

EAST GOSHEN MUNICIPAL AUTHORITY

May 13, 2013

Monday 7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE
 - a. Ask if anyone will be taping the meeting?
2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS
3. APPROVAL OF MINUTES
 - a. April 8, 2013
4. APPROVAL OF INVOICES

a. Pennoni #546001	\$ 1,126.50
b. Pennoni #546002	\$ 127.75
c. Pennoni #546003	\$ 47.50
d. Pennoni #546004	\$ 472.50
e. Pennoni #546005	\$ 2,387.75
f. Pennoni #546006	\$ 5,355.00
g. Pennoni #546007	\$ 976.50
h. Pennoni #546008	\$ 7,040.25
i. Reserve at Spring Meadows HOA	\$ 1,455.00
j. Gawthrop Greenwood #108506	\$ 3,364.00
k. Plymar Invoice – MaryDell Deversion	\$ 79,704.00
5. LIAISON REPORTS
6. FINANCIAL REPORTS
 - a. April 2013 Report
7. OLD BUSINESS
 - a.
8. GOALS
 - a. April Goals
9. NEW BUSINESS
 - a. Contract Change Order – Hershey Mill Pump Station Diversion – Delaware Valley Utility Contractors
 - b. Approval recommendation from Earthcore Services
 - c. Marydell construction phase budget
10. CAPACITY REQUESTS
 - a.

11. 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 for April 2013
12. ANY OTHER MATTER
13. CORRESPONDENCE AND REPORTS OF INTEREST
14. PUBLIC COMMENT
15. ADJOURNMENT

Reminder — NEWSLETTER ARTICLE SUBMISSION DUE DATES:

Article Due Date

Website Posting Date

draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
April 8, 2013

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, April 8, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Jack Yahraes, Dana Pizarro, Ed McAssey and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Mark Miller (Director of Public Works), Bob Adams, (Solicitor), Dan Barbato (Pennoni), Scott Towler (BFES), and Walter Wujcik (Conservancy Board).

COMMON ACRONYMS:

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

Call to Order & Pledge of Allegiance

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

New Business

Allison Zaro, attorney and representative for Pulte Homes, reported that a check and the easement agreement for the Pulte development at Applebrook were provided. Rick verified that he received the check for the cash escrow and the agreement. Jack moved that the Authority authorize the execution of the easement agreement and the security agreement for the sewer lines in the Pulte Development at Applebrook. Kevin seconded the motion. The motion passed unanimously.

Chairman's Report

Ed reported that he attended the West Goshen Authority meeting last week. Things are a little more positive. West Goshen, EPA and Justice Department are talking. Rick spoke with Dr. White who verified that they did meet with the DEP and agreed to .8. They have 5 years to reach this and there will be new testing of the creek.

Approval of Minutes

The Chairman noted that the minutes of the March 11, 2013 meeting were approved as corrected.

Approval of Invoices

1. Jack moved to approve payment of 7 Pennoni invoices:

#540995	\$2,026.50
#540996	\$ 535.25

#540997	\$ 497.50
#540998	\$ 752.00
#540999	\$4,995.75
#541000	\$2,580.50
#541001	\$6,327.75

Dana seconded the motion. The motion passed unanimously.

2. Dana moved to approve payment of the Gawthrop, Greenwood invoice #107114 for \$1,661.12. Jack seconded the motion. The motion passed unanimously.

3. Kevin moved to approve payment of the Big Fish Environmental Ser. Invoice #13-040130-2 for \$11,825. Ed seconded the motion. The motion passed unanimously.

4. Kevin moved to approve payment of the Lochwood Plant closure labor costs totaling \$1,894.91. Dana seconded the motion. The motion passed unanimously.

5. Dana moved to approve payment of the Plymar Invoice, for the Marydell diversion, in the amount of \$20,700. Kevin seconded the motion. The motion passed unanimously.

Liaison Reports

1. Conservancy Board – Walter reported that the dogwood trees were planted along E. Boot Road last week. The Board is working with Township staff to install rain barrels at the Township building.

Financial Reports

1. Jon Altshul, CFO, provided reports with the following comment: The Municipal Authority recorded \$9,875.27 in expenses and \$4,004.89 in revenues (primarily from tap-in fees at Sorrell Hill) in the month of March, a difference of \$5,870.38. The fund balance is now \$49,363.73. The expenses were due to the quarterly administrative chargeback and further labor and equipment costs incurred for Lockwood Elimination.

Old Business

1. Amend 2013 budget – Per Rick's recommendation, Dana moved to amend the 2013 Municipal Authority Budget as follows:

	2013 Adopted	Change	2013 Revised
Transfer from Sewer Cap Reserve	\$556,769	+\$230,000	\$786,769
Marydell Pump Station - Engineer	\$25,000	+\$6,000	\$31,000
Marydell Pump Station - Construction	\$170,000	+\$80,000	\$250,000
Hershey Mill Pump Station - Engineer	\$25,000	+\$10,000	\$35,000
Hershey Mill Pump Station - Construction	\$46,000	+\$134,000	\$180,000

Jack seconded the motion. The motion passed unanimously.

2. Comprehensive Plan Goals – The members of the Authority reviewed the goals report that Rick prepared (see attached). Rick explained that the Authority has 3 goals - Marydell, Hershey's Mill and the Reserve. The *italics* indicate the status of the tasks. Jack moved to accept the goals and recommendations in Rick's memo and present it to the Board of Supervisors

1 as the Municipal Authority's 1st Quarter Report for 2013. Dana seconded the motion. The
2 motion passed unanimously.

3 4 **Goals**

- 5 1. Rick announced that in Jan, Feb and March 2013 they met the permit at Ridley. He thanked
- 6 Scott Towler and Mark Miller for their work.
- 7 2. June Newsletter article will be provided by Kevin.
- 8 3. June West Goshen meeting – Jack will attend.

9 10 **Capacity Requests**

11 None

12 13 **Sewer Reports**

- 14 1. **Mark Miller, Director of Public Works**, provided the following report for March:
15 Meters – The meters were calibrated on April 8, 2013. Minor adjustments were made to
16 Wilson Dr. The portable flow meters were pulled and will be reinstalled this week. We
17 will be monitoring the sewer flows between Rt. 3 and Paoli Pike.
18 Pump Stations – Were visited on a daily basis.
19 CC Collection: On March 17th we received an alarm at the Hershey Mill Pump Station
20 for a pump failure. While I was en route, I received a high level alarm. We found that all
21 of the pumps had tripped as well as the VFD's. We reset the breakers to get the pumps to
22 run. It turns out that the block heater on the generator shorted out which tripped the
23 circuit breakers.
24 R.C. Collection: Joann received a call from a resident at 202 Applebrook Drive who
25 reported sewage coming thru his basement toilet. We arrived at 202 Applebrook Dr and
26 started to pull manholes. We found manholes plugged with grease. As we worked to
27 clear the clog, we found that two drop manholes were completely clogged and had to use
28 shovels and pry bars to release the grease. The crew was able to get the line opened to
29 alleviate the backup. I explained to the homeowner that the lines were not part of the
30 Township System. I contacted the management company to advise them that they had a
31 serious problem that needed immediate attention. We checked the other manholes to
32 make sure they were clear before we left and we also worked our way back to the
33 clubhouse where we found the main line with a 75% blockage. Applebrook called Pipe
34 Data View in to clear their lines. The management company is having all the lines
35 cleared.
36 R.C. Plant: Nothing to report at this time.
37 Alarms: We received a total of 17 alarms
38 PA One Calls: We received 47 PA One calls for the month of March.
39
40 2. **Pennoni**: Dan Barbato provided the following engineer's report:
41 Invoices: Invoices with summaries are provided under separate cover.
42 Ridley Creek Sewage Treatment Plant (RCSTP) – Pennoni continues to coordinate with
43 the Plant Operator and will provide operations assistance as needed. No issues were
44 brought to our attention in March.

1 Marydell PS Elimination – We coordinated with Ply-Mar to have their insurance
2 coverage revised to comply with contract requirements, and an acceptable insurance
3 certificate was provided. We also reviewed additional shop drawing submissions.
4 Notice to Proceed with Construction was issued effective March 18. The contract
5 completion date is July 15.
6 Ply-Mar began construction on March 26. Ply-Mar originally estimated 6-8 weeks to
7 complete the project. We have performed construction field observation and office
8 support during the construction including but not limited to field meetings and
9 coordination with PECO to brace utility poles, coordination with Sunoco for required soft
10 dig test pits of gas mains in Boot Road, observation of Paoli Pike jack and boring, and
11 resolution of Paoli Pike jack and boring casing misalignment.
12 We reviewed the contractor's first payment request and forwarded our recommendation
13 to the township.
14 Hershey's Mill PS Diversion: We issued Notice to Proceed with Construction effective
15 April 1, 2013. The contract completion date is July 29, 2013. The contractor, Delaware
16 Valley Utility Contractors, proposes to begin work on May 6. They estimate
17 approximately one month to complete the project. A pre-construction meeting is
18 tentatively scheduled for April 16 or 17.
19 We are also in the process of reviewing partial shop drawings from the contractor.
20 Reserve PS Elimination – We completed the Bid Plans and near-final specifications. The
21 plans and specifications were submitted to the Reserve at Spring Meadows HOA per their
22 request. The project will be put out to bid after the Reserve at Spring Meadows HOA has
23 granted the easement and rock borings are performed.
24 Chapter 94 Annual Reports – We prepared and submitted the reports for the Ridley
25 Creek, West Goshen and Westtown Service Areas to DEP. We also prepared and
26 submitted a letter to DEP stating that the Lockwood Chase STP was decommissioned in
27 2012 and that a Chapter 94 Report for that Plant is therefore not necessary.
28 Semi-Annual I/I Report – We analyzed permanent and portable (temporary) meter data
29 from the preceding six months, and we met with Township staff to review the metering
30 and discuss locations for metering and investigations over the next six months. We
31 prepared the semi-annual report and submitted it to the Township.
32 Applebrook Sewer Easements – We reviewed the easement plan and legal description
33 and we provided minor comments to the Township.
34

- 35 3. **Big Fish Environmental Services, Inc.**, Scott Towler presented a report for March
36 2013. The following is a summary:

37 Treatment Process Operation

38 During February, there were no exceedances of the final effluent discharge limitations for
39 outfall 001. There was no discharge from outfall 002. The monthly average total
40 phosphorus concentration was 0.20 mg/L as compared to the discharge limitation of 0.5
41 mg/L. During the month, the final effluent total phosphorus concentration discharged
42 ranged from <0.14 mg/L to .026 mg/L.

43 Sequencing Batch Reactors (SBRs) number 1, 3, and 4 were in service during the month
44 of March. Process monitoring of each SBR included, ammonia as N, nitrite as N, nitrate
45 as N, COD, SSV, MLSS and total phosphorus. Microscopic examinations and
46 physical observation of the SBR MLSS and foam color is ongoing. Foam concentrations

1 increased in concentration of surface area coverage during the month. The foam remains
2 as light brown in color and averages 3 to 4 inches in depth. The F:M ratios for SBR 3
3 and 4 decreased slightly. Increased sludge wasting rates were gradually implemented
4 during the last week of the month and will continue during April to increase the F:M ratio
5 and lower the MLSS.

6 Daily monitoring of the influent and final effluent 24-hour composites samples for total
7 phosphorus is ongoing. Daily analysis of the final effluent flow equalization grab sample
8 is total phosphorus is ongoing.

9 Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal
10 continued. The volume of aluminum sulfate solution to the SBRs was largely consistent
11 through March.

12 SBR No 2 remains out of service. Transfer of the remaining mixed liquor will be
13 implemented during the month of April to drain the tank. The facility is anticipated to
14 achieve compliance with the permitted effluent limitations.

15 Process Monitoring On-Line Instrumentation – The ChemScan phosphate analyzer
16 remains on line. Comparison testing for reactive (ortho) and total phosphorus is ongoing.
17 On site comparison, monitoring is measuring a significant difference among the analyzer
18 data as compared to the onsite laboratory data. Dave Kershner was contacted to confirm
19 calibration of the analyzer and adjust if needed. Suspended solids within the post final
20 effluent feed to the flow floc tank and filters may be fouling the analyzer.

21 Solids Dewatering and Disposal – During the month, the centrifuge dewatering system
22 was placed in service. Sludge wasting to the sludge holding tanks and decanting of the
23 sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and
24 total solids.

25 Sludge holding tank No.1 was in service. The level at the beginning of the month was
26 12.99 feet and the level at the end of the month was 14.14 feet. The initial total solids
27 concentration was 0.77% and ended the month as 0.81% total solids. A total of 141,225
28 gallons of supernatant was decanted during the month.

29 Sludge holding tank No. 2 was out of service. The level at the beginning of the month
30 was 2.57 feet and the level at the end of the month was 1.60 feet. This sludge tank is
31 planned to be utilized during the month of April to drain SBR 2 and assist to handle the
32 increase sludge wasting rates.

33 Significant Storm Events – During March there were no significant precipitation events
34 contributing to excessive influent wastewater flows to the treatment facility.

35 36 Minor Repairs and Preventative Maintenance:

- 37 • ACS was contacted to schedule repair of the influent flow chart recorder.
- 38 • ACS installed flow meter signal cable connecting the new influent “field” flow meter
39 to the influent sampler located at the doghouse manhole. The influent sample collection
40 is a flow-proportioned sample.
- 41 • Jeff Bush from Worth & Company was contacted to replace the failed analog hour
42 meters (previous warranty issue left unresolved by Worth & Co.).
- 43 • The spider gear for the centrifuge polymer feed system failed. The gear from the disc
44 filter polymer feed system was used to return the centrifuge to service. Replacement
45 parts will be ordered.

- The rear bearing of the centrifuge continues to be closely monitored as the temperature has been observed to increase to 180°F. A temperature of 212°F activates a high temperature alarm and results in the machine failure.
- Disc Filter Number 2 cloth media was cleaned. There have been no high vacuum alarms observed since completing the cleaning procedure.
- The Township coordinated with Aqua Wastewater Management to remove grit from the influent flow channel.

Any Other Matter

None

Correspondence

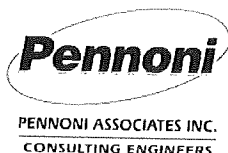
None

Adjournment

There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:15 pm.

Respectfully submitted,

Ruth Kiefer
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 # : 546001
Invoice Date : 05/09/2013
Project : EGMA1107
Project Name : HersheyMill & Reserve PS Div Des
Per

For Services Rendered through: 4/14/2013

Reserve PS Diversion - Updated bid plans and specifications per new PA One Call PECO electric plans and to include specifics for detention basin embankment restoration; assembled and submitted bid plans and specifications to Reserve HOA for review.

Hershey's Mill PS Diversion - Prepared and issued letters notifying unsuccessful bidders of project award.

Phase : 1 -- Design

Total Phase : 1 -- Design

Labor : 1,126.50
Expense : 0.00
Phase Total : 1,126.50

Amount Due This Invoice

\$1,126.50

Fee : 69,200.00
Prior Billings : 63,607.25
Current Billings : 1,126.50
Total Billings : 64,733.75

Phase : 1 -- Design

Labor Class	Hours/ Units	Rate	Amount
Project Engineer	3.50	95.00	332.50
Staff Engineer	6.50	85.00	552.50
Graduate Engineer	1.75	73.00	127.75
Engineering Technician 1	1.75	65.00	113.75
Labor Total:	13.50		1,126.50

Total Phase : 1 -- Design

Labor : \$1,126.50
Expense : \$0.00

Total Project : EGMA1107 -- HersheyMill & Reserve PS Div Des Per

Labor : \$1,126.50
Expense : \$0.00

OK RS 5-10

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

East Goshen Municipal Authority
EGMA1107 Invoice Summary
Invoice Date 05/09/2013

Project : Hershey Mill & Reserve PS Diverse Design & Permitting
Pennoni Job No. : EGMA1107
Invoice No. : ~~54~~6001
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 60,200.00 Date : 7/7/2012
Changes : \$ 9,000.00 Date :
Contract Amount : \$ 69,200.00
Previously Invoiced : \$ 63,607.25
Current Invoice : \$ 1,126.50
Invoiced to Date (\$) : \$ 64,733.75
Invoiced to Date (%) : 94%
Remaining Budget (\$) : \$ 4,466.25
Remaining Budget (%) : 6%

Budget by Phase :
Phase No. 01
Phase Name : Hershey Mill &
Reserve PS
Phase Budget : \$ 69,200.00
Previousy Invoiced : \$ 63,607.25
Current Invoice : \$ 1,126.50
Invoiced to Date (\$) : \$ 64,733.75
Invoiced to Date (%) : 94%
Remaining Budget (\$) : \$ 4,466.25
Remaining Budget (%) : 6%

Comments : Reserve PS Diversion - Updated bid plans and specifications per new PA One Call PECO electric plans and to include specifics for detention basin embankment restoration; assembled and submitted bid plans and specifications to Reserve HOA for review. Hershey's Mill PS Diversion - Prepared and issued letters notifying unsuccessful bidders of project award.

