

EAST GOSHEN MUNICIPAL AUTHORITY

March 9, 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. February 9, 2015
4. APPROVAL OF INVOICES

a. Pennoni	Invoice #626537	\$1,306.25
b. Pennoni	Invoice #626538	\$4,378.75
c. Pennoni	Invoice #626539	\$10,394.70
d. Gawthrop	Invoice #128180	\$ 300.00
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. January 2015 Report
7. OLD BUSINESS
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
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.

c. Attend West Goshen Meetings quarterly – more often if needed.

1st Quarter – Jack - **Completed**

2nd Quarter

3rd Quarter

4th Quarter

d. Respond to capacity requests in 45 days or less.

e. Continue to implement I & I Plan

f. Operate RCSTP in compliance with NPDES Permit

9. NEW BUSINESS

a. Review two quotes from Lenni Electric for two surge protectors at Ridley Creek

b. Reservoir Road Pump Station – review progress prints (Mike will bring to meeting)

c. Consider proposal for Phase 2 (Mike will bring to meeting)

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

March 4, 2015

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

Due to the weather a majority of our time was spent on equipment repairs and road repairs.

Meters: All meters were read on a daily basis.

C.C. Collection: We could not do any televising due to the cold temperatures

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

R.C. Plant: No problems to report.

Alarms: We responded to 19 alarms for February.

PA One Calls: We received 51 PA One calls since February.



MEMORANDUM

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

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: March 5, 2015

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Reservoir Road Pump Station

- The geotechnical report and boring logs were submitted to the Township.
- We prepared a 3rd draft/revision of the concept design consisting of: a pump station site sketch plan including conceptual diversion details and diversion piping profiles, a written outline of pump station controls and critical features, and a ballpark construction cost estimate. During further concept evaluation and vendor coordination, it was determined that suction-lift pumps on the building floor are not feasible because the maximum suction head of the available pumps is exceeded. Options were discussed with Township staff, and it was decided to proceed with submersible pumps in the wet well. This concept will be presented in more detail at the March 9th Municipal Authority meeting.
- A Water Quality Management Permit pre-application meeting with PADEP is scheduled for March 13th at 10:00 am and will be attended by Pennoni Associates and Township staff.
- The existing conditions field survey work began on February 24th. We completed topography on the Bow Tree pond lot and across the Ridley Creek to the existing sewer interceptor, and we have begun to survey the Bow Tree Drive cartway. We anticipate another 7-8 days to complete the field topography and property boundary work. An exact schedule is not yet known due to snow cover.

Chapter 94 Reports

- We continued work on the 2014 Chapter 94 Reports. We anticipate submitting drafts of the reports to the Township for review around March 16th.

Lockwood Chase STP Closure NPDES Permit N.O.T.

- Once the snow melts and ground dries out, we will perform a site visit to the former LCSTP site to evaluate the consistency of as-built conditions with the permit plans, so that the NPDES Permit Notice of Termination paperwork can be finalized and submitted to the Chester County Conservation District.

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 by May.

Hershey's Mill PS Muffin Monster

- We notified PADEP that the comminutor has been installed in the pump station for their field evaluation as required by the permit.



Monthly Operations Report: February 2015

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 reported a weekly maximum TSS exceedance of 16 mg/L, as compared to the permit limitation of 15 mg/L on January 28, 2015. 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. No mechanical or operational issues were observed during operation of the wastewater treatment process and sludge dewatering equipment. Routine preventative maintenance activities were completed.

Treatment Process Operation

During January 2015, there was one (1) exceedance reported for the weekly maximum for TSS of the final effluent discharge limitations for outfall 001. The monthly average TSS was reported as 8 mg/L, with a range of 4 mg/L to 16 mg/L. The TSS concentration of 16 mg/L is believed to be a laboratory error with a 10% range of error. On site analysis of a split sample was measured as 10.2 mg/L. When the laboratory provided initial notice that the TSS concentration exceeded the warning limit of 10 mg/L, the laboratory was instructed to perform a retest of the TSS test. Unfortunately, the laboratory analyzes a liter of sample in order to report the method detection concentration as 2 mg/L rather than 5 mg/L. As a result, insufficient sample volume was available to retest the sample. In addition, notification of the TSS concentration was provided the following week, eliminating the possibility to collect a second sample. Corrective actions included instructing the laboratory to collect two liters of sample for the TSS tests and collecting a second TSS sample when the in-house test result indicates a sample concentration greater than 10 mg/L.

The total phosphorus monthly average concentration was reported as 0.20 mg/L as compared to the permitted limitation of 0.50 mg/L. Final effluent total phosphorus concentration discharged ranged from 0.10 mg/L to 0.27 mg/L. The aluminum sulfate daily average remained consistent during January at 76.6 gpd as compared to the previous month at 74.0 gpd. Table 1 illustrates the final effluent composite sample data reported for the January 2015 eDMR.



