

EAST GOSHEN MUNICIPAL AUTHORITY

April 13, 2015

The meeting will start at 6 pm

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE
 - a. Ask if anyone will be taping the meeting?
2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS
3. SEWER REPORTS
 - a. Director of Public Works Report
 - b. Pennoni Engineer's Report
 - c. Big Fish Environmental Inc. Report with DMR's
 - d. East Goshen Township Flows
3. APPROVAL OF MINUTES
 - a. March 9, 2015
4. APPROVAL OF INVOICES

a.	Pennoni	Invoice #630705	\$1,756.25
b.	Pennoni	Invoice #630706	\$ 368.75
c.	Pennoni	Invoice #630707	\$2,593.75
d.	Pennoni	Invoice #630893	\$6,619.50
e.	Pennini	Invoice #630894	\$11,988.25
f.	Gawthrop	Invoice #129252	\$ 660.00
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. March 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. 3/9 concept design completed, met with PA DEP.
 - 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 **February**
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 to update 2007 Sewer Needs Analysis
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

April 10, 2015

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

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 four re-sale lateral inspections in the Twp. I inspected them and found no problems.

Alarms: We responded to 14 alarms for March.

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



MEMORANDUM

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

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: April 9, 2015

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- We provided consultation and correspondence to the Township on the proposed surge protection addition and replacement and the premature UV ballast failures. We agree with the proposed approach to add a new TVSS immediately prior to the ballasts and that the ballast failures are likely due to surges. The Township should consider contacting the new ballast vendor and manufacturer to determine their troubleshooting and customer support capabilities now in the event there continue to be issues following the new TVSS installation.
- We attended a tour of the plant and a field visit to the Ashbridge Pump Station with Mark Miller and Pat McKenna on April 2nd.

Reservoir Road Pump Station

- We attended the PADEP Water Quality Management (WQM) Permit pre-application with Rick Smith at PADEP's Norristown office on March 13th. PADEP had some minor comments, but they were agreeable to the design and permitting approach for the project. The project will require an individual WQM permit instead of a general permit due to the proposed daily pump volume.
- We initiated the progress design including site layout, diversion details and diversion piping profiles, pump design, wet well and valve vault, building architectural and HVAC, power, and controls. A current draft of plans will be presented at the April 13th Municipal Authority meeting.
- The existing conditions field survey work continued and has been substantially completed. An existing conditions plan is nearly complete. Once complete, force main plans and profiles will be prepared.

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

Chapter 94 Reports

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

RCSTP

The 2014 annual average influent flow (not including recycle flows) was 0.409 MGD, and the 3-month maximum average flow was 0.479 MGD. The plant's permitted average capacity is 0.750 MGD. The 5-year projected annual average and maximum month flows are 0.396 MGD and 0.458 MGD respectively.

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

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

WGSA

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

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

Semi-Annual I&I Report

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

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

- We plan to perform a site visit to the former LCSTP site to evaluate the consistency of as-built conditions with the permit plans within the next month, 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 in early March that the comminutor has been installed in the pump station for their field evaluation as required by the permit, but we have not received a response.



Monthly Operations Report: March 2015

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the NPDES discharge permit during February 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 SBR and sludge dewatering equipment.

Treatment Process Operation

During February 2015, there were no exceedances of the final effluent discharge limitations for outfall 001. 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 February 2015 eDMR. During the month, the final effluent total phosphorus concentration discharged ranged from 0.15 mg/L to 0.36 mg/L. The aluminum sulfate daily average increased during February to 87.0 gpd.

Table 1

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 9, 2015	0.502			9	38						
February 10, 2015	0.391	3.4	11.1	8	26	0.372	1.2	0.21	0.68	1	0.0000
February 17, 2015	0.430	4.7	16.9	12	43	1.790	6.4	0.31	1.11	1	0.0000
February 25, 2015	0.330	2.5	6.9	7	19	1.96	5.4	0.50	1.38	2	0.3010
Average	0.419	3.5	11.9	9	31	1.247	4.06	0.29	0.93	2	0.2258
Minimum	0.330	2.5	6.9	7	19	0.372	1.21	0.15	0.56	1	0.0000
Maximum	0.502	4.7	16.9	12	43	1.960	6.42	0.50	1.38	4	0.6021

There was no discharge from Outfall 002 to Applebrook during February 2015.



Table 2 illustrates the influent wastewater pollutant loadings for February 2015. The influent loadings remained within the treatment facility design loadings.

Table 2

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	3.8	3.8	16
February 10, 2015	0.534	143	599	58	243	31.1	130	41.9	2.0	5.1	21
February 17, 2015	0.492	204	854	117	490	34.3	144	50.5	4.6	5.5	23
February 25, 2015	0.431	168	703	281	1,176	31.5	132	41.5	4.2	5.3	22
Average	0.490	179	748	163	680	31.6	132	42.3	4	4.9	21
Minimum	0.431	143	599	58	243	29.6	124	35.4	2	3.8	16
Maximum	0.534	204	854	281	1176	34.3	144	50.5	5	5.5	23

Table 3 presents the available Outfall 001 final effluent data for the month of March 2015. During March, excessive foam conditions on the surface of the SBRs resulting from filamentous growth, primarily *Microthrix parvicella*. This bacterium becomes excessively predominate at low organic loadings and water temperatures less than 15°C. Historically during the past three (3) years, it has been observed this filamentous growth becomes excessive during January, February and March of each year. As a result, solids carryover from the SBRs tend to become elevated, which can contribute to exceeding the permitted total suspended solids (TSS) discharge concentrations. The final effluent TSS discharge concentrations were observed to periodically elevated, however, additional sample collection of the final effluent quality resulted in a monthly TSS concentration within the permitted discharge limitations.

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 the month. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

Table 3

March 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											
March 3, 2015	0.371	3.5	10.8	15	46	2.000	6.19		0.00	89	1.9494
March 9, 2015	0.460			9	35						
March 10, 2015	0.528	4.4	19.4	4	18	4.440	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	10.300	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			0.15	0.48	2	0.3010
Average	0.424	4.1	14.9	10	34	6.960	25.77	0.23	0.67	7	0.8491
Minimum	0.354	2.4	7.6	4	18	2.000	6.19	0.15	0.00	1	0.0000
Maximum	0.528	5.4	20.4	15	57	11.100	42.03	0.30	1.03	89	1.9494

During March 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 March 2015.