PennoniPENNONI ASSOCIATES INC.
CONSULTING ENGINEERS**INVOICE**Newark, DE
302-655-4451 Fax: 302-654-2895Remit Payment To:
Pennoni Associates Inc.
P.O. Box 827328
Philadelphia, PA 19182-7328East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6199
Attention: Louis F. Smith, Twp Mgr.Invoice # : 546002
Invoice Date : 05/09/2013
Project : EGMA1109
Project Name : Marydell Pump Station Diversion

For Services Rendered through: 4/14/2013

Prepared and issued letters notifying unsuccessful bidders of project award.**Phase : 4 -- PennDOT Highway Occupancy Permits****Total Phase : 4 -- PennDOT Highway Occupancy Permits**

Labor :	127.75
Expense :	0.00
Phase Total :	127.75

Amount Due This Invoice

\$127.75

Fee :	36,100.00
Prior Billings :	34,212.00
Current Billings :	127.75
Total Billings :	34,339.75

Phase : 4 -- PennDOT Highway Occupancy Permits**Labor**

<u>Class</u>	<u>Hours/ Units</u>	<u>Rate</u>	<u>Amount</u>
Graduate Engineer	1.75	73.00	127.75
Labor Total:	1.75		127.75

Total Phase : 4 -- PennDOT Highway Occupancy Permits

Labor :	\$127.75
Expense :	\$0.00

Total Project : EGMA1109 -- Marydell Pump Station Diversion

Labor :	\$127.75
Expense :	\$0.00

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RS

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

East Goshen Municipal Authority
EGMA1109 Invoice Summary
Invoice Date 05/09/2013

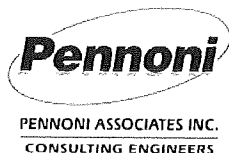
Project : Marydell Pump Station Diversion
Pennoni Job No. : EGMA1109
Invoice No. : 546002
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 45,100.00 **Date :** 2/22/2012
Changes : \$ - **Date :**
Contract Amount : \$ 36,100.00
Previously Invoiced : \$ 34,212.00
Current Invoice : \$ 127.75
Invoiced to Date (\$) : \$ 34,339.75
Invoiced to Date (%) : 95%
Remaining Budget (\$) : \$ 1,760.25
Remaining Budget (%) : 5%

Budget by Phase :

Phase No. 01
Marydell Pump
Phase Name : Station

Phase Budget : \$ 36,100.00
Previously Invoiced : \$ 34,212.00
Current Invoice : \$ 127.75
Invoiced to Date (\$) : \$ 34,339.75
Invoiced to Date (%) : 95%
Remaining Budget (\$) : \$ 1,760.25
Remaining Budget (%) : 5%

Comments : Prepared and issued letters notifying unsuccessful bidders of project award.



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 # : 546003
Invoice Date : 05/09/2013
Project : EGMA1206
Project Name : Hershey Mill PS Muffin Monster
Desi

For Services Rendered through: 4/14/2013

Provide M. Miller with requested information on hydraulic power pack enclosure.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	47.50
Expense :	0.00
Phase Total :	47.50

Amount Due This Invoice

\$47.50

Fee :	12,000.00
Prior Billings :	8,531.30
Current Billings :	47.50
Total Billings :	8,578.80

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Project Engineer	0.50	95.00	47.50
Labor Total:	0.50		47.50

Total Phase : **** -- Professional Services

Labor :	\$47.50
Expense :	\$0.00

Total Project : EGMA1206 -- Hershey Mill PS Muffin Monster Desi

Labor :	\$47.50
Expense :	\$0.00

OK RS
5-10

East Goshen Municipal Authority
EGMA1206 Invoice Summary
Invoice Date 05/09/2013

Project : Hershey Mill PS Muffin Monster Desi
Pennoni Job No. : EGMA1206
Invoice No. : 546003
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 12,000.00 **Date :** 2/22/2012
Changes : \$ - **Date :**
Contract Amount : \$ 12,000.00
Previously Invoiced : \$ 8,531.30
Current Invoice : \$ 47.50
Invoiced to Date (\$) : \$ 8,578.80
Invoiced to Date (%) : 71%
Remaining Budget (\$) : \$ 3,421.20
Remaining Budget (%) : 29%

Budget by Phase :
Phase No. 01
Hershey Mill PS
Phase Name : Muffin Monster

Phase Budget : \$ 12,000.00
Previousy Invoiced ; \$ 8,531.30
Current Invoice : \$ 47.50
Invoiced to Date (\$) : \$ 8,578.80
Invoiced to Date (%) : 71%
Remaining Budget (\$) : \$ 3,421.20
Remaining Budget (%) : 29%

Comments : Provide M. Miller with requested information on hydraulic power pack enclosure.



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 # : 546004
Invoice Date : 05/09/2013
Project : EGMA1301
Project Name : 2013 General Services

For Services Rendered through: 4/14/2013

Engineer's report and attendance at April MA meeting. Reviewed Applebrook sewer easement plan and legal description and provided comments to the Township and Developer.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	472.50
Expense :	0.00
Phase Total :	472.50

Amount Due This Invoice

\$472.50

Fee :	10,000.00
Prior Billings :	1,856.25
Current Billings :	472.50
Total Billings :	2,328.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	3.00	110.00	330.00
Project Engineer	1.50	95.00	142.50
Labor Total:	4.50		472.50

Total Phase : **** -- Professional Services

Labor :	\$472.50
Expense :	\$0.00

Total Project : EGMA1301 -- 2013 General Services

Labor :	\$472.50
Expense :	\$0.00

OK RS
5-10

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

East Goshen Municipal Authority
EGMA1301 Invoice Summary
Invoice Date 05/09/2013

Project : 2013 General Services
Pennoni Job No. : EGMA1301
Invoice No. : 546004
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 10,000.00 Date : 1/9/2013
Changes : \$ - Date :
Contract Amount : \$ 10,000.00
Previously Invoiced : \$ 1,856.25
Current Invoice : \$ 472.50
Invoiced to Date (\$) : \$ 2,328.75
Invoiced to Date (%) : 23%
Remaining Budget (\$) : \$ 7,671.25
Remaining Budget (%) : 77%

Budget by Phase :

Phase No. *****
2013 General
Phase Name : Services
Phase Budget : \$ 10,000.00
Previously Invoiced : \$ 1,856.25
Current Invoice : \$ 472.50
Invoiced to Date (\$) : \$ 2,328.75
Invoiced to Date (%) : 23%
Remaining Budget (\$) : \$ 7,671.25
Remaining Budget (%) : 77%

Comments : Engineer's report and attendance at April MA meeting. Review Applebrook sewer easement plan and legal description and provided comments to the Township and Developer.



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 # : 546005
Invoice Date : 05/09/2013
Project : EGMA1302
Project Name : 2013 Semi-Annual I&I Reports

For Services Rendered through: 4/14/2013

Analyzed portable meter data; met with Township to present findings and strategize new metering locations; prepared, finalized, and issued March 2013 Semi-Annual I/I Report #09.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	2,387.75
Expense :	0.00
Phase Total :	2,387.75

Amount Due This Invoice

\$2,387.75

Fee :	10,000.00
Prior Billings :	3,246.00
Current Billings :	2,387.75
Total Billings :	5,633.75

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Project Engineer	6.50	95.00	617.50
Graduate Engineer	24.25	73.00	1,770.25
Labor Total:	30.75		2,387.75

Total Phase : **** -- Professional Services

Labor :	\$2,387.75
Expense :	\$0.00

Total Project : EGMA1302 -- 2013 Semi-Annual I&I Reports

Labor :	\$2,387.75
Expense :	\$0.00

ok R S
5-10

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

East Goshen Municipal Authority
EGMA1302 Invoice Summary
Invoice Date 05/09/2013

Project : 2013 Semi-Annual I&I Reports
Pennoni Job No. : EGMA1302
Invoice No. : 546005
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 10,000.00 **Date :** 1/16/2013
Changes : \$ - **Date :**
Contract Amount : \$ 10,000.00
Previously Invoiced : \$ 3,246.00
Current Invoice : \$ 2,387.75
Invoiced to Date (\$) : \$ 5,633.75
Invoiced to Date (%) : 56%
Remaining Budget (\$) : \$ 4,366.25
Remaining Budget (%) : 44%

Budget by Phase :

Phase No. *****
Phase Name : 2013 Semi-Annual I&I
Phase Budget : \$ 10,000.00
Previously Invoiced : \$ 3,246.00
Current Invoice : \$ 2,387.75
Invoiced to Date (\$) : \$ 5,633.75
Invoiced to Date (%) : 56%
Remaining Budget (\$) : \$ 4,366.25
Remaining Budget (%) : 44%

Comments : Analyzed portable meter data; met with Township to present findings and strategize new metering locations; prepared, finalized, and issued March 2013 Semi-Annual I/I Report #09.



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 # : 546006
Invoice Date : 05/09/2013
Project : EGMA1303
Project Name : 2012 Chapter 94 Report

For Services Rendered through: 4/14/2013

Completed and submitted Chapter 94 Reports to PADEP for Ridley Creek STP, West Goshen (Chester Creek) Service Area, and Westtown Service Area. Prepared and submitted letter notification to PADEP of Lockwood Chase STP decommissioning in lieu of full Chapter 94 Report.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	5,355.00
Expense :	0.00
Phase Total :	5,355.00

Amount Due This Invoice

\$5,355.00

Fee :	14,000.00
Prior Billings :	7,492.50
Current Billings :	5,355.00
Total Billings :	12,847.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	22.75	95.00	2,161.25
Graduate Engineer	43.75	73.00	3,193.75
Labor Total:	66.50		5,355.00

Total Phase : **** -- Professional Services

Labor :	\$5,355.00
Expense :	\$0.00

Total Project : EGMA1303 -- 2012 Chapter 94 Report

Labor :	\$5,355.00
Expense :	\$0.00

OK RS
5/10

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

East Goshen Municipal Authority
EGMA1303 Invoice Summary
Invoice Date 05/09/2013

Project : 2012 Chapter 94 Report
Pennoni Job No. : EGMA1303
Invoice No. : 546006
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 14,000.00 Date : 1/16/2013
Changes : \$ - Date :
Contract Amount : \$ 14,000.00
Previously Invoiced : \$ 7,492.50
Current Invoice : \$ 5,355.00
Invoiced to Date (\$) : \$ 12,847.50
Invoiced to Date (%) : 92%
Remaining Budget (\$) : \$ 1,152.50
Remaining Budget (%) : 8%

Budget by Phase :

Phase No. *****
2012 Chapter
Phase Name : 94 Report
Phase Budget : \$ 14,000.00
Previousy Invoiced : \$ 7,492.50
Current Invoice : \$ 5,355.00
Invoiced to Date (\$) : \$ 12,847.50
Invoiced to Date (%) : 92%
Remaining Budget (\$) : \$ 1,152.50
Remaining Budget (%) : 8%

Comments : Completed and submitted Chapter 94 Reports to PADEP for Ridley Creek STP, West Goshen (Chester Creek) Service Area, and Westtown Service Area. Prepared and submitted letter notification to PADEP of Lockwood Chase STP decommissioning in lieu of full Chapter 94 Report.



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 # : 546007
Invoice Date : 05/09/2013
Project : EGMA1304
Project Name : Hershey Mill PS Div Construction
Ph

For Services Rendered through: 4/14/2013

Reviewed partial submission of shop drawings and performed pre-construction coordination including pre-construction meeting, scheduling and review of contractor's tax exempt status request.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	976.50
Expense :	0.00
Phase Total :	976.50

Amount Due This Invoice

\$976.50

Fee :	20,000.00
Prior Billings :	2,580.50
Current Billings :	976.50
Total Billings :	3,557.00

Phase : **** -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Project Engineer	1.25	95.00	118.75
Graduate Engineer	11.75	73.00	857.75
Labor Total:	13.00		976.50

Total Phase : **** -- Professional Services

Labor :	\$976.50
Expense :	\$0.00

Total Project : EGMA1304 -- Hershey Mill PS Div Construction Ph

Labor :	\$976.50
Expense :	\$0.00

OLC RS
5/10

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

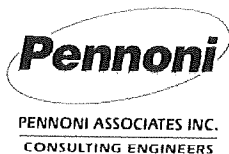
East Goshen Municipal Authority
EGMA1304 Invoice Summary
Invoice Date 05/09/2013

Project : Hershey Mill PS Div Construction Ph
Pennoni Job No. : EGMA1304
Invoice No. : 546007
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 20,000.00 **Date :** 1/16/2013
Changes : \$ - **Date :**
Contract Amount : \$ 20,000.00
Previously Invoiced : \$ 2,580.50
Current Invoice : \$ 976.50
Invoiced to Date (\$) : \$ 3,557.00
Invoiced to Date (%) : 18%
Remaining Budget (\$) : \$ 16,443.00
Remaining Budget (%) : 82%

Budget by Phase :

Phase No. *****
Hershey Mill PS
Phase Name : Div
Phase Budget : \$ 20,000.00
Previousy Invoiced : \$ 2,580.50
Current Invoice : \$ 976.50
Invoiced to Date (\$) : \$ 3,557.00
Invoiced to Date (%) : 18%
Remaining Budget (\$) : \$ 16,443.00
Remaining Budget (%) : 82%

Comments : Reviewed partial submission of shop drawings and performed pre-construction coordination including pre-construction meeting scheduling and review of contractor's tax exempt status request.



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 # : 546008
Invoice Date : 05/09/2013
Project : EGMA1305
Project Name : Marydell PS Diversion Construction

For Services Rendered through: 4/14/2013

Performed pre-construction coordination including shop drawing reviews and scheduling; set up and attended multiple site meetings with PECO and contractor about utility pole bracing; performed on-site daily construction observation; provided office support during construction in including assistance with resolution of Paoli Pike jack & bore problem and misalignment and increasing depth of sewer along Paoli Pike to provide vertical flexibility on Boot Road jack & bore; and reviewed Payment Application #1.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 7,040.25
Expense : 0.00
Phase Total : 7,040.25

Amount Due This Invoice

\$7,040.25

Fee : 20,000.00
Prior Billings : 6,327.75
Current Billings : 7,040.25
Total Billings : 13,368.00

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Project Engineer	17.50	95.00	1,662.50
Technical Specialist	70.00	75.00	5,250.00
Graduate Engineer	1.75	73.00	127.75
Labor Total:	89.25		7,040.25

Total Phase : **** -- Professional Services

Labor : \$7,040.25
Expense : \$0.00

Total Project : EGMA1305 -- Marydell PS Diversion Construction

Labor : \$7,040.25
Expense : \$0.00

OK RS
5/10

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

East Goshen Municipal Authority
EGMA1305 Invoice Summary
Invoice Date 05/09/2013

Project : Marydell PS Diversion Construction
Pennoni Job No. : EGMA1305
Invoice No. : 546008
Invoice Period : 3/18/2013 to 4/14/2013
Initial Authorization : \$ 20,000.00 Date : 1/16/2013
Changes : \$ - Date :
Contract Amount : \$ 20,000.00
Previously Invoiced : \$ 6,327.75
Current Invoice : \$ 7,040.25
Invoiced to Date (\$) : \$ 13,368.00
Invoiced to Date (%) : 67%
Remaining Budget (\$) : \$ 6,632.00
Remaining Budget (%) : 33%

Budget by Phase :

Phase No. *****
Marydell PS
Phase Name : Diversion
Phase Budget : \$ 20,000.00
Previousy Invoiced : \$ 6,327.75
Current Invoice : \$ 7,040.25
Invoiced to Date (\$) : \$ 13,368.00
Invoiced to Date (%) : 67%
Remaining Budget (\$) : \$ 6,632.00
Remaining Budget (%) : 33%

Comments : Performed pre-construction coordination including shop drawing review and scheduling; set up and attended multiple site meetings with PECO and contractor about utility pole bracing; performed on-site daily construction observation; provided office support during construction in including assistance with resolution of Paoli Pike jack & bore problem and misalignment and increasing depth of sewer along Paoli Pike to provide vertical flexibility on Boot Road jack & bore; and reviewed Payment Application #1.

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

Voice (610) 692-7171

Fax (610) 425-8950

E-mail rsmith@eastgoshen.org

Date: May 9, 2013

To: Municipal Authority

From: Rick Smith, Township Manager

Re: Invoices and Right of Way Agreement

Reserve at Spring Meadows Homeowners Association
34 Ruth Circle, Malvern PA 19355

\$1,455 for sewer right of way

Also need to authorize Chairman to execute the right-of-way agreement.

Prepared by/Return to:

Robert F. Adams, Esquire
P. O. Box 562
West Chester, PA 19381-0562

UPI # 53-2-20.39

RIGHT-OF-WAY AGREEMENT

THIS AGREEMENT, made this 9th day of May, 2013,
between **EAST GOSHEN MUNICIPAL AUTHORITY** ("Authority"), a body corporate and
politic organized and existing under and by virtue of the laws of the Commonwealth of
Pennsylvania, in East Goshen Township, Chester County, Pennsylvania, and **RESERVE AT
SPRING MEADOWS COMMUNITY ASSOCIATION** ("Owner"), also of East Goshen
Township, Chester County, Pennsylvania,

WITNESSETH:

WHEREAS, the Owner owns a tract of land situate in East Goshen Township ("Township"),
Chester County, Pennsylvania, located on the east side of Sherman Drive, recorded in Book
7088, page 1967, in the office of the Recorder of Deeds of Chester County, Pennsylvania; and

WHEREAS, the Authority is now constructing modifications to the sewer system for the
Township, as part of the project to eliminate the pump station at the Reserve at Spring Meadows,
to serve certain areas of the Township for which the Authority must obtain a certain right-of-way
and easement upon, over and under the aforesaid tract of land of the Owner.