Table 1

January 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											
January 6, 2015	0.404	3.6	12.1	5	17	0.731	2.46	0.21	0.71	1	0.0000
January 13, 2015	0.358	2.6	7.8	4	12	0.906	2.71	0.27	0.81	1	0.0000
January 20, 2015	0.919	2.2	16.9	6	46	0.113	0.87	0.10	0.77	2	0.3010
January 28, 2015	0.372	2.00	6.2	16	50	0.37	1.15	0.23	0.71	1	0.0000
Average	0.513	2.6	10.7	8	31	0.531	1.80	0.20	0.75	1	0.0753
Minimum	0.358	2.0	6.2	4	12	0.113	0.87	0.10	0.71	1	0.0000
Maximum	0.919	3.6	16.9	16	50	0.906	2.71	0.27	0.81	2	0.3010

There was no discharge from Outfall 002 to Applebrook during December 2014.

Table 2 illustrates the influent wastewater pollutant loadings for December 2014. The influent loadings remained within the treatment facility design loadings

Table 2

January 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											
January 6, 2015	0.446	162	603	71	264	32.6	121	44.0	164	4.6	17
January 13, 2015	0.398	188	699	149	554	27.1	101	40.2	150	4.7	17
January 20, 2015	0.452	153	569	65	242	32.8	122	36.3	135	4.3	16
January 28, 2015	0.436	111.0	413	82.0	305	34.2	127	42.1	157	4.7	17
Average	0.433	154	571	92	341	31.7	118	40.7	151	4.6	17
Minimum	0.398	111	413	65	242	27.1	101	36.3	135	4.3	16
Maximum	0.452	188	699	149	554	34.2	127	44.0	164	4.7	17



Table 3 presents the available Outfall 001 final effluent data for the month of February 2015. There are no anticipated exceedances of the permitted limitations for the month. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

Table 3

February 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											
February 3, 2015	0.444	3.5	13.0	8	30	0.866	3.21	0.15	0.56	4	0.6021
February 10, 2015	0.391	3.4	11.1	8	26	0.372	1.21	0.21	0.68	1	0.0000
February 17, 2015	0.430	4.7	16.9	11	39	1.790	6.42	0.31	1.11	1	0.0000
February 25, 2015	0.330										
Average	0.399	3.9	13.6	9	32	1.009	3.61	0.22	0.78	2	0.2007
Minimum	0.330	3.4	11.1	8	26	0.372	1.21	0.15	0.56	1	0.0000
Maximum	0.444	4.7	16.9	11	39	1.790	6.42	0.31	1.11	4	0.6021

During February 2015, there was no discharge of treated effluent to Applebrook. The pump has been placed in the off mode during the winter months.

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 February 2015.



Table 4

February 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											
February 3, 2015	0.502	200	837	194	812	29.6	124	35.4	148	3.8	16
February 10, 2015	0.534	143	598	58	243	31.1	130	41.9	175	5.1	21
February 17, 2015	0.492	204	854	117	490	34.3	144	50.5	211	5.5	23
February 25, 2015	0.389										
Average	0.479	182	763	123	515	31.7	133	42.6	178	4.8	20
Minimum	0.389	143	598	58	243	29.6	124	35.4	148	3.8	16
Maximum	0.534	204	854	194	812	34.3	144	50.5	211	5.5	23

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

Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remained consistent during February at approximately 80% coverage of the surface area. Sludge wasting rates remain elevated to manage the MLSS concentrations and F:M ratio within the desired goals. As a result, the ammonia as nitrogen concentration has increased, however, is well below the discharge limitation of 7.0 mg/L. 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



remained fairly consistent at a daily average of 76.6 gpd during February. During January, the soda ash daily addition average remained consistent at 435 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: February 2015

Sludge Dewatering Summary	
Gallons of sludge dewatered	193,165
Average Dewatered Total Solids, %	NA
Wet Tons	NA
Dry Tons	NA
Number of dumpsters	4

**Seventeen (17) days of centrifuge operation*

Flow data:

February 2015			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	12.124	433,003	591,490
Influent Wastewater to SBRs	12.388	442,445	543,168
Internal Recycle	0.482	17,208	171,896
Treated Effluent to Disc Filters	11.784	420,848	350,144
Final Effluent Discharge	10.798	385,643	502,000
Applebrook Golf Course	0	0	0



Chemical Usage:

February 2015		
Chemical	Daily Average	Total Monthly
Soda Ash	438	12,250
Aluminum Sulfate solution	76.6	2,145
Polymer (centrifuge)	0.84	14.28

**Seventeen (17) days of centrifuge operation*

During February, 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 February was 9.75 feet and the level at the end of the month was 6.15 feet. The initial total solids concentration was 1.14% decreasing to 0.89% at the end of the month. The average pH concentration was 6.95 S.U. Zero gallons of supernatant were decanted during the month. A total of 400 pounds of soda ash were added.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 9.73 feet and the level at the end was 10.58. The initial total solids concentration was 1.03% total solids increasing to 1.21% at the end of the month. The average pH concentration was 7.13 S.U. and zero pounds of soda ash were added. Zero gallons of supernatant were decanted.