Table 4

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		28.8	116			4.2	17
Average	0.555	158	637	129	452	27.6	111	32.3	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	40.4	5	4.6	19

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

Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations increased slightly during November and December. 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 87.0 gpd during March. During March, soda ash daily addition decreased to 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: March 2015

Sludge Dewatering Summary	
Gallons of sludge dewatered	315,382
Average Dewatered Total Solids, %	NA
Wet Tons	NA
Dry Tons	NA
Number of dumpsters	6

**Twenty two (22) days of centrifuge operation*

Flow data:

March 2015			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	16.685	538,237	902,200
Influent Wastewater to SBRs	16.307	526,041	769,984
Internal Recycle	0.417	13,445	139,042
Treated Effluent to Disc Filters	15.671	505,505	739,392
Final Effluent Discharge	13.381	431,645	617,000
Applebrook Golf Course	0	0	0

**The final effluent daily maximum flow of 919,000 is attributed to the result of an erroneous level meter reading. The transducer and v-notch weir were cleaned and the subsequent flow measurements recorded were within the anticipated range.*

Chemical Usage:

March 2015		
Chemical	Daily Average	Total Monthly
Soda Ash	389	11,650
Aluminum Sulfate solution	87.0	2,696
Polymer (centrifuge)	0.84	18.44

**twenty two (22) days of centrifuge operation*

During March, 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 March was 6.20 feet and the level at the end of the month was 9.08 feet. The initial total solids concentration was 0.76% decreasing to 0.66% at the end of the month. The average pH concentration was 6.90 S.U. Zero gallons of supernatant were decanted during the month. A total of 1,400 pounds of soda ash were added.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 11.40 feet and the level at the end was 8.73. The initial total solids concentration was 1.29% total solids decreasing to 0.85% at the end of the month. The average pH concentration was 6.75 S.U. and 850 pounds of soda ash was added. Zero gallons of supernatant were decanted.

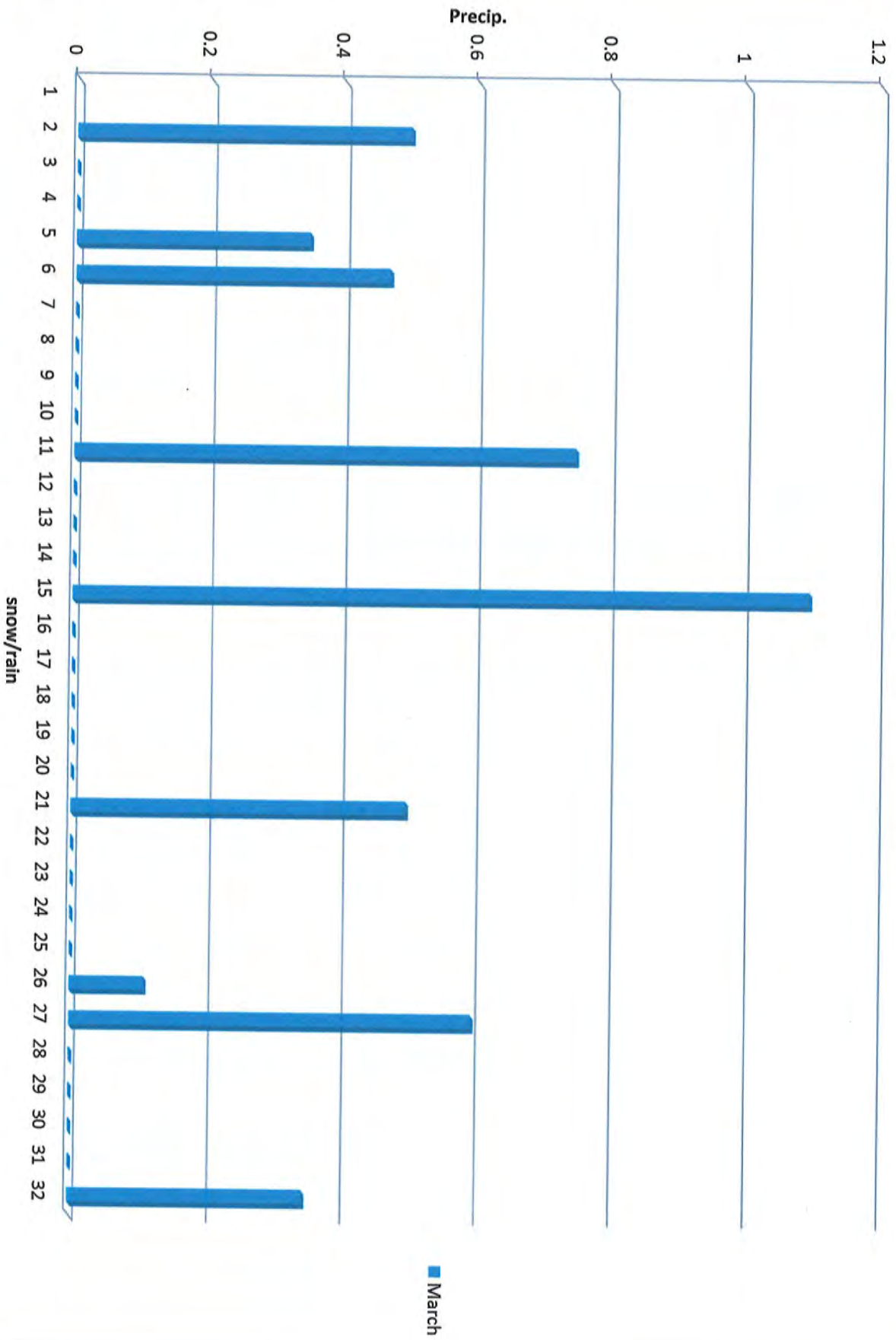
Significant Storm/Hydraulic Loading Events

During March, there were four storm events resulting in daily precipitation amounts greater than 0.5 inches measured during a 24 hour period. A total of 4.4 inches of rainfall and 10.0 inches of snow were measured at the facility during March. Influent flows nearly doubled from a monthly average of 538,237 gpd to 841,790 gpd on March 4th, 836,410 gpd on March 16th and 902,200 gpd on March 14th.