NOW, THEREFORE, in consideration of the mutual covenants hereinafter contained, and in
consideration of the payment to the Owner of the sum of One Dollar (\$1.00) and other good and
valuable consideration, receipt of which is hereby acknowledged by the Owner, the Authority
and the Owner, each intending to be legally bound hereby, do hereby agree as follows:

1. **DEFINITIONS:** The term "sewer lines" when used in this instrument shall refer to a
sanitary sewer pipe, conduit, manhole, drain, marker, service connection and other
appurtenances to be constructed by the Authority, meeting the specifications of the
consulting engineers of the Authority, as approved by the Authority for use in the
aforesaid sewer system within the sanitary sewer easement on Owner's property, as
shown on the plan of "Proposed Easement for Proposed Sanitary Sewer Main" (Sketch
No. 0020.39) prepared by Pennoni Associates, Inc., marked Exhibit "A," attached hereto
and made a part hereof.

2. GRANT TO AUTHORITY: The Owner hereby gives and grants to the Authority the free and uninterrupted right, liberty and privilege:

- A. To install, construct, reconstruct, replace, remove, enlarge, inspect, operate, repair, make connections with and maintain perpetually such sewer lines, their accessories and appurtenances, as the Authority may from time to time require, consisting of underground pipes, conduits, manholes, drains, markers, mains, service connections and other appurtenances upon, over and under a strip of land 20.00 feet wide, more or less, across the aforesaid tract of land belonging to Owner as shown on Exhibit "A," and as more particularly described by metes and bounds on Exhibit "B," together with a temporary construction easement, as shown on Exhibit "A," during the period of construction.
- B. To carry away and dispose of sewage through said sewer lines, regardless of the source of such sewage.

TO HAVE AND TO HOLD the same perpetually to the Authority and its successors or assigns, together with the right and privilege at any and all times to enter the said premises, or any part thereof, provided that the Authority gives to the Owner reasonable advance notification of the nature of any intended work on the premises and the expected duration of such work, for the purpose of installing, constructing, reconstructing, replacing, removing, enlarging, inspecting, operating, repairing, maintaining, and/or making connections with the sewer lines or other appropriate means of access to the sewer lines; all upon the condition that the Authority will at all times during the construction, reconstruction, replacement, removal, repair or maintenance of the sewer lines cause every reasonable means to be used to protect from injury or damage all property, including lawns, trees, shrubbery, fences, buildings, walls, roads, water courses, natural features, or any existing improvement thereto, and will at all times after doing any work in connection with the construction, reconstruction, replacement, removal, repair or maintenance of the sewer lines, cause the said premises to be restored to the condition in which the same were found before such work was undertaken, including replacement and/or repair of damaged property, to the extent reasonably possible under the circumstances and consistent with the rights and privileges herein granted.

3. COVENANTS OF THE OWNER:

- A. The Owner does hereby release, remise, quitclaim and discharge the Authority, the Township and their several agents, servants, contractors and employees from any claim or right to damages or other emolument of value for the rights, liberties and privileges given and granted to the Authority under this Indenture.

- B. The Owner does hereby covenant that it is lawfully seized and possessed of a good and marketable title in fee simple to the aforesaid tract of land and that it has a good and lawful right to grant the rights and privileges herein granted to the Authority, and it further covenants that it will execute or procure any additional necessary assurances of the rights and privileges herein granted.
- C. The Owner does hereby expressly consent to any transfer, conveyance, pledge, lease or mortgage by the Authority of the said sewer lines, including, but not limited to, the leasing thereof by the Authority, as lessor, to the Township, as lessee.
- D. The Owner does hereby covenant that no structure or other obstruction shall be erected or permitted on the aforesaid strip of land.
- E. The provisions of this Indenture shall be binding upon and inure to the benefit of the Authority, its successors and assigns, and the Owner, its successors and assigns.

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed on the day and year first above written.

Attest:

EAST GOSHEN MUNICIPAL
AUTHORITY

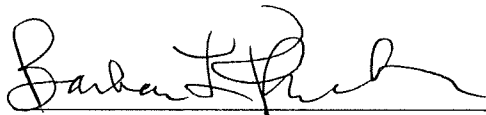
Secretary

By: _____

Chairman

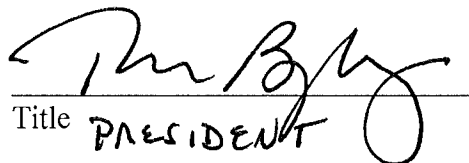
Attest:

RESERVE AT SPRING MEADOWS
COMMUNITY ASSOCIATION



Secretary

By: _____



Title PRESIDENT

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF CHESTER

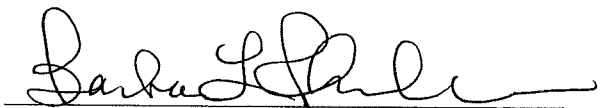
ON THIS, the _____ day of _____, 2013, before me, a notary public in and for said County and Commonwealth, personally appeared _____, who acknowledged himself to be the Chairman of **EAST GOSHEN MUNICIPAL AUTHORITY**, and that he, as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

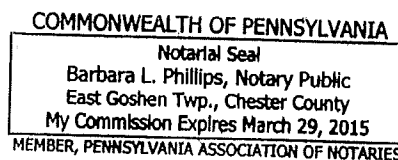
WITNESS my hand and official seal.

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF CHESTER

ON THIS, the 9th day of May, 2013, before me, a notary public, in and for the aforesaid County and Commonwealth, personally appeared Thomas Bayley, who acknowledged himself/herself to be the President of **RESERVE AT SPRING MEADOWS COMMUNITY ASSOCIATION**, and that he/she, as such, being authorized to do so, executed the foregoing instrument for the purposes therein contained.

WITNESS my hand and notarial seal.





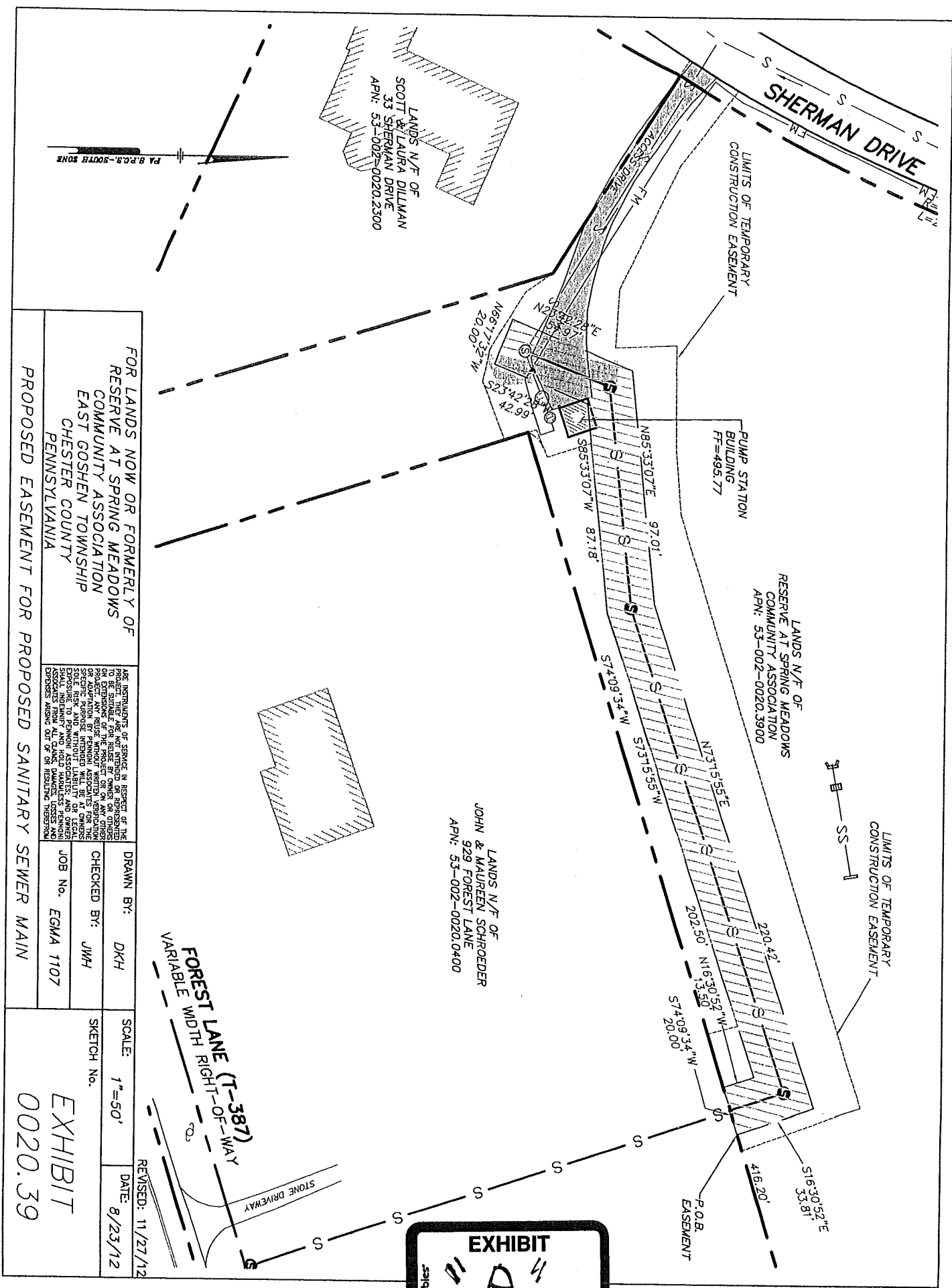


EXHIBIT
"A"

DESCRIPTION OF
PROPOSED EASEMENT FOR
PROPOSED SANITARY SEWER MAIN
(7,253 square feet)

ALL that certain strip of land, situate in East Goshen Township, Chester County, Pennsylvania, being on a portion of land now or formerly of **Reserve at Spring Meadows Community Association**, as shown on the plan titled, "Proposed Easement for Proposed Sanitary Sewer Main," prepared by Pennoni Associates Inc. on Exhibit 0020.39, dated 8/23/12, last revised 11/27/12, and being more particularly bound and described by PENNONI ASSOCIATES INC., as follows, to wit:

BEGINNING for the same at a point on the common line of the lands now or formerly of Reserve at Spring Meadows Community Association and lands now or formerly of John and Maureen Schroeder, said point being the place of beginning, thence continuing;

1. South 74° 09' 34" West, 20.00 feet to a point, thence leaving the line with lands of Schroeder;
2. North 16° 30' 52" West, 13.50 feet to a point in the lands now or formerly of Reserve at Spring Meadows Community Association, thence through the same;
3. South 73° 15' 55" West, 202.50 feet to a point, thence continuing;
4. South 85° 33' 07" West, 87.18 feet to a point, thence continuing;
5. South 23° 42' 28" West, 42.99 feet to a point, thence continuing;
6. North 66° 17' 32" West, 20.00 feet to a point, thence continuing;
7. North 23° 42' 28" East, 54.97 feet to a point, thence continuing;
8. North 85° 33' 07" East, 97.01 feet to a point, thence continuing;
9. North 73° 15' 55" East, 220.42 feet to a point, thence continuing;
10. South 16° 30' 52" East, 33.81 feet to the point and place of beginning and containing within these metes and bounds, 7,253 square feet or 0.167 acres of land, more or less.

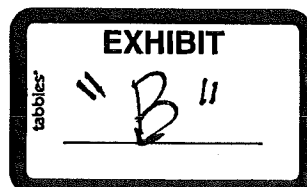
Our project number: EGMA1107

August 23, 2012

Revised: November 27, 2012

DKH/SAS

P:\Projects\EGMA\EGMA1107-HersheyMill Reserve PS Div Des Per\DOCUMENTS\V\Legal Descriptions





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
04/30/2013
Client No: 6604-001M
Invoice No. 108506

General Authority Services

Fees

Hours

04/02/2013 RFA	Review messages from A Zarro and D Barbato regarding review of Pulte dedication plan and funding of escrow.	0.60
04/04/2013 RFA	Review messages from M Ellis and A Zarro regarding description for ROW dedication.	0.40
04/05/2013 RFA	Review final Pulte/Applebrook dedication and security documents.	0.50
04/08/2013 RFA	Review packet for Authority meeting of 4/8/13; attend regular meeting of Authority; review message from M Ellis regarding Pennoni semi-annual sewer system report and scan report.	3.00
04/09/2013 RFA	Review memo from R Smith regarding Pulte agreement.	0.30
04/10/2013 RFA	Letter to R Smith regarding Willow Pond agreement.	0.30
04/11/2013 SAK	Record Right of Way Agreement with the Recorder of Deeds.	0.30
04/24/2013 RFA	Review message from M Ellis regarding sales tax exemption for contractor on Hershey's Mill pump station project; review Title 72, sales and use tax exemptions, regarding Hershey Mill pump station diversion project contractor; Message to M Ellis regarding exemption of tax for pump station contractor.	2.50
04/25/2013 RFA	Telephone conference with M Ellis regarding exemption for Hershey Mill pump station materials; review message from R Smith regarding bid specs provision regarding sales tax; Message	

East Goshen Municipal Authority

Page: 2
04/30/2013
Client No: 6604-001M
Invoice No. 108506

General Authority Services

	Hours	
to same regarding sales tax; review message from M Ellis to pump station project bidder.	1.20	
For Current Services Rendered	9.10	1,784.00

	Recapitulation	Hours	Hourly Rate	Total
<u>Timekeeper</u>				
Robert F. Adams		8.80	\$200.00	\$1,760.00
Stephanie A. Keller		0.30	80.00	24.00

Expenses

Recorder of Deeds - Pulte Agreement	60.00
Total Expenses Thru 04/30/2013	60.00
Previous Balance	\$3,181.12
Total Current Charges	1,844.00

04/12/2013	Cost Advance Payment	-56.00
04/12/2013	Cost Expense Payment	-1.12
04/12/2013	Fee Payment	-1,604.00
	Total Payments	-1,661.12
	Balance Due	<u>\$3,364.00</u>

To ensure proper credit, please write client number on your check when returning payment. Thank You.
A finance charge of 1.25% per month (15% annually) may be charged on balances not paid 60 days after the invoice date.



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
04/30/2013
Client No: 6604M

Previous Balance	Fees	Expenses	Payments	Balance
6604-001 General Authority Services				
3,181.12	1,784.00	60.00	-1,661.12	<u>\$3,364.00</u>

OK RS
5-14

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.

Application and Certificate for Payment

TO OWNER: East Goshen Municipal Authority
PROJECT: Marydel Pump Station Diversion
APPLICATION NO: 2
PERIOD TO: 4/26/13
DISTRIBUTION TO: OWNER ☐ ARCHITECT ☐ CONTRACTOR ☐ FIELD ☐ OTHER ☐
FROM CONTRACTOR: Ply-Mar Construction Co., Inc.
 965 Plymouth Road
 Plymouth Meeting, PA 19462
CONTRACT FOR: Sewer Construction
CONTRACT DATE: 3/15/13
PROJECT NOS: MPS-2013

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract. AIA Document G703™, Continuation Sheet, is attached.

1. ORIGINAL CONTRACT SUM	\$ 229,835.00
2. NET CHANGE BY CHANGE ORDERS	\$ 0.00
3. CONTRACT SUM TO DATE (Line 1 + 2)	\$ 229,835.00
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$ 111,560.00

5. RETAINAGE:

a. 10% of Completed Work (Columns D + E on G703)	\$ 11,156.00
b. % of Stored Material (Column F on G703)	\$ 0.00
Total Retainage (Lines 5a + 5b, or Total in Column I of G703)	\$ 11,156.00

6. TOTAL EARNED LESS RETAINAGE (Line 4 minus Line 5 Total)	\$ 100,404.00
--	---------------

7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)	\$ 20,700.00
---	--------------

8. CURRENT PAYMENT DUE	\$ 79,704.00
------------------------	--------------

9. BALANCE TO FINISH, INCLUDING RETAINAGE (Line 3 minus Line 6)	\$ 129,431.00
---	---------------

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	\$	\$
Total approved this month	\$	\$
TOTAL	\$	\$
NET CHANGES by Change Order	\$	\$

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Ply-Mar Construction Co., Inc.

By: [Signature] Date: 5-9-13

State of: PA

County of: Montgomery

Subscribed and sworn to before me this

day of May 2013

Notary Public: [Signature]

My commission expires: May 4, 2015

COMMONWEALTH OF PENNSYLVANIA
 Notarial Seal
 Dana D. Conaway, Notary Public
 Whitmarsh Twp., Montgomery County
 My Commission Expires May 4, 2015
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ 79,704.00
 (Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT: ENGINEER:

By: [Signature] Date: 5/9/13

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

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OK RS 5-13

AIA Document G703™ - 1992

Continuation Sheet

AIA Document G702™-1992, Application and Certificate for Payment, or G732™-2009, Application and Certificate for Payment, Construction Manager as Adviser Edition, containing Contractor's signed certification is attached.

