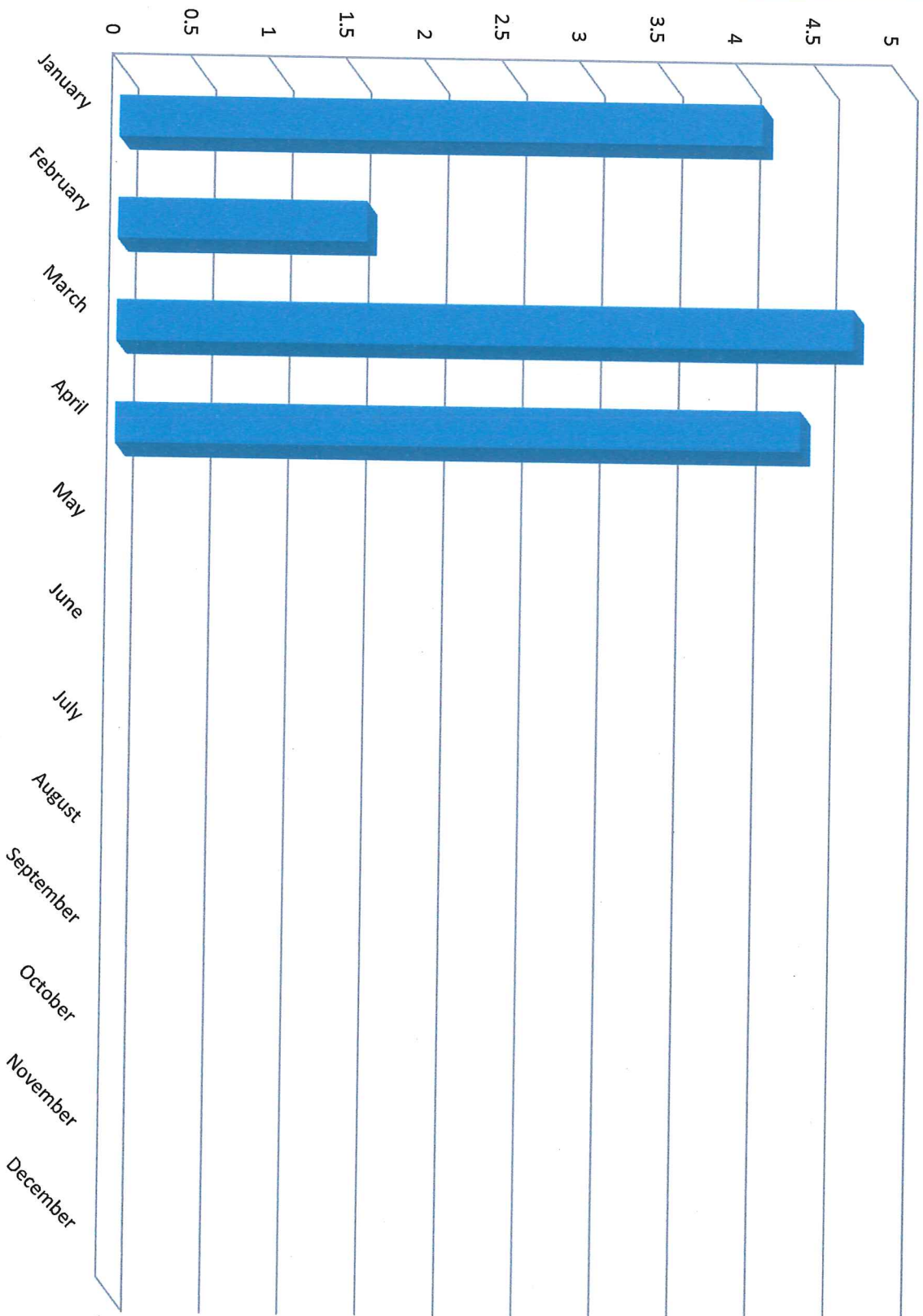
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	BARKWAY
JANUARY	1,037,476	93,837	60,552	66,143	24,000	674,598	60,156	251,166	706,594	11,242
FEBRUARY	1,023,411	90,015	59,017	64,695	24,000	696,731	64,656	265,565	683,531	11,872
MARCH	1,212,666	123,312	70,912	70,480	24,000	947,399	81,101	300,634	836,728	12,978
APRIL	1,035,131	96,381	64,670	58,196	24,000	737,581	69,102	255,415	687,609	9,616
MAY										
JUNE										
JULY										
AUGUST										
SEPTEMBER										
OCTOBER										
NOVEMBER										
DECEMBER										
Total Flows										
Monthly Ave	359,057	33,629	21,263	21,626	8,000	254,692	22,918	89,398	242,872	3,809