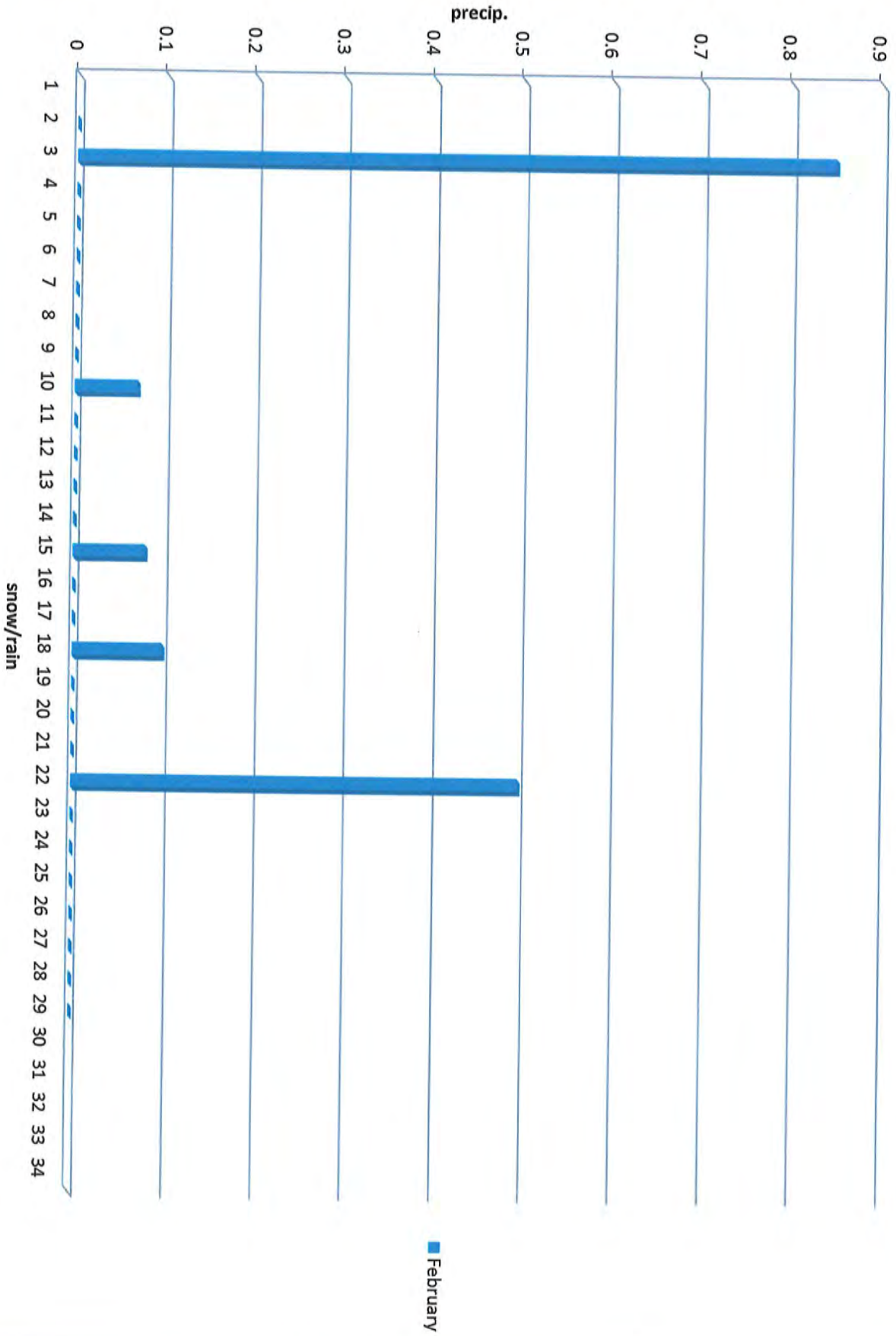
Significant Storm/Hydraulic Loading Events

During February, there were no significant weather events; however, temperatures were measured to be lower than typical.