In tabulations below, amounts are in US dollars.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO: 2
APPLICATION DATE: 4/29/13
PERIOD TO: 4/26/13
ARCHITECT'S PROJECT NO: MPS-2013

ITEM NO.	DESCRIPTION OF WORK	C	D		E	F	G	H	I
			SCHEDULED VALUE	FROM PREVIOUS APPLICATION (D ÷ E)	WORK COMPLETED THIS PERIOD				
1	Site Preparation (1 LS)	\$44,000.00	\$22,000.00	\$11,000.00					
2	E & S Controls (1 LS)	\$3,000.00	\$1,000.00	\$0.00					
3	8" Main in Paved Area (0-10') (295 LF)	\$31,080.00	\$0.00	\$21,000.00					
4	8" Main Paved Area (10-15') (88 LF)	\$11,440.00	\$0.00	\$18,460.00					
5	8" Main Un-Paved (0-10') (114 LF)	\$5,130.00	\$0.00	\$0.00					
6	8" Main Un-Paved (10-15') (255 LF)	\$11,475.00	\$0.00	\$0.00					
7	MH-6 to EXMH-201 (82 LF)	\$24,600.00	\$0.00	\$24,600.00					
8	J & B Boot Road (118 LF)	\$27,140.00	\$0.00	\$0.00					
9	Manhole (0-10') (3 EA)	\$9,000.00	\$0.00	\$6,000.00					
10	Manhole (10-15') (2 EA)	\$7,000.00	\$0.00	\$3,500.00					
11	4" Service Lateral (1 EA)	\$1,000.00	\$0.00	\$0.00					
12	Low Pressure Sewer Lat. (1 LS)	\$1,000.00	\$0.00	\$0.00					
13	Full Depth Paving (275 SY)	\$22,000.00	\$0.00	\$0.00					
14	Demo Pump Station (1 LS)	\$6,500.00	\$0.00	\$0.00					
15	Traffic Maintenance (1 LS)	\$2,000.00	\$0.00	\$0.00					
16	Mill & Overlay Paoli Pike (75 SY)	\$2,250.00	\$0.00	\$0.00					
17	Curb Replacement (30 LF)	\$1,500.00	\$0.00	\$0.00					
18	Misc Exc. & 2A Backfill (20 CY)	\$600.00	\$0.00	\$0.00					
19	Misc. Exc. & Soil Backfill (20 LF)	\$1,000.00	\$0.00	\$0.00					
20	Concrete Encasement (455 SY)	\$10,920.00	\$0.00	\$0.00					
21	Mill & Overlay Paoli Pike (3 EA)	\$6,000.00	\$0.00	\$0.00					
22	Soft Dig Test Pits			\$4,000.00					
GRAND TOTAL		\$229,835.00	\$23,000.00	\$88,560.00			\$111,560.00	\$125,295.00	\$11,156.00

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10/21/04/CDM

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA April Financial Report
Date: May 2, 2013

The Municipal Authority recorded \$86,408.22 in expenses and \$110,008.80 in revenues (primarily from a transfer from the Sewer Capital Reserve Fund) in the month of April, a difference of \$23,600.58. The fund balance is now \$72,964.31.

A complete list of all monthly expenses is provided.

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2013

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE				
49,363.73				
RCSTP BUDGET				
REVENUE				
INTEREST EARNED - RCSTP EXPANSION	07341 1020	50.00	0.00	12.85
GRANT REVENUE	07392 0800	0.00	0.00	0.00
TOTAL REVENUE		50.00	0.00	12.85
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 AUTHORITY CAP FUND	07492 0990	992,470.00	0.00	0.00
TOTAL EXPENSES		992,470.00	0.00	0.00
RCSTP NET RESULT		(992,420.00)	0.00	12.85

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2013

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	50.00	8.80	10.94
C.C. TAPPING FEES	07364 1100	128,000.00	0.00	0.00
R.C. TAPPING FEES	07364 1110	2,000.00	0.00	4,000.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	1,689.64
MISCELLANEOUS REVENUE	07380 1000	1,000.00	0.00	423.36
TRANSFER FROM SEWER OPERATING	07392 0500	121,696.00	0.00	0.00
TOTAL REVENUE		252,746.00	8.80	6,123.94
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	33,547.00	0.00	7,980.36
MISCELLANEOUS EXPENSE	07424 3000	5,000.00	0.00	1,450.00
MUNIC.AUTH.-AUDITING	07424 3110	8,843.00	0.00	0.00
ENGINEERING SERVICES	07424 3130	35,000.00	12,256.00	17,059.50
LEGAL SERVICES	07424 3140	7,000.00	1,661.12	6,357.02
M.C.-DVRFA-DEBT SERVICE	07471 1000	20,720.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	6,003.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	5,583.00	0.00	0.00
TOTAL EXPENSES		121,696.00	13,917.12	32,846.88
OPERATING NET RESULT		131,050.00	(13,908.32)	(26,722.94)

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2013

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07392 0804	992,470.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	556,769.00	110,000.00	140,000.00
TOTAL REVENUE		1,549,239.00	110,000.00	140,000.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	25,000.00	0.00	20,513.25
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	170,000.00	23,051.35	23,051.35
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	1,086.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	55,769.00	30,769.00	31,015.01
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	9,030.75	2,094.91
HERSHEY MILL STATION - ENGINEER	07426 1000	25,000.00	6,110.25	13,939.99
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	46,000.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	25,000.00	3,529.75	10,509.51
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	93,000.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	0.00	0.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		439,769.00	72,491.10	102,210.02
CAPITAL NET RESULT		1,109,470.00	37,508.90	37,789.98
MUNICIPAL AUTHORITY ENDING FUND BALANCE			72,964.31	

East Goshen Township General Ledger

Report Date 05/02/13

GL Transaction Details

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST EARNINGS				0.00				
	1301 JE	36010		0.74		02/05/13	INTEREST		INTEREST EARNED JANUARY 2013 07 FUND
			0.00	0.74	-0.74				
	1302	36396		0.48		03/04/13	INTEREST		INTEREST EARNED FEB. 2013 07 FUND
			0.00	0.48	-1.22				
	1303	36759		0.92		04/02/13	INTEREST		INTEREST EARNED MARCH 2013 07 FUND
			0.00	0.92	-2.14				
	1304	37177		3.20		05/01/13	INTEREST		INTEREST EARNED APRIL 2013 07100.1000
		37178		5.60		05/01/13	INTEREST		INTEREST EARNED APRIL 2013 07 CONSTRUCTION FUND
			0.00	8.80	-10.94				
			0.00	10.94	-10.94				
07341-1020	INTEREST EARNED - RCSTP EXPANSION				0.00				
	1301	36011		3.97		02/05/13	INTEREST		INTEREST EARNED JANUARY 2013 07 CONSTRUCTION FUND
			0.00	3.97	-3.97				
	1302	36397		4.91		03/04/13	INTEREST		INTEREST EARNED FEB.2013 07 CONSTRUCTION FUND
			0.00	4.91	-8.88				
	1303	36760		3.97		04/02/13	INTEREST		INTEREST EARNED MARCH 2013 07 CONSTRUCTION FUND
			0.00	3.97	-12.85				
			0.00	12.85	-12.85				
07364-1110	R.C.TAPPING FEES				0.00				
	1301	35931	2,000.00			01/30/13	REV TRX		REVERSE TRX #32779 TAP IN FEE FOR 913 SORRELL HILL
		35934		2,000.00		01/30/13	REV TRX		RE-REVERSE TRX 35931 FOR 913 SORRELL HILL TAP IN FEES
			2,000.00	2,000.00	0.00				
	1303 RE	36430		2,000.00		03/05/13	36430 1		TAP IN FEE - 916 SORRELL HILL
		36431		2,000.00		03/05/13	36431 1		TAP IN FEE - 911 SORRELL HILL
			0.00	4,000.00	-4,000.00				
			2,000.00	6,000.00	-4,000.00				

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Acct #	Per	Src Trx #	Debits	Credits	Bag/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1130					0.00				
		CONNECTION FEES - SEWER							
		1302 CR 36075		423.00		02/08/13	264	7195	1 JACOBS, ROBERT & CHERYL
				423.00		02/08/13	755	7193	1 GEORGE SMITH & CHRISTINA CONLE
		***	0.00	846.00 ***					
		36147		423.00		02/13/13	11	6577	1 PAPPANO, JOSEPH & PATRICIA
				421.00		02/13/13	11	7196	1 PAPPANO, JOSEPH & PATRICIA
		***	0.00	844.00 ***					
		36193		423.00		02/15/13	2173	7194	1 STOFFLET, MICHAEL
	JE	36174	282.24			02/14/13	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		36194	141.12			02/15/13	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			423.36	2,113.00	-1,689.64				
			423.36	2,113.00	-1,689.64				
07380-1000					0.00				
		MISCELLANEOUS REVENUE							
		36174		282.24		02/14/13	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		36194		141.12		02/15/13	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			0.00	423.36	-423.36				
			0.00	423.36	-423.36				
07392-0900					0.00				
		TRANSFER FROM SEWER CAP RESERVE							
		36187		30,000.00		02/15/13	XFER		XFER \$ FROM 9100.1000 TO 7100.1000 TO COVER MA EXPENSES
			0.00	30,000.00	-30,000.00				
	1304	36841		50,000.00		04/08/13	XFER		XFER \$ FROM 9100.1000 TO 7100.1000
		36905		60,000.00		04/11/13	XFER		XFER \$ FROM 9100.1000 TO 7100.1000
			0.00	110,000.00	-140,000.00				
			0.00	140,000.00	-140,000.00				
07424-1400					0.00				
		ADMINISTRATIVE WAGES							
	1303 CD	36711	7,980.36			03/28/13	2166	425	EAST GOSHEN TOWNSHIP
									1ST QTR.2013 REIMBURSMNT TO GENE FUND
			7,980.36	0.00	7,980.36				
			7,980.36	0.00	7,980.36				
07424-3000					0.00				
		MISCELLANEOUS EXPENSE							
	1301	35598	500.00			01/03/13	2153	2737	DEP - COMMONWEALTH OF PA
									NPDES PERMIT - 2013 MINOR SEWAGE FACILITY

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GL Transaction Details

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3000	1301	CD 35783	950.00			01/18/13	2158	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2013 ACTIVE MEMBERSHIP DUES
			1,450.00	0.00	1,450.00				
			1,450.00	0.00	1,450.00				
07424-3130		ENGINEERING SERVICES			0.00				
		35695	3,264.75			01/15/13	2156	1052	PENNONI ASSOCIATES INC. SERV.THRU 12/9/12 2012 GEN.SERV
			3,264.75	0.00	3,264.75				
1302		36119	1,538.75			02/12/13	2162	1052	PENNONI ASSOCIATES INC. SERV.THRU 1/13/13 GEN.SERVICES 2
			1,538.75	0.00	4,803.50				
1304		36889	6,695.25			04/10/13	2171	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/17/13 GENERAL SE
		36890	5,560.75			04/10/13	2173	1052	PENNONI ASSOCIATES INC. SERVICE THRU 2/20/13 GENERAL SER
			12,256.00	0.00	17,059.50				
			17,059.50	0.00	17,059.50				
07424-3140		LEGAL SERVICES			0.00				
1301		35695	3,289.10			01/15/13	2155	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 11/9-11/30/12 GEN.AU
			3,289.10	0.00	3,289.10				
1302		36119	1,406.80			02/12/13	2161	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN. 2013 GEN.AU
			1,406.80	0.00	4,695.90				
1304		36889	1,661.12			04/10/13	2170	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICES 2/4-2/25/13 GEN.A
			1,661.12	0.00	6,357.02				
			6,357.02	0.00	6,357.02				
07424-7475		LOCHWOOD ABANDONMENT ENGINEER			0.00				
1301		35695	511.50			01/15/13	2156	1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/9/12 HERSHEY M PUMP STATION MUFFIN MONSTER
			511.50	0.00	511.50				
1302		36119	574.50			02/12/13	2162	1052	PENNONI ASSOCIATES INC. SERV.THRU 1/13/13 H.MILL PS MUF MONSTER DESIGN

East Goshen Township General Ledger

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GL Transaction Details

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
			574.50	0.00	1,086.00				
			1,086.00	0.00	1,086.00				
07424-7476	LOCHWOOD	ABANDONMENT CONSTRUCTION			0.00				
1301	35598	246.01			01/03/13	2152		317	CONTRACTOR'S CHOICE ORANGE SAFETY FENCE, STAKES & PA
	35695	1,482.40			01/15/13	2154		425	EAST GOSHEN TOWNSHIP LOCHWOOD PLANT CLOSING COSTS-LAB
	35698	-1,482.40			01/15/13	2154		425	EAST GOSHEN TOWNSHIP VOID CK. 2154 - DUPLICATE PAYMEN
		246.01		0.00	246.01				
1304	36840	30,769.00			04/08/13	2169		2128	JWC ENVIRONMENTAL CONTROLLER ASSEMBLY, HPP, & REP SUPPLIED EQUIPMENT
		30,769.00		0.00	31,015.01				
		31,015.01		0.00	31,015.01				
07424-7477	LOCHWOOD	ELIMINATION PHASE 2			0.00				
1301	35872	379.90			01/24/13	2159		2762	A.J. BLOSENSKI INC. 30 YDS. ROLLOFF HAULING & LANDFI FEE
		379.90		0.00	379.90				
1302	36189	200.00			02/15/13	2165		2762	A.J. BLOSENSKI INC. 30 YARD ROLLOFF HAULING FEE
	JE 36105			379.90	02/11/13	VOID CHECK			VOID CK. 2159 - OVERCHARGED BY VENDOR - RETURNED CHECK
		200.00		379.90	200.00				
1303	CD 36711	1,894.91			03/28/13	2167		425	EAST GOSHEN TOWNSHIP 1/1-3/27/13 REIMBURSE GENERAL FU FOR LOCHWOOD PLANT CLOSING LABOR
		1,894.91		0.00	2,094.91				
		2,474.81		379.90	2,094.91				
07425-1000	MARYDELL	PUMP STATION - ENGINEER			0.00				
1301	35695	5,493.75			01/15/13	2156		1052	PENNONI ASSOCIATES INC. SERVICES THRU 12/9/12 MARYDELL
		5,493.75		0.00	5,493.75				
1302	36119	5,988.75			02/12/13	2162		1052	PENNONI ASSOCIATES INC. SERV.THURU 1/13/13 MARYDELL PS
		5,988.75		0.00	11,482.50				

East Goshen Township General Ledger

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07425-1000	1304	CD	36889	6,863.00			04/10/13	2171	1052	PENNONI ASSOCIATES INC.
			36890	2,167.75			04/10/13	2173	1052	SERVICES THRU 3/17/13 MARYDELL P PENNONI ASSOCIATES INC. SERVICE THRU 2/20/13 MARYDELL
				9,030.75	0.00	20,513.25				
				20,513.25	0.00	20,513.25				
07425-2000						0.00				
			36746	2,351.35			04/01/13	2168	3050	PECO ENERGY
			36889	20,700.00			04/10/13	2172	3059	TWO MAN PECO CREW- BRACE PECO PO PLY-MAR CONSTRUCTION CO.INC. MARYDELL PUMP STATION DIVERSION
				23,051.35	0.00	23,051.35				
				23,051.35	0.00	23,051.35				
07426-1000						0.00				
	1301		35695	2,047.12			01/15/13	2156	1052	PENNONI ASSOCIATES INC.
			35783	250.00			01/18/13	2157	263	SERV.THURU 12/9/12 HERSHEY MILL CHESTER COUNTY CONSERVATION DISTRICT PERMIT FEE - HERSHEY MILL DAM
				2,297.12	0.00	2,297.12				
	1302		36119	2,600.00			02/12/13	2160	2911	EARTHCORE SERVICES LLC
				2,932.62			02/12/13	2162	1052	MOBILIZATION ATV RIG-HMPS DIVERS PENNONI ASSOCIATES INC.
			***	5,532.62	0.00	***				SERV.THURU 1/13/13 HERSHEY MILL
				5,532.62	0.00	7,829.74				
	1304		36889	3,593.75			04/10/13	2171	1052	PENNONI ASSOCIATES INC.
			36890	2,516.50			04/10/13	2173	1052	SERVICES THRU 3/17/13 HERSHEY MI PENNONI ASSOCIATES INC. SERVICE THRU 2/20/13 HRSHEY MILL
				6,110.25	0.00	13,939.99				
				13,939.99	0.00	13,939.99				
07427-1000						0.00				
	1301		35695	2,047.13			01/15/13	2156	1052	PENNONI ASSOCIATES INC.
										SERV.THURU 12/9/12 RESERVE PS
				2,047.13	0.00	2,047.13				
	1302		36119	2,932.63			02/12/13	2162	1052	PENNONI ASSOCIATES INC.
				1,000.00			02/12/13	2163	3027	SERV.THURU 1/13/13 RESERVE PS SCHRODER, JOHN SEWER RIGHT OF WAY

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GL Transaction Details

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07427-1000	1302	CD 36119	1,000.00			02/12/13	2164	3029	WILLOW POND HOMEOWNERS ASSOCIATION SEWER RIGHT OF WAY
		***	4,932.63	0.00	***				
			4,932.63	0.00	6,979.76				
1304		36889	1,013.25			04/10/13	2171	1052	PENNONI ASSOCIATES INC. SERVICES THRU 3/17/13 RESERVE PU
		36890	2,516.50			04/10/13	2173	1052	PENNONI ASSOCIATES INC. SERVICE THRU 2/20/13 RESERVE PS
			3,529.75	0.00	10,509.51				
			10,509.51	0.00	10,509.51				
Beg Bal	0.00	137,860.16	148,940.05	11079.88	99999				

MAY 2013
EAST GOSHEN MUNICIPAL AUTHORITY GOALS

ON-GOING

1. Submit an article for each newsletter.
 - a. Need by 3/1/13 - **Jack**
 - b. Need by 6/1/13
 - c. Need by 9/1/13
 - d. Need by 12/1/13
2. Attend West Goshen Meetings quarterly – more often if needed.
 - a. 1st Quarter (March) - **Ed**
 - b. 2nd Quarter (June) - Kevin
 - c. 3rd Quarter (September)
 - d. 4th Quarter (December)
3. Respond to capacity requests in 45 days or less.
4. Continue to implement I & I Plan **March Report is in the Packet**
5. Operate RCSTP in compliance with NPDES Permit **January, February, March, April**

PROJECTS

1. Lockwood – Final Restoration – Work started
2. Marydell Pump Station – Construction – Bid awarded, **Notice to proceed issued and construction has commenced**
3. Hershey Mill Pump Station – Construction - Bid awarded, Notice to proceed issued. **Construction has commenced**
4. Reserve Pump Station – Construction – **We have all easements, need approval for test borings, Bids to be opened in early June.**
5. Borrowing – Reimburse Capital Reserve for design and construction funds.