To
West Goshen 282,540

April Precip. 4.40 - 2015

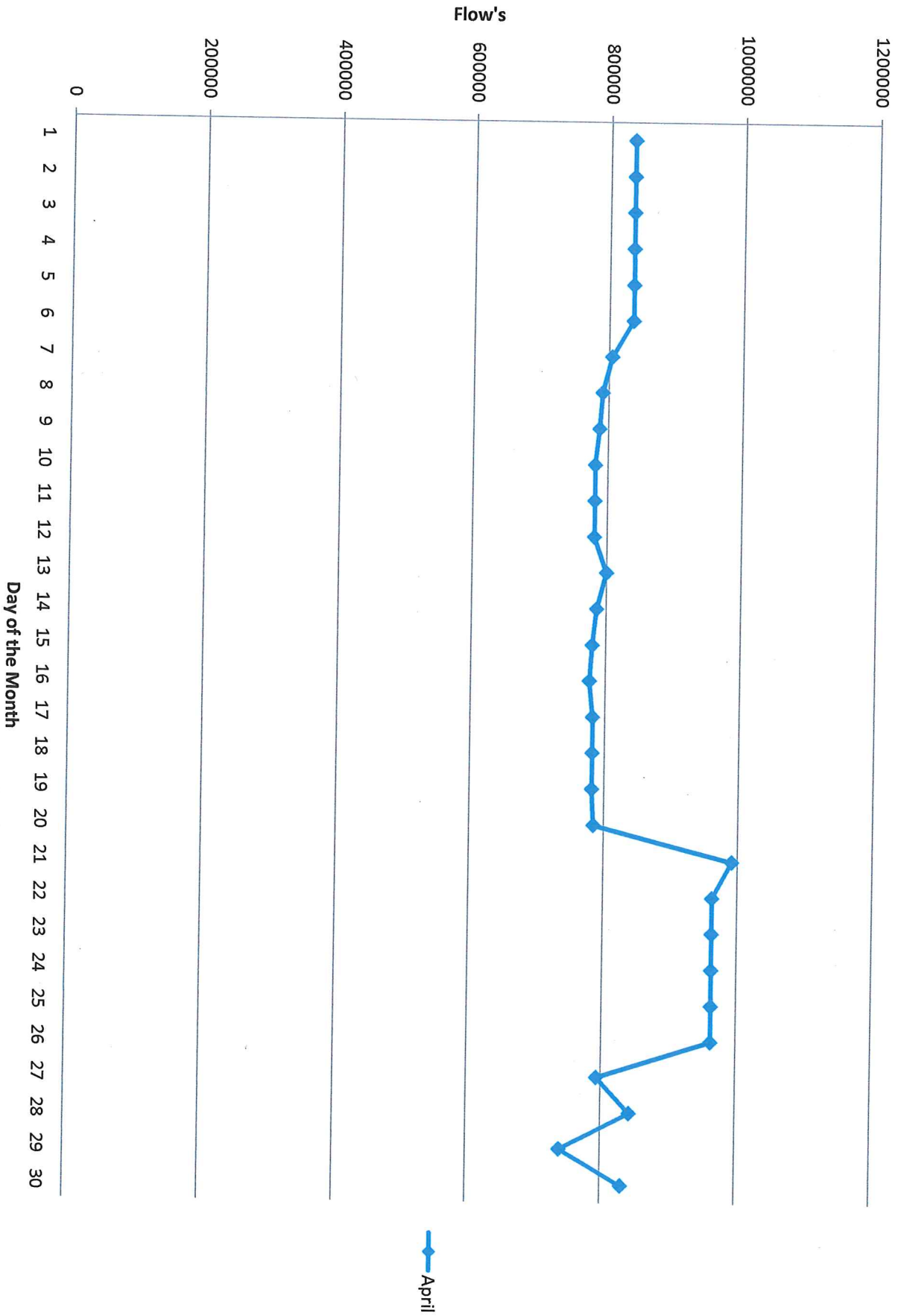


2015 Monthly Precipitation

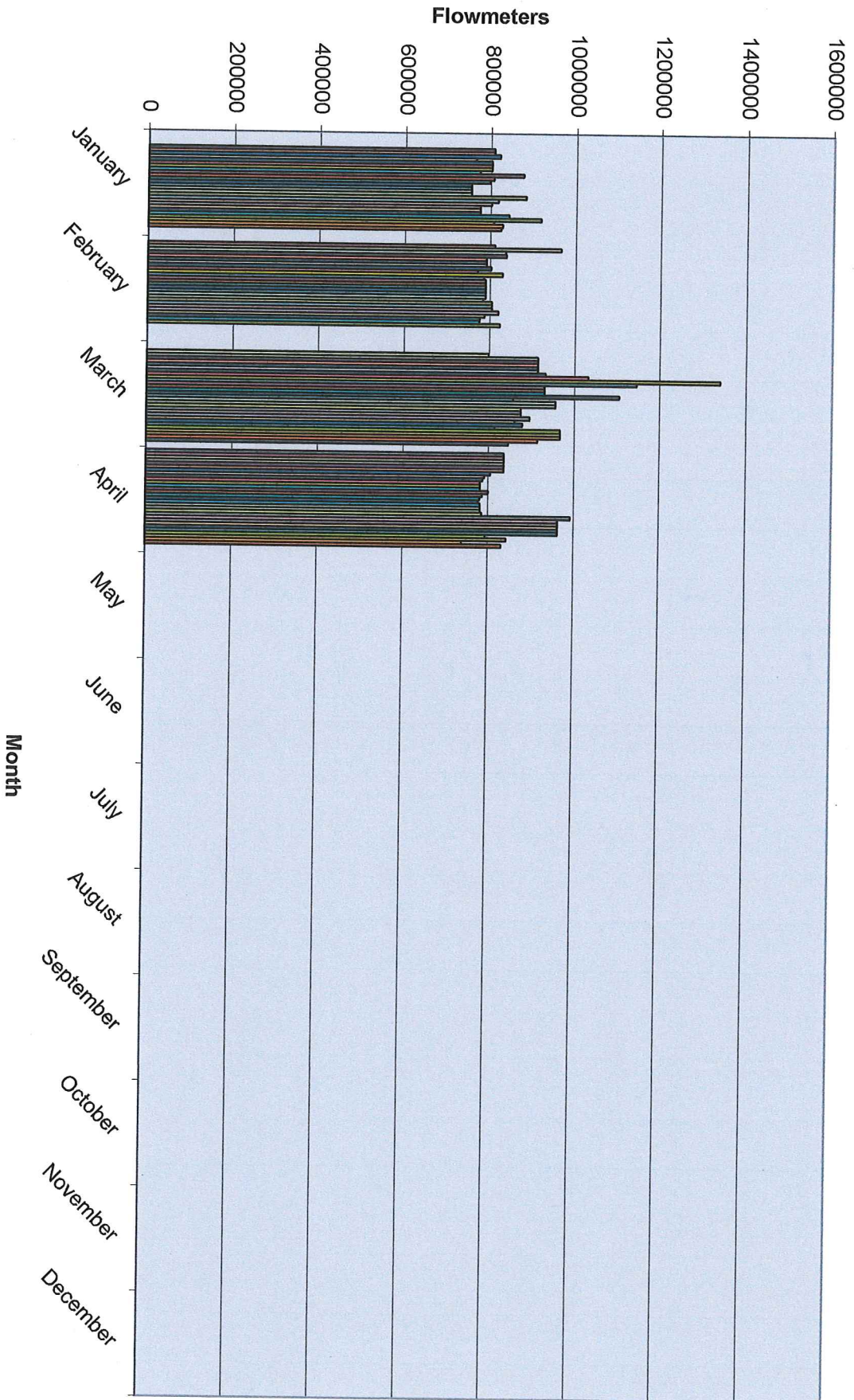


■ Series1

Flowmeters April 2015



Monthly Totals 2015 Jan-Dec



**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
April 13, 2015**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, April 13, 2015 at 6:00 pm at the East Goshen Township building. Members in attendance were: Chairman Kevin Cummings, Dana Pizarro, Jack Yahraes, Fran Beck, and Ed McAssey. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Mike Ellis (Pennoni), and Jessica Wiesak (Attorney).

