

AGENDA
EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS

Tuesday, May 17, 2016
7:00 PM

1. Call to Order
2. Pledge of Allegiance
3. Moment of Silence – Supervisor Carmen Battavio
4. Ask if anyone is recording the meeting
5. Chairman’s Report
 - a. Announce that on May 4, 2016, the Board met in Executive Session with the solicitor to discuss a Police personnel matter.
6. Public Hearing – none
7. Emergency Services Reports
 - WEGO – Chief Brenda Bernot
 - Goshen Fire Co. - none
 - Malvern Fire Co – none
 - Fire Marshal –Carmen Battavio – May 8, 2016 Report
8. Financial Report – April 2016 Report
9. Old Business
10. New Business
 - a. Consider Resolution 2016-103 adopting the 2015 Chester County Multi-Jurisdictional Hazard Mitigation Plan.
 - b. Consider ribbon cutting event for the East Boot Road Bridge.
11. Any Other Matter
12. Approval of Minutes
13. Treasurer’s Report
 - a. May 12, 2016
14. Correspondence, Reports of Interest
 - a. May 7, 2016 Commerce Connection Report
 - b. 1st Quarter 2016 Sunoco Remediation Report
 - c. April 25, 2016 Letter from John Good, Esquire

d. Acknowledge that the East Goshen Municipal Authority will be submitting an application to renew the NPDES Permit for the Ridley Creek Sewer Plant

15. Public Comment – Hearing of Residents

16. Adjournment

The Chairperson, in his or her sole discretion, shall have the authority to rearrange the agenda in order to accommodate the needs of other board members, the public or an applicant.

Dates of Importance

May 18, 2016	Futurist Committee	7:00 pm
May 24, 2016	Pension Committee	10:00 am
May 25, 2016	Annual Planning Session	9:30 am
Jun 1, 2016	Planning Commission	7:00 pm
Jun 2, 2016	Park and Rec Commission	7:00 pm
Jun 7, 2016	Board of Supervisors	7:00 pm

*Newsletter Deadline for fall of 2016: August 1, 2016

BOARD OF SUPERVISORS
EAST GOSHEN TOWNSHIP
CHESTER COUNTY
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199
610-692-7171 Fax 610-692-8950
www.eastgoshen.org

Date: May 8, 2016
To: Board of Supervisors
From: Carmen Battavio
Re: 26 Reservoir Road

20:45-21:23 hrs

Owner-

Edward Dower
26 Reservoir Road
West Chester, Pa. 19380

Dispatched to location from a neighbor calling in about a large fire with lots of embers.

Upon arrival:

- WEGO Police on location
- Owner built a small (3') diameter below ground fire pit, had a small fire with fire wood.
- Stood by for 15 minutes, fire was in the order of a campfire with very little smoke and embers.
- Evidence shows not overloaded with wood.
- Fire ring is 26' from his fence and over 40' from any structure.
- I did advise owner he needed a source of extinguishment on site and remove the lighter fluid from next to the fire.

I advised the owner to call Mark Gordon Monday morning to discuss if a permit was needed for the fire pit area.

Memo

To: Board of Supervisors
From: Jon Altshul
Re: April 2016 Financial Report
Date: May 9, 2016

Net of pass-through accounts, as of April 30th, the general fund had revenues of \$3,943,503 and expenses of \$3,547,634 for a year-to-date surplus of \$395,868. Compared to the YTD budget, revenues were \$47,272 over budget and expenses were \$75,330 under budget for a positive budget variance of \$122,602. As of April 30th, the general fund balance was \$5,115,034.

On the expense side, Parks and Recreation was \$82,545 over-budget due to invoices paid to Gannett Fleming for the Milltown Dam study, as well as our decision to reclassify tree work done in the parks as a park expense (\$18,445 year to date), rather than as a roads expense, as it was budgeted and previously classified. The Milltown Dam line item will be over-budget for the remainder of the year, in part because I expected the Township to incur a larger portion of the expenses in late 2015.

Net of revenues, Zoning and Codes Enforcement was \$7,108 under-budget. Permit revenues are \$30,361 over-budget, mostly due to residential permit activity. However, this is offset by a \$57,961 overage for Zoning Consultants due to the timing of consulting and surveying invoices for the Paoli Pike Trail. All other operating departments were under budget.

On the revenue side, Earned Income Tax is now \$73,859 under budget, although this is expected to change as we enter May, which is historically the strongest month of the year for EIT receipts, as it reflects both first quarter remittances, as well as annual individual tax filings. Real Estate Property Tax is \$21,961 over budget. Please be aware that we recently issued an interim bill for a commercial property in the amount of \$25,484, so Real Estate Tax is likely to be well over-budget for the year. Real Estate Transfer Tax is \$34,252 under budget, but that number only reflects sales through March. Local Services Tax continues to be strong with a positive budget variance of 12,037.

Other funds

- The **State Liquid Fuels Fund** had \$503,544 in revenues and \$0 expenses. The fund balance is \$503,744.
- The **Sinking Fund** had \$25,563 in revenues (including the sale of a Ford F550 that was replaced last year) and \$151,737 in expenses. The fund balance is \$6,141,287.
- The **Transportation Fund** had \$1,987 in revenues and \$0 in expenses. The fund balance is \$1,063,200.
- The **Sewer Operating Fund** had \$1,116,329 in revenues and \$933,653 in expenses. The fund balance is \$811,713.
- The **Refuse Fund** had \$376,674 in revenues and \$326,204 in expenses. The fund balance is \$706,153.
- The **Sewer Sinking Fund** had \$1,024 in revenues and \$10,353 in expenses. The fund balance is \$2,093,995.
- The **Operating Reserve Fund** had \$1,042 in revenues and no expenses. The fund balance is \$2,483,577.
- The **Events Fund** had \$4 in revenues and no expenses. The fund balance is \$45,019.

EAST GOSHEN TOWNSHIP
APRIL 2016 GENERAL FUND SUMMARY
April 30, 2016

Account Title	Annual Budget	Y-T-D Budget	Y-T-D Actual	Budget-Actual Variance
GENERAL FUND				
EMERGENCY SERVICES EXPENSES	4,345,656	1,971,632	1,780,693	(190,939)
PUBLIC WORKS EXPENSES	2,634,879	732,975	769,142	36,167
ADMINISTRATION EXPENSES	1,646,376	558,315	525,893	(32,422)
ZONING/PERMITS/CODES EXPENSES	538,192	175,445	208,410	32,965
PARK AND RECREATION EXPENSES	531,450	133,694	212,595	78,901
TOTAL CORE FUNCTION EXPENSES	9,696,553	3,572,061	3,496,733	(75,328)
EMERGENCY SERVICES REVENUES	67,595	10,716	8,868	(1,848)
PUBLIC WORKS REVENUES	974,509	131,307	194,223	62,916
ADMINISTRATION REVENUES	325,020	95,162	117,596	22,434
ZONING/PERMITS/CODES REVENUES	242,150	59,457	99,529	40,072
PARK AND RECREATION REVENUES	152,878	33,734	30,090	(3,644)
TOTAL CORE FUNCTION REVENUES	1,762,152	330,376	450,306	119,930
NET EMERGENCY SERVICES EXPENSES	4,278,061	1,960,916	1,771,825	(189,091)
NET PUBLIC WORKS EXPENSES	1,660,370	601,668	574,919	(26,749)
NET ADMINISTRATION EXPENSES	1,321,356	463,153	408,298	(54,855)
NET ZONING/PERMITS/CODES EXPENSES	296,042	115,988	108,880	(7,108)
NET PARK AND RECREATION EXPENSES	378,572	99,960	182,505	82,545
CORE FUNCTION NET SUBTOTAL	7,934,401	3,241,685	3,046,427	(195,258)
DEBT - PRINCIPAL	498,001	0	0	0
DEBT - INTEREST	150,270	50,903	50,901	(2)
TOTAL DEBT	648,271	50,903	50,901	(2)
TOTAL CORE FUNCTION NET	8,582,672	3,292,588	3,097,328	(195,260)
NON-CORE FUNCTION REVENUE				
EARNED INCOME TAX	4,921,500	1,368,433	1,294,574	(73,859)
REAL ESTATE PROPERTY TAX	1,997,165	1,811,455	1,833,416	21,961
REAL ESTATE TRANSFER TAX	525,000	175,000	140,748	(34,252)
CABLE TV FRANCHISE TAX	467,747	116,936	117,266	330
LOCAL SERVICES TAX	320,000	87,139	99,176	12,037
OTHER INCOME	28,076	6,892	8,016	1,124
TOTAL NON CORE FUNCTION REVENUE	8,259,488	3,565,855	3,493,197	(72,658)
NET RESULT	(323,184)	273,267	395,869	122,602