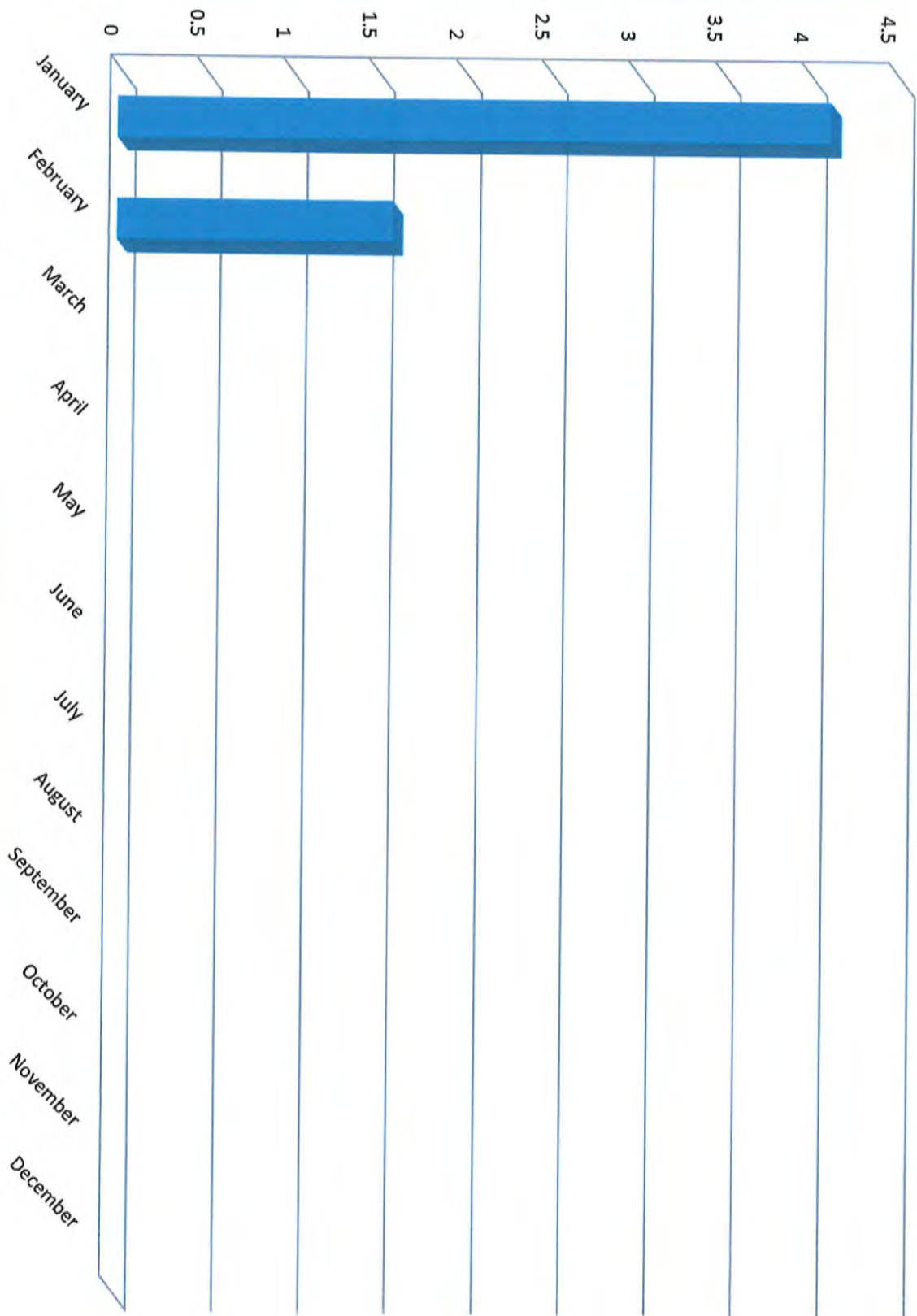
Minor Repairs and Preventative Maintenance

No unscheduled repairs preventative maintenance items were performed during February.