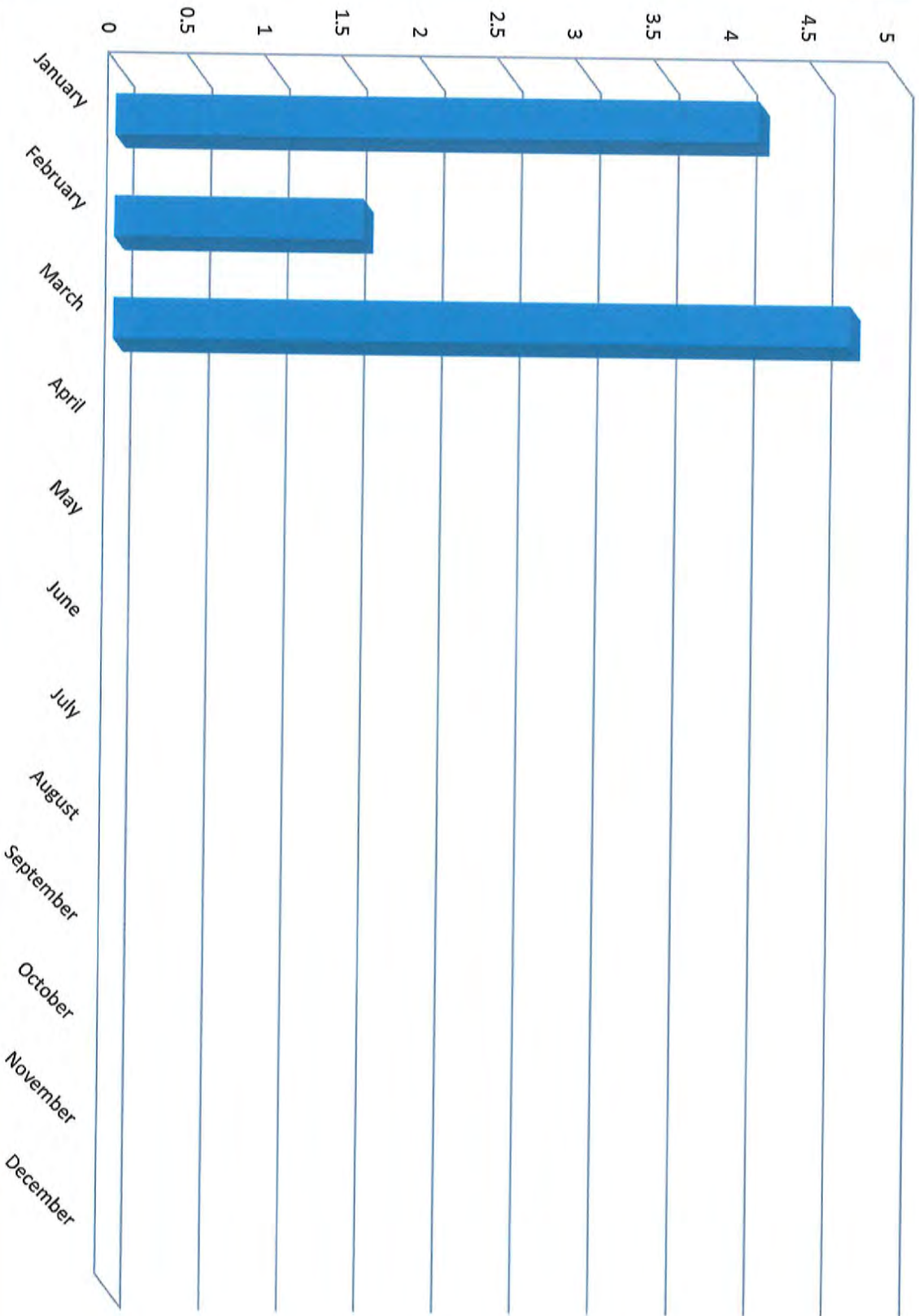
Minor Repairs and Preventative Maintenance

No unscheduled repairs preventative maintenance items were performed during March.