CONTRACT CHANGE ORDER

CONTRACT NO.:	<u>HMP5-2013</u>	DATE:	<u>9-May-13</u>
	<u>Hershey Mill Pump Station Force Main Diversion</u>	PROJECT NO.:	<u>EGMA 1304</u>
CHANGE ORDER NO.:	<u>1</u>	LOCATION:	<u>East Goshen Mun. Auth.</u>
TO: (Contractor)	<u>Delaware Valley Utility Contractors, Inc.</u>		<u>Chester County, Pennsylvania</u>

You are hereby requested to comply with the following changes from the contract plans and specifications.

ITEM NO. (1)	DESCRIPTION OF CHANGES: QUANTITIES, UNITS, UNIT PRICES, CHANGES IN COMPLETION SCHEDULE, ETC. (2)	DECREASE IN CONTRACT PRICE (3)	INCREASE IN CONTRACT PRICE (4)
1	Furnish and install 6" HDPE Polyball gate valve with fused connection to new HDPE piping instead of specified 6" cast/ductile iron gate valve with MJ connection to new HDPE piping. Deduct pricing breakdown and product information is attached.	\$502.38	
CHANGE IN CONTRACT PRICE DUE TO THIS CHANGE ORDER			
TOTAL DECREASE		\$502.38	
TOTAL INCREASE			\$0.00
NET (INCREASE/DECREASE) CONTRACT PRICE (DIFFERENCE BETWEEN COL. (3) AND (4))			(\$502.38)

The sum of (\$502.38) is hereby added to the total contract price, and the total adjusted contract price to date is thereby \$170,937.62

The time provided for completion in the contract is unchanged.
This document shall become an amendment to the contract and all provisions of the contract will apply hereto.

Accepted by:

Contractor

Date

Recommended by:

Engineer

Date

Approved by:

Owner

Date

RECOMMEND You APPROVE
RS

Delaware Valley Utility Contractors, Inc.

225 Warren Street
Reading PA 19601
Phone: 610-372-7390

April 30, 2013

Pennoni Associates Inc.
Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, De 19713

Re: Hershey Mill Pump Station Force Main Diversion, Contract HMPS-2013
East Goshen Municipal Authority, Chester Co., PA
Change Order – 6" Poly Valve

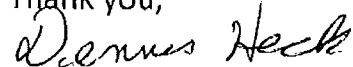
Attn: Michael Ellis, PE

Please find below the credit for installing the 6" Poly Valve in place of the 6" MJ Gate Valve.

6" MJ Gate Valve w/ MJ Adapters	\$ 746.92
6" Poly Valve	- 482.37
Credit Material	\$(264.55)
Credit Labor & Equipment (1 Hr)	\$(237.83)
Total Credit	\$(502.38)

Please let me know if you have any questions.

Thank you,



Dennis Heck

Estimator

Submittal

Delaware Valley Utility Contractors, Inc.

225 Warren Street
Reading PA 19601

Project: Hershey Mill Pump Station Force Main Diversion

Contract No: HMPS - 2013

Submittal No. 9

Date Submitted: April 26, 2013

Item: 6" Poly Ball Valve

Manufacture/Supplier: Kerotest

Spec Section:

Contractor Approval

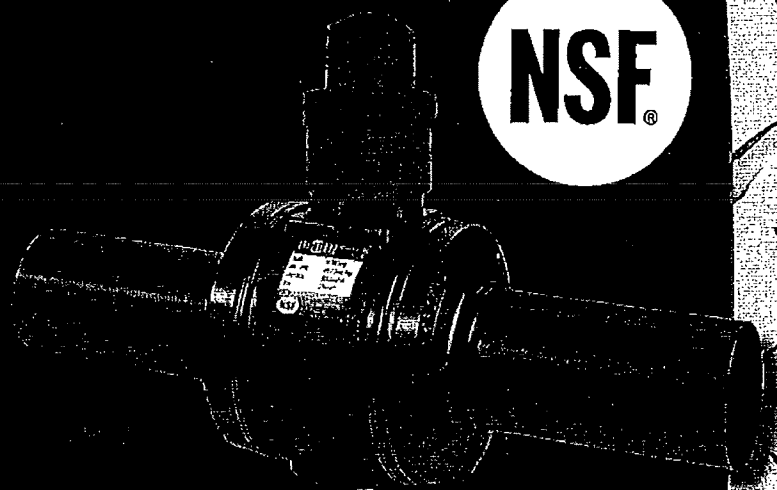
Contractor has review the attached submittal for compliance with the project specifications: Dennis Hook Date: 4/26/13

Engineers Approval

X

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NSF[®]



**Polyethylene Valves
for Water and Wastewater.**



*Providing valves and equipment to the
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Over 100 years of experience in the valve industry.

The Kerotest Polyball™ line of polyethylene ball valves is designed to be the WATER industry standard for high performance polyethylene valving. The product is a "no-compromise" solution. Utility users will enjoy the very best performance with highest flow capacity, maximum pressure capability, compatible fusion materials and reliable, leak free operation.

The Kerotest Polyball™ Water Valve meets or exceeds all industry standards. Some examples are:

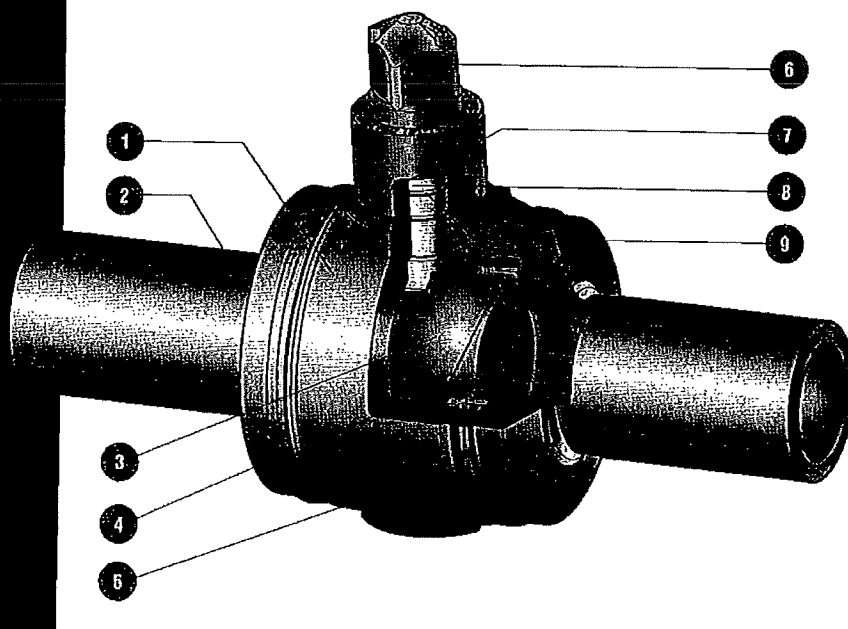
- NSF/ANSI 61 Drinking Water System Components - Health Effects
- AWWA C901 & C906
- IAMPO IGC 151-99
- Manufactured in an ISO 9001 guided facility
- Made in the United States of America
- Drop-tight shut-off
- Maintenance-free, corrosion-free
- Independent third party testing

Count on Polyball to take your water valves to a new level.

POLYBALL™ WATER VALVES

GENERAL INFORMATION

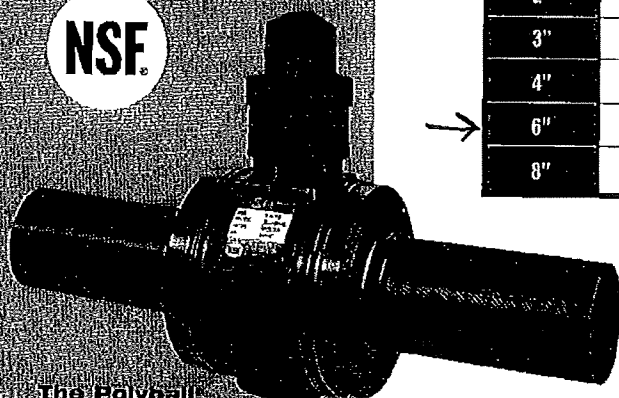
ITEM	OPERATING FEATURES
MAXIMUM ALLOWABLE SERVICE PRESSURES - PE 4710	SDR 9 : 160 psi (11 bar); 74°F (23°C) SDR 11 : 160 psi (11 bar); 74°F (23°C) SDR 13.5 : 128 psi (8.8 bar); 74°F (23°C) SDR 17 : 100 psi (6.9 bar); 74°F (23°C)
MATERIALS	High Density Polyethylene (PE 4710)
TEMPERATURE	32°F to 140°F (0°C to 60°C)
PIPE CONNECTION VIA	Butt Fusion, Electrofusion or Flanged End
BORE	Full Port or Reduced Port
SDR	17.0, 15.5, 13.5, 11.5, 11.0, 9.3, 9.0, 7.0



MATERIALS OF CONSTRUCTION	NO.	COMPONENT	MATERIAL	FEATURES AND BENEFITS
	1	Body	POLYETHYLENE	PE 4710, flat base, robust design
	2	Ends	POLYETHYLENE	PE 4710, various SDR's
	3	Ball	POLYPROPYLENE	High strength, long life and low operating torque
	4	Retainer	POLYPROPYLENE	Positive restraint under any condition; Retains seat under high differential pressure
	5	Ball Seat	BUNA-N	Reliable sealing, 32°F to 140°F
	6	Actuator	POLYPROPYLENE	2" operating square, positive position indication, over-torque protection
	7	Weather Seal	BUNA-N	Protects from ground water and dirt
	8	Stem	ACETAL	Excellent durability and strength, blowout proof *
	9	Stem Seals	BUNA-N	Redundant sealing with dual o-rings

* Stem is stainless steel on 2" RP, 1 1/2" FP, 1 1/4" FP sizes.

NSF



The Polyball
Full Port Style

Valve Sizes and Dimensions (Approx. Inches)

Full Port

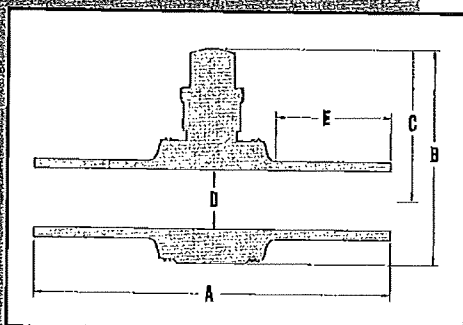
SIZE	A	B	C	D	E	Cv	WEIGHT (lbs)
1/2"	11.5	5.2	3.7	1.01	3.0	21	1
3/4"	11.5	5.2	3.7	1.01	3.0	30	1
1"	12	5.2	3.7	1.01	3.0	42	2
* 1 1/4"	11.8	6.9	5.2	1.38	3.2	49	2
* 1 1/2"	11.8	6.9	5.2	1.38	3.2	150	2
2"	19	9.7	7.0	1.90	6.4	180	5
3"	21	12.2	8.7	2.70	6.4	400	10
4"	25	14.8	10.2	3.63	7.6	710	20
6"	27	19.6	13.2	5.25	7.0	1900	42
8"	28	25.5	17.2	6.70	5.3	3750	96

Valve Sizes and Dimensions (Approx. Inches)

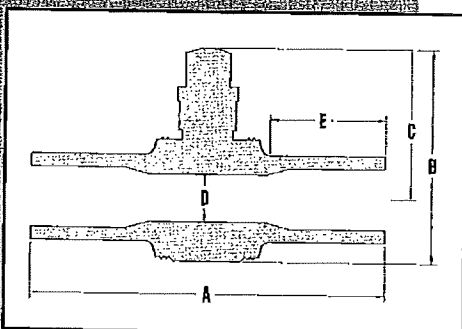
Reduced Port

SIZE	A	B	C	D	E	Cv	WEIGHT (lbs)
* 2"	11.8	6.9	5.2	1.38	3.2	150	2
4"	21	12.2	8.7	2.70	6.5	450	11
6"	25	14.8	10.2	3.63	7.3	910	26
8"	27	19.6	13.2	5.25	7.2	2200	47
10"	28	25.5	17.2	6.70	5.5	4450	102
12"	28	25.5	17.2	6.70	5.7	4950	110

Full Port



Reduced Port



Metric

Valve Sizes and Dimensions (Approx. millimeters)

Full Port

SIZE	A	B	C	D	E	Cv	WEIGHT (kgs)
20 mm	292	132	94	26	76	16	0.5
25 mm	292	132	94	26	76	22	0.5
32 mm	292	132	94	26	76	30	0.5
40 mm	305	132	94	26	81	40	0.5
50 mm	300	175	132	35	81	150	1.0
63 mm	482	245	180	48	160	180	2.3
90 mm	535	310	220	69	160	400	4.6
110 mm	635	375	260	92	190	710	9.1
160 mm	685	500	335	133	175	1900	19.1
180 mm	685	500	335	133	175	2100	19.1
200 mm	710	650	435	170	135	3750	43.6
225 mm	710	650	435	170	135	4000	45.0
315 mm	710	650	435	170	135	4950	50.0



EARTH CORE
services

1458 Shaner Drive • Pottstown, PA 19465
p 610.404.2570 • f 610.404.2580

Rick Smith
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380
610-692-7171 phone
rsmith@eastgoshen.org

May 9, 2013

Recommend You Approve
RS

Re: Reserve Pump Station Diversion, East Goshen Township, PA (M-043)

Rick,

We are pleased to provide the following proposal to perform drilling services for East Goshen Municipal Authority at the above location:

• Mobilization of ATV drill rig, tooling and crew	\$ 800.00 LS
• ATV drill rig, auger probes (5 @ up to 13' deep)	\$ 1,800.00/day
• Portland, bentonite, asphalt (if required)	\$ 30.00/bag

The above rates are quoted open shop, non-prevailing wage with work to be performed weekdays, 8 hour dayshifts, in one mobilization. All costs associated with permits, grouting, traffic control, inspections, offset drilling, dewatering, cuttings removal, and drilling through obstructions to be paid by client. We have excluded all environmental work and any and all associated costs to be paid by others. Earthcore will call to mark public utilities, Client responsible for private utility markout and hole location survey, and agrees to the responsibility to direct Earthcore where to drill. We assume the site is accessible via ATV drill rig.

Invoices payable upon receipt. Finance charges of 2% per month may be charged on all balances past 15 days from job completion date. All disputes to be settled by binding arbitration administered by the Construction Division of the American Arbitration Association, to be held near Pottstown, PA. Client agrees to pay all collection costs including but not limited to arbitration, court and attorney fees, and interest.

If you agree with the terms listed above, please sign and return one copy via fax to our office. The project will be scheduled upon receipt of signed authorization. If you have any questions or require additional information please feel free to give me a call. We appreciate the opportunity to provide our services and look forward to working with you.

AUTHORIZED SIGNATURES:

CONTRACTOR
Rick Ketchell, president
Earthcore Services, LLC

Date

CLIENT
Rick Smith, Authorized Agent
East Goshen Township

Date

Rick Smith

From: Michael Ellis <MEllis@Pennoni.com>
Sent: Monday, May 06, 2013 11:54 AM
To: rsmith@eastgoshen.org
Cc: Daniel Barbato
Subject: Marydell construction phase budget

Rick,

As we discussed this morning, we are approaching our estimated fee on the Marydell construction phase task order. As of April 28, we had expended \$16,900 of the \$20,000 budget. We're around \$19,000 through yesterday (May 5). As you may recall, the estimated fee was based upon the time actually expended on the Lockwood Chase STP sewer diversion construction phase task order. A similar scope of work and construction duration was envisioned for this project. The estimated fee amount allowed for 150 hours of field inspection (approx. \$11,250) and approx. 100 hours of office support (approx. \$8,750). As of May 5, we have expended approx. 146 hours (\$10,900) of inspection time (including Matt's attendance at the pre-construction meeting) and 99.25 hours (\$8,100) of office support.

Matt has been on-site part-time as proposed. He has been on-site an average of 4.7 hours/day while the contractor is working, as was generally planned. However, the re-work associated with the Paoli Pike jack and bore operation and the extensive and repeated utility coordination efforts & meetings with PECO and Sunoco have resulted in more work days (hours) than projected. Ply-Mar had originally projected to complete the project in 4-6 weeks. They have already worked over 25 calendar days (over 5 weeks), and they are only halfway through construction (approx. 428 l.f. installed out of 955 l.f. total). Additionally, it was expected that the Hershey Mill PS Diversion construction would have been occurring concurrently and that inspection and travel time would be evenly distributed between the two projects, but the HMPS contractor chose to wait over one month to begin.

We somewhat conservatively estimate another 6 weeks to complete the work (2 weeks to locate Sunoco gas mains and jack & bore across Boot Rd, 2 weeks to construct the sewer across the island and turn lane and coordinate pole bracing with PECO, 1 week to demolish the pump station and install sewer to existing main, and 1 week for testing and restoration). In order to continue to perform inspections approx. half-time for the remainder of the work (6 wks x 4 hrs/day = \$7,200) and limited office support (14-16 hrs = \$1,700), we request an additional \$9,000 on the task order.