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

Kevin called the meeting to order at 6:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember the troops and all veterans. Kevin asked if anyone would be recording the meeting and there was no response.

Chairman's Report/Other Members' Reports

1. Jack reported that he attended the West Goshen meeting.

Sewer Reports

1. Director of Public Works

Mark Miller reported for March 2015:

Meters: All meters were read on a daily basis.

C.C. Collection: We responded to 4 lateral clogs, two were in Grand Oak, one in Hershey Mills, and one in White Chimney. All clogs were cleared.

R.C. Collection: Pump Stations were visited on a daily basis with no problems to report.

R.C. Plant: No problems to report.

Re-sale Inspections: We had 4 re-sale lateral inspections in the township. I inspected them and found no problems.

Alarms: We responded to 14 alarms for the month of March.

PA One Calls: We received 46 PA One calls in March.

2. Pennoni Engineer's Report

Mike reviewed the revised plan for the proposed Reservoir Rd pump station. They met with DEP to review the plan. The wet well is outside the building so it only contains a generator and the building is smaller. Jack asked if the drive can be gravel. Rick commented that there is no difference in storm water management. Two borings have been done.

1 Mike Ellis provided the following report:

2 Invoices: Invoices with summaries are provided under separate cover.

3 Ridley Creek Sewage Treatment Plant (RCSTP):

4 1. We provided consultation and correspondence to the Township on the proposed surge
5 protection addition and replacement and the premature UV ballast failures. We agree
6 with the proposed approach to add a new TVSS immediately prior to the ballasts and that
7 the ballast failures are likely due to surges. The Township should consider contacting the
8 new ballast vendor and manufacturer to determine their troubleshooting and customer
9 support capabilities now in the event there continues to be issues following the new
10 TVSS installation.

11 2. We attended a tour of the plant and a field visit to the Ashbridge Pump Station with
12 Mark Miller and Pat McKenna on April 2nd.

13
14 Reservoir Rd Pump Station:

15 1. We attended the PADEP Water Quality Management (WQM) Permit pre-application
16 with Rick Smith at PADEP's Norristown office on March 13th. PADEP had some minor
17 comments, but they were agreeable to the design and permitting approach for the project.
18 The project will require an individual WQM permit instead of a general permit due to the
19 proposed daily pump volume.

20 2. We initiated the progress design including site layout, diversion details and diversion
21 piping profiles, pump design, wet well and valve vault, building architectural and HVAC,
22 power, and controls. A current draft of plans will be presented at the April 13th
23 Municipal Authority meeting.

24 3. The existing conditions field survey work continued and has been substantially
25 completed. An existing conditions plan is nearly complete. Once it is complete, force
26 main plans and profiles will be prepared.

27 4. We are coordinating with the PW Department to perform two infiltration tests at the
28 proposed pump station site within the next 2 weeks. The tests are needed for future
29 stormwater management design. Once the tests are performed, we will schedule a
30 NPDES Stormwater pre-application meeting with PADEP and the Chester County
31 Conservation District.

32
33 Chapter 94 reports:

34 1. We completed the 2014 Chapter 94 Reports for the RCSTP, West Goshen Service
35 Area (WGSA), and Westtown Service Area, and we submitted them to PADEP on March
36 31st. The ECSTP, pump stations, and sewers all have adequate capacity. A summary of
37 the PCSTP and WGSA reports follows:

38 RCSTP:

39 The 2014 annual average influent flow (not including recycle flows) was 0.409 MGD,
40 and the 3-month maximum average flow was 0.479 MGD. The plant's permitted average
41 capacity is 0,750 MGD. The 5-year projected annual average and maximum month flows
42 are 0.396 MGD and 0.458 MGD respectively.

43 The 2014 annual average organic loading (not including recycle flows) was 701 lbs/day
44 BOD5, and the maximum month loading was 930 lbs/day BOD5. The permitted capacity
45 is 2,098 lbs/day. The 5-year projected annual average and maximum month loadings are
46 706 lbs/day and 1,085 lbs/day respectively.

1 The interceptor is considered to have had adequate capacity to convey the maximum
2 daily flow in 2014. The Hershey's Mill and Hunt Country Pump stations are projected to
3 have adequate capacity for the projected 2-year peak day flows.

4 WGSA

5 The 2014 annual average flow was 0.771 MGD, the 3-month maximum average flow was
6 0.930 MGD, and the maximum daily flow was 2.142 MGD. The 5-year projected annual
7 average and maximum month flows are 0.827 MGD and 0.982 MGD respectively.

8 The interceptor had more-than-adequate capacity to convey the maximum daily flow in
9 2014. The Ashbridge and Barkway Pump Stations are projected to have adequate
10 capacity for the projected 2-year peak day flows.

11
12 Semi-Annual I&I Report

13 We analyzed portable and permanent meter flows for the past 6-month period, and we
14 prepared the semi-annual I&I report. We expect to issue the report on April 10th.

15
16 Lockwood Chase STP Closure NPDES Permit N.O.T. - We plan to perform a site visit to the
17 former LCSTP site to evaluate the consistency of as-built conditions with the permit
18 plans within the next month, so that the NPDES Permit Notice of Termination paperwork
19 can be finalized and submitted to the Chester County Conservation District.

20
21 Hershey's Mill PS and Marydell PS Diversions – The 2-year Maintenance Bonds on the
22 Hershey's Mill PS and Marydell PS Diversions expire in July and August respectively.
23 We recommend warranty inspections be performed by May.

24
25 Hershey's Mill PS Muffin Monster – we notified PADEP that the comminutor has been installed
26 in the pump station for their field evaluation as required by the permit, but we have not
27 received a response.