March Precip. 4.73 - 2015

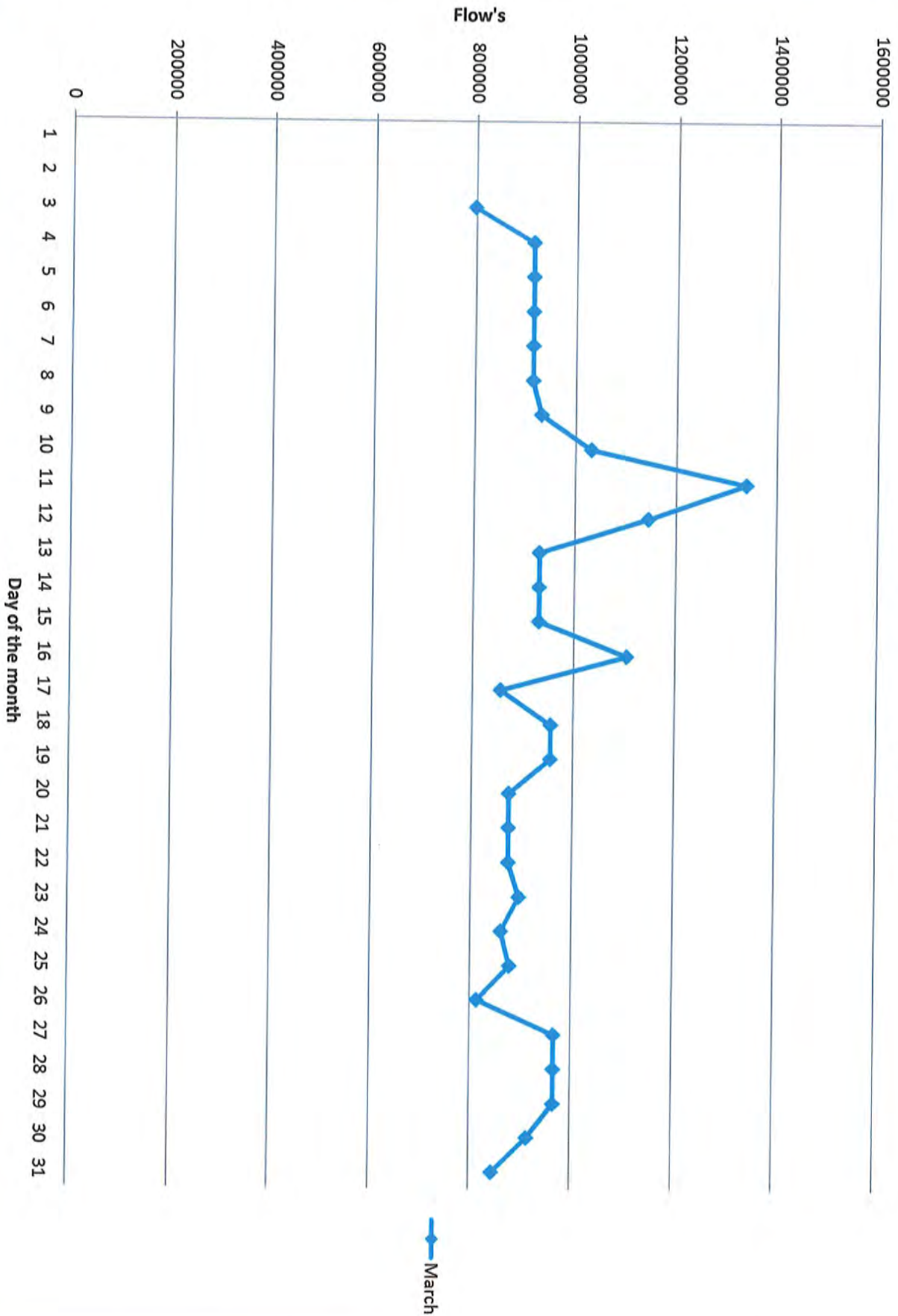


2015 Monthly Precipitation

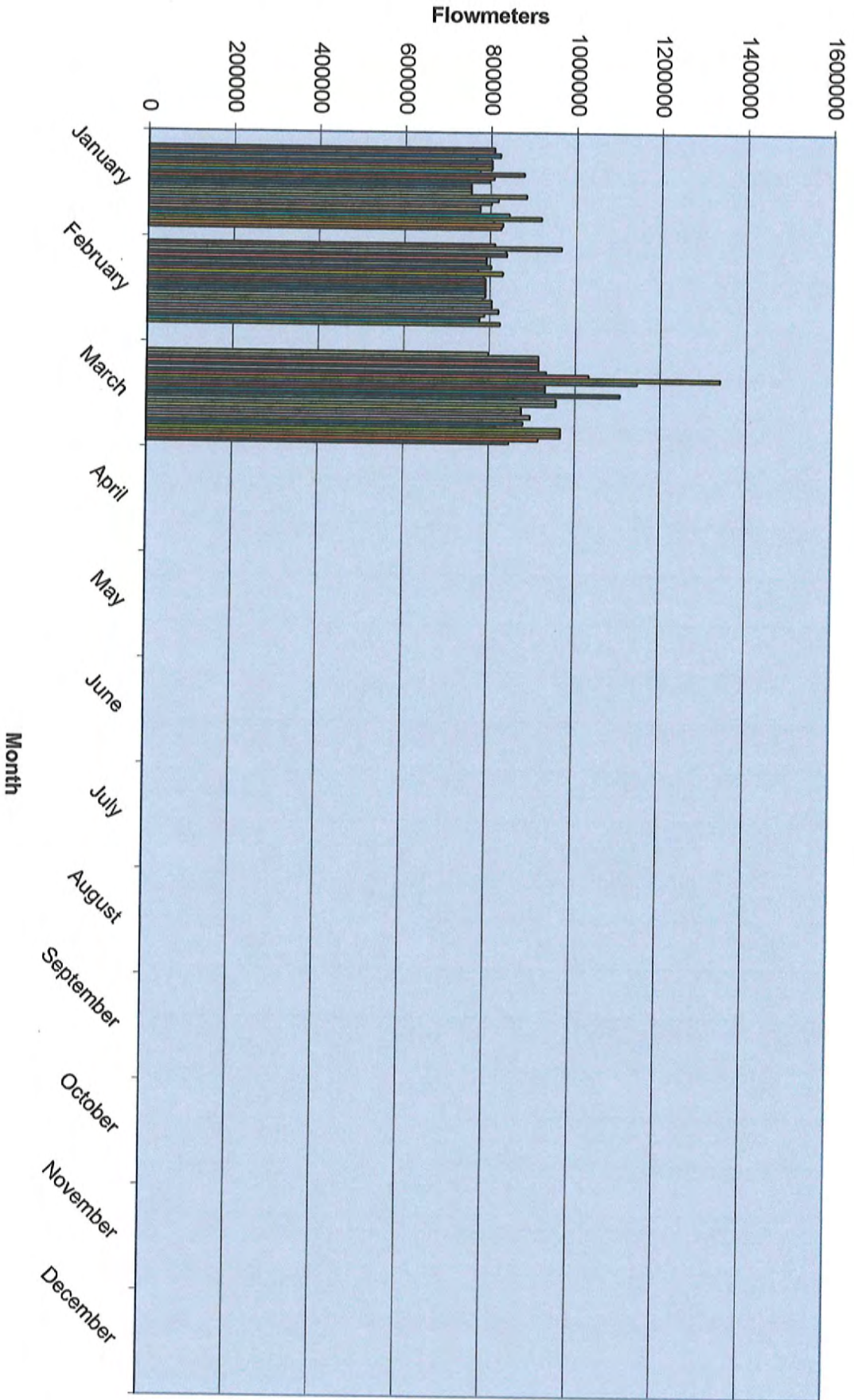


■ Series1

Flowmeters March 2015



Monthly Totals 2015 Jan-Dec



1
2 **EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**
3 **MEETING MINUTES**
4 **March 9, 2015**
5

6 The East Goshen Township Municipal Authority held their regular public meeting on Monday,
7 March 9, 2015 at 6:00 pm at the East Goshen Township building. Members in attendance were:
8 Vice Chairman Dana Pizarro, Jack Yahraes, Fran Beck, and Ed McAssey. Also in attendance
9 were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Mike Ellis
10 (Pennoni), Patrick McKenna (Attorney) and Walter Wujcik (Conservancy Board).
11

12 **COMMON ACRONYMS:**

13 <i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
14 <i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
15 <i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
16 <i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
17 <i>EPA – Environmental protection Agency</i>	<i>PR – Park & Recreation Board</i>
18 <i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
19 <i>I&I – Inflow & Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
20 <i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
21	<i>WAS – Waste Activated Sludge</i>
22	

23 **Call to Order & Pledge of Allegiance**

24 Dana called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance.
25 There was a moment of silence to remember the troops and all veterans. Dana asked if anyone
26 would be recording the meeting and there was no response.
27

28 **Chairman’s Report/Other Members’ Reports**

29 1. Jack reported that he attended the West Goshen meeting which was very short. No report.
30

31 **Sewer Reports**

32 **1. Director of Public Works**

33 Mark Miller reported for February 2015: Due to the weather a majority of our time was
34 spent on equipment repairs and road repairs.

35 Meters: All meters were read on a daily basis.

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

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

38 R.C. Plant: No problems to report.

39 Alarms: We responded to 19 alarms for the month of February.

40 PA One Calls: We received 51 PA One calls in February.
41

42 **2. Pennoni Engineer’s Report**

43 Mike Ellis gave the following report:

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

45 Reservoir Rd Pump Station:

- 46 1. The geotechnical report and boring logs were submitted to the Township.
47 2. We prepared a 3rd draft/revision of the concept design consisting of: a pump station
48 site sketch plan including conceptual diversion details and diversion piping profiles, a

1 written outline of pump station controls and critical features, and a ballpark construction
2 cost estimate. During further concept evaluation and vendor coordination, it was
3 determined that suction-lift pumps on the building floor are not feasible because the
4 maximum suction head of the available pumps is exceeded. Options were discussed with
5 township staff, and it was decided to proceed with submersible pumps in the wet well.
6 This concept will be presented in more detail at the March 9th Municipal Authority
7 meeting.

8 3. A Water Quality Management Permit pre-application meeting with PADEP is
9 scheduled for March 13th at 10:00 am and will be attended by Pennoni Associates and
10 Township staff.

11 4. The existing conditions field survey work began on February 24th. We completed
12 topography on the Bow tree pond lot and across the Ridley Creek to the existing sewer
13 interceptor, and we have begun to survey the Bow Tree Drive cartway. We anticipate
14 another 7-8 days to complete the field topography and property boundary work. An exact
15 schedule is not yet known due to snow cover.

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

18 Lockwood Chase STP Closure NPDES Permit N.O.T. - Once the snow melts and ground dries
19 out, we will perform a site visit to the former LCSTP site to evaluate the consistency of
20 as-built conditions with the permit plans, so that the NPDES Permit Notice of
21 Termination paperwork can be finalized and submitted to the Chester County
22 Conservation District.