Given that the HMPS Diversion construction is starting tomorrow, Matt will likely now be balancing his inspection time between the two projects and distributing travel time between the two also from this point forward, so we some economy of work will be achieved. We will also continue to very closely monitor our time to ensure this supplemental budget is not exceeded, subject to any extreme unforeseen circumstances.

Several of our other projects have been completed or are on target to be completed under budget. Maybe some of those remaining budgets could be transferred:

1. The Marydell design task order was completed approx. \$1,000 under budget, even after the transfer of funds to the Hershey Mill & Reserve job.
2. Hershey Mill PS Muffin Monster is currently approx \$3,000 under budget.
3. 2012 Chp 94 Reports are currently approx \$1,100 under budget, although we were targeting to hold some money in there for responding to any DEP comments.
4. 2013 General Services – approx. \$7,500 remaining in the budget for the rest of the year (we've billed approx. \$2,500 so far this year)

Please feel free to call Dan or me if you'd like to discuss further.

Mike

Michael J. Ellis, PE

Pennoni Associates Inc.

Christiana Executive Campus
121 Continental Drive, Suite 207
Newark, DE 19713-4310

Office 302-655-4451 x5236 | Direct 302-351-5236

Fax 302-654-2895 | Mobile 302-561-4235

<http://www.pennoni.com> | mellis@pennoni.com

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

May 10, 2013

To: Municipal Authority
From: Mark Miller
Re: April 2013 Monthly Report

Meters: Meters were read on a daily basis. The Reservoir Road meter was reading high due to debris on the probe. The portable flows are being read on a weekly basis.

Pump Stations: Were visited on a daily basis

C.C. Collection: We have been televising the interceptor line from Wilson Drive to Westtown Way. We found a large amount of inflow behind 905 Airport Road (pictures attached). The repair was done last week. We were able to locate another 20 to 30 thousand gallons. Due to poor weather conditions we were not able to do the area between Baldwin Drive and Reservoir Road; I hope to complete that section in next two weeks.

R.C. Collection: The sewer lines in the Hunt Country development were cleaned and televised; we found some minor inflow which we will correct.

All the pump stations were visited on a daily basis with no problems to report. Lenni Electric was utilized to replace the electric panel after we found that the breakers were in bad shape.

R.C. Plant: Nothing to report at this time.

Alarms: We received a total of 17 alarms.

PA One Calls: We received 48 PA One calls for the month of April.

Water coming in.



Excavation.





Water coming in to
the left,





MEMORANDUM

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

FROM: Michael Ellis, P.E. for Daniel Barbato, P.E.
Authority Engineer

DATE: May 9, 2013

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- Pennoni continues to coordinate with the Plant Operator and will provide operations assistance as needed. No issues were brought to our attention in April.

Marydell PS Elimination

- We continued to perform office support and daily field observation of the sewer construction including shop drawing reviews, resolution of Paoli Pike jack and boring casing misalignment, evaluation of contractor request to increase depth of sewer along Paoli Pike to provide vertical flexibility on Boot Road jack and bore, coordination of extra construction measures to be taken on Boot Road jack and bore to minimize risk of misalignment, additional field meetings and coordination with PECO to brace utility poles, multiple field meetings with Sunoco to locate active gas mains along Boot Road and resolve requirements for protecting and observing mains during jacking and boring, multiple gas main locating test pits and an additional observation pit, and coordination with PennDOT regarding traffic control concerns.
- We also negotiated an agreed upon payment approach with the contractor, Ply-Mar Construction, for the Sunoco-required observation pit during jacking and boring which will include payment using bid items for "Miscellaneous Excavation and Backfill" and "Soft Dig Test Pits" in addition to limited Time and Materials (T&M) work for unforeseen conditions and new Sunoco requirements.
- Ply-Mar began construction on March 26. They originally estimated 6-8 weeks to complete the project; however, they have installed less than 50% of the sewer at the time of this report (installed approx. 428 l.f. out of 955 l.f. total). We anticipate another 5-6 weeks from the time of this report to complete the project, estimated completion in late June. The contract completion date is July 15.

- We reviewed the contractor's second payment request and forwarded our recommendation to the Township.

Hershey's Mill PS Diversion

- We attended a pre-construction meeting with the Township and contractor, Delaware Valley Utility Contractors (DVUC), on April 18. We performed meeting follow-up tasks and pre-construction coordination including review of DVUC's tax exempt status request, preparation of a project contact list, notifications to Chester County Conservation District and PA Fish & Boat, review of DVUC's pre-construction video, and an additional pre-construction field meeting with DVUC regarding construction access and other matters.
- Construction began May 7. We are performing daily field observation of the work. DVUC directionally drilled approx. 600 feet from the Cornwallis Drive cul-de-sac to the existing force main point of connection on the first day of work. The HDPE pipe is expected to be pulled back through the drill hole by May 10, and cured-in-place manhole lining of the two existing manholes is scheduled to begin May 13. DVUC estimates 4 weeks (from the start of work on May 7) to complete the project. The contract completion date is July 29, 2013.
- We reviewed the remainder of shop drawings and construction submittals from the contractor. We also reviewed the contractor's proposed material change for a gate valve (from ductile iron to HDPE), and we negotiated a deduct change order with them. The change order will be forwarded to the Authority for review and approval.
- We also issued letters to unsuccessful bidders notifying them of the project award.

Reserve PS Elimination

- There has been no activity on our part since the last report. We submitted bid plans and near-final specifications to the Reserve at Spring Meadows HOA for review on April 8, but they have not provided a response or approval of the easement as of the time of this report. The project will be put out to bid after the HOA has granted the easement.

Semi-Annual I/I Report

- We received flow data from the first month of metering at new locations along the Chester Creek interceptor, and we are performing a cursory analysis of the data at the time of this report. Our findings will be informally provided to the Township via email.



PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS

Rec 4-8-13

April 8, 2012

EGMA1302

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

Re: **Semi-Annual Sewer System Status Report #09**
East Goshen Municipal Authority

Dear Mr. Smith:

The following Semi-Annual Sewer System Status Report is a continuation of the reports previously required under the Consent Order & Agreement (CO&A) executed between the Pennsylvania Department of Environmental Protection and the East Goshen Municipal Authority in December 2008. Mandatory reporting to the PaDEP ended on March 31, 2012, so this report will serve as an internal document for the Township. This report continues to describe the progress made towards achieving the milestone events listed in the Corrective Action section of the CO&A including all of the actions taken within the previous six-month period and those which will be taken in the subsequent six-month period. The term "Corrective Action" is now replaced with "Action".

EXECUTIVE SUMMARY

Meter data from the past year indicates excessive inflow and infiltration (I/I) in area CC-2 as identified in the attached figure. Approximately 60% of the total flow in this area is continuous base flow. Portions of this area – North Lockwood, Marydell, and Pin Oaks – were televised in the past six months and only limited I/I was found. In the next six months, the Township will focus on identifying and eliminating I/I in this area by installing portable meters along the Chester Creek interceptor and televising the interceptor and certain collection sewers.

ACTIONS

1. Action #1: Metering

Flow metering shall take place in the following subbasins for a minimum of four months out of the year, with metering conducted for a minimum of 60 days in the fall and 60 days in the spring.

Refer to the enclosed Figure #1 for a map of previous and future meter locations.

Previous 6 Months:

The current period analyzes meter data from September 2012 through mid-March 2013.

Goshen Valley

Based on the meter data, there does not appear to be a definitive relationship between precipitation and flow at this location. The continuous base flow at this temporary metering location averaged 5 gpm so there are no significant infiltration problems. Furthermore, the average daily metered flow of 57,600 gpd is less than the theoretical estimate of the expected flow coming from Goshen Valley (656 condos x 160 gpd/condo = 104,960 gpd).

There are no indications of I/I problems at this location since this meter was installed. Therefore, the meter will be removed.

Route 3 (West Chester Pike)

The average flow from late November through mid-December 2012 was 20,880 gpd and there was no dry weather continuous base flow. There was limited continuous base flow for one to three days following storm events. The continuous base flow suggests there is limited I/I in this system. The portable meter at this location appears to have malfunctioned in mid-December 2012 and was replaced with another meter in February.

Pennonni has not received any meter data since the temporary meter was replaced. The East Goshen Public Works Department confirmed that there is little to no dry weather continuous base flow at this location, indicating that infiltration is not a major problem in the upstream sewers. Therefore, the meter will be removed.

Waterview

The Waterview temporary meter is located on the Chester Creek Interceptor behind the Waterview Swim Club, just north of West Chester Pike. The eastern section of the Chester Creek Service Area is tributary to this meter location.

The average flow was 136 gpm in October through mid-November 2011. There was a significant continuous base flow during this period averaging 37 gpm, likely due to infiltration from the extreme wet weather in September and October 2011. The pipe flowed nearly full for over one week in mid-November 2011, possibly due to a downstream restriction.

Flow rates, including the continuous base flow and daily peaks, steadily decreased after a possible restriction was eliminated in late November 2011. From late January 2012 through March 12, 2012, during a period of fairly dry weather, the average flow was only 29 gpm, and there was no continuous base flow.

Flows have increased since March 2012 and the average flow from April through August 2012 was 101 gpm. The continuous base flow averaged 21 gpm from April through August 2012, and there was approximately 50,000 gpd inflow during storm events exceeding 1-inch precipitation.

The flows at this location increased further from September 2012 through early February 2013, with an average of 124 gpm. The average continuous base flow during this period was 22.6 gpm. The average flow from February 6, 2013 through mid-March 2013 fell to 55 gpm with an average continuous base flow of 1.3 gpm, which follows a similar trend of flow data from 2012. Peak flows during this current period appear to be correlated with high rainfall which suggests there continues to be inflow problems in the upstream sewers.

The steady base flow is evidence of dry weather infiltration in the upstream sewer system. There may also be a significant amount of rain-induced infiltration that occurs for a few days after storm events and may last up to one month during the wet season. Inflow also appears to be occurring during storms.

This temporary meter will remain at this location to continue monitoring flows from the eastern section of the Chester Creek Service Area.

Dam Interceptor

The temporary meter malfunctioned on December 7, 2012 and was sent out for repairs. The data that was captured before the meter malfunctioned is considered to be inaccurate since the average flow during this period from the upstream Reservoir Road permanent meter of 603 gpm was significantly higher than the average flow of 336 gpm that the Dam Interceptor temporary meter recorded.

No conclusions can be made because the available metered data for this period is considered erroneous. The temporary meter will therefore remain at this location.

Reservoir Road Interceptor

The average flow at this temporary meter location from late November 2012 through mid-March 2013 was 479 gpm. The continuous base flow average of 294 gpm comprises over 60% of the flow at this location. This indicates there is a severe I/I problem upstream of this location. The temporary meter will therefore remain at this location.

North Lockwood

Temporary meter data at this location is considered inaccurate from November 28, 2012 through December 18, 2012. Theoretically, the flowrate measured at the permanent Reservoir Road meter should equal the North Lockwood flow plus the temporary Reservoir Road Interceptor meter flow. Average flow data from all of these locations in December 2012 indicates that the North Lockwood temporary meter began to accurately measure flows around December 27, 2012.

From December 27 to February 6 the average daily flow was 74,880 gpd, and the continuous base flow averaged 40,320 gpd. The continuous base flow is approximately 54% of the total flow and is believed to be primarily infiltration.

Significant rainfall is correlated with delayed peak flows which indicates there is infiltration in the upstream sewers. The Township televised the upstream sewers and did not find any major problems besides one illegal sump pump connection. The temporary meter was previously removed following the televising.

Baldwin Drive

The meter data at this location, from the end of November 2012 through mid-March 2013, fluctuates dramatically so we cannot provide any quantitative analysis for the current period. However, the average daily flow from late November 2012 through mid-January 2013 was 40,320 gpd. Although the accuracy of the meter is questioned, since February 6, 2013 flows have increased dramatically to an average flow of 174,096 gpd with a continuous base flow of 79,623 gpd.

The Township intends to clean and televise the sewers upstream of this location during the next six months, so this meter will be relocated one manhole upstream to meter flows from the interceptor:

Permanent Chester Creek Service Area Meters

Flow data from the 10 permanent meters throughout the Chester Creek Service Area were analyzed; six of the meters are in gravity interceptor sewers and four of the meters are on pump station discharge pipes. Instantaneous or hourly meter data is not recorded on these meters; therefore only a rough flow analysis can be performed because inflow peaks and continuous base flows are unknown. Additionally, there are no readings for the Hicks meter since May 2012; therefore an analysis could not be performed for this key location during this period.

Our conclusions for the current period, September 2012 through March 2013, maintain that I/I problems likely exist in the sanitary sewer system as indicated in previous periods. Metered data from this period did not indicate significant I/I within Area CC-1, but accurate data is needed from the temporary Dam Interceptor meter to confirm this. I/I continues to be a major problem in Area CC-2. I/I appears to be a problem within Area CC-3, as previously indicated in the Waterview temporary meter analysis.

Next 6 Months:

East Goshen Municipal Authority has found the temporary metering to be beneficial in identifying problems in their sewer system. Although not required by the CO&A, the Authority will continue temporary metering and flow analyses. Metering results and analyses will be utilized internally and for Chapter 94 Reporting but will no longer be reported semi-annually to DEP.

We recommend the following actions for the next six months:

- Clean and calibrate all meters.
- Discontinue metering at the Baldwin Drive, Goshen Valley, and Route 3 (West Chester Pike) locations.
- Continue metering at the Reservoir Road Interceptor, Dam Interceptor, and Waterview locations.
- Relocate meters on the Chester Creek Interceptor sewers in three other strategic locations to determine if I/I problems exist in Area CC-2: (1) one manhole upstream of the Baldwin Drive temporary meter to capture flows from the interceptor downstream of the Hicks permanent meter, (2) the manhole west of the interceptor on the Solsters property to capture flows from businesses along West Chester Pike and properties along Park Avenue, (3) one manhole upstream of the interceptor where Marydell connects.
- One portable meter will be maintained as a spare to replace another meter in the event of a malfunction.
- Metering data will be analyzed by Pennoni in May to identify any initial problems.

2. Action #2: Televising

Televising and visual inspections should take place on an ongoing, as-needed basis in order to discover areas of excessive I/I and to measure the effectiveness of I/I rehabilitation measures.

Previous 6 Months:

Refer to the attached "2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" and "2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" for a summary of the televised sewers during the past six months.

Next 6 Months:

Ridley Creek Service Area

- None

Chester Creek Service Area

- Televis the remainder of the Chester Creek Interceptor along Reservoir Road between West Chester Pike and Paoli Pike
- Televis collection sewers that are west of Baldwin Drive

3. **Action #3: System Hydraulic Characterization**

The sanitary sewer collection system tributary to the Ridley Creek Sewage Treatment Plant should be modeled and hydraulically evaluated in order to determine if any physical constraints exist which would not allow for the conveyance of peak wet weather flow.

- The System Hydraulic Characterization was completed and submitted to DEP in November 2009 as required by the CO&A.

4. **Action #4: Rehabilitation**

Areas within the sewer systems which have been identified as needing rehabilitation, per the investigations mentioned above, should be rehabilitated.

Previous 6 Months:

Refer to the attached documents "2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" and "2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" for a list of rehabilitation work performed during the previous period.

Next 6 Months:

- Continue to conduct rehabilitation of sewers, manholes, and laterals as determined by ongoing investigations, including possible isolated cured-in-place pipe lining and replacement of cleanout caps and cleanout pipes that have pulled out of lateral piping
- Replace castings and manhole lids with watertight lids in the Pin Oaks, Grand Oak, and Bittersweet developments.

5. **Action #5: Post-Rehabilitation Flow Metering**

Flow metering should take place in areas that have been rehabilitated in order to document the effectiveness of the rehabilitative work. The metering should take place during both the fall and spring of the year.

Previous 6 Months:

There has not been any significant rehabilitation work performed in the Chester Creek

Collection System since temporary metering in this basin began.

Next 6 Months:

- Data from the various meters throughout the Chester Creek Service Area will be reviewed to evaluate the effectiveness of any repairs in Area CC-2.
- Data from the Ridley Creek Influent STP meter will continue to be reviewed to determine the effectiveness of any repairs in the Ridley Creek Service Area.

6. Action #6: House Lateral Investigation Program

The House Lateral Investigation Program ("HLIP") was implemented in conformance with the provisions of the HLIP contained in the February 28, 2008, letter from East Goshen.

Previous 6 Months:

- Continued to replace cleanout caps at no charge to property owners in the Ridley Creek and Chester Creek Service Areas upon request by property owners or observation by Public Works or Codes Department staff. Refer to attached lists of "2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" and "2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work".
- Continued to repair defective laterals and cleanouts for property owners to ensure that the work is done properly as indicated in Action #4. Refer to attached lists of "2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work" and "2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work".
- Re-occupancy inspections were performed at the sale of residences and commercial establishments throughout the Township looking for direct inflow from building sump pumps.

Next 6 Months:

- Continue to inspect sanitary sewer cleanouts/vents in conjunction with the televising efforts performed under Action #2.
- Continue Township policy regarding replacement of cleanouts, vent caps, and laterals.
- Continue re-occupancy inspections at the sale of properties including looking for direct inflow from building sump pumps.
- Repair of defective laterals and cleanouts by the Township for property owners to

ensure that the work is done properly.