28
29 **3. Big Fish Environmental Services** – Scott reported that the Ridley Creek sewage treatment
30 plant outfall 001 achieved compliance with the NPDES discharge permit during February 2015.
31 There was no discharge to Applebrook, which is identified as outfall 002. Chemical usage
32 utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous
33 month. No mechanical or operational issues were observed during operation of the SBR and
34 sludge dewatering equipment.
35 Significant storm/Hydraulic Loading Events – During March, there were 4 storm events resulting
36 in daily precipitation amounts greater than 0.5 inches measured during a 24 hour period. A total
37 of 4.4 inches of rainfall and 10.0 inches of snow were measured at the facility during March.
38 Influent flows nearly doubled from a monthly average of 538,237 gpd to 841,790 gpd on March
39 4th, 836,410 gpd on March 16th and 902,200 gpd on March 14th.

40
41 Approval of Minutes

42 Jack moved to accept the minutes of March 9, 2015 as corrected. Fran seconded the motion. The
43 motion passed unanimously.

1 **Approval of Invoices**

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

- 3 a. Pennoni #630705 \$ 1,756.25
4 b. Pennoni #630706 \$ 368.75
5 c. Pennoni #630707 \$ 2,593.75
6 d. Pennoni #630893 \$ 6,619.50
7 e. Pennoni #630894 \$ 11,988.25

8 Dana seconded the motion. The motion passed unanimously.

9 2. Fran moved to approve payment of the following Gawthrop invoices:

- 10 a. Invoice #129252 for \$660.00
11 b. Invoice #130320 for \$480.00 for the audit

12 Dana asked about a \$300 previous balance from the last meeting. Rick commented that this will
13 pay it. Dana seconded the motion. The motion passed unanimously.
14

15 **Liaison Reports**

16 **Board of Supervisors** – Carmen mentioned that after this MA meeting tonight will be the Comp
17 Plan meeting.
18

19 **Financial Reports**

20 Jon Altshul provided the following report:

21 In March, the Municipal Authority recorded \$132 in revenues and \$24,672 in expenses
22 (including \$8,292 for the quarterly overhead chargeback, \$10,395 for Reservoir Rd Pump Station
23 engineering and \$5,685 for general engineering), for a variance of -\$24,540. As of March 31,
24 the fund balance was \$1,551,504, of which \$1,505,313 is in the construction account.
25

26 **Goals**

27 Jack reported that there was not enough space in the Newsletter for his article. He wrote a
28 history of the sewer plant. He suggested that if there is nothing new, then no article will be done.
29 Dana & Mike will work on an article about smoke testing. Articles are due May 1.
30

31 **New Business**

32 1. The quote from Lenni Electric for replacement of the existing protector is \$4,168.85

33 The quote from Lenni Electric for a new TVSS for the UV System is \$5,402.80.

34 Dana moved to approve purchase of a replacement for the existing protector for \$4,168.85. Jack
35 seconded the motion. The motion passed unanimously.

36 Fran moved to approve purchase of a new protector. Ed seconded. Discussion: Some surges are
37 getting through the current protector although PECO says there are no surges. The need for a
38 backup was discussed. This was tabled until the next meeting.
39

40 2. Wastewater Capacity Needs Evaluation Update - Pennoni evaluated and projected the
41 potential maximum future wastewater flows throughout East Goshen Twp in the letter date
42 February 9, 2007. The maximum township-wide future public wastewater flow was projected to
43 be 1.736 MGD. This evaluation was the basis for the recent expansion of the RCSTP, several
44 constructed pump stations and gravity sewer diversions, and the planned Reservoir road Pump
45 Station diversion. This evaluation is over 8 years old and actual flows, existing connections and
46 projected connections vary from that which was predicted in 2007. There is also interest from

1 adjacent municipalities to connect new development(s) and an existing development with failing
2 on-lot systems to East Goshen's sewer system. The Needs Evaluation needs to be revisited and
3 updated to determine East Goshen's current wastewater needs as well as the feasibility of
4 additional connections from other municipalities. Pennoni anticipates the evaluation can be
5 completed within 30 days of Notice to Proceed. Their estimated fee is \$2,050.00. Rick will
6 contact Willistown about reimbursement of the cost.

7
8 **Adjournment**

9 There being no further business, Jack moved to adjourn the meeting. Ed seconded the motion.
10 The motion passed unanimously. The meeting was adjourned at 6:45 pm.

11
12 Respectfully submitted,

13
14
15 Ruth Kiefer
16 Recording Secretary



INVOICE

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

Remit Payment To:
Pennoni Associates Inc.
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 # : 634359
Invoice Date : 04/29/2015
Project : EGMA1501
Project Name : 2015 General Services

For Services Rendered through: 4/19/2015

Authority Engineer provided documentation to PW Director on SBR #2 concrete repair coating materials and recommended lifting hole repair material; performed cursory review of 2007 Township-wide Needs Evaluation to identify potential updates to build-out flow projections; coordinated revisions to Township-wide sewage basins' exhibit for Comprehensive Plan Update; coordinated RCSTP UV ballast and surge protection evaluation with staff and Twp including a site visit to RCSTP; prepared April's Engineer's Report; and prepared for and attended April's MA meeting.

Staff Engineer assisted with evaluation of the RCSTP UV ballasts and surge protection issues.

Senior Engineering Technician coordinated with the manufacturer, Authority Engineer, and PW Director on Sika repair product alternatives for SBR #2 lifting hole repairs; and observed UV ballast and surge protection issues on field recon to the RCSTP.

Engineering Technician II prepare the sewer basins' exhibit revisions for the Comprehensive Plan Update.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,869.00
Expense :	0.00
Phase Total :	1,869.00

Amount Due This Invoice

\$1,869.00

Fee :	12,000.00
Prior Billings :	3,723.75
Current Billings :	1,869.00
Total Billings :	5,592.75

o/c TRS 5/8

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			
Class	Hours/ Units	Rate	Amount
Authority Engineer	11.50	115.00	1,322.50
Staff Engineer	2.00	90.00	180.00
Senior Engineering Technician	2.50	85.00	212.50
Engineering Technician II	2.00	77.00	154.00
Labor Total:	18.00		1,869.00

Total Phase : **** -- Professional Services

Labor : \$1,869.00

Expense : \$0.00

Total Project : EGMA1501 -- 2015 General Services

Labor : \$1,869.00

Expense : \$0.00

East Goshen Municipal Authority
EGMA1501 Invoice Summary
Invoice Date 04/29/2015

Project:	EGMA1501		
Pennoni Job No.:	2015 General Services		
Invoice No:	634359		
Invoice Period:	3/23/2015	to	4/19/2015
Initial Authorization:	\$ 12,000.00	Date:	4/29/2015
Contract Amount:	\$ 12,000.00		
Previously Invoiced:	\$ 3,723.75		
Current Invoice:	\$ 1,869.00		
Invoiced to Date (\$):	\$ 5,592.75		
Invoiced to Date (%):	47%		
Remaining Budget (\$):	\$ 6,407.25		
Remaining Budget (%):	53%		