February Precip. 1.60-2015

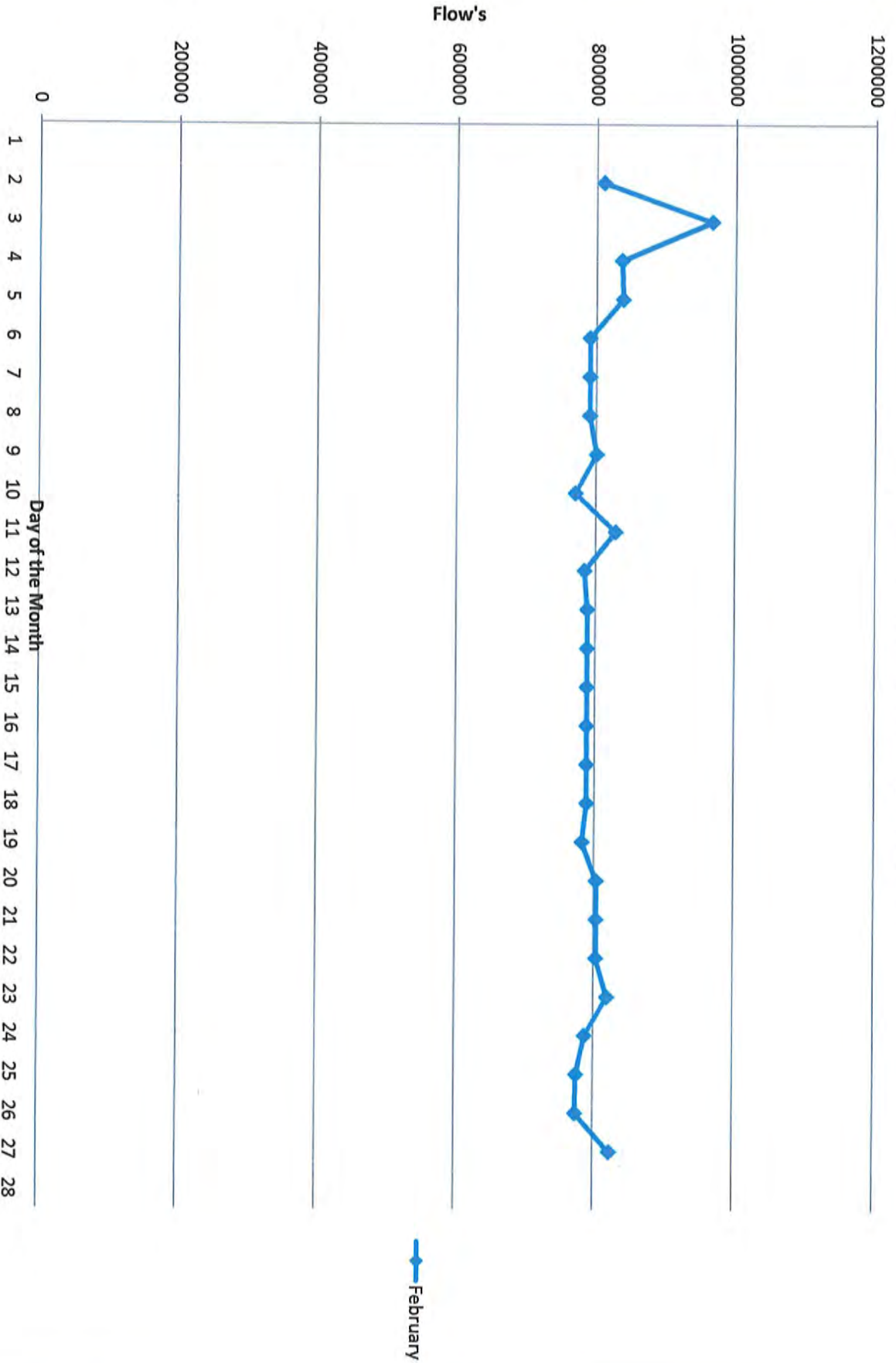


2015 Monthly Precipitation

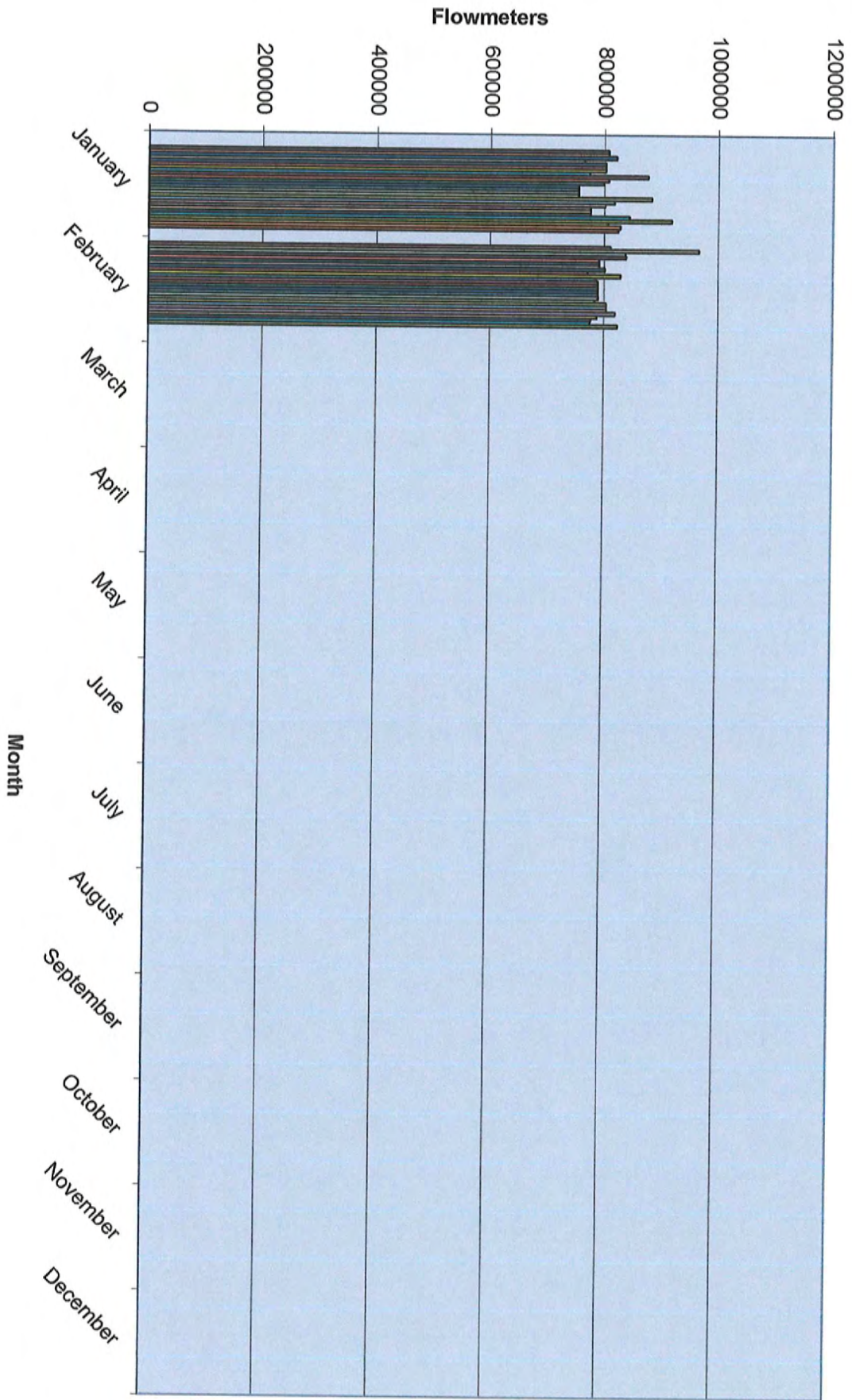


■ Series1

Flowmeters February 2015



Monthly Totals 2015 Jan-Dec



1 Reservoir Rd Pump Station:

2 1. Mike presented the concept site plan for the pump station. The station complies with
3 applicable zoning and subdivision requirements and we are maintaining the required 50
4 foot buffer from the Chester Creek. All of the equipment will be located in the building
5 and it will be landscaped.