SUMMARY OF FUNDS REPORT (AKA "JOE REPORT")

ALL FUNDS APRIL 2016

* NOTE: GENERAL FUND INCLUDES PASS-THROUGH ACCOUNTS

	GENERAL FUND*	LIQUID FUELS STATE FUND	SINKING FUND	TRANSPORT. FUND	SEWER OP. FUND	REFUSE FUND	SEWER SINK FUND	OPERATING RESERVE	EVENTS FUND	TOWNSHIP FUNDS	MUNICIPAL AUTHORITY
01/01/16 BEGINNING BALANCE	\$4,803,331	\$200	6,267,461	1,061,213	629,037	655,683	\$2,103,325	\$2,482,535	\$45,015	\$18,045,508	\$1,461,276
RECEIPTS											
310 TAXES	\$3,493,141	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,493,141	\$0
320 LICENSES & PERMITS	\$55,982	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$55,982	\$0
330 FINES & FORFEITS	\$8,868	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,868	\$0
340 INTERESTS & RENTS	\$42,820	\$97	\$25,563	\$798	\$223	\$319	\$1,024	\$1,042	\$4	\$71,890	\$431
350 INTERGOVERNMENTAL	\$0	\$503,447	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503,447	\$0
360 CHARGES FOR SERVICES	\$158,405	\$0	\$0	\$0	\$1,116,107	\$376,355	\$0	\$0	\$0	\$1,650,867	\$12,998
380 MISCELLANEOUS REVENUES	\$395,034	\$0	\$0	\$1,189	\$0	\$0	\$0	\$0	\$0	\$396,223	\$423
390 OTHER FINANCING SOURCES	\$113,437	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$113,437	\$25,000
	\$4,267,687	\$503,544	\$25,563	\$1,987	\$1,116,329	\$376,674	\$1,024	\$1,042	\$4	\$6,293,854	\$38,852
EXPENDITURES											
400 GENERAL GOVERNMENT	\$397,005	\$0	\$9,381	\$0	\$0	\$0	\$10,353	\$0	\$0	\$416,740	\$0
410 PUBLIC SAFETY	\$2,335,123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,335,123	\$0
420 HEALTH & WELFARE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
426 SANITATION & REFUSE	\$37,218	\$0	\$0	\$0	\$781,083	\$326,204	\$0	\$0	\$0	\$1,144,506	\$70,897
430 HIGHWAYS,ROADS & STREETS	\$654,574	\$0	\$16,788	\$0	\$0	\$0	\$0	\$0	\$0	\$671,362	\$0
450 CULTURE-RECREATION	\$196,244	\$0	\$124,568	\$0	\$0	\$0	\$0	\$0	\$0	\$320,811	\$0
460 CONSERVATION & DEVELOPMENT	\$593	\$0	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,593	\$0
470 DEBT SERVICE	\$70,649	\$0	\$0	\$0	\$127,570	\$0	\$0	\$0	\$0	\$198,218	\$0
480 MISCELLANEOUS EXPENDITURES	\$261,981	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$261,981	\$0
490 OTHER FINANCING USES	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0
	\$3,953,388	\$0	\$151,737	\$0	\$933,653	\$326,204	\$10,353	\$0	\$0	\$5,375,335	\$70,897
2016 SURPLUS/(DEFICIT)*	\$314,299	\$503,544	(\$126,174)	\$1,987	\$182,676	\$50,470	(\$9,329)	\$1,042	\$4	\$918,519	(\$32,045)
CLEARING ACCOUNT ADJUSTMENTS	(\$2,596)										
4/30/2016 ENDING BALANCE	\$5,115,034	\$503,744	\$6,141,287	\$1,063,200	\$811,713	\$706,153	\$2,093,995	\$2,483,577	\$45,019	\$18,963,722	\$1,429,231

Memo
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380
Voice (610) 692-7171
Fax (610) 692-8950
E-mail rsmith@eastgoshen.org

Date: May 10, 2016
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: 2015 Chester County Multi-Jurisdictional Hazard Mitigation Plan

In January of this year FEMA approved the updated the County-wide Hazard Mitigation plan. Now that the plan has been finalized, each of the municipalities in the County needs to re-adopt the Plan. The Board adopted the 2010 version of the Plan in April 2010.

The resolution to adopt the 2015 Plan is attached.

EAST GOSHEN TOWNSHIP
COMMONWEALTH OF PENNSYLVANIA

RESOLUTION 2016 - 103

A RESOLUTION ADOPTING THE 2015 MULTI-JURISDICTIONAL
HAZARD MITIGATION PLAN OF THE COUNTY OF CHESTER.

WHEREAS, the Disaster Mitigation Act of 2000 (DMA 2000) (P.L. 106-390) provides an opportunity for states, Tribes and local governments to take a new and revitalized approach to mitigation planning; and,

WHEREAS, DMA 2000 amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Act) by repealing the previous mitigation planning provisions (Section 409) and replacing them with a new set of mitigation plan requirements (Section 322). This new section emphasizes the need for state, Tribal, and local entities to closely coordinate mitigation planning and implementation efforts; and,

WHEREAS, Hazard Mitigation Grant Program funding available after a Presidential Disaster Declaration shall only be made to municipalities having a Federal Emergency Management Agency approved Pre-Disaster Mitigation Plan in place prior to the disaster declaration,

BE IT RESOLVED that the Board of Supervisors of East Goshen Township hereby adopts the 2015 Chester County Multi-Jurisdictional Hazard Mitigation Plan.

ADOPTED this 12th day of May, 2016.

ATTEST:

**EAST GOSHEN TOWNSHIP
BOARD OF SUPERVISORS**

Secretary

Memo

East Goshen Township

Date: May 12, 2016
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: East Boot Road Bridge

The completion date for the East Boot Road is Friday, June 3, 2016.

I contacted the contractor on Wednesday and he advised the construction could be completed by Friday May 27th, assuming the weather cooperates.

The question is "Does the Board want to have some type of ribbon cutting event for the Bridge opening?"

To that end we could just open the bridge on whatever day the work is completed, and schedule an official ribbon cutting at a later date.

The alternative would be to have the official ribbon cutting the day we actually open the bridge to traffic.

May 12, 2016

**TREASURER'S REPORT
2016 RECEIPTS AND BILLS**

GENERAL FUND

Real Estate Tax	\$14,485.93
Earned Income Tax	\$754,234.26
Local Service Tax	\$49,242.46
Transfer Tax	\$35,163.67
<i>General Fund Interest Earned</i>	\$432.33
Total Other Revenue	\$35,241.31
Total Receipts:	<u>\$888,799.96</u>

Accounts Payable	\$459,136.61
<u>Electronic Pmts:</u>	
Credit Card	\$0.00
Postage	\$0.00
Debt Service	\$13,099.73
Payroll	\$96,961.16
Total Expenditures:	<u>\$569,197.50</u>

STATE LIQUID FUELS FUND

Receipts	\$0.00
<i>Interest Earned</i>	\$60.03
Total State Liquid Fuels:	<u>\$60.03</u>

Expenditures:	<u>\$0.00</u>
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SINKING FUND

Receipts	\$23,650.00
<i>Interest Earned</i>	\$510.00
Total Sinking Fund:	<u>\$24,160.00</u>

Accounts Payable	\$154,760.40
<i>Credit Card</i>	\$0.00
Total Expenditures:	<u>\$154,760.40</u>

TRANSPORTATION FUND

Receipts	\$396.25
<i>Interest Earned</i>	\$196.55
Total Sinking Fund:	<u>\$592.80</u>

Expenditures:	<u>\$0.00</u>
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SEWER OPERATING FUND

Receipts	\$199,205.97
<i>Interest Earned</i>	\$59.36
Total Sewer:	<u>\$199,265.33</u>

Accounts Payable	\$209,809.52
<i>Debt Service</i>	\$31,892.43
<i>Credit Card</i>	\$0.00
Total Expenditures:	<u>\$241,701.95</u>

REFUSE FUND

Receipts	\$59,259.39
<i>Interest Earned</i>	\$77.80
Total Refuse:	<u>\$59,337.19</u>

Expenditures:	<u>\$72,227.92</u>
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SEWER SINKING FUND

Receipts	\$0.00
<i>Interest Earned</i>	\$257.47
Total Sewer Sinking Fund:	<u>\$257.47</u>

Expenditures:	<u>\$0.00</u>
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OPERATING RESERVE FUND

Receipts	\$0.00
<i>Interest Earned</i>	\$258.41
Total Operating Reserve Fund:	<u>\$258.41</u>

Expenditures:	<u>\$0.00</u>
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Events Fund

Receipts	0.00
<i>Interest Earned</i>	\$1.00
Total Events Fund:	<u>\$1.00</u>

Expenditures:	<u>\$0.00</u>
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**EAST GOSHEN TOWNSHIP
MEMORANDUM**

TO: BOARD OF SUPERVISORS
FROM: BRIAN MCCOOL
SUBJECT: PROPOSED PAYMENTS OF BILLS
DATE: 05-12-2016

Please accept the attached Treasurer's Report and Expenditure Register Report for consideration by the Board of Supervisors. I recommend the Treasurer's Report and each register item be approved for payment.