Budget by Phase:

Phase Name:	2015 General Services
Phase Budget:	\$ 12,000.00
Previously Invoiced:	\$ 3,723.75
Current Invoice:	\$ 1,869.00
Invoiced to Date (\$):	\$ 5,592.75
Invoiced to Date (%):	47%
Remaining Budget (\$):	\$ 6,407.25
Remaining Budget (%):	53%

Comments: Authority Engineer provided documentation to PW Director on SBR #2 concrete repair coating materials and recommended lifting hole repair material; performed cursory review of 2007 Township-wide Needs Evaluation to identify potential updates to build-out flow projections; coordinated revisions to Township-wide sewage basins' exhibit for Comprehensive Plan Update; coordinated RCSTP UV ballast and surge protection evaluation with staff and Twp including a site visit to RCSTP; prepared April's Engineer's Report; and prepared for and attended April's MA meeting.

Staff Engineer assisted with evaluation of the RCSTP UV ballasts and surge protection issues.

Senior Engineering Technician coordinated with the manufacturer, Authority Engineer, and PW Director on Sika repair product alternatives for SBR #2 lifting hole repairs; and observed UV ballast and surge protection issues on field recon to the RCSTP.

Engineering Technician II prepare the sewer basins' exhibit revisions for the Comprehensive Plan Update.



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

Invoice # : 634360
Invoice Date : 04/29/2015
Project : EGMA1502
Project Name : 2015 Semi-Annual I&I Reports

For Services Rendered through: 4/19/2015

Analyzed portable and permanent meter data for the prior 6-month period; coordinated metering locations and recommendations with PW staff; and prepared and submitted Semi-Annual I&I Report #13.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	3,622.50
Expense :	0.00
Phase Total :	3,622.50

Amount Due This Invoice

\$3,622.50

Fee :	10,500.00
Prior Billings :	2,422.50
Current Billings :	3,622.50
Total Billings :	6,045.00

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	6.00	115.00	690.00
Associate Engineer	34.50	85.00	2,932.50
Labor Total:	40.50		3,622.50

Total Phase : **** -- Professional Services

Labor :	\$3,622.50
Expense :	\$0.00

Total Project : EGMA1502 -- 2015 Semi-Annual I&I Reports

Labor :	\$3,622.50
Expense :	\$0.00

ok RS 5-8

East Goshen Municipal Authority
EGMA1502 Invoice Summary
Invoice Date 04/29/2015

Project: EGMA1502
Pennoni Job No.: 2015 Semi-Annual I&I Reports
Invoice No: 634360
Invoice Period: 3/23/2015 to 4/19/2015
Initial Authorization: \$ 10,500.00 **Date:** 4/29/2015
Contract Amount: \$ 10,500.00
Previously Invoiced: \$ 2,422.50
Current Invoice: \$ 3,622.50
Invoiced to Date (\$): \$ 6,045.00
Invoiced to Date (%): 58%
Remaining Budget (\$): \$ 4,455.00
Remaining Budget (%): 42%

Budget by Phase:

Phase Name: 2015 Semi-Annual I&I Reports
Phase Budget: \$ 10,500.00
Previously Invoiced: \$ 2,422.50
Current Invoice: \$ 3,622.50
Invoiced to Date (\$): \$ 6,045.00
Invoiced to Date (%): 58%
Remaining Budget (\$): \$ 4,455.00
Remaining Budget (%): 42%

Comments: Analyzed portable and permanent meter data for the prior 6-month period; coordinated metering locations and recommendations with PW staff; and prepared and submitted Semi-Annual I&I Report #13.



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

Invoice # : 634361
Invoice Date : 04/29/2015
Project : EGMA1503
Project Name : 2014 Chapter 94 Reports

For Services Rendered through: 4/19/2015

Finalized and submitted Chapter 94 Reports to PADEP for the RCSTP, West Goshen Service Area, and Westtown Service Area.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 4,645.00
Expense : 0.00
Phase Total : 4,645.00

Amount Due This Invoice

\$4,645.00

Fee : 14,800.00
Prior Billings : 8,800.00
Current Billings : 4,645.00
Total Billings : 13,445.00

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	16.00	115.00	1,840.00
Associate Engineer	33.00	85.00	2,805.00
Labor Total:	49.00		4,645.00

Total Phase : **** -- Professional Services

Labor : \$4,645.00
Expense : \$0.00

Total Project : EGMA1503 -- 2014 Chapter 94 Reports

Labor : \$4,645.00
Expense : \$0.00

ok RS s/e

East Goshen Municipal Authority
EGMA1503 Invoice Summary
Invoice Date 04/29/2015

Project: EGMA1503
Pennoni Job No.: 2015 Chapter 94 Reports
Invoice No: **634361**
Invoice Period: 3/23/215 to 4/19/2015
Date: 4/29/2015
Initial Authorization: \$ 14,800.00
Contract Amount: \$ 14,800.00
Previously Invoiced: \$ 8,800.00
Current Invoice: \$ 4,645.00
Invoiced to Date (\$): \$ 13,445.00
Invoiced to Date (%): 91%
Remaining Budget (\$): \$ 1,355.00
Remaining Budget (%): 9%

Budget by Phase:

Phase Name: 2015 Chapter 94 Reports
Phase Budget: \$ 14,800.00
Previously Invoiced: \$ 8,800.00
Current Invoice: \$ 4,645.00
Invoiced to Date (\$): \$ 13,445.00
Invoiced to Date (%): 91%
Remaining Budget (\$): \$ 1,355.00
Remaining Budget (%): 9%

Comments: Finalized and submitted Chapter 94 Reports to PADEP for the RCSTP, West Goshen Service Area, and Westtown Service Area.