7. **Action #7: Reporting**

Semi-Annual Status Reports should be submitted to the East Goshen Municipal Authority to describe the progress made towards achieving the previous Corrective Action milestone events.

Previous 6 Months:

- Submitted Semi-Annual Sewer System Status #08 to the Municipal Authority on October 4, 2012.
- Submitted January 2013 Interim Portable Meter Analysis Summary to the Township on January 22, 2013.


Next 6 Months:

- Prepare and submit the Semi-Annual Sewer System Status #10 to the Municipal Authority by September 30, 2013.

If you should have any questions, please do not hesitate to contact me at (302) 655-4451.

Sincerely,

PENNONI ASSOCIATES INC.


Michael J. Ellis, P.E.
Project Engineer

ajd/

Enclosures: Figure 1
2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work Pipe
2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work Pipe

cc: Rick Smith, Township Manager
Mark Miller, Public Works Director
Robert F. Adams, Solicitor
Dan Barbato, Pennoni Associates Inc., Authority Engineer

2012 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work

West Goshen/Chester Creek Service Area

January 2012	<ul style="list-style-type: none">• Replaced dialers at the Ashbridge and Barkway Pump Stations• Performed two excavated lateral replacements
February 2012	<ul style="list-style-type: none">• Repaired main breaks in Supplee Valley• Performed an excavated manhole cover replacement on Strasburg Road• Pump #1 at the Ashbridge Pump Station was sent out for repair
March 2012	<ul style="list-style-type: none">• Performed two excavated lateral repairs
April 2012	<ul style="list-style-type: none">• Repaired lateral stack on Heather Lane• Cleared downstream blockage causing surcharge in manhole near the Hershey Mill Pump Station• Replaced 12 lateral caps
May 2012	<ul style="list-style-type: none">• Replaced 44 manhole castings in Marydell• Televised the drop manhole in Hershey Mill• Repaired a lateral stack on Heather Lane• Replaced four lateral caps
June 2012	<ul style="list-style-type: none">• Repaired leaky lateral• Cleared three lateral blockages• Replaced one lateral cap
July 2012	<ul style="list-style-type: none">• Repaired Pump #2 at the Barkway Pump Station• Increased impeller size on pumps• Installed pressure gauges on the force main• Cleaned and televised 870 LF of sewer and inspected manholes along Grand Oak Lane
August 2012	<ul style="list-style-type: none">• Replaced several lateral caps• Cleared one blocked lateral• Inspected manholes between Wilson Drive and Strasburg Road
September 2012	<ul style="list-style-type: none">• Replaced several sewer caps• Repaired channel at Reservoir Road and Baldwin Drive
October 2012	<ul style="list-style-type: none">• Pump #2 was replaced after it stopped operating during the peak of Hurricane Sandy
November 2012	<ul style="list-style-type: none">• Replaced two lateral caps
December 2012	<ul style="list-style-type: none">• Replaced the transducer at the Ashbridge Pump Station

Ridley Creek Service Area

February 2012	<ul style="list-style-type: none">• Worked with Alfa Laval to get the centrifuge back in service at the Ridley Creek STP
March 2012	<ul style="list-style-type: none">• Cleaned SBR #1
April 2012	<ul style="list-style-type: none">• Cleaned and televised 2,700 LF of sewer from 1580 Paoli Pike to Charter School• Cleaned and televised 12,340 LF of sewer from CVS to 1580 Paoli Pike
May 2012	<ul style="list-style-type: none">• Cleaned and televised 8155 LF of sewer along Paoli Pike by Charter School and found 50,000 gpd I&I• Repaired leaky lateral• Replaced three lateral caps
August 2012	<ul style="list-style-type: none">• Replaced the auto dialer at the Hunt Country Pump Station
September 2012	<ul style="list-style-type: none">• Replaced two lateral caps
November 2012	<ul style="list-style-type: none">• Cleaned and televised sewers near Pulte• Replaced one lateral cap
December 2012	<ul style="list-style-type: none">• Replaced lateral tee and 20 feet of pipe

Meters

January 2012	<ul style="list-style-type: none">• Re-calibrated the meters were due to problems with the transducer brackets• Replaced the broken Reservoir Road meter bracket bolts
August 2012	<ul style="list-style-type: none">• Westtown Way malfunctioned
September 2012	<ul style="list-style-type: none">• Westtown Way meter replaced• Reservoir Road meter back in service• Installed new flow meter at RCSTP
November 2012	<ul style="list-style-type: none">• Relocated portable flow meters

2013 Sanitary Sewer Maintenance, Repair, Cleaning, and Televising Work

Cleaning and Televising

Pin Oaks Farms – 8,600 LF

North Lockwood and Brooke Driver – 4,000 LF

Part of Strasburg Road - 1,200 LF

Apple Brook Pulte Homes – 2,000 LF

Lateral Repairs

1560 Tanglewood Drive

930 Monta Vista Drive

1445- 1448 Grand Oak Lane



Monthly Operations Report: April 2013

Treatment Process Operation

During March 2013, there were no exceedances of the final effluent discharge limitations for outfall 001. There was no discharge from outfall 002. Table 1 illustrates the final effluent composite sample data reported during March.

Table 1

March 2013 - 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 5, 2013	0.288	2.0	4.8	5	12	0.10	0.24	0.16	0.38	1	0.0000
March 14, 2013	0.273	2.0	4.6	5	11	0.13	0.29	0.37	0.84	1	0.0000
March 19, 2013	0.283	2.0	4.7	5	12	0.10	0.24	0.29	0.68	1	0.0000
March 26, 2013	0.263	2.0	4.4	5	11	0.10	0.22	0.32	0.70	1	0.0000
Average	0.2768	2.0	5	5	12	0.107	0.25	0.29	0.65	1	0.0000
Minimum	0.2630	2.0	4	5	11	0.100	0.22	0.16	0.38	1	0.0000
Maximum	0.2880	2.0	5	5	12	0.127	0.29	0.37	0.84	1	0.0000

The monthly average total phosphorus concentration was 0.29 mg/L as compared to the discharge limitation of 0.5 mg/L. During the month, the final effluent total phosphorus concentration discharged ranged from 0.16 mg/L to 0.37 mg/L.

During the month of April 2013, there are no anticipated non-compliance issues with respect to the discharge permit limitations. It is noted that the final effluent CBOD₅ collected on April 23rd is under review due to suspected test error or contaminated sample. The sample is being retested for CBOD₅, including additional analysis for COD.



Table 2 presents the available final effluent data for the month of April.

Table 2

April 2013 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
April 2, 2013	0.207	2.0	3.5	5	9	0.100	0.17	0.24	0.41	1	0.0000
April 11, 2013	0.169	2.0	2.8	5	7	0.100	0.14	0.13	0.18	1	0.0000
April 16, 2013	0.188	2.0	3.1	13	20	0.187	0.29	0.12	0.19	1	0.0000
April 23, 2013	0.224			9	17	0.100	0.19	0.17	0.32	1	0.0000
April 30, 2013	0.071	2.0	1.2	5	3	0.159	0.09	0.10	0.06	1	0.0000
Average	0.1718	2.0	3	7	11	0.129	0.18	0.15	0.23	1	0.0000
Minimum	0.0710	2.0	1	5	3	0.100	0.09	0.10	0.06	1	0.0000
Maximum	0.2240	2.0	3	13	20	0.187	0.29	0.24	0.41	1	0.0000

Transfer of treated effluent to the Applebrook Golf Course was initiated on April 26, 2013. The Township Staff replaced the pump due to the original pump being seized and drawing excessive amperage. The replacement pump is discharging an average of 167,926 gallons per day.

Table 3 present the influent wastewater pollutant concentrations and loading entering the wastewater treatment facility. Composite samples are collected at the influent doghouse manhole. The influent flow meter reading is collected from the SBR influent flow meter due to in accuracies with the field influent flow meter.



April 2013 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
April 2, 2013	0.2670	202	450	270	601	38	85	61.4	137	7.2	16
April 11, 2013	0.3534	193	569	140	413	29.4	87	54.1	159	5.2	15
April 16, 2013	0.3404	155	440	200	568	33.6	95	39.3	112	4.8	14
April 23, 2013	0.3143	254	666	240	629	34.1	89	44.1	116	5.4	14
April 30, 2013	0.2727	260	591	230	523	29.2	66	44.4	101	6.0	14

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during the month of March. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Microscopic examinations and physical observation of the SBR MLSS and foam color is ongoing. Foam concentrations remained around the same concentration as during March. Present surface area coverage during React Phase ranges from approximately 85 to 95%. The foam remains as light brown in color and averages 2 to 4 inches in depth. The F:M ratios for SBR 3 and 4 were increased to a range of 0.05 to 0.08 as lbs COD/lbs. MLSS Increased sludge wasting rates were implemented during the month to lower MLSS and increase F:M ratios.

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.

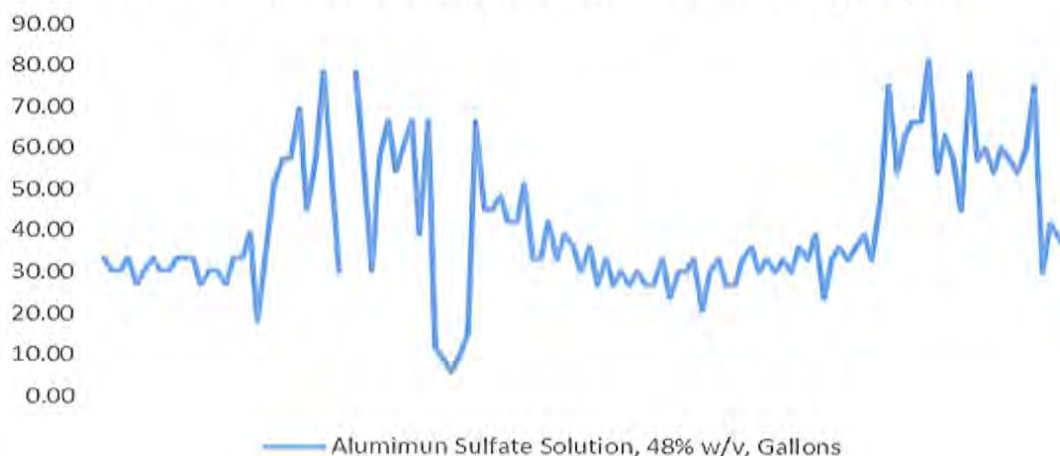
Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was decreased at end of April as settleability of the SBR MLSS and total phosphorus removal through the disc filters improved. Graph 1 illustrates the daily volume of alum used from January 1st through April 30th. A year to date daily average of 41.2 gallons per day of aluminum sulfate solution has been used in the SBRs and addition prior to filtration.

SBR No. 2 remains out of service. Transfer of the mixed liquor was implemented during early April, however, removal of all of the tanks contents wasn't effective with the available equipment. The tank was partially filled to allow for the blower to operate to prevent odor production.



Graph 1

YTD Trend for Alumimun Sulfate Solution, gallons



Process Monitoring On-Line Instrumentation:

The ChemScan phosphate analyzer remains on line. Comparison testing for reactive (ortho) and total phosphorus is ongoing. On site comparison, monitoring is measuring a significant difference among the analyzer data as compared to the onsite laboratory data. Dave Kershner was contacted confirm calibration of the analyzer and adjust if needed. Suspended solids within the post final effluent feed to the flow floc tank and filters may be fouling the analyzer.

Presented below is a summary of the flow data for April 2013:

Flow data:

April 2013		
Flow Meter Location	Total Volume for Month, MGD	Average Daily Flow, gpd
Influent Wastewater to Screening Building – <i>Meter was repaired on April 19, 2013</i>	Incomplete	incomplete
Influent Wastewater to SBRs	10.419	347,282
Internal Recycle	incomplete	incomplete
Treated Effluent to Disc Filters	9.874	329,133
Final Effluent Discharge	5.704	190,133
Applebrook Golf Course	0.840	167,926



Chemical Usage:

March 2013		
Chemical	Daily Average	Total Monthly
Soda Ash	216 lbs./day	6,480 pounds
Magnesium Hydroxide	0 gpd	0 gallons
Aluminum Sulfate solution	53.3 gpd	1,600 gallons
Polymer (centrifuge)	5.5*	50 gallons

**Eleven (11) days of centrifuge operation*

Solids Dewatering and Disposal: March 2013

(March O&M report was incomplete)

Sludge Dewatering Summary	
Gallons of sludge dewatered	176,271 gallons
Average Dewatered Total Solids, %	18.53%*
Wet Tons	32.15
Dry Tons	5.958
Number of dumpsters	3

Solids Dewatering and Disposal: April 2013

During the month, the centrifuge dewatering system was placed in service. Presented below is a summary of the solids processing activity:

Sludge Dewatering Summary	
Gallons of sludge dewatered	216,196 gallons
Average Dewatered Total Solids, %	18.85%*
Wet Tons	28.64
Dry Tons	5.398
Number of dumpsters	3

During the month, 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 the month was 14.54 feet and the level at the end of the month was 10.84 feet. The initial



total solids concentration was 0.81% and ended the month as 0.63% total solids. A total of 46,200 gallons of supernatant was decanted during the month.

Sludge holding tank No. 2 was placed in service. The level at the beginning of the month was 1.57 feet and the level at the end of the month was 12.19 feet. The initial total solids concentration was 0.53% and ended the month as 0.79% total solids. A total of 206,850 gallons of supernatant was decanted during the month.

Significant Storm Events

During April there were no significant rainfall events contributing to excessive influent wastewater flows to the treatment facility.

Minor Repairs and Preventative Maintenance

- Replaced the rear bearing, v-seal, and O-rings on the centrifuge. Assistance was provided to the Alfa-Laval technician.
- Jeff Bush from Worth & Company was provided the hour meter information or replacement of the failed analog hour meters (previous warranty issue left unresolved by Worth & Company).
- Investigated malfunction with centrifuge control panel UPS. Coordinating with Alfa-Laval to determine corrective action.
- Township removed and replaced Applebrook pump.
- Determined signal loss between soda ash feed pump and Siemens control panel. This pump is not in use, however, efforts to reinstate the communication will be investigated during the month of May.

0-619-87500-0

2013 SUMMARY OF METER READINGS

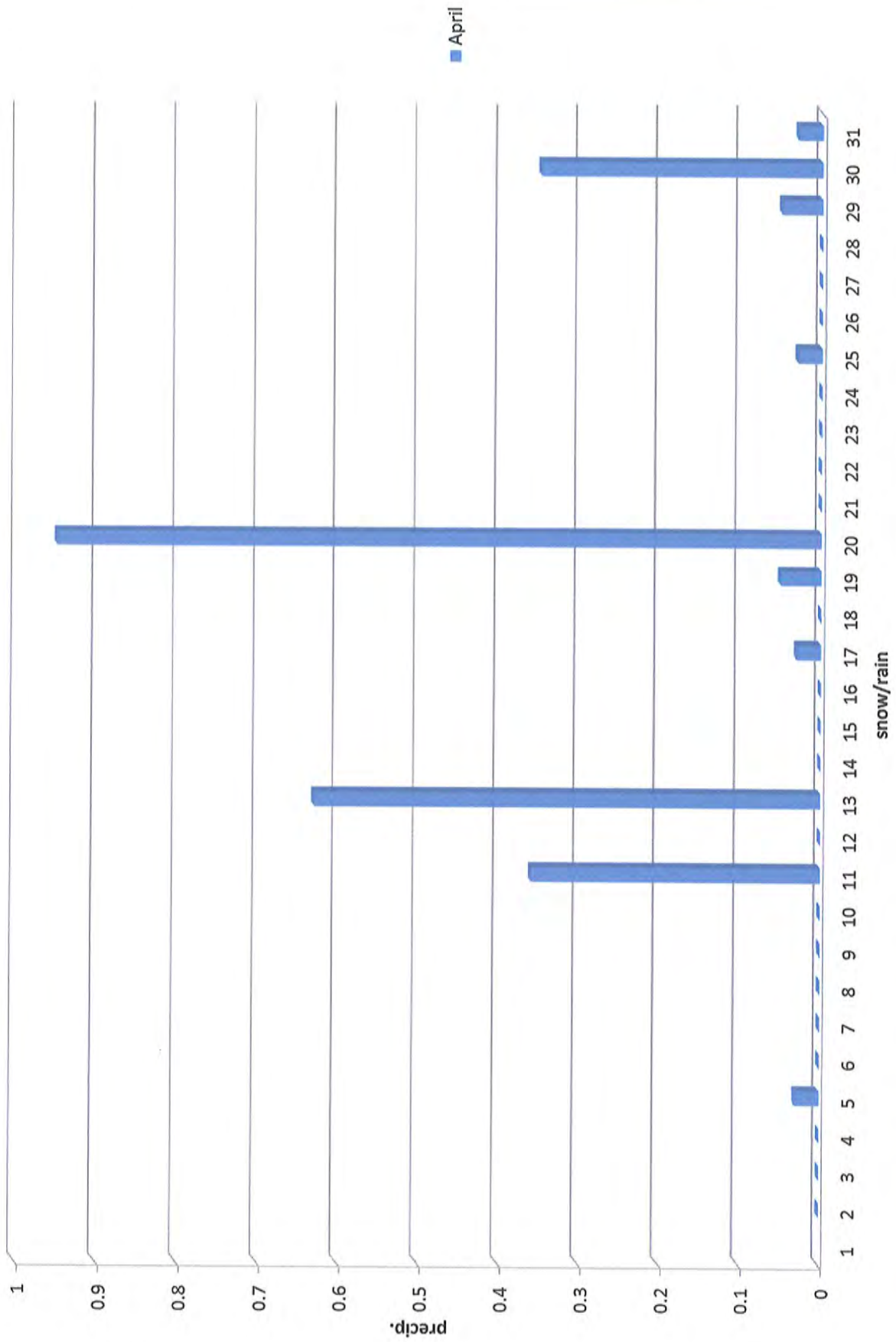
	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT	HERSHEY MILL	ASHBRIDGE	HICKS	RESERVOIR	SHERMAN	BARKWAY
JANUARY	1,277,069	120,481	60,165	63,671	20,400	89,992	70,106		922,377	7,363	11,147
FEBRUARY	1,297,700	101,955	56,216	77,811	20,400	89,500	64,950	387,898	936,368	7,669	10,544
MARCH	1,285,156	105,488	68,636	85,607	20,400	79,416	66,580	292,895	594,040	3,899	7,122
APRIL	1,127,728	92,814	69,146	68,496	20,400	73,245	59,483	365,108	1,030,755	5,310	9,527
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
Total Flows											
Monthly Ave	1,246,913	105,185	63,541	73,896	20,400	83,038	65,280	348,634	870,885	6,060	9,585