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

26 Hershey's Mill PS Muffin Monster – we notified PADEP that the comminutor has been installed
27 in the pump station for their field evaluation as required by the permit.

28
29 **3. Big Fish Environmental Services** – Scott reported that the Ridley Creek sewage treatment
30 plant outfall 001 reported a weekly maximum TSS exceedance of 16 mg/L, as compared to the
31 permit limitation of 15 mg/L on January 28, 2015. There was no discharge to Applebrook,
32 which is identified as outfall 002. Chemical usage utilized for total phosphorus removal, pH and
33 total alkalinity remained consistent with previous months. No mechanical or operational issues
34 were observed during operation of the wastewater treatment process and sludge dewatering
35 equipment. Routine preventative maintenance activities were completed.

36 **Approval of Minutes**

37 Jack moved to accept the minutes of February 9, 2015 as corrected. Fran seconded the motion.
38 The motion passed unanimously.

39 **Approval of Invoices**

- 40
41 1. Ed moved to approve payment of the following Pennoni invoices:
42 a. Pennoni #626537 \$ 1,306.25
43 b. Pennoni #626538 \$ 4,378.75
44 c. Pennoni #626539 \$10,394.70
45

46 Jack seconded the motion. The motion passed unanimously.

2. Fran moved to approve payment of the Gawthrop Invoice #128180 for \$300.00. Ed seconded the motion. The motion passed unanimously.

Liaison Reports

Conservancy Board – Walter reminded everyone that Keep East Goshen Beautiful Day is on Saturday, April 11 at 8:30 am. Also the Board will have a planting in late April or early May.

Board of Supervisors – Carmen mentioned that tomorrow March 10 at 7:00 pm the BOS will have a combined meeting with the Planning Commission to review Swiss Farms and Dunkin Donuts requests.

Financial Reports

Jon Altshul provided the following report:

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.

Goals

Dana will do an article for the next Township newsletter.

New Business

1. The quote from Lenni Electric for a new surge protector to be added before the TVSS was reviewed. They are trying to avoid replacing the valves on the UV. The Authority members thought the main was protected. Mike will check into this.

2. Phase 2 Proposal – Mike reviewed the Proposal for Professional Services for Phase 2: Progress Design and Infiltration Testing Reservoir Road Pump Station Design & Permitting. The Phase 2 Scope of Work is divided into 2 tasks – 1 Progress Design, and 2 Infiltration Testing.

The proposed schedule is:

Notice to proceed	March 9
1 st Progress design Submission	April 10
1 st Township Review Meeting	April 17
Infiltration Testing	TBD
NPDES Permit Pre-Application Meeting	by April 24
2 nd Progress Design Submission	May 1
2 nd Township Review Meeting	May 7

Estimated Fee is:

Task 1 – Progress Design	\$39,100.00
Task 2 – Infiltration Testing	<u>\$ 1,800.00</u>
TOTAL	<u>\$40,900.00</u>

Mike estimates the total cost for the Reservoir Road Pump Station to be \$1.7 million plus 20% contingency.

Jack moved to accept the proposal as presented. Ed seconded the motion. The motion passed unanimously.

1
2
3
4 **Adjournment**
5 There being no further business, Jack moved to adjourn the meeting. Fran seconded the motion.
6 The motion passed unanimously. The meeting was adjourned at 8:00 pm.

7
8 Respectfully submitted,

9
10
11 Ruth Kiefer
12 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 # : 630705
Invoice Date : 04/01/2015
Project : EGMA1501
Project Name : 2015 General Services

For Services Rendered through: 3/22/2015

Reviewed Lockwood Chase STP's 2014 groundwater monitoring report approval letter from PADEP; reviewed status of PADEP permit construction completion certifications for diversion projects and began to fill out certification forms; prepared March Engineer's Report; prepared for and attended March MA meeting including Reservoir Road PS project status presentation; coordinated with Township regarding electrical surge protection of UV ballasts at RCSTP and other possible ballast failure mechanisms; and prepared Township-wide sewer drainage basins exhibit for use in Comprehensive Plan Update.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 1,756.25
Expense : 0.00
Phase Total : 1,756.25

Amount Due This Invoice

\$1,756.25

Fee : 12,000.00
Prior Billings : 1,967.50
Current Billings : 1,756.25
Total Billings : 3,723.75

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	10.75	115.00	1,236.25
Staff Engineer	2.00	90.00	180.00
Associate Engineer	4.00	85.00	340.00
Labor Total:	16.75		1,756.25

Total Phase : **** -- Professional Services

Labor : \$1,756.25
Expense : \$0.00

Total Project : EGMA1501 - 2015 General Services

Labor : \$1,756.25
Expense : \$0.00

RS 4/10

East Goshen Municipal Authority
 EGMA1501 Invoice Summary
 Invoice Date 04/01/2015

Project:	EGMA1501		
Pennoni Job No.:	2015 General Services		
Invoice No:	630705		
Invoice Period:	2/16/2015	to	3/22/2015
Initial Authorization:	\$ 12,000.00	Date:	4/1/2015
Contract Amount:	\$ 12,000.00		
Previously Invoiced:	\$ 1,967.50		
Current Invoice:	\$ 1,756.25		
Invoiced to Date (\$):	\$ 3,723.75		
Invoiced to Date (%):	31%		
Remaining Budget (\$):	\$ 8,276.25		
Remaining Budget (%):	69%		

Budget by Phase:

Phase Name:	2015 General Services		
Phase Budget:	\$ 12,000.00		
Previously Invoiced:	\$ 1,967.50		
Current Invoice:	\$ 1,756.25		
Invoiced to Date (\$):	\$ 3,723.75		
Invoiced to Date (%):	31%		
Remaining Budget (\$):	\$ 8,276.25		
Remaining Budget (%):	69%		

Comments: Reviewed Lockwood Chase STP's 2014 groundwater monitoring report approval letter from PADEP; reviewed status of PADEP permit construction completion certifications for diversion projects and began to fill out certification forms; prepared March Engineer's Report; prepared for and attended March MA meeting including Reservoir Road PS project status presentation; coordinated with Township regarding electrical surge protection of UV ballasts at RCSTP and other possible ballast failure mechanisms; and prepared Township-wide sewer drainage basins exhibit for use in Comprehensive Plan Update.