INVOICE

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

Invoice # : 634362
Invoice Date : 04/29/2015
Project : EGMA1504
Project Name : Reservoir Rd PS Design &
Permitting

For Services Rendered through: 4/19/2015

Phase 09 - Continued with progress design for pump station site, pumping and mechanical components, electrical systems, controls, building structural and architectural, force main alignment; and continued with plan preparation including cover sheet existing conditions plans, site plans, building plans and sections, electrical schematics, and details; and Authority Engineer and Senior Engineering Technician performed field recon to observe site and conditions at existing Ashbridge Pump Station for design consistency where possible.

Phase 10 - Performed two double-ring infiltrometer infiltration tests and coordinated with PW Dept to excavate associated test pits in several locations on-site. Prepared infiltration testing report. FINAL INVOICE FOR PHASE 10.

Phase : 09 -- Progress Design

Total Phase : 09 -- Progress Design

Labor :	4,837.00
Expense :	0.00
Phase Total :	4,837.00

Phase : 10 -- Infiltration Testing

Total Phase : 10 -- Infiltration Testing

Labor :	1,800.00
Expense :	0.00
Phase Total :	1,800.00

Amount Due This Invoice

\$6,637.00

Fee :	68,600.00
Prior Billings :	22,314.50
Current Billings :	6,637.00
Total Billings :	28,951.50

ok TRS 5/8

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

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Phase : 09 -- Progress Design

Labor			
<i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	3.50	115.00	402.50
Senior Engineer	4.00	110.00	440.00
Project Engineer	14.50	97.00	1,406.50
Staff Engineer	3.00	90.00	270.00
Senior Engineering Technician	1.00	85.00	85.00
Engineering Technician II	29.00	77.00	2,233.00
Labor Total:	55.00		4,837.00

Total Phase : 09 -- Progress Design**Labor : \$4,837.00****Expense : \$0.00****Phase : 10 -- Infiltration Testing**

Labor			
<i>Class</i>	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Senior Engineer	4.00	110.00	440.00
Staff Engineer	6.00	90.00	540.00
Engineering Technician I	12.25	67.00	820.75
Labor Total:	22.25		1,800.75

Total Phase : 10 -- Infiltration Testing**Labor : \$1,800.75****Expense : \$0.00****Total Project : EGMA1504 -- Reservoir Rd PS Design & Permitting****Labor : \$6,637.75****Expense : \$0.00**

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 04/29/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 634362 & 634363
Invoice Period: 3/23/2015 to 4/19/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/29/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 34,302.75
Current Invoice: \$ 15,826.50
Invoiced to Date (\$): \$ 50,129.25
Invoiced to Date (%): 48%
Remaining Budget (\$): \$ 53,790.75
Remaining Budget (%): 52%

Budget by Phase:

Phase Name:	Progress Design	Phase 09
Phase Budget:	\$ 39,100.00	
Previously Invoiced:	\$ 2,522.00	
Current Invoice:	\$ 2,522.00	
Invoiced to Date (\$):	\$ 4,837.00	
Invoiced to Date (%):	12%	
Remaining Budget (\$):	\$ 34,263.00	
Remaining Budget (%):	88%	

Comments: Phase 09 - Continued with progress design for pump station site, pumping and mechanical components, electrical systems, controls, building structural and architectural, force main alignment; and continued with plan preparation including cover sheet, existing conditions plans, site plans, building plans and sections, electrical schematics, and details; and Authority Engineer and Senior Engineering Technician performed field recon to observe site and conditions at existing Ashbridge Pump Station for design consistency where possible.

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 04/29/2015

Project: EGMA1504
Pennooni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 634362 & 634363
Invoice Period: 3/23/2015 to 4/19/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/29/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 34,302.75
Current Invoice: \$ 15,825.75
Invoiced to Date (\$): \$ 50,128.50
Invoiced to Date (%): 48%
Remaining Budget (\$): \$ 53,791.50
Remaining Budget (%): 52%

Budget by Phase:

Phase Name:	Infiltration Testing	Phase 10
Phase Budget:	\$ 1,800.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ 1,800.00	
Invoiced to Date (\$):	\$ 1,800.00	
Invoiced to Date (%):	100%	
Remaining Budget (\$):	\$ -	
Remaining Budget (%):	0%	

Comments: Phase 10 - Performed two double-ring infiltrometer infiltration tests and coordinated with PW Dept to excavate associated test pits in several locations on-site. Prepared infiltration testing report. FINAL INVOICE FOR PHASE 10.



INVOICE

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

Remit Payment To:
Pennoni Associates Inc.
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 # : 634363
Invoice Date : 04/29/2015
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 4/19/2015

Phase 03 - Continued field survey along the remainder of Bow Tree Drive and along Anne and Misak Drives including easement area between Anne and Misak Drives; continued preparation of existing conditions and topography plans based upon completed survey data.

Phase : 03 -- Existing Conditions Survey

Contract Amount	\$23,300.00	
Percent Complete	94.48%	
Contract Amount Completed		\$22,013.75
Less Previous Billed		\$(12,825.00)

Phase Subtotal

\$9,188.75**Amount Due This Invoice**

\$9,188.75

OK RS 5-8

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 04/29/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 634362 & 634363
Invoice Period: 3/23/2015 to 4/19/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/29/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 34,302.75
Current Invoice: \$ 15,826.50
Invoiced to Date (\$): \$ 50,129.25
Invoiced to Date (%): 48%
Remaining Budget (\$): \$ 53,790.75
Remaining Budget (%): 52%

Budget by Phase:

	Existing	
Phase Name:	Conditions Survey	Phase 03
Phase Budget:	\$ 23,300.00	
Previously Invoiced:	\$ 12,825.00	
Current Invoice:	\$ 9,188.75	
Invoiced to Date (\$):	\$ 22,013.75	
Invoiced to Date (%):	94%	
Remaining Budget (\$):	\$ 1,286.25	
Remaining Budget (%):	6%	

Comments: Phase 03 - Continued field survey along the remainder of Bow Tree Drive and along Anne and Misak Drives including easement area between Anne and Misak Drives; continued preparation of existing conditions and topography plans based upon completed survey data.