General Fund expenses include the May contribution to WEGO for \$270,920, the annual contribution to the Malvern Fire Company in the amount of \$12,931 and \$49,867 for asphalt. EIT revenue receipts are well above average due to the tax deadline being April 18th and 1st quarter 2016 remittances.

Sinking Fund expenses include \$154,760 for the E. Boot Road bridge repair. Sinking Fund revenue includes \$23,650 for the sale of the 2005 F550 truck.

Sewer expenses include \$174,693 to West Goshen Township for 1st quarter operations and maintenance costs and 2015 capital additions, and reflects a credit of \$32,124.55 for overpayment for operations and maintenance costs at Chester Creek STP in 2015.

Please advise if the Board decides to make any changes or if the reports are acceptable as drafted.

EAST GOSHEN TOWNSHIP
MONTHLY DEBT PAYMENT BREAKDOWN
May 25, 2016

GENERAL FUND:

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$9,751.38	\$0	Multi purpose 9 projects	\$5,500,000	\$2,715,000	2023
\$2,973.95	\$0	Applebrook Park	\$3,000,000	\$879,000	2019
\$374.40	\$0	Spray Irrigation	\$287,000	\$108,000	2021

SEWER FUND:

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$996.40	\$0	Sewer Operations Munic Authority	\$1,128,000	\$282,000	2018
\$25,014.00	\$0	RCSTP Expansion	\$9,500,000	\$7,580,000	2032
\$5,882.03	\$0	Diversion Projects	\$2,500,000	\$2,315,000	2033

Report Date 05/02/16

Expenditures Register
GL-1605-52547

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MARP05 run by BARBARA 11 : 55 AM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
1471				WESTTOWN-EAST GOSHEN POLICE						
	47224	1	01410 5300	POLICE GEN.EXPENSE	050116	05/02/16	05/01/16	05/02/16	11200 p	270,919.63
				MAY 2016 CONTRIBUTION						
										270,919.63
										270,919.63
										1 Prepays, totaling 270,919.63
										0 Printed, totaling 0.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	270,919.63	GENERAL FUND
		270,919.63	

PERIOD SUMMARY

Period	Amount	
1605	270,919.63	
		270,919.63

Report Date 04/28/16

Expenditures Register
GL-1604-52520

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MARP05 run by BARBARA 11 : 28 AM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
815				MALVERN FIRE COMPANY						
	47223	1	01411 5000	CONTRIB. TO VOL. FIRE CO. 2016 ANNUAL CONTRIBUTION	041116	04/28/16		04/28/16		12,931.00
										12,931.00
										12,931.00
										0 Printed, totaling 12,931.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	12,931.00	GENERAL FUND
		12,931.00	

PERIOD SUMMARY

Period	Amount	
1604	12,931.00	
		12,931.00

Report Date 05/05/16

Expenditures Register
GL-1605-52628

MARP05 run by BARBARA 10 : 56 AM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
67	47228	1	01452 3505	APPLEBROOK GOLF CLUB GOLF DAY - APPLEBROOK GOLF MAY 9 4 GOLFERS W/CADDIES	050516	05/05/16		05/05/16		520.00
										520.00
										520.00
										520.00
0 Printed, totaling										520.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	520.00	GENERAL FUND
		520.00	

PERIOD SUMMARY

Period	Amount
1605	520.00
	520.00

Report Date 05/10/16

Expenditures Register
GL-1605-52688

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MARP05 run by BARBARA 2 : 55 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01	GENERAL FUND									
2226	47232	1	01401 3400	21ST CENT.MEDIA-PHILLY #884433 ADVERTISING - PRINTING NOTICE - PERMIT COORDINATOR	973982	05/10/16		05/10/16		362.80
										362.80
6	47233	1	01409 3740	ABC PAPER & CHEMICAL INC TWP. BLDG. - MAINT & REPAIRS CARPET SPOT CLEANER & C-FOLD TOWELS	070808	05/10/16		05/10/16		40.40
										40.40
68	47239	1	01401 3120	AMS APPLIED MICRO SYSTEMS LTD. CONSULTING SERVICES APRIL 2016	62121	05/10/16		05/10/16		1,097.00
	47239	2	01414 5001	ZONING IT CONSULTING APRIL 2016 - GEO PLAN	62121	05/10/16		05/10/16		28.00
	47240	1	01436 3000	STORMWATER MGMT.EXPENSE MS4 REDESIGN STORM WATER MGMT.SYSTEM	62096	05/10/16		05/10/16		595.00
										1,720.00
2713	47241	1	01454 3708	ANDERSON, WARD BUTTERFLY GARDEN INSTALL SIGN FOR BUTTERFLY GARDEN	050616	05/10/16		05/10/16		830.00
										830.00
1657	47242	1	01409 3600	AQUA PA TWP. BLDG. - FUEL, LIGHT, WATER 000309828 0309828 3/21-4/20/16 TB	042216 TB	05/10/16		05/10/16		129.90
	47243	1	01409 3600	TWP. BLDG. - FUEL, LIGHT, WATER 000309820 0309820 3/21-4/20/16 FR	042216 FR	05/10/16		05/10/16		192.00
	47244	1	01409 3605	PW BLDG - FUEL,LIGHT,SEWER & WATER 000496917 0309798 3/21-4/20/16 PW	042216 PW	05/10/16		05/10/16		216.26
	47245	1	01409 3600	TWP. BLDG. - FUEL, LIGHT, WATER 000309801 0309801 3/24-4/25/16 BS	042716 BS	05/10/16		05/10/16		16.00
										554.16
102	47252	1	01401 3120	B&D COMPUTER SOLUTIONS CONSULTING SERVICES APRIL 2016	00003036	05/10/16		05/10/16		2,000.00
										2,000.00

Report Date 05/10/16

Expenditures Register
GL-1605-52688

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MARP05 run by BARBARA 2 : 55 PM

Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
119	47253	1	01401 3210	BEE.NET INTERNET SERVICES COMMUNICATION EXPENSE MAY 2016 - BEE MAIL ACCOUNTS	201605006	05/10/16		05/10/16		315.00
										315.00
1198	47255	1	01410 5400	BRANDYWINE VALLEY SPCA S.P.C.A. CONTRACT STRAY ANIMAL RECV'D/PICKUP & ANIMAL CONTROL ACTIVITY - APRIL 2016	819	05/10/16		05/10/16		680.00
										680.00
2675	47258	1	01409 3740	CANDLESTICK COMMUNICATIONS TWP. BLDG. - MAINT & REPAIRS ALARM SYSTEM REPAIR	T1604211130	05/10/16		05/10/16		90.00
										90.00
2085	47259	1	01462 2490	CARMODY, ELLEN MATERIALS & SUPPLIES CHILDREN'S TOYS	042016	05/10/16		05/10/16		17.44
										17.44
235	47260	1	01401 3000	CHESTER COUNTY CONSORTIUM GENERAL EXPENSE 2016 MEMBERSHIP DUES	050316	05/10/16		05/10/16		250.00
										250.00
3488	47261	1	01409 3740	CINTAS CORPORATION #287 TWP. BLDG. - MAINT & REPAIRS WEEK END 4/27/16 CLEAN MATS	287549192	05/10/16		05/10/16		57.50
	47261	2	01487 1910	UNIFORMS WEEK END 4/27/16 CLEAN UNIFORMS	287549192	05/10/16		05/10/16		261.67
	47262	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS WEEK END 5/04/16 CLEAN MATS	287552575	05/10/16		05/10/16		57.50
	47262	2	01487 1910	UNIFORMS WEEK END 5/04/16 CLEAN UNIFORMS	287552575	05/10/16		05/10/16		261.67
										638.34
296	47264	1	01401 3210	COMCAST 8499-10-109-0028306 COMMUNICATION EXPENSE 0028306 MAY 2016	042016	05/10/16		05/10/16		70.00
										70.00