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 # : 630706
 Invoice Date : 04/01/2015
 Project : EGMA1502
 Project Name : 2015 Semi-Annual I&I Reports

For Services Rendered through: 3/22/2015

Performed a cursory analysis of February 2015 portable meter data.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	368.75
Expense :	0.00
Phase Total :	368.75
	<u><u>\$368.75</u></u>

Amount Due This Invoice

Fee :	10,500.00
Prior Billings :	2,053.75
Current Billings :	368.75
Total Billings :	2,422.50

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	0.25	115.00	28.75
Associate Engineer	4.00	85.00	340.00
Labor Total:	4.25		368.75

Total Phase : **** -- Professional Services

Labor :	\$368.75
Expense :	\$0.00

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

Labor :	\$368.75
Expense :	\$0.00

TLJ 4/10

East Goshen Municipal Authority
EGMA1502 Invoice Summary
Invoice Date 04/01/2015

Project: EGMA1502
Pennoni Job No.: 2015 Semi-Annual I&I Reports
Invoice No: **630706**
Invoice Period: 1/19/2015 to 3/22/2015
Initial Authorization: \$ 10,500.00 **Date:** 4/1/2015
Contract Amount: \$ 10,500.00
Previously Invoiced: \$ 2,053.75
Current Invoice: \$ 368.75
Invoiced to Date (\$): \$ 2,422.50
Invoiced to Date (%): 23%
Remaining Budget (\$): \$ 8,077.50
Remaining Budget (%): 77%

Budget by Phase:

Phase Name: 2015 Semi-Annual I&I Reports
Phase Budget: \$ 10,500.00
Previously Invoiced: \$ 2,053.75
Current Invoice: \$ 368.75
Invoiced to Date (\$): \$ 2,422.50
Invoiced to Date (%): 23%
Remaining Budget (\$): \$ 8,077.50
Remaining Budget (%): 77%

Comments: Performed a cursory analysis of February 2015 portable meter data.



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 # : 630707
Invoice Date : 04/01/2015
Project : EGMA1503
Project Name : 2014 Chapter 94 Reports

For Services Rendered through: 3/22/2015

Continued preparation of RCSTP, West Goshen (Chester Creek), and Westtown Chp. 94 Reports including analysis of flow and organic data and preparation of report narratives, tables, and charts.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 2,593.75
Expense : 0.00
Phase Total : 2,593.75

Amount Due This Invoice

2,593.75

Fee : 14,800.00
Prior Billings : 6,206.25
Current Billings : 2,593.75
Total Billings : 8,800.00

Phase : **** -- Professional Services

Labor Class	Hours/Units	Rate	Amount
Authority Engineer	0.75	115.00	86.25
Associate Engineer	29.50	85.00	2,507.50
Labor Total:	30.25		2,593.75

Total Phase : **** -- Professional Services

Labor : \$2,593.75
Expense : \$0.00

Total Project : EGMA1503 -- 2014 Chapter 94 Reports

Labor : \$2,593.75
Expense : \$0.00

RS 4/10

East Goshen Municipal Authority
EGMA1503 Invoice Summary
Invoice Date 04/01/2015

Project: EGMA1503
Pennoni Job No.: 2015 Chapter 94 Reports
Invoice No: **630707**
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 14,800.00 **Date:** 4/1/2015
Contract Amount: \$ 10,500.00
Previously Invoiced: \$ 6,206.25
Current Invoice: \$ 2,593.75
Invoiced to Date (\$): \$ 8,800.00
Invoiced to Date (%): 84%
Remaining Budget (\$): \$ 1,700.00
Remaining Budget (%): 16%

Budget by Phase:

Phase Name: 2015 Chapter 94 Reports
Phase Budget: \$ 10,500.00
Previously Invoiced: \$ 6,206.25
Current Invoice: \$ 2,593.75
Invoiced to Date (\$): \$ 8,800.00
Invoiced to Date (%): 84%
Remaining Budget (\$): \$ 1,700.00
Remaining Budget (%): 16%

Comments: Continued preparation of RCSTP, West Goshen (Chester Creek), and Westtown Chp. 94 Reports including analysis of flow and organic data, and preparation of report narratives, tables, and charts.



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 # : 630893
Invoice Date : 04/01/2015
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 3/22/2015

Phase 01 - We prepared the 2nd and 3rd (final) iterative drafts of the concept site plan, profiles, diversion approach, and building layout; updated cost estimates accordingly; updated the outline of pump station design, operations, and controls parameters accordingly; continued coordination with vendors and Township staff to determine suction lift pumps are infeasible and to design for submersibles in a wet well; and prepared for the final concept plan presentation at the March MA meeting. Phase 01 is completed. FINAL INVOICE FOR PHASE 01.

Phase 02 - We prepared for and attended the permit pre-application meeting at PADEP's office. Preparation included evaluation of permitting forms and typical requirements, revisions to concept plans to address comments from March MA meeting, and coordination with Township Manager. We also prepared meeting minutes. Phase 02 is completed. FINAL INVOICE FOR PHASE 02.

Phase 09 - We initiated the progress design effort including site layout, wet well sizing and sections, pump and operating range design, and cursory evaluation of availability of 3-phase electric.

Phase : 01 -- Concept Design

Total Phase : 01 -- Concept Design

Labor :	2,797.50
Expense :	0.00
Phase Total :	2,797.50

Phase : 02 -- PADEP WQM Permit Pre-Application Mt

Total Phase : 02 -- PADEP WQM Permit Pre-Application Mt

Labor :	1,300.00
Expense :	0.00
Phase Total :	1,300.00

Phase : 09 -- Progress Design

Total Phase : 09 -- Progress Design

Labor :	2,522.00
Expense :	0.00
Phase Total :	2,522.00

Amount Due This Invoice

\$6,619.50

Fee :	68,600.00
Prior Billings :	15,695.00
Current Billings :	6,619.50
Total Billings :	22,314.50

o/c RS 4/10

Continued on next page...

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 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

Phase Name:	Concept Plans	Phase 01
Phase Budget:	\$ 13,700.00	
Previously Invoiced:	\$ 10,858.25	
Current Invoice:	\$ 2,797.50	
Invoiced to Date (\$):	\$ 13,655.75	
Invoiced to Date (%):	99.7%	
Remaining Budget (\$):	\$ 44.25	
Remaining Budget (%):	0.3%	

Comments: Phase 01 - We prepared the 2nd and 3rd (final) iterative drafts of the concept site plan, profiles, diversion approach, and building layout; updated cost estimates accordingly; updated the outline of pump station design, operations, and controls parameters accordingly; continued coordination with vendors and Township staff to determine suction lift pumps are infeasible and to design for submersibles in a wet well; and prepared for the final concept plan presentation at the March MA meeting. Phase 01 is completed. FINAL INVOICE FOR PHASE 01.

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

	PADEP WQM Permit Pre- Application Mt	Phase 02
Phase Name:		
Phase Budget:	\$ 1,400.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ 1,300.00	
Invoiced to Date (\$):	\$ 1,300.00	
Invoiced to Date (%):	93%	
Remaining Budget (\$):	\$ 100.00	
Remaining Budget (%):	7%	

Comments:

Phase 02 - We prepared for and attended the permit pre-application meeting at PADEP's office. Preparation included evaluation of permitting forms and typical requirements, revisions to concept plans to address comments from March MA meeting, and coordination with Township Manager. We also prepared meeting minutes. Phase 02 is completed. FINAL INVOICE FOR PHASE 02

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

	Existing	
Phase Name:	Conditions Survey	Phase 03
Phase Budget:	\$ 23,300.00	
Previously Invoiced:	\$ 836.75	
Current Invoice:	\$ 11,988.25	
Invoiced to Date (\$):	\$ 12,825.00	
Invoiced to Date (%):	55%	
Remaining Budget (\$):	\$ 10,475.00	
Remaining Budget (%):	45%	

Comments: Phase 03 - We performed field survey at the proposed point of connection to the Ridley Creek interceptor sewer, around the Bow Tree pond, and along a portion of Bow Tree Drive; and we created an existing conditions and topography plan from the surveyed data.