...Continued from previous page

Phase : 09 -- Progress Design

Labor		<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>				
Authority Engineer		3.50	115.00	402.50
Senior Engineer		4.00	110.00	440.00
Project Engineer		14.50	97.00	1,406.50
Staff Engineer		3.00	90.00	270.00
Senior Engineering Technician		1.00	85.00	85.00
Engineering Technician II		29.00	77.00	2,233.00
Labor Total:		55.00		4,837.00

Total Phase : 09 -- Progress Design

Labor : \$4,837.00

Expense : \$0.00

Phase : 10 -- Infiltration Testing

Labor		<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>				
Senior Engineer		4.00	110.00	440.00
Staff Engineer		6.00	90.00	540.00
Engineering Technician I		12.25	67.00	820.75
Labor Total:		22.25		1,800.75

Total Phase : 10 -- Infiltration Testing

Labor : \$1,800.75

Expense : \$0.00

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

Labor : \$6,637.75

Expense : \$0.00

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA April Financial Reports
Date: May 5, 2015

In April, the Municipal Authority recorded \$14,423 in revenues (including two Ridley Creek tap-in fees for construction on Colonial Lane) and \$24,167 in expenses (including \$18,608 for Reservoir Rd Pump Station engineering and \$4,719 for general engineering), for a variance of -\$9,744. As of April 30th, the fund balance was \$1,541,760, of which \$1,486,828 is in the construction account.

A complete list of all year-to-date expenses and revenues is provided.

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2015

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
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MUNICIPAL AUTHORITY BEGINNING FUND BALANCE			1,551,503.88	
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RCSTP BUDGET

REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	1,600.00	125.90	508.22
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		1,600.00	125.90	508.22

EXPENSES				
R.C.-CAP. PROJ.-ENGINEER	07424 7451	0.00	0.00	0.00
R.C. CAP EXPANSION GEN'L CONTRACTOR	07424 7452	0.00	0.00	0.00
R.C. CAP EXPANSION - ELECTRICAL	07424 7453	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY CAPITAL	07424 7454	0.00	0.00	0.00
R.C. CAP EXP CONTINGENCY ONGOING	07424 7455	0.00	0.00	0.00
R.C. CAP EXP ADDITIONAL CONTINGENCY	07424 7456	0.00	0.00	0.00
TRANSFER TO SEWER SINKING FUND	07492 0550	0.00	0.00	0.00
TRANSFER TO AUTHORITY CAP FUND	07492 0990	0.00	0.00	0.00
TOTAL EXPENSES		0.00	0.00	0.00

RCSTP NET RESULT		1,600.00	125.90	508.22
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EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2015

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	15.00	0.61	4.25
C.C. TAPPING FEES	07364 1100	0.00	0.00	0.00
R.C. TAPPING FEES	07364 1110	14,296.00	14,296.00	14,296.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	845.64
MISCELLANEOUS REVENUE	07380 1000	0.00	0.00	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	105,105.00	0.00	0.00
TOTAL REVENUE		119,416.00	14,296.61	15,569.25
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	33,323.00	0.00	8,292.10
MISCELLANEOUS EXPENSE	07424 3000	3,000.00	0.00	1,450.00
MUNIC.AUTH.-AUDITING	07424 3110	10,984.00	0.00	0.00
ENGINEERING SERVICES	07424 3130	37,300.00	4,718.75	17,236.75
LEGAL SERVICES	07424 3140	9,000.00	840.00	1,140.00
M.C.-DVRFA-DEBT SERVICE	07471 1000	23,240.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	4,169.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	0.00	0.00	0.00
TOTAL EXPENSES		121,016.00	5,558.75	28,118.85
OPERATING NET RESULT		(1,600.00)	8,737.86	(12,549.60)

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2015

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07393 1001	0.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	0.00	0.00	0.00
TOTAL REVENUE		0.00	0.00	0.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	0.00	0.00	0.00
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	0.00	0.00	0.00
MANHOLE COVER REPLACEMENTS	07424.7405	0.00	0.00	0.00
C.C. CAPITAL - COLLECTION	07424.7420	0.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	0.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	0.00	0.00	0.00
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	0.00	0.00
HERSHEY MILL STATION - ENGINEER	07426 1000	0.00	0.00	0.00
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	0.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	0.00	0.00	0.00
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	0.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	100,000.00	18,607.75	35,375.25
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		100,000.00	18,607.75	35,375.25
CAPITAL NET RESULT		(100,000.00)	(18,607.75)	(35,375.25)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,541,759.89	

Report Date 05/04/15

GL Transaction Details

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MGRP18 run by BRIAN

11 : 46 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000			INTEREST EARNINGS			0.00				
	1501	JE	46156		1.44		02/03/15	INTEREST		INTEREST EARNED JANUARY 2015 07 FUND
				0.00	1.44	-1.44				
	1502		46526		1.17		03/02/15	INTEREST		INTEREST EARNED FEBRUARY 2015 07 FUND
				0.00	1.17	-2.61				
	1503		46944		1.03		04/02/15	INTEREST		INTEREST EARNED MARCH 2015 07 FUND
				0.00	1.03	-3.64				
	1504		47407		0.61		05/04/15	INTEREST		INTEREST EARNED APRIL 2015 07 FUND
				0.00	0.61	-4.25				
				0.00	4.25	-4.25				
07341-1020			INTEREST EARNED - RCSTP EXPANSION			0.00				
	1501		46156		131.97		02/03/15	INTEREST		INTEREST EARNED JANUARY 2015 07 FUND
				0.00	131.97	-131.97				
	1502		46526		119.08		03/02/15	INTEREST		INTEREST EARNED FEBRUARY 2015 07 FUND
				0.00	119.08	-251.05				
	1503		46944		131.27		04/02/15	INTEREST		INTEREST EARNED MARCH 2015 07 FUND
				0.00	131.27	-382.32				
	1504		47407		125.90		05/04/15	INTEREST		INTEREST EARNED APRIL 2015 07 FUND
				0.00	125.90	-508.22				
				0.00	508.22	-508.22				
07364-1110			R.C.TAPPING FEES			0.00				
		CR	47236		7,148.00		04/21/15	1123	7875	1 SUNNY RIDGE FARMS LLC
			47278		7,148.00		04/23/15	1128	7875	1 SUNNY RIDGE FARMS LLC
				0.00	14,296.00	-14,296.00				
				0.00	14,296.00	-14,296.00				