6 2. We completed the test boring on January 15, bedrock was encountered at 22' in
7 both borings and rock would not cause a problem with the pump station.

8 3. A pre-application meeting will be scheduled with PADEP in March.

9 Chapter 94 Reports – He has initiated work on the 2014 Chapter 94 Reports.

10 Lockwood Chase Groundwater Monitoring - He reviewed the 2013 and 2014 groundwater
11 monitoring reports and noted the 3 of the monitoring wells are dry, Nitrate-Nitrogen fluctuates
12 from 5.8 to 13.7 mg/L with no discernable trend and Fecal Coliform has been at non-detectable
13 levels since the plant was closed.

14 Lockwood Chase Closure NPDES Permit – He is coordinating the submission of the final
15 closure paperwork with the Township.

16 Hershey’s Mill PS and Marydell PS Diversion - The maintenance bond for these projects expire
17 in July and August and Mike will schedule final inspection in May

18 Hershey Mill PS – Mike notified PADEP that the comminutor has been installed.

19
20 **3. Big Fish Environmental Services** – Scott reported that the plant was in compliance for
21 December and January. In December the total Phosphorous is less the permit limit of 0.5 mg/L.
22 They had to replace the variable speed drives on influent pumps 2 and 3. Kevin expressed a
23 concern about the need to replace electrical components so soon, and Scott noted that we
24 regularly see electrical surges at the plant. Scott said he would discuss the possibility of adding
25 surge protectors to selected equipment with Mark.

26
27 **Approval of Minutes**

28 Jack moved to accept the minutes of January 12, 2015 as corrected. Fran seconded the motion.
29 The motion passed unanimously.

30
31 **Approval of Invoices**

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

33		
34	Invoice #623589	\$5,300.30
35	Invoice #623591	\$ 82.50
36	Invoice #623592	\$ 565.00
37	Invoice #623593	\$ 464.00
38	Invoice #623594	\$ 661.25
39	Invoice #623595	\$2,053.75
40	Invoice #623596	\$1,827.50
41		
42		

43 Jack seconded the motion. The motion passed unanimously.

44
45 **Liaison Reports**

46 None.

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Financial Reports

In January, the Municipal Authority recorded \$556.41 in revenues and \$3,702 in expenses, for a variance of -\$3,145. As of January 31, the fund balance was \$1,586.031, of which \$1,520.845 is in the construction account.

Goals

Jack will attend the next West Goshen meeting.

New Business

It was the consensus of the members that the April 13, June 8 and August 10 Municipal Authority meetings would be rescheduled to 6 pm in order to avoid conflicts with the Comp Plan Task Force meetings.

Adjournment

There being no further business, Dana to adjourn the meeting. Jack seconded the motion. The motion passed unanimously. The meeting was adjourned at 7:45 pm.

Respectfully submitted,

Louis F. Smith, Jr.
Township Manager



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 #: 626537
Invoice Date: 02/20/2015
Project: EGMA1501
Project Name: 2015 General Services

For Services Rendered through: 2/15/2015

Reviewed Lockwood Chase STP annual groundwater monitoring reports for 2013 and 2014, coordinated with Township to obtain prior year's monitoring data, reviewed lab results in 2012 prior to STP closure, and prepared a written summary in the February Engineer's Report; prepared February Engineer's Report; and prepared for and attended the February MA meeting.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,306.25
Expense :	0.00
Phase Total :	1,306.25

Amount Due This Invoice

\$1,306.25

Fee :	12,000.00
Prior Billings :	661.25
Current Billings :	1,306.25
Total Billings :	1,967.50

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	7.25	115.00	833.75
Staff Engineer	5.25	90.00	472.50
Labor Total:	12.50		1,306.25

Total Phase : **** -- Professional Services

Labor :	\$1,306.25
Expense :	\$0.00

Total Project : EGMA1501 - 2015 General Services

Labor :	\$1,306.25
Expense :	\$0.00

ok RS 3/5

East Goshen Municipal Authority
EGMA1501 Invoice Summary
Invoice Date 02/20/2015

Project:	EGMA1501		
Pennoni Job No.:	2015 General Services		
Invoice No:	626537		
Invoice Period:	1/30/2015	to	2/15/2015
Initial Authorization:	\$ 12,000.00	Date:	2/20/2015
Contract Amount:	\$ 12,000.00		
Previously Invoiced:	\$ 661.25		
Current Invoice:	\$ 1,306.25		
Invoiced to Date (\$):	\$ 1,967.50		
Invoiced to Date (%):	16%		
Remaining Budget (\$):	\$ 10,032.50		
Remaining Budget (%):	84%		