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

	Stakeout In Easement Areas	Phase 04
Phase Name:		
Phase Budget:	\$ 3,600.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ -	
Invoiced to Date (\$):	\$ -	
Invoiced to Date (%):	0%	
Remaining Budget (\$):	\$ 3,600.00	
Remaining Budget (%):	100%	

Comments: ta.

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project:	EGMA1504		
Pennoni Job No.:	Reservoir Rd PS Design & Permitting		
Invoice No:	630893 & 630894		
Invoice Period:	2/16/2015	to	3/22/2015
Initial Authorization:	\$ 103,920.00	Date:	4/1/2015
Contract Amount:	\$ 103,920.00		
Previously Invoiced:	\$ 15,695.00		
Current Invoice:	\$ 18,607.75		
Invoiced to Date (\$):	\$ 34,302.75		
Invoiced to Date (%):	33%		
Remaining Budget (\$):	\$ 69,617.25		
Remaining Budget (%):	67%		

Budget by Phase:	1636 Bow Tree Dr	
	Bndry Survey &	
Phase Name:	Easement	Phase 05
Phase Budget:	\$ 4,020.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ -	
Invoiced to Date (\$):	\$ -	
Invoiced to Date (%):	0%	
Remaining Budget (\$):	\$ 4,020.00	
Remaining Budget (%):	100%	

Comments:

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

Phase Name:	Add'l Bndry Survey & Easement	Phase 06
Phase Budget:	\$ 9,000.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ -	
Invoiced to Date (\$):	\$ -	
Invoiced to Date (%):	0%	
Remaining Budget (\$):	\$ 9,000.00	
Remaining Budget (%):	100%	

Comments:

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project:	EGMA1504		
Pennoni Job No.:	Reservoir Rd PS Design & Permitting		
Invoice No:	630893 & 630894		
Invoice Period:	2/16/2015	to	3/22/2015
Initial Authorization:	\$ 103,920.00	Date:	4/1/2015
Contract Amount:	\$ 103,920.00		
Previously Invoiced:	\$ 15,695.00		
Current Invoice:	\$ 18,607.75		
Invoiced to Date (\$):	\$ 34,302.75		
Invoiced to Date (%):	33%		
Remaining Budget (\$):	\$ 69,617.25		
Remaining Budget (%):	67%		

Budget by Phase:

Phase Name:	Geotechnical Borings	Phase 07
Phase Budget:	\$ 4,000.00	
Previously Invoiced:	\$ 4,000.00	
Current Invoice:	\$ -	
Invoiced to Date (\$):	\$ 4,000.00	
Invoiced to Date (%):	100%	
Remaining Budget (\$):	\$ -	
Remaining Budget (%):	0%	

Comments:

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

Phase Name:	Permanent Survey Benchmarks	Phase 08
Phase Budget:	\$ 4,000.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ -	
Invoiced to Date (\$):	\$ -	
Invoiced to Date (%):	0%	
Remaining Budget (\$):	\$ 4,000.00	
Remaining Budget (%):	100%	

Comments:

East Goshen Municipal Authority
 EGMA1504 Invoice Summary
 Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

Phase Name:	Progress Design	Phase 09
Phase Budget:	\$ 39,100.00	
Previously Invoiced:	\$ -	
Current Invoice:	\$ 2,522.00	
Invoiced to Date (\$):	\$ 2,522.00	
Invoiced to Date (%):	6%	
Remaining Budget (\$):	\$ 36,578.00	
Remaining Budget (%):	94%	

Comments: Phase 09 - We initiated the progress design effort including site layout, wet well sizing and sections, pump and operating range design, and cursory evaluation of availability of 3-phase electric.

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 04/01/2015

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 630893 & 630894
Invoice Period: 2/16/2015 to 3/22/2015
Initial Authorization: \$ 103,920.00 **Date:** 4/1/2015
Contract Amount: \$ 103,920.00
Previously Invoiced: \$ 15,695.00
Current Invoice: \$ 18,607.75
Invoiced to Date (\$): \$ 34,302.75
Invoiced to Date (%): 33%
Remaining Budget (\$): \$ 69,617.25
Remaining Budget (%): 67%

Budget by Phase:

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

Comments:



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 # : 630894
Invoice Date : 04/01/2015
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 3/22/2015

Phase 03 - We performed field survey at the proposed point of connection to the Ridley Creek interceptor sewer, around the Bow Tree pond, and along a portion of Bow Tree Drive; and we created an existing conditions and topography plan from the surveyed data.

Phase : 03 -- Existing Conditions Survey

Contract Amount	\$23,300.00		
Percent Complete	55.04%		
Contract Amount Completed		\$12,825.00	
Less Previous Billed		\$(836.75)	
Phase Subtotal			<u>\$11,988.25</u>
Amount Due This Invoice			<u><u>\$11,988.25</u></u>

O/C RS 4-10

...Continued from previous page

Phase : 01 -- Concept Design

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	7.75	115.00	891.25
Senior Engineer	3.00	110.00	330.00
Project Engineer	16.25	97.00	1,576.25
Labor Total:	27.00		2,797.50

Total Phase : 01 -- Concept Design	Labor :	\$2,797.50
	Expense :	\$0.00

Phase : 02 -- PADEP WQM Permit Pre-Application Mt

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	10.25	115.00	1,178.75
Project Engineer	1.25	97.00	121.25
Labor Total:	11.50		1,300.00

Total Phase : 02 -- PADEP WQM Permit Pre-Application Mt	Labor :	\$1,300.00
	Expense :	\$0.00

Phase : 09 -- Progress Design

Labor Class	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
Authority Engineer	3.50	115.00	402.50
Project Engineer	11.00	97.00	1,067.00
Staff Engineer	1.00	90.00	90.00
Engineering Technician II	12.50	77.00	962.50
Labor Total:	28.00		2,522.00

Total Phase : 09 -- Progress Design	Labor :	\$2,522.00
	Expense :	\$0.00

Total Project : EGMA1504 -- Reservoir Rd PS Design & Permitting	Labor :	\$6,619.50
	Expense :	\$0.00



Gawthrop Greenwood, PC
Attorneys at Law

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
03/09/2015
Client No: 6604-001M
Invoice No: 129252

General Authority Services

Fees

		Hours	
02/06/2015			
JKW	Review meeting packet in preparation for Municipal Authority meeting.	0.50	
02/09/2015			
JKW	Attend Municipal Authority meeting.	1.30	
	For Current Services Rendered	1.80	<u>360.00</u>