East Goshen Township General Ledger

Report Date 05/04/15

GL Transaction Details

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MGRP18 run by BRIAN

11 : 46 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1130					0.00				
									CONNECTION FEES - SEWER
	1501	45967		423.00		01/16/15	789	8648	1 GEORGE SMITH & CHRISTINA CONLE
		JE 45968	141.12			01/16/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			141.12	423.00	-281.88				
	1502	CR 46296		423.00		02/13/15	248	8650	1 JACOBS, ROBERT & CHERYL
		46479		423.00		02/26/15	2381	8649	1 STOFFLET, MICHAEL
		JE 46297	141.12			02/13/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		46480	141.12			02/26/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			282.24	846.00	-845.64				
			423.36	1,269.00	-845.64				
07380-1000					0.00				
									MISCELLANEOUS REVENUE
	1501	45968		141.12		01/16/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			0.00	141.12	-141.12				
	1502	46297		141.12		02/13/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		46480		141.12		02/26/15	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			0.00	282.24	-423.36				
			0.00	423.36	-423.36				
07424-1400					0.00				
									ADMINISTRATIVE WAGES
	1503	CD 46874	8,292.10			03/30/15	2267	425	EAST GOSHEN TOWNSHIP - GENERAL
			8,292.10	0.00	8,292.10				1ST QTR.2015 REIMBURS. FR: MUN.A
			8,292.10	0.00	8,292.10				
07424-3000					0.00				
									MISCELLANEOUS EXPENSE
	1501	45777	950.00			01/02/15	2260	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC
		46110	500.00			01/29/15	2263	2737	2015 ACTIVE MEMBERSHIP DUES
									COMMONWEALTH OF PA
									ANNUAL FEE - NPDES PERMIT -CHAP.
			1,450.00	0.00	1,450.00				
			1,450.00	0.00	1,450.00				
07424-3130					0.00				
									ENGINEERING SERVICES
		45953	621.50			01/15/15	2261	1052	PENNONI ASSOCIATES INC.
									SERVICES THRU 12/7/14 GENERAL

Report Date 05/04/15

GL Transaction Details

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MGRP18 run by BRIAN

11 : 46 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1501	CD	46013	640.00			01/22/15	2262	1052	PENNONI ASSOCIATES INC. SERVICE THRU 11/9/14 GEN.SERVICE
				1,261.50	0.00	1,261.50				
	1502		46311	5,571.50			02/13/15	2264	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/18/15 2014 CHAP.
				5,571.50	0.00	6,833.00				
	1503		46649	5,685.00			03/12/15	2266	1052	PENNONI ASSOCIATES INC. SERVICES THRU 2/15/15 2014 CHAP.
				5,685.00	0.00	12,518.00				
	1504		47119	4,718.75			04/15/15	2269	1052	PENNONI ASSOCIATES INC. SERV. THRU 3/22/15 2015 GEN.SER
				4,718.75	0.00	17,236.75				
				17,236.75	0.00	17,236.75				
07424-3140	LEGAL SERVICES					0.00				
	1503		46649	300.00			03/12/15	2265	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - 1/12/15 GEN.AUT
				300.00	0.00	300.00				
	1504		47119	840.00			04/15/15	2268	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 2/6-2/9/15 GEN.AUT
				840.00	0.00	1,140.00				
				1,140.00	0.00	1,140.00				
07428-1000	RESERVOIR PUMP STATION - ENGINEER					0.00				
	1501		45954	137.50			01/15/15	10029	1052	PENNONI ASSOCIATES INC. SERV.THURU 12/7/14 RESERV.RD ACT
			46014	852.50			01/22/15	10030	1052	PENNONI ASSOCIATES INC. SERVICE THRU 11/9/14 RESERVOIR R ACT.537
				990.00	0.00	990.00				
	1502		46312	5,382.80			02/13/15	10031	1052	PENNONI ASSOCIATES INC. SERV.THURU 1/18/15 RESERVOIR RD.P ACT 537 PLANNING
				5,382.80	0.00	6,372.80				
	1503		46650	10,394.70			03/12/15	10032	1052	PENNONI ASSOCIATES INC. SERV. THRU 2/15/15 RESERVOIR RD.
				10,394.70	0.00	16,767.50				

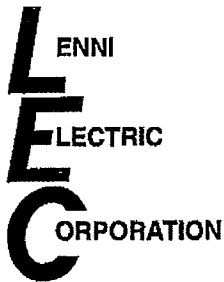
Report Date 05/04/15

GL Transaction Details

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MGRP18 run by BRIAN 11 : 46 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1504	CD	47120	18,607.75			04/15/15	10033	1052	PENNONI ASSOCIATES INC. SERV. THRU 3/22/15 RESERVOIR RD. DESIGN & PERMITTING
				18,607.75	0.00	35,375.25				
				35,375.25	0.00	35,375.25				
Beg Bal		0.00		63,917.46	16,500.83	47,416.63				



February 13, 2015

East Goshen Township
1580 Paoli Pike
West Chester, PA. 19380

Attn: Mr. Mark Miller

Re: Ridley Creek WWTP – TVSS for UV System

We offer a T & M budget price of \$5,402.80 for the following electrical work at the above referenced location. Our price includes:

- 1 – Install new GE TPR7120S12WMNID TVSS in control room after the transformer install, ahead of the UV system controls install
- LS – Rework pipe and wire

Materials	\$4,092.00
15%	\$613.80
Labor mechanic 5 hrs. @ \$75.50	\$377.50
Labor apprentice 5 hrs. @ \$58.50	\$292.50
Service Truck	<u>\$27.00</u>
	\$5,402.80

If you have any questions, please do not hesitate to contact me directly @ 610-636-6511.

Sincerely,

LENNI ELECTRIC CORPORATION



James C. Hallman, Jr.
C & I Division

Pennoni

April 29, 2015

East Goshen Comprehensive Plan 2015

Dear ABC members,

The Comprehensive Plan Task Force, with assistance from all the ABCs, has been working for many months with multiple consultants to prepare the 2015 Comprehensive Plan. At times, it has seemed to be a never-ending process, but the end is finally in sight!

Tom Comitta is planning several meetings to get input from different sources on the latest draft of the Plan. The presentation to the ABCs is scheduled for Wednesday, June 10, 2015 at 7:00 pm. I realize that date conflicts with a Conservancy meeting so if you cannot attend on Wednesday, you may want to attend the presentation to the general public on the following evening.

I hope you will all come to see what your efforts have created and to offer comments so we produce an outstanding and usable Plan. The goal is to have the Plan approved before the end of this year.

Thanks for all your help.

Janet Emanuel
Chair, Comp Plan Task Force