Budget by Phase:

Phase Name:	2015 General Services
Phase Budget:	\$ 12,000.00
Previously Invoiced:	\$ 661.25
Current Invoice:	\$ 1,306.25
Invoiced to Date (\$):	\$ 1,967.50
Invoiced to Date (%):	16%
Remaining Budget (\$):	\$ 10,032.50
Remaining Budget (%):	84%

Comments: Reviewed Lockwood Chase STP annual groundwater monitoring reports for 2013 and 2014, coordinated with Township to obtain prior year's monitoring data, reviewed lab results in 2012 prior to STP closure, and prepared a written summary in the February Engineer's Report; prepared February Engineer's Report; and prepared for and attended the February MA meeting.



INVOICE

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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 # : 626538
Invoice Date : 02/20/2015
Project : EGMA1503
Project Name : 2014 Chapter 94 Reports

For Services Rendered through: 2/15/2015

Continued preparation of RCSTP, Chester Creek, and Westtown Chp. 94 Reports including analysis of flow and organic data, coordination with RCSTP operator, and preparation of report narratives, tables, and charts.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	4,378.75
Expense :	0.00
Phase Total :	4,378.75

Amount Due This Invoice

\$4,378.75

Fee :	14,800.00
Prior Billings :	1,827.50
Current Billings :	4,378.75
Total Billings :	6,206.25

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	0.75	115.00	86.25
Associate Engineer	50.50	85.00	4,292.50
Labor Total:	51.25		4,378.75

Total Phase : **** -- Professional Services

Labor :	\$4,378.75
Expense :	\$0.00

Total Project : EGMA1503 -- 2014 Chapter 94 Reports

Labor :	\$4,378.75
Expense :	\$0.00

ok RS 3/5

East Goshen Municipal Authority
EGMA1503 Invoice Summary
Invoice Date 02/20/2015

Project:	EGMA1503		
Pennoni Job No.:	2015 Chapter 94 Reports		
Invoice No:	626538		
Invoice Period:	1/19/2015	to	1/18/2015
Initial Authorization:	\$ 14,800.00	Date:	2/20/2015
Contract Amount:	\$ 10,500.00		
Previously Invoiced:	\$ 1,827.50		
Current Invoice:	\$ 4,378.75		
Invoiced to Date (\$):	\$ 6,206.25		
Invoiced to Date (%):	59%		
Remaining Budget (\$):	\$ 4,293.75		
Remaining Budget (%):	41%		

Budget by Phase:

Phase Name:	2015 Chapter 94 Reports		
Phase Budget:	\$ 10,500.00		
Previously Invoiced:	\$ 1,827.50		
Current Invoice:	\$ 4,378.75		
Invoiced to Date (\$):	\$ 6,206.25		
Invoiced to Date (%):	59%		
Remaining Budget (\$):	\$ 4,293.75		
Remaining Budget (%):	41%		

Comments: Continued preparation of RCSTP, Chester Creek, and Westtown Chp. 94 Reports including analysis of flow and organic data, coordination with RCSTP operator, and preparation of report narratives, tables, and charts.



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

Invoice # : 626539
Invoice Date : 02/20/2015
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 2/15/2015

Phase 01 - We prepared the first draft site concept plans and profiles for alternatives with and without buildings; prepared cost estimates; prepared an outline of pump station design, operations, and controls parameters; attended a site visit to E. Whiteland Twp's Mill Lane PS for scoping; coordinated pump sizing, function, and cost with various vendors; established pump rate and design operating points; met with Township staff to review the first draft concept; initiated revisions to the concept plans to address comments; prepared a draft floor plan of the building; and prepared for the concept plan presentation at the February MA meeting.

Phase 03 - We performed preparatory planning and drafting work in the office for the upcoming field survey.

Phase 07 - We completed and submitted the geotechnical report including borings logs.

Phase Code / Name		Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Concept Design	est.	\$13,700.00	\$2,267.50		\$10,858.25	\$8,590.75
02 -- PADEP WQM Permit Pre-Application Mt	est.	\$1,400.00	\$0.00		\$0.00	\$0.00
03 -- Existing Conditions Survey		\$23,300.00	\$0.00	3.59%	\$836.75	\$836.75
04 -- Sewer Stakeout in Easement Areas	est.	\$3,600.00	\$0.00		\$0.00	\$0.00
05 -- 1636 Bow Tree Dr Bndry Survey & Eas		\$4,020.00	\$0.00	0.00%	\$0.00	\$0.00
06 -- Add'l Boundary Survey & Easement	est.	\$9,000.00	\$0.00		\$0.00	\$0.00
07 -- Geotechnical Borings		\$4,000.00	\$3,032.80	100.00%	\$4,000.00	\$967.20
08 -- Install Permanent Survey Benchmarks	est.	\$4,000.00	\$0.00		\$0.00	\$0.00
Total :		\$63,020.00	\$5,300.30		\$15,695.00	\$10,394.70