To
West Goshen 1,004,292

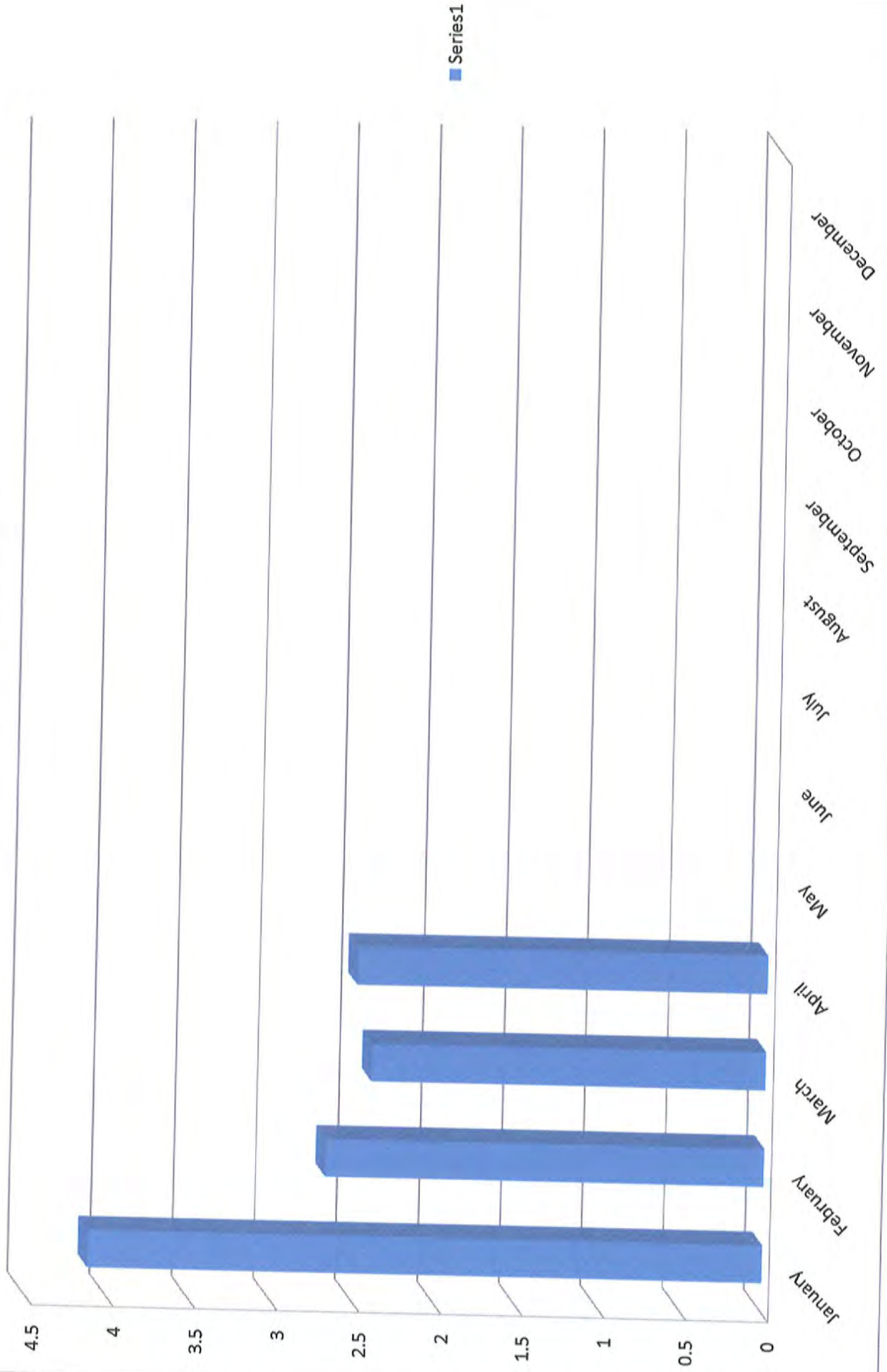
2013 SUMMARY OF METER READINGS

	WESTTOWN WAY	ELLIS LANE	PAOLI PIKE	WILSON DRIVE	SUMMIT
JANUARY	1,277,069	120,481	60,165	63,671	20,400
FEBRUARY	1,297,700	101,955	56,216	77,811	20,400
MARCH	1,285,156	105,488	68,636	85,607	20,400
APRIL	1,127,728	92,814	69,146	68,496	20,400
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
Total Flows					
Monthly Ave	1,246,913	105,185	63,541	73,896	20,400

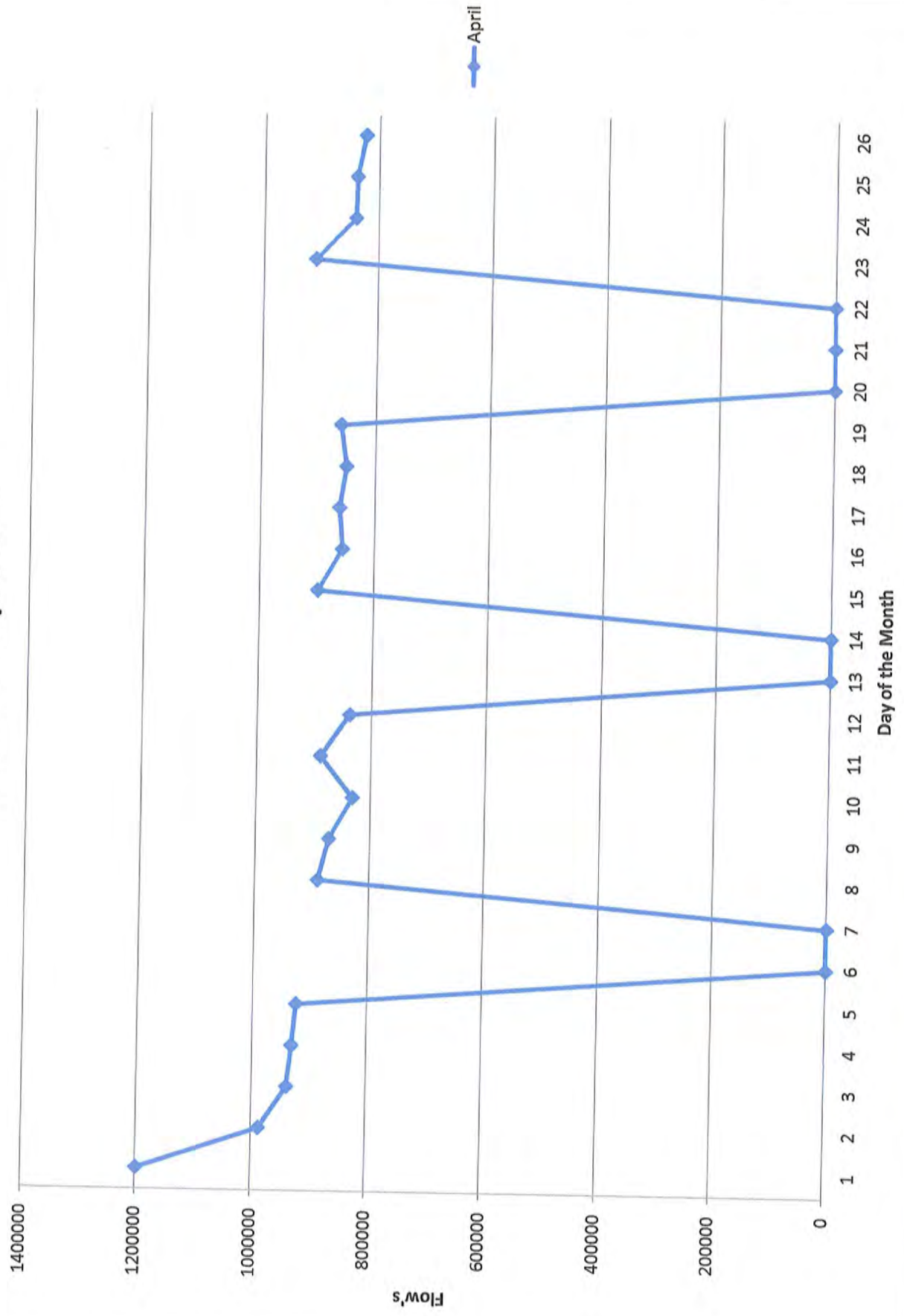
April Precip. 2.51 - 2013



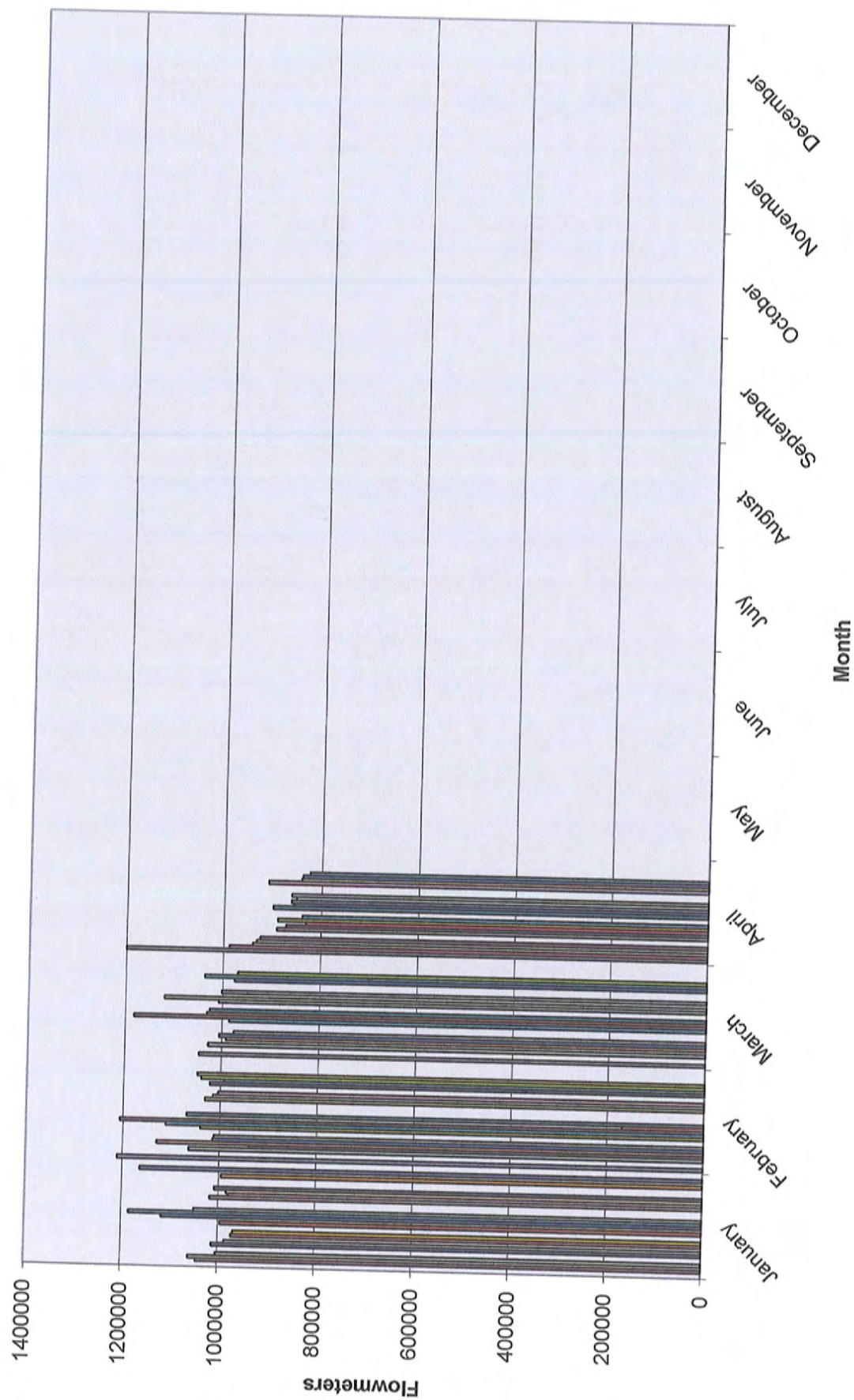
2013 Monthly Precipitation

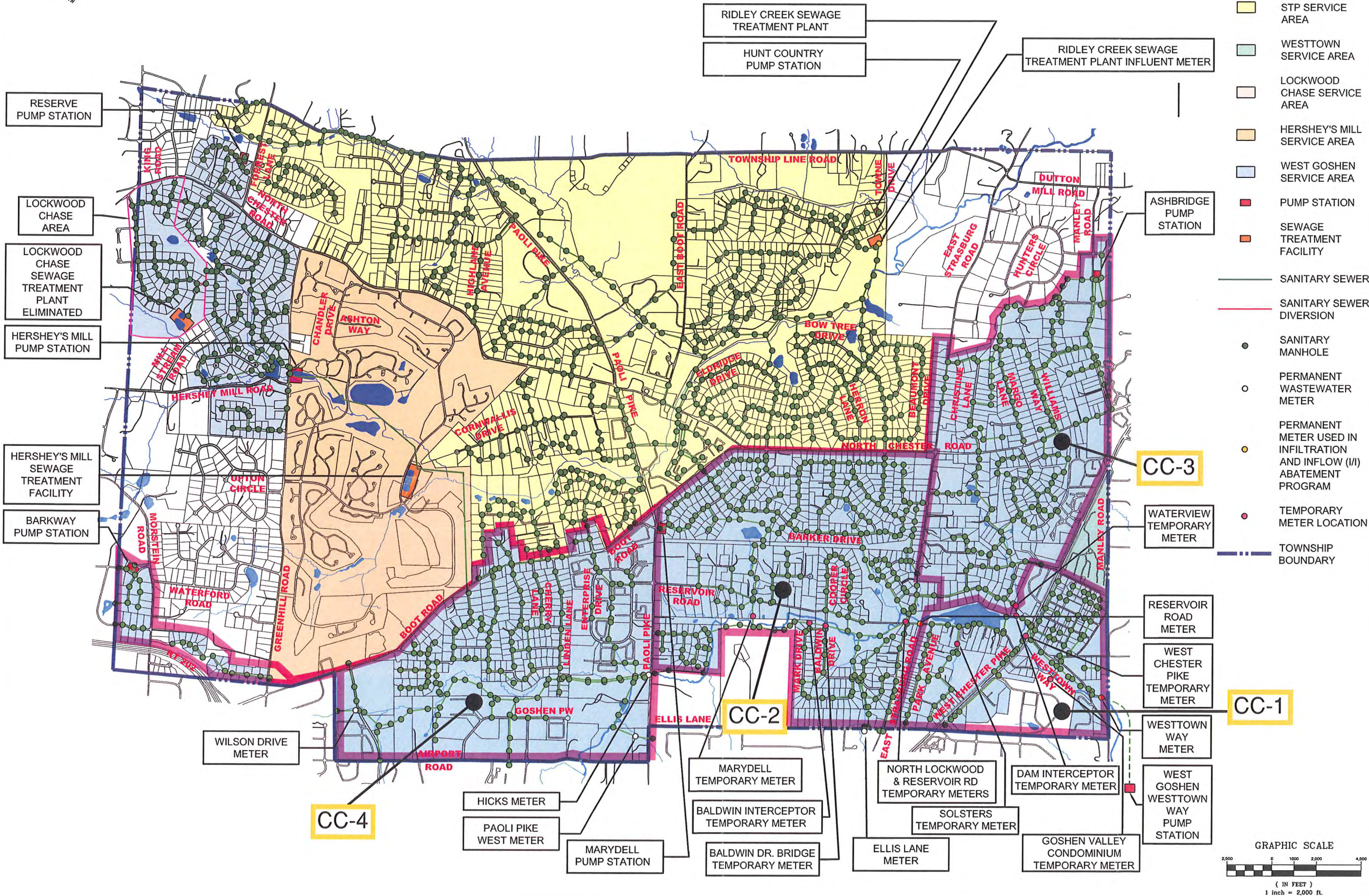


Flowmeters April 2013



Monthly Totals 2012 Jan-Dec





THIS EXHIBIT IS FOR
GRAPHICAL
REPRESENTATION ONLY

PREPARED FOR EAST
GOSHEN TOWNSHIP OF
CHESTER COUNTY IN
PENNSYLVANIA

APRIL 2013

EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
FIGURE #1:
TOWNSHIP WASTEWATER FACILITIES