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317				CONTRACTOR'S CHOICE						
	47265	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS INVERTED WHITE PAINT	00200313	05/10/16		05/10/16		110.63
	47266	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS APPLICATOR WAND - PAINT, DRAINAGE FABRIC, WOODCUTTER BAR & CHAIN OIL	00200734	05/10/16		05/10/16		312.07
	47267	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS EROSION BLANKETS	00200790	05/10/16		05/10/16		230.58
										653.28
3613				DELAWARE VALLEY HEALTH TRUST						
	47268	1	01486 1560	HEALTH, ACCID. & LIFE MAY 2016 MEDICAL & RX	11291	05/10/16		05/10/16		34,640.20
	47268	2	01213 1000	DENTAL INSURANCE W/H MAY 2016 DENTAL	11291	05/10/16		05/10/16		946.96
										35,587.16
418				EAGLE POWER AND EQUIPMENT						
	47270	1	01430 2330	VEHICLE MAINT AND REPAIR BLADE & CHAIN BAR - BRUSH MOWER	T446425	05/10/16		05/10/16		177.50
										177.50
430				EAST GOSHEN TWP - SEWER						
	47271	1	01409 3600	TWP. BLDG. - FUEL, LIGHT, WATER QTR.2 2016 SEWER - TWP.	040116-TWP 5735	05/10/16		05/10/16		253.52
	47272	1	01409 3605	PW BLDG - FUEL, LIGHT, SEWER & WATER QTR.2 2016 SEWER - PW	040116-PW 2575	05/10/16		05/10/16		270.28
										523.80
439				EDWARDS AUTOMOTIVE REPAIR						
	47274	1	01430 2330	VEHICLE MAINT AND REPAIR PA EMISSION INSPECT. - FORD EXPLORER	5536	05/10/16		05/10/16		50.00
										50.00
2555				FASTENAL						
	47275	1	01430 2330	VEHICLE MAINT AND REPAIR CLEVIS PINS	PAMAV21336	05/10/16		05/10/16		1.56
										1.56

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473				FASTSIGNS						
	47276	1	01401 2100	MATERIALS & SUPPLIES ENGRAVED NAME PLATES - ZONING BOARD	368-42261	05/10/16		05/10/16		45.59
										45.59
489				FISHER & SON COMPANY INC						
	47277	1	01454 3710	LANDSCAPING 50LB FESCUE SEED, WILDFLOWER SHADE MIX & 150 LBS GOAL SEED MIX	0000159670-IN	05/10/16		05/10/16		650.00
	47278	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 5 50LB BAGS COMMERCIAL SEED MIX	0000160074-IN	05/10/16		05/10/16		460.00
										1,110.00
497				FLOTRAN PNEU-DRAULICS INC						
	47279	1	01430 2330	VEHICLE MAINT AND REPAIR HOSE ASSEMBLY	H75505-001	05/10/16		05/10/16		229.42
										229.42
510				FRAMES POWER EQUIPMENT & MULCH						
	47280	1	01454 3710	LANDSCAPING PREMIUM BARK MULCH	7561	05/10/16		05/10/16		296.00
										296.00
1975				FUTURELINE						
	47281	1	01430 2330	VEHICLE MAINT AND REPAIR REPLACE SEAT CUSHION COVER VEH.#28	3955	05/10/16		05/10/16		210.00
										210.00
546				GLASGOW INC.						
	47283	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 90.95 TONS 9.5,WRG,H,15% ASPHALT	485121	05/10/16		05/10/16		4,238.27
										4,238.27
553				GORDON, MARK A.						
	47284	1	01401 3300	AUTO ALLOWANCE 142 MILES @.54 - PA FPM COURSE	042916	05/10/16		05/10/16		76.68
	47285	1	01401 3000	GENERAL EXPENSE TOLLS & CAR WASH (TWP.CAR - POLEN & BUGS) - PSATS CONVENTION	042916-2	05/10/16		05/10/16		25.20
	47286	1	01401 3000	GENERAL EXPENSE PARKING & TOLLS - DVRPC MEETING	042916-3	05/10/16		05/10/16		21.00
										122.88

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01		GENERAL FUND								
2631				GRAPHIC IMPRESSIONS OF AMERICA INC.						
	47287	1	01401 2110	STATIONERY	16-6162	05/10/16		05/10/16		75.00
				BUSINESS CARDS - G.THOMPSON						
	47288	1	01413 3000	GENERAL EXPENSE	16-6202	05/10/16		05/10/16		320.00
				RE-OCCUPANCY INSPECT. & FIELD REPTS						
-----										395.00
3131				GREAT AMERICA FINANCIAL SERVICES						
	47289	1	01401 3840	RENTAL OF EQUIP. -OFFICE	18648595	05/10/16		05/10/16		305.00
				MAY 2016 - LANIER MP C5503 COPIER						
-----										305.00
569				GREAT VALLEY LOCKSHOP						
	47290	1	01409 3840	DISTRICT COURT EXPENSES	2016001056	05/10/16		05/10/16		107.50
				REPAIR DIST.COURT EMPLOYEE ENTRANCE						
	47291	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS	CO20160545	05/10/16		05/10/16		20.00
				2 MASTER KEYS						
-----										127.50
2717				HIGGINS & SONS INC., CHARLES A.						
	47292	1	01433 2500	MAINT. REPAIRS.TRAFF.SIG.	41744	05/10/16		05/10/16		5,447.00
				TRAF.LIGHT MAINT.-INSTALL TRAFICAMS						
				ROSEHILL APTS.& W.CHESTER PIKE						
-----										5,447.00
627				HIGHWAY MATERIALS INC.						
	47293	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043273MB	05/10/16		05/10/16		8,576.58
				180.75 TONS 9.5H .3<3 ASPHALT						
	47294	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043257MB	05/10/16		05/10/16		12,967.61
				273.29 TONS 9.5H .3<3 ASPHALT						
	47295	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043242MB	05/10/16		05/10/16		3,273.10
				68.98 TONS 9.5H .3<3 ASPHLT CLOCKTW						
	47295	2	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043242MB	05/10/16		05/10/16		982.23
				23.03 TONS 19B .3<3 ASPHLT CLOCKTW						
-----										25,799.52
641				HOOBER INC.						
	47296	1	01430 2330	VEHICLE MAINT AND REPAIR	SI137823	05/10/16		05/10/16		159.60
				BACKREST						
-----										159.60

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719	47297	1	01430 2330	KEEN COMPRESSED GAS COMPANY VEHICLE MAINT AND REPAIR FLINT LIGHTER KIT - FOR PAVER	30236005	05/10/16		05/10/16		6.70
										6.70
1631	47298	1	01452 3020	KRAPF'S COACHES TRIPS NYC TRIP 5/21/16 DEPOSIT	14447-DEP	05/10/16		05/10/16		100.00
										100.00
765	47300	1	01434 3610	LENNI ELECTRIC CORPORATION STREET LIGHTING REPLACE STREET LIGHT FIXTURE PAOLI & TALMADGE	160426	05/10/16		05/10/16		640.00
										640.00
1030	47299	1	01401 3210	LEVEL 3 COMMUNICATION EXPENSE MISC. CHARGES 3/20-4/13/16	106200815	05/10/16		05/10/16		31.29
										31.29
2861	47301	1	01430 2330	LITTLE INC., ROBERT E. VEHICLE MAINT AND REPAIR BEZEL, SCREEN, AIR FILTERS, PIN & WASHER	03-391954	05/10/16		05/10/16		118.17
47302	1	01430 2330	VEHICLE MAINT AND REPAIR RIVETS	03-396601	05/10/16		05/10/16			19.84
										138.01
787	47303	1	01409 3740	LOW-RISE ELEVATOR CO. INC TWP. BLDG. - MAINT & REPAIRS BASIC MAINTENANCE - MAY 2016	66468	05/10/16		05/10/16		40.00
										40.00
2225	47304	1	01401 3840	MAIL FINANCE RENTAL OF EQUIP. -OFFICE POSTAGE MACHINE RENTAL 3/5-6/4/16	H5916274	05/10/16		05/10/16		522.00
										522.00

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2077				MALVERN GLASS INC						
	47305	1	01454 3740	EQUIPMENT MAINT. & REPAIR ACRYLIC GLASS PIECES	13414	05/10/16		05/10/16		272.70
										272.70
3068				MILLER CONCRETE PRODUCTS INC.,A.C.						
	47306	1	01436 2450	STORMWATER MATERIALS & SUPPLIES 2x4x30 BASE	69457	05/10/16		05/10/16		350.00
										350.00
1641				NAPA AUTO PARTS						
	47307	1	01430 2330	VEHICLE MAINT AND REPAIR BATTERY & PROTECTORS	2-660399	05/10/16		05/10/16		94.17
	47308	1	01430 2330	VEHICLE MAINT AND REPAIR CHEMICAL CEMENT	2-661994	05/10/16		05/10/16		16.49
										110.66
967				O'MALLEY TOPSOIL LLC						
	47317	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 6 YARDS SCREENED TOPSOIL	2643	05/10/16		05/10/16		108.00
	47317	2	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS 12 YARDS SCREENED TOPSOIL	2646	05/10/16		05/10/16		216.00
										324.00
1554				OFFICE DEPOT						
	47309	1	01401 2100	MATERIALS & SUPPLIES TONER & WIPES	835582404001	05/10/16		05/10/16		186.06
	47310	1	01401 2100	MATERIALS & SUPPLIES HP TONER CYAN	835787818001	05/10/16		05/10/16		67.52
	47311	1	01401 2100	MATERIALS & SUPPLIES SPIRAL NOTEBOOK	835787866001	05/10/16		05/10/16		3.99
	47312	1	01401 2100	MATERIALS & SUPPLIES INK CARTRIDGES	836171624001	05/10/16		05/10/16		123.18
	47313	1	01401 2100	MATERIALS & SUPPLIES NOTEBOOK W/DIECUT	836171681001	05/10/16		05/10/16		3.99
	47314	1	01401 2100	MATERIALS & SUPPLIES HP TONER - YELLOW	834469261001	05/10/16		05/10/16		67.52
	47315	1	01401 2100	MATERIALS & SUPPLIES WHILE-U-OUT PADS, MAGNETS & MOUSE	834739920001	05/10/16		05/10/16		27.44
	47316	1	01401 2100	MATERIALS & SUPPLIES 3PK TONER	834739973001	05/10/16		05/10/16		180.57
										660.27

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2352				PECO - 99193-01400						
	47322	1	01434 3610	STREET LIGHTING	050216	05/10/16		05/10/16		808.80
				99193-01400 3/28-4/26/16						
	47322	2	01433 2470	UTILITIES - TRAFFIC LIGHTS	050216	05/10/16		05/10/16		698.44
				99193-01400 3/28-4/26/16						
-----										1,507.24
3153				PECO - 01360-05046						
	47320	1	01409 7505	BOOT & PAOLI LED SIGN	050216	05/10/16		05/10/16		45.73
				01360-05046 3/30-4/28/16 LED BOOT						
-----										45.73
1555				PECO - 45168-01609						
	47321	1	01409 3840	DISTRICT COURT EXPENSES	042716	05/10/16		05/10/16		870.53
				45168-01609 3/25-4/23/16 GAS						
	47321	2	01409 3605	PW BLDG - FUEL, LIGHT, SEWER & WATER	042716	05/10/16		05/10/16		746.67
				45168-01609 3/25-4/23/16 ELECTRIC						
-----										1,617.20
2592				PECO - 45951-30004						
	47318	1	01454 3600	UTILITIES	042216	05/10/16		05/10/16		151.39
				45951-30004 3/22-4/20/16 RESTROOMS						
-----										151.39
2591				PECO - 59500-35010						
	47319	1	01454 3600	UTILITIES	042716	05/10/16		05/10/16		36.27
				59500-35010 3/25-4/25/16 POND PUMP						
-----										36.27
1785				PENNSYLVANIA STATE POLICE						
	47323	1	01452 2025	SUMMER PROGRAM GENERAL EXPENSE	050316	05/10/16		05/10/16		8.00
				BACKGRND CHECK R16056970 CULBERTSON						
-----										8.00
1065				PETTY CASH						
	47324	1	01401 3000	GENERAL EXPENSE	050216	05/10/16		05/10/16		140.00
				ATHENA'S PIZZA - MEETING, GIANT -						
				PAPER PRODUCTS & PLANNING SESSION						
				REFRESHMENTS						
	47324	2	01401 3300	AUTO ALLOWANCE	050216	05/10/16		05/10/16		68.81
				MILEAGE REIMBURSEMENT - TIA 3 TRIPS						
	47324	3	01452 3601	MISCELLANEOUS EVENTS	050216	05/10/16		05/10/16		50.00
				EGT. CLEAN-UP DAY DONUTS						
	47324	4	01437 2460	GENERAL EXPENSE - SHOP	050216	05/10/16		05/10/16		12.66
				CVS - DISTILLED WATER, GIANT- GEESE						

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01	GENERAL FUND									
1065	47324	5	01487 4600	PETTY CASH TRAINING & SEMINARS-EMPLY MIKE ENNIS TRAINING EXPENSES	050216	05/10/16		05/10/16		61.36
										332.83
1087	47326	1	01438 2450	PIPE XPRESS INC. MATERIALS & SUPPLIES-HIGHWAYS PINK MARKING PAINT	78971	05/10/16		05/10/16		52.92
										52.92
1876	47327	1	01438 3840	RANSOME RENTAL COMPANY LP EQUIPMENT RENTAL EXCAVATOR RENTAL 3/28-4/7/16	K18803-01	05/10/16		05/10/16		3,572.20
47328	1	01438 3840	EQUIPMENT RENTAL SWING BOOM, COUPLER & BUCKET RENTAL 4/14-4/15/16	K18945-01	05/10/16		05/10/16			610.00
										4,182.20
3683	47329	1	01362 4100	RHOADS, LANCE BUILDING PERMITS REFUND - RE: PERMIT OVERCHARGE	042716	05/10/16		05/10/16		100.00
										100.00
1193	47330	1	01401 2100	RUBINSTEIN'S MATERIALS & SUPPLIES MATERIALS FOR HIBBERD LANE	2142237-0	05/10/16		05/10/16		37.94
										37.94
1896	47331	1	01409 3745	SPRINGER BROTHERS INC PW BUILDING - MAINT REPAIRS POWER WASH & PAINT SIGN & PUMP ROOM WALL RE: LEAKS	15591	05/10/16		05/10/16		2,790.00
47332	1	01409 3745	PW BUILDING - MAINT REPAIRS INSTALL NEW ROOF DRAIN	15613	05/10/16		05/10/16			1,325.00
										4,115.00
3604	47333	1	01430 2320	SUPERIOR PLUS ENERGY SERVICES VEHICLE OPERATION - FUEL 414.5 GALLONS DIESEL	439080	05/10/16		05/10/16		613.13
										613.13

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03		SINKING FUND								
3670				DESCCO DESIGN & CONTSTRUCTION INC.						
	47269	1	03459 7450	CAPITAL - E. BOOT RD BRIDGE	APP.#2	05/10/16		05/10/16		154,760.40
				APP.2 - EAST BOOT RD. BRIDGE						
										154,760.40

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05				SEWER OPERATING						
40				ALLIED CONTROL SERVICES						
	47235	1	05420 3700	C.C. METERS-MAINT.& REPRS. BLUE & PURPLE CHART PENS, CHART RECORDER	309183	05/10/16		05/10/16		385.82
										385.82
2918				ALS ENVIRONMENTAL						
	47236	1	05422 4500	R.C. STP-CONTRACTED SERV. LAB TESTING RCSTP - 4/12-4/26/16	40-2055049	05/10/16		05/10/16		188.00
	47237	1	05422 4500	R.C. STP-CONTRACTED SERV. LAB TESTING RCSTP - 4/19-4/21/16	40-2055996	05/10/16		05/10/16		171.00
	47238	1	05422 4500	R.C. STP-CONTRACTED SERV. LAB TESTING RCSTP - 4/5-4/7/16	40-2049702	05/10/16		05/10/16		126.00
										485.00
1658				AQUA PA						
	47247	1	05420 3602	C.C. COLLECTION -UTILITIES 000363541 0357724 3/21-4/20/16 BK	042216 BK	05/10/16		05/10/16		16.00
	47248	1	05420 3602	C.C. COLLECTION -UTILITIES 000309826 0309826 3/24-4/25/16 TH	042716 TH	05/10/16		05/10/16		20.00
	47249	1	05420 3602	C.C. COLLECTION -UTILITIES 000305003 0305003 3/28-4/26/16 WW	042816 WW	05/10/16		05/10/16		27.50
	47250	1	05422 3601	R.C. COLLEC.-UTILITIES 001533998 1087842 3/24-4/25/16 TWN	042716 TWN	05/10/16		05/10/16		54.70
	47251	1	05420 3602	C.C. COLLECTION -UTILITIES 000300141 0300141 3/21-4/20/16 GH	042216 GH	05/10/16		05/10/16		16.00
										134.20
151				BLOENSKI DISPOSAL CO, CHARLES						
	47254	1	05422 4502	R.C. SLUDGE-LAND CHESTER SWITCH 20 YARDS WITH LINER 4/18	7889	05/10/16		05/10/16		181.00
										181.00
241				C.C. SOLID WASTE AUTHORITY						
	47256	2	05422 4502	R.C. SLUDGE-LAND CHESTER WEEK 4/16/16 - 4/22/16	43621	05/10/16		05/10/16		506.52
										506.52

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3642	47263	1	05422 3700	CINTAS FIRST AID & SAFETY R.C. STP-MAINT.& REPAIRS AEDS - RCSTP	9009134270	05/10/16		05/10/16		1,300.00
										1,300.00
1747	47273	1	05429 4520	EAST WHITELAND TOWNSHIP CONTR. SERV. MALVERN INSTITUTE 1ST QTR. 2016 - UTILITY PYMT.	042116	05/10/16		05/10/16		2,122.40
										2,122.40
1087	47325	1	05422 3700	PIPE XPRESS INC. R.C. STP-MAINT.& REPAIRS PVC PIPE,COUPLINGS, CEMENT & PRIMER	79216	05/10/16		05/10/16		227.43
										227.43
2914	47334	1	05422 4500	TOWLER, SCOTT A. R.C. STP-CONTRACTED SERV. SERVICES RE: RCSTP - APRIL 2016	16-040130-2	05/10/16		05/10/16		13,470.68
										13,470.68
3529	47338	1	05420 3601	VERIZON - MODEMS C.C. INTERCEPTOR-UTILITIES MARCH 26-APRIL 25, 2016 MODEMS	9764400918	05/10/16		05/10/16		80.32
										80.32
2773	47336	1	05422 3601	VERIZON - PW FIOS 0001-15 R.C. COLLEC.-UTILITIES 4/28/16 - 5/27/16 PW FIOS	042716-0001-15	05/10/16		05/10/16		89.99
										89.99
1431	47341	1	05420 3850	WEST GOSHEN TOWNSHIP C.C. WEST GOSHEN OPER/MAINT OPER.& MAINTENANCE 2015 BALANCE DUE	042516-2015	05/10/16		05/10/16		-32,124.55
	47342	1	05420 3850	C.C. WEST GOSHEN OPER/MAINT 1ST QTR.2016 OPERATIONS & MAINT.	042816	05/10/16		05/10/16		206,817.90
										174,693.35

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
06				REFUSE						
2762	47234	1	06427 4500	AJB A.J. BLOSENSKI INC. CONTRACTED SERV. RESIDENTIAL PICK-UP MAY 2016	65100114	05/10/16		05/10/16		56,396.70
										56,396.70
241	47256	1	06427 4502	C.C. SOLID WASTE AUTHORITY LANDFILL FEES WEEK 4/16/16 - 4/22/16	43621	05/10/16		05/10/16		4,774.77
	47257	1	06427 4502	LANDFILL FEES WEEK 4/25/16 - 4/29/16	43694	05/10/16		05/10/16		6,585.58
										11,360.35
										519,428.51
										0 Printed, totaling 519,428.51

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	103,234.35	GENERAL FUND
03	03	154,760.40	SINKING FUND
05	05	193,676.71	SEWER OPERATING
06	06	67,757.05	REFUSE
		519,428.51	

PERIOD SUMMARY

Period	Amount
1605	519,428.51
	519,428.51

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
594				HAMMOND & MCCLOSKEY INC.						
	47378	1	01409 3840	DISTRICT COURT EXPENSES	7710	05/11/16		05/11/16		320.51
				INSTALL COMMERCIAL TUB FAUCET						
	47379	1	01454 3740	EQUIPMENT MAINT. & REPAIR	7695	05/11/16		05/11/16		345.76
				REPAIR FLUSH VALVES-PARK LADIES RM.						
										666.27
598				HANSON AGGREGATES PENNSYLVANIA LLC						
	47380	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	2910956	05/11/16		05/11/16		269.66
				25.56 TONS SUBGRADE 2 - MORSTEIN						
										269.66
2401				HIGGINS, DOLORES						
	47381	1	01462 2492	GENERAL EXPENSE	051016	05/11/16		05/11/16		18.01
				CARD STOCK						
	47381	2	01462 2600	MINOR EQUIP. PURCHASE	051016	05/11/16		05/11/16		125.98
				TWO CANOPY TENTS						
	47381	3	01462 5000	EVENTS	051016	05/11/16		05/11/16		47.99
				DOLL MAKING MATERIALS						
										191.98
627				HIGHWAY MATERIALS INC.						
	47382	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043314MB	05/11/16		05/11/16		474.50
				10 TONS 9.5H .3<3 ASPHALT						
	47383	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043427MB	05/11/16		05/11/16		1,889.46
				39.82 TONS 9.5H .3<3 ASPHALT						
	47384	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	11043504MB	05/11/16		05/11/16		6,632.09
				139.77 TONS 9.5H .3<3 ASPHALT						
	47385	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	1639591MB	05/11/16		05/11/16		2,850.32
				60.70 TONS 9.5H .3<3 ASPHALT						
	47386	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	1639537MB	05/11/16		05/11/16		4,036.09
				85.06 TONS 9.5H .3<3 ASPHALT						
	47387	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	1639457MB	05/11/16		05/11/16		5,076.68
				106.99 TONS 9.5H .3<3 ASPHALT						
	47388	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	1639617MB	05/11/16		05/11/16		258.59
				6.53 TONS 19B .3<3 ASPHALT						
	47389	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS	1639607MB	05/11/16		05/11/16		2,849.85
				60.06 TONS 9.5H .3<3 ASPHALT						
										24,067.58
3297				HOWLEY, DAVIS JAMESON						
	47390	1	01452 3210	FARMERS MARKET EXPENSE	111	05/11/16		05/11/16		350.00
				COMMONWEALTH CHOIR PERFORMANCE 5/12						
										350.00

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
679				INTERCON TRUCK EQUIPMENT						
	47391	1	01430 2330	VEHICLE MAINT AND REPAIR WEATHERGUARD LATCH	1051350-IN	05/11/16		05/11/16		73.63
	47392	1	01430 2330	VEHICLE MAINT AND REPAIR JACKS	1051355-IN	05/11/16		05/11/16		92.00
										165.63
694				J&L BUILDING MATERIALS INC						
	47393	1	01454 3740	EQUIPMENT MAINT. & REPAIR LANDMRK RESAWN SHAKE, STARTER STRIP BROWN ALUM, UNDERLAYMENT	03705974	05/11/16		05/11/16		828.13
	47394	1	01454 3740	EQUIPMENT MAINT. & REPAIR LANDMARK & SHADOW RIDGE RESAWN SHAKE & ROOFING NAILS - HICKS PAV.	03706168	05/11/16		05/11/16		841.72
	47395	1	01454 3740	EQUIPMENT MAINT. & REPAIR NAILS, UNDERLAYMENT, RESAWN SHAKE, VENT COLLAR & STAPLES -OLD RESTROOM	03710899	05/11/16		05/11/16		1,200.03
										2,869.88
719				KEEN COMPRESSED GAS COMPANY						
	47396	1	01437 2460	GENERAL EXPENSE - SHOP VARIOUS GAS CYLINDERS	83087582	05/11/16		05/11/16		53.70
										53.70
725				KEYSTONE PRECISION INSTRUMENTS						
	47397	1	01437 2460	GENERAL EXPENSE - SHOP TRIMBLE VEH POWER GEO 6000	0153777-IN	05/11/16		05/11/16		61.71
										61.71
739				KNOX EQUIPMENT RENTALS INC.						
	47398	1	01438 3840	EQUIPMENT RENTAL TOWABLE MULCHER RENTAL 5/2/16	01-355525-02	05/11/16		05/11/16		121.00
										121.00
765				LENNI ELECTRIC CORPORATION						
	47400	1	01409 3840	DISTRICT COURT EXPENSES RETROFIT DIST.COURT CANOPY LIGHTS	160438	05/11/16		05/11/16		533.45
	47401	1	01409 3840	DISTRICT COURT EXPENSES REPAIR/REPLACE DIST.CT. WALL LIGHTS	160437	05/11/16		05/11/16		4,425.65
										4,959.10

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
787	47403	1	01409 3740	LOW-RISE ELEVATOR CO. INC TWP. BLDG. - MAINT & REPAIRS ELEVATOR PRESSURE TESTING	66297	05/11/16		05/11/16		482.50
										482.50
800	47404	1	01438 2455	MACANGA INC. MATER. & SUPPLY-RESURFAC. LABOR & HOT TAR - SEALING	042616	05/11/16		05/11/16		1,200.00
										1,200.00
1554	47405	1	01401 2100	OFFICE DEPOT MATERIALS & SUPPLIES HALOGEN BULBS	837294042001	05/11/16		05/11/16		15.98
47406	1	01401 2100		MATERIALS & SUPPLIES PENS & PRINTER INK	837294043001	05/11/16		05/11/16		55.67
47407	1	01401 2100		MATERIALS & SUPPLIES WALL CLOCK, RUBBERBND, HOOKS, FILE POCKETS	837939918001	05/11/16		05/11/16		160.56
47408	1	01401 2100		MATERIALS & SUPPLIES USB - 8GB THUMBDRIVES	837992934001	05/11/16		05/11/16		69.69
47409	1	01401 2100		MATERIALS & SUPPLIES HALOGEN BULBS	837294008001	05/11/16		05/11/16		8.38
										310.28
2593	47410	1	01454 3600	PECO - 18510-39089 UTILITIES 18510-39089 4/4-5/3/16 BOW TRE PUMP	050516	05/11/16		05/11/16		72.76
										72.76
1032	47411	1	01409 3600	PECO - 99193-01302 TWP. BLDG. - FUEL, LIGHT, WATER 99193-01302 3/28-4/29/16	050616	05/11/16		05/11/16		2,029.07
47411	2	01454 3600		UTILITIES 99193-01302 3/28-4/29/16	050616	05/11/16		05/11/16		260.06
										2,289.13
1005	47413	1	01438 3840	PENNSYLVANIA ONE CALL SYSTEM EQUIPMENT RENTAL MONTHLY ACTIVITY FEE - APRIL 2016	0000681236	05/11/16		05/11/16		43.91
										43.91

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
1876				RANSOME RENTAL COMPANY LP						
	47414	1	01438 3845	EQUIP. RENTAL -RESURFAC. ROLLER RENTAL 4/13-4/20/16	C11858-01	05/11/16		05/11/16		890.00
	47415	1	01438 3840	EQUIPMENT RENTAL SKID STEER & MILLING MACH. RENTAL 4/4/16	K18866-02	05/11/16		05/11/16		6,885.00
										7,775.00
2121				SHERWIN-WILLIAMS CO.						
	47416	1	01430 2330	VEHICLE MAINT AND REPAIR MINERAL SPIRITS - TACK COAT BUGGY	4128-0	05/11/16		05/11/16		141.80
										141.80
1783				STATE WORKERS INSURANCE FUND						
	47417	1	01411 6000	VOLUNTEER FIREFIGHTER WORKERS COMP INST.6 OF 11 POLICY# 05918452	042916	05/11/16		05/11/16		3,831.00
										3,831.00
1353				TRAVELERS						
	47418	1	01486 3500	INSURANCE COVERAGE -PREM. FIDUCIARY INSURANCE - 4/20/16	5398D3186-16	05/11/16		05/11/16		2,450.00
										2,450.00
1389				UNRUH TURNER BURKE FREES						
	47420	1	01404 3140	LEGAL - ADMIN PROF.SERVICE 3/24/16 HIBBERD LN.	136016	05/11/16		05/11/16		459.00
										459.00

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount

05	SEWER OPERATING									
3140	ACE DISPOSAL CORP									
47358	1	05422	3700	R.C. STP-MAINT.& REPAIRS PORTABLE TOILETS STAND BY 4/19/16	103181	05/11/16		05/11/16		250.00
47359	1	05422	3700	R.C. STP-MAINT.& REPAIRS PORTABLE TOILETS STAND BY 4/5-4/26	103180	05/11/16		05/11/16		750.00
-----										1,000.00
40	ALLIED CONTROL SERVICES									
47360	1	05420	3700	C.C. METERS-MAINT.& REPRS. ON-SITE MODEM SERVICE	309209	05/11/16		05/11/16		246.32
-----										246.32
356	DECKMAN ELECTRIC									
47373	1	05422	3700	R.C. STP-MAINT.& REPAIRS REBUILT SLUDGE PUMP	90811	05/11/16		05/11/16		3,580.00
-----										3,580.00
765	LENNI ELECTRIC CORPORATION									
47399	1	05422	3700	R.C. STP-MAINT.& REPAIRS RIDLEY CREEK PLANT PUMPS REPAIR	160445	05/11/16		05/11/16		261.00
47402	1	05422	3700	R.C. STP-MAINT.& REPAIRS REMOVE TWO HEATERS RCSTP	160439	05/11/16		05/11/16		846.00
-----										1,107.00
1031	PECO - 99193-01204									
47412	1	05420	3602	C.C. COLLECTION -UTILITIES 99193-01204 3/28-4/29/16	050616	05/11/16		05/11/16		587.99
47412	2	05420	3600	C.C. METERS - UTILITIES 99193-01204 3/28-4/29/16	050616	05/11/16		05/11/16		10.26
47412	3	05422	3601	R.C. COLLEC.-UTILITIES 99193-01204 3/28-4/29/16	050616	05/11/16		05/11/16		119.32
47412	4	05422	3600	R.C STP -UTILITIES 99193-01204 3/28-4/29/16	050616	05/11/16		05/11/16		9,394.09
-----										10,111.66
1005	PENNSYLVANIA ONE CALL SYSTEM									
47413	2	05422	3701	R.C. COLLEC.-MAINT.& REPR MONTHLY ACTIVITY FEE - APRIL 2016	0000681236	05/11/16		05/11/16		43.91
47413	3	05422	3702	R.C. COLLECTION-MAINT. & REP I&I MONTHLY ACTIVITY FEE - APRIL 2016	0000681236	05/11/16		05/11/16		43.92
-----										87.83

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
06				REFUSE						
138	47365	1	06427 4504	BFI-KING OF PRUSSIA RECYCLERY RECYCLING FEES APRIL 2016 - RECYCLING FEES	4586-000054680	05/11/16		05/11/16		161.67
										161.67
241	47368	1	06427 4502	C.C. SOLID WASTE AUTHORITY LANDFILL FEES WEEK 5/2/16 - 5/7/16	43772	05/11/16		05/11/16		4,309.20
										4,309.20
										92,135.31
										0 Printed, totaling 92,135.31

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	71,531.63	GENERAL FUND
05	05	16,132.81	SEWER OPERATING
06	06	4,470.87	REFUSE
		92,135.31	

PERIOD SUMMARY

Period	Amount
1605	92,135.31
	92,135.31

MAY - 7 2016

Commerce-Connection (C-C) 2016 Status Report

The business constituencies have been advised by our C-C News Bulletin sent early February, by both email distribution to the business leaders as well as a follow-up 1st Class mailing from the Twp, of the changes to the Commerce position weeks earlier. This C-C Bulletin was determined by the fact that EGT Newsletter - Spring Edition would not be delivered until late March. The emphasis from the prior four years continues to be: Help & Serve as requested, summoned, wanted, or needed. This year, am taking a low profile look at anything else needed, and further assessing the position.

JANUARY:

- *Wrote Commerce-Connection article for EGTwp Newsletter Spring Edition advising Service & Help.
- *Re-established connection w/ Mark Yoder, President: Greater WC Chamber of Commerce.
- *Assisted Michael Fitzgerald, Pres/CEO - Acero Precision on a Sunday am with a Twp info matter. Jon Altshul, Twp CFO, was enlisted and instrumental in assuring Acero we could help.
- *Assisted Acero Precision amicably for all concerned on early-am trash removals issue.

FEBRUARY:

- *Arranged Entrepr Acad's 2016 visitations w/ Jason for: Adv'd Staging Prodns & Acero Precision.
- *Wrote & sent 2016's C-C News Bulletin-1 for I/BP + C zones business leaders - by email & 1st CI mail.
- *Invited to & attended Futurist Committee mtg of 2/8 pm re: Town Center concept for C-C input.

MARCH:

- *Involved in 'solicitations' advice/caveats w/ Friends of East Goshen re: 3/8 meeting requests.
- *Engaged ZEKS / Ingersoll Rand for EGTwp's Summer edition Newsletter - re: Help & Service.
- *Continuing expanding Showcasing of I/BP zones' industries (while re-advising C-zones businesses of the Twp Business Directory intended to help & serve them).

The C zones constituencies will be showcased in the EGT Newsletter editions of 2017.

Al Zuccarello
Representative to Commerce

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

Date: May 11, 2016
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: Sunoco Remediation Report

We received the Remedial Action Progress Report for the First Quarter of 2016 from Sunoco and 1 of the monitoring wells has a MTBE reading above the State Limit (20 ug/l).

The executive summary is attached and a complete copy of the report is available for review at the Township Building.

F:\Data\Shared Data\Property Management\53-4\53-4-2 (1431 Paoli Pike)\Sunoco\Memo to BOS 051116.doc

Remedial Action Progress Report First Quarter 2016

Sunoco Station # 0004-7969
1425 Paoli Pike
West Chester, PA

GENERAL INFORMATION

Sunoco Remediation Associate:	Bill Brochu
Consultant:	Environmental Alliance, Inc. (Alliance) 5341 Limestone Road Wilmington, DE 19808
Alliance Program Manager:	Joe Rossi
Alliance Project Manager:	Chris Thoeny
PADEP Case Manager:	Lauren Mapleton – PADEP Southeast Regional Office
PADEP Facility ID#:	15-20353
County:	Chester
Municipality:	East Goshen Township

SITE OVERVIEW

- ◆ The site is an active retail gasoline station and A-Plus convenience store.

SITE HISTORY

- ◆ In July of 1989, Sunoco retained Groundwater and Environmental Services, Inc. (GES) to conduct a hydrogeologic investigation upon the acquisition of the Site. GES installed 4 monitoring wells, collected soil samples, and completed an initial groundwater sampling event. Analytical results indicated the presence of total BTEX and total petroleum hydrocarbons (TPH) in the two samples that were located nearest the underground storage tank (UST) field.
- ◆ In the fall of 1989, Sunoco upgraded the UST system onsite. Upgrade activities included: the removal of four 4,000 gallon steel USTs which were replaced with three 10,000 gallon fiberglass USTs and the removal of two 550 gallon heating and waste oil tanks that were replaced with two 275 gallon aboveground storage tanks (ASTs).
- ◆ In December 1992 and January 1993, Sunoco completed service station upgrades, which included the abandonment of the on-site water supply well.
- ◆ In January 1995, the Pennsylvania Department of Environmental Resources (PADER) issued a letter in which no further investigative activities were deemed necessary. Subsequently, all monitoring wells were abandoned by B. L. Myers on January 27, 1995.
- ◆ In October 2006, Sunoco upgraded the dispensers and product piping at the Site. During upgrade activities contamination was detected beneath one of the dispensers and was confirmed through a grab soil sample. Benzene was detected above Pennsylvania

Department of Environmental Protection (PADEP) statewide health standard (SHS) and a notice of release (NOR) was submitted to the PADEP by Alliance on October 16, 2006.

- ◆ On January 17th and 18th, 2007, Alliance conducted soil borings and the installation of four monitoring wells. The monitoring wells were sampled on February 6th and April 25th, 2007.
- ◆ In August 2007, Alliance submitted a Site Characterization Report (SCR) to the PADEP. The SCR was disapproved based on further site characterization being needed.
- ◆ On September 19th and 20th, 2007, Alliance installed an additional four monitoring wells to help further delineate any potential migration of contaminants of concern.
- ◆ In accordance with a letter from the PADEP dated March 3, 2008, Alliance conducted an extensive well search, in which no drinking wells were identified between the Site and the closest down-gradient sensitive receptor, Ridley Creek.
- ◆ On September 3, 2008, Alliance installed two offsite monitoring wells and one onsite monitoring well. The offsite wells (MW-9 and MW-10) were installed for further horizontal delineation of potential contaminants of concern. The onsite well (MW-7B) was installed for vertical delineation of potential contaminants of concern.
- ◆ In December 2008, a slug test was performed on monitoring well MW-7B to calculate the hydraulic conductivity of the bedrock aquifer beneath the site.
- ◆ On May 27th and 28th, 2009 Alliance installed additional overburden and shallow bedrock wells at off site (MW-9 and 9B, MW-10 and 10B, and MW-11 and MW-11B) and onsite locations (MW-2B and MW-8B).
- ◆ On November 3rd through 5th, 2009 Alliance installed additional monitoring wells onsite (MW-12, MW-12B and MW-5B) and off site (MW-13 and 13B and MW-14 and 14B).
- ◆ On November 9, 2009, Alliance submitted a Status Report for Site Characterization to the PADEP.
- ◆ On February 1, 2010, Alliance submitted a Site Characterization Report (SCR) to the PADEP selecting the Site Specific Standard (SSS) as the clean up standard for the site. The SCR was approved by the PADEP in a letter dated April 21, 2010.
- ◆ On June 10, 2010, Alliance submitted a Remedial Action Plan (RAP) to the PADEP in which a groundwater pump and treat remediation system was selected as the remedial strategy for the site. The RAP was approved by the PADEP in a letter dated July 21, 2010.
- ◆ Start up/shake down procedures for the groundwater remediation system were initiated on June 15, 2010. The permanent operation date for the groundwater remediation system is June 28, 2010.
- ◆ Operation and Maintenance (O&M) of the remediation system has been ongoing since June 28, 2010.
- ◆ On August 28, 2012, Alliance submitted a request to PADEP by e-mail on behalf of Sunoco, to modify the groundwater sampling plan during active remediation to a reduced list of wells. PADEP agreed to a reduced groundwater sampling plan per an August 28, 2012 e-mail. The following wells were removed from the quarterly groundwater sampling scope MW-2 & 2B; MW-5 & 5B; MW-9 & 9B; MW-10 & 10B; MW-13 & 13B. All the wells will remain in place, secured with a water tight manhole and locking well plug (wells will not be abandoned). Once active pumping is ceased, the wells will be returned to the sampling plan, or a modified sampling plan to meet post remediation monitoring needs will be developed in participation with PADEP.

- ◆ A Notice of Intent (NOI) was submitted to PADEP on September 6, 2012, for renewal of the NPDES Permit, to continue operation of the remediation system. Coverage under the statewide permit was extended in a letter from PADEP dated October 24, 2012.
- ◆ On September 27 2012, Alliance installed a regenerative air blower at the Site to aid in sub-surface remediation. The blower was installed in the remediation shed and tied into piping runs connected to MW-7B. The purpose of the blower is to provide additional hydraulic influence at well MW-7B and possibly extract hydrocarbon vapors from the de-watered bedrock surrounding MW-7B. All extracted vapors are passed through activated vapor-phase granular carbon prior to discharge to the atmosphere.
- ◆ Per the November 26, 2013 letter submitted to PADEP (Notification of Suspension of Remedial Actions), the remediation system was temporarily shutdown on December 31, 2013. Per the notification, the system would remain off for at least one quarter while the aquifer response is evaluated.
- ◆ The remediation system was restarted on April 18, 2014.
- ◆ On December 31, 2014, the remediation system was shut down indefinitely to further evaluate baseline MTBE concentrations and trends at the Site.

SITE INFORMATION

Well Specifications:	Fourteen 2-inch diameter overburden monitoring wells (MW-1 through MW-14); Eight 2-inch diameter shallow bedrock wells (MW-2B, MW-5B, MW-9B, MW-10B, MW-11B, MW-12B, MW-13B, & MW-14B); Two 6-inch diameter deep wells (MW-7B, & MW-8B).
Geology:	Soils consist of greenish gray and orange clay and micaceous silt underlain by Precambrian age, medium grained felsic gneiss. Depth to bedrock reported during drilling ranged from 20-feet (MW-14B) to 48-feet (MW-8B). Bedrock is gradationally overlain by a thick mantle of saprolite identified in most borings.
Groundwater Elevation:	Overburden: 81.80 feet (MW-12) to 75.02 feet (MW-14). Shallow Bedrock: 81.80 feet (MW-12B) to 74.99 feet (MW-14B)
Hydraulic Gradient:	Shallow: 0.011 feet per foot to the northeast Deep: 0.013 feet per foot to the northeast
Hydraulic Conductivity:	4.75 feet per day (shallow); 1.75 feet per day (deep).
Groundwater Sampling Frequency:	Quarterly.
Analytical Method:	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), Methyl tertiary-butyl ether (MTBE), Isopropylbenzene, Naphthalene via Environmental Protection Agency (EPA) Method 8260B.
Soil Quality:	Soil quality data from October 2006 dispenser sampling indicated Benzene above SHS at sample <i>Disp/Line 2</i> . Soil quality data from well installation in January 2007, indicated MTBE above SHS at MW-3 (11-12 feet).

Separate-Phase Hydrocarbons: Separate-phase hydrocarbons (SPH) have never been detected in the site monitoring wells.

RISK ASSESSMENT

Potentially Sensitive Receptors: There are 34 known wells identified by the Environmental Data Resources, Inc. Radius Report (utilizing the Federal and Pennsylvania well databases) within a 0.5-mile radius. The East Branch of Ridley Creek lies approximately 900 feet northeast of the site.

Closest Known Well: One Federal Public Supply well was identified within a one-half mile radius to the east of the site.

Municipal Water Supply: Aqua Pennsylvania, Inc.

SITE ACTIVITIES THIS REPORTING PERIOD

- ◆ A groundwater sampling event was completed on January 20, 2016 and included collection of liquid-level data from all onsite and off-site wells and collection of groundwater quality samples from MW-1, MW-3, MW-4, MW-7, MW-7B, MW-11, MW-11B, MW-12, MW-12B, MW-14, and MW-14B (per reduced scope).
- ◆ Maps depicting groundwater elevation and analytical data for the shallow (overburden) and