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Jessica K. Wiesak	1.80	\$200.00	\$360.00
Previous Balance			\$300.00
Total Current Charges			360.00
Balance Due			<u>\$660.00</u>

RJ

4/10

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 March Financial Reports
Date: April 8, 2015

In March, the Municipal Authority recorded \$132 in revenues and \$24,672 in expenses (including \$8,292 for the quarterly overhead chargeback, \$10,395 for Reservoir Rd Pump Station engineering and \$5,685 for general engineering), for a variance of -\$24,540. As of March 31, the fund balance was \$1,551,504, of which \$1,505,313 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
 March 2015

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE				
			1,576,043.38	
RCSTP BUDGET				
REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	1,600.00	131.27	382.32
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		1,600.00	131.27	382.32
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	131.27	382.32

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

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	15.00	1.03	3.64
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	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	1.03	1,272.64
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	33,323.00	8,292.10	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	5,685.00	12,518.00
LEGAL SERVICES	07424 3140	9,000.00	300.00	300.00
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	14,277.10	22,560.10
OPERATING NET RESULT		(1,600.00)	(14,276.07)	(21,287.46)

EAST GOSHEN TOWNSHIP
 1580 PAOLI PIKE
 WEST CHESTER, PA
 Municipal Authority
 March 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	10,394.70	16,767.50
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		100,000.00	10,394.70	16,767.50
CAPITAL NET RESULT		(100,000.00)	(10,394.70)	(16,767.50)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,551,503.88	

East Goshen Township General Ledger

Report Date 04/08/15

GL Transaction Details

PAGE 1

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				
			0.00	3.64	-3.64				
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				
			0.00	382.32	-382.32				
07364-1130	CONNECTION FEES - SEWER				0.00				
	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	MISCELLANEOUS REVENUE				0.00				

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
	1501	JE 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		ADMINISTRATIVE WAGES			0.00				
	1503	CD 46874	8,292.10			03/30/15	2267		425 EAST GOSHEN TOWNSHIP - GENERAL 1ST QTR.2015 REIMBURS. FR: MUN.A
			8,292.10	0.00	8,292.10				
			8,292.10	0.00	8,292.10				
07424-3000		MISCELLANEOUS EXPENSE			0.00				
	1501	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				
	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				
			12,518.00	0.00	12,518.00				

East Goshen Township General Ledger

Report Date 04/08/15

GL Transaction Details

PAGE 3

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140		LEGAL SERVICES			0.00				
			300.00			03/12/15	2265	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - 1/12/15 GEN.AUT
			300.00	0.00	300.00				
			300.00	0.00	300.00				
07428-1000		RESERVOIR PUMP STATION - ENGINEER			0.00				
1501		45954	137.50			01/15/15	10029	1052	PENNONI ASSOCIATES INC. SERV.THRU 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.THRU 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				
			16,767.50	0.00	16,767.50				
Beq Bal		0.00	39,750.96	2,078.32	37,672.64				

LENNI
ELECTRIC
CORPORATION

February 13, 2015

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

Attn: Mr. Mark Miller

Re: Ridley Creek WWTP – TVSS Replacement

We offer a T & M budget price of \$4,168.85 for the following electrical work at the above referenced location. Our price includes:

- 1 – Replace existing GE TPHE2774OME TVSS in MDP-B

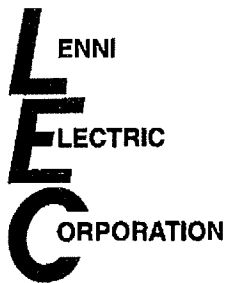
Materials	\$3,339.00
15%	\$500.85
Labor mechanic 4 hrs. @ \$75.50	\$307.00
Service Truck	<u>\$27.00</u>
	\$4,168.85

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



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 ASSOCIATES INC.
CONSULTING ENGINEERS

April 10, 2015

Rick Smith, Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

Re: Proposal for Professional Services
Township Wastewater Capacity Needs Evaluation Update

Dear Mr. Smith:

Pennoni Associates Inc. is pleased to submit the following proposal to update the East Goshen Township Wastewater Capacity Needs Evaluation.

BACKGROUND

Pennoni evaluated and projected the potential maximum future wastewater flows throughout East Goshen Township in the attached "Township Wastewater Capacity Needs Evaluation" letter, dated February 9, 2007. The maximum Township-wide future public wastewater flow was projected to be 1.736 MGD. This evaluation was the basis for the recent expansion of the Ridley Creek Sewage Treatment Plant (RCSTP), several constructed pump station and gravity sewer diversions, and the planned Reservoir Road Pump Station diversion.

This evaluation is over eight years old, and actual flows, existing connections, and projected connections vary from that which was predicted in 2007. There is also interest from adjacent municipalities to connect new development(s) and an existing development with failing on-lot systems to East Goshen's sewer system. The Needs Evaluation needs to be revisited and updated to determine East Goshen's current wastewater needs as well as the feasibility of additional connections from other municipalities.

SCOPE OF WORK

Pennoni will update the Needs Evaluation based on existing flows, currently committed and approved flows, and potential flows from within the Township. Potential flows will be focused on large undeveloped tracts but may also include existing developments with problematic on-lot systems. The total future projected flow in the Township will be compared to the capacity of the RCSTP and the allowable capacity of the intermunicipal agreement with West Goshen Township to determine available capacity for connections from other municipalities. We will prepare a letter report to summarize the analysis in a similar format to the attached 2007 letter.

SCHEDULE

We anticipate the evaluation can be completed within 30 days of Notice to Proceed.

FEE

Our estimated fee, to be billed on a time and material basis, is \$2,050.00. Work will be completed on an hourly basis, billed at the Authority's approved rates for Pennoni for the year in which work is performed.

Extraordinary expenses, authorized in advance and identifiable to the specific project will be billed in addition to the above stated fees. These expenses include, but are not limited to: application fees, UPS and delivery charges, and the reproduction of plans and specifications by outside services. We do not bill for such items as relatively small amounts of in-house printing, mailing expenses, reasonable telephone calls, and travel expenses.

BILLING AND PAYMENT

Fees will be billed monthly, based on actual services completed. Payment is due upon receipt of invoice. Billing and Payment shall be in accordance with Item three (3) of the below-referenced General Terms and Conditions.

The client acknowledges that the method of Billing and Payment has been discussed in detail; that the terms agreed upon can only be changed by a written addendum agreed to by both parties; and work may be stopped until payment is made in accordance with the agreement.

TERMS AND CONDITIONS

General

Pennoni Associates Inc. General Terms and Conditions (Form No. LE01, Rev. 09/2002) are considered as part of this proposal.

We appreciate this opportunity to submit our proposal. Should you have any questions or need additional information, please do not hesitate to call. Please sign and return one (1) copy of this proposal as our Notice to Proceed.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, P.E.
Authority Engineer

ACCEPTED BY: _____

(Print Name and Title)

DATE: _____