Amount Due This Invoice

\$10,394.70

OK RS 3/5

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

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 02/20/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: **626539**
Invoice Period: 1/19/2015 to 2/15/2015
Initial Authorization: \$ 63,020.00 **Date:** 2/20/2015
Contract Amount: \$ 63,020.00
Previously Invoiced: \$ 5,300.30
Current Invoice: \$ 10,394.70
Invoiced to Date (\$): \$ 15,695.00
Invoiced to Date (%): 25%
Remaining Budget (\$): \$ 47,325.00
Remaining Budget (%): 75%

Budget by Phase:

Phase Name: 2015 Semi-Annual I&I Reports
Phase Budget: \$ 63,020.00
Previously Invoiced: \$ 5,300.30
Current Invoice: \$ 10,394.70
Invoiced to Date (\$): \$ 15,695.00
Invoiced to Date (%): 25%
Remaining Budget (\$): \$ 47,325.00
Remaining Budget (%): 75%

Comments: Phase 01 - We prepared the first draft site concept plans and profiles for alternatives with and without buildings; prepared cost estimates; prepared an outline of pump station design, operations, and controls parameters; attended a site visit to E. Whiteland Twp's Mill Lane PS for scoping; coordinated pump sizing, function, and cost with various vendors; established pump rate and design operating points; met with Township staff to review the first draft concept; initiated revisions to the concept plans to address comments; prepared a revised draft floor plan of the building; and prepared for the concept plan presentation at the February MA meeting
Phase 03 - We performed preparatory planning and drafting work in the office for the upcoming field survey.
Phase 07 - We completed and submitted the geotechnical report including borings logs



Gawthrop Greenwood, PC
Attorneys at Law

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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
02/04/2015
Client No: 6604-001M
Invoice No. 128180

General Authority Services

Fees

		Hours	
01/12/2015	PMM		
	Review and analyze packet in preparation for Authority meeting.	1.50	
	For Current Services Rendered	1.50	300.00

Recapitulation

Timekeeper	Hours	Hourly Rate	Total
Patrick M. McKenna	1.50	\$200.00	\$300.00

Total Current Charges 300.00

Balance Due \$300.00

TO MA -

THIS INVOICE HAS BEEN PAID

OK TO PAY

RS 2-10-15

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 February Financial Reports
Date: March 4, 2015

In February, the Municipal Authority recorded \$966.25 in revenues and \$10,954.30 in expenses (all for engineering), for a variance of -\$9,988. As of February 28, the fund balance was \$1,576,043, of which \$1,515,579 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
 February 2015

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE				
			1,586,031.43	
RCSTP BUDGET				
REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	1,600.00	119.08	251.05
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		1,600.00	119.08	251.05
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	119.08	251.05

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	15.00	1.17	2.61
C.C. TAPPING FEES	07364 1100	0.00	0.00	0.00
R.C.TAPPING FEES	07364 1110	14,296.00	0.00	0.00
CONNECTION FEES - SEWER	07364 1130	0.00	563.76	845.64
MISCELLANEOUS REVENUE	07380 1000	0.00	282.24	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	105,105.00	0.00	0.00
TOTAL REVENUE		119,416.00	847.17	1,271.61
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	33,323.00	0.00	0.00
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	5,571.50	6,833.00
LEGAL SERVICES	07424 3140	9,000.00	0.00	0.00
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	5,571.50	8,283.00
OPERATING NET RESULT		(1,600.00)	(4,724.33)	(7,011.39)

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER, PA
 Municipal Authority
 February 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	5,382.80	6,372.80
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		100,000.00	5,382.80	6,372.80
CAPITAL NET RESULT		(100,000.00)	(5,382.80)	(6,372.80)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,576,043.38	

MGRP18 run by BRIAN 4 : 01 PM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description

07341-1000						0.00				
			INTEREST EARNINGS							
	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				

				0.00	2.61	-2.61				

07341-1020						0.00				
			INTEREST EARNED - RCSTP EXPANSION							
	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				

				0.00	251.05	-251.05				

07364-1130						0.00				
			CONNECTION FEES - SEWER							
	1501	CR	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				

East Goshen Township General Ledger

Report Date 03/03/15

GL Transaction Details

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MGRP18 run by BRIAN 4 : 01 PM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3000 MISCELLANEOUS EXPENSE					0.00				
	1501	CD 45777	950.00			01/02/15	2260	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2015 ACTIVE MEMBERSHIP DUES
		46110	500.00			01/29/15	2263	2737	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 ENGINEERING SERVICES					0.00				
		45953	621.50			01/15/15	2261	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/7/14 GENERAL
		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				
			6,833.00	0.00	6,833.00				
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				
			6,372.80	0.00	6,372.80				
Beg Bal		0.00	15,079.16	1,946.02	13,133.14				



New

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:

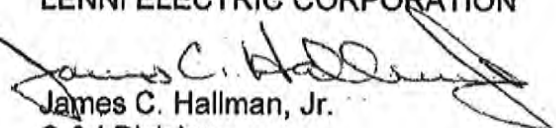
- 1 – Install new GE TPR7120S12WMNiD TVSS in control room after the transformer install, ahead of the UV system controls install
- LS – Rework pipe and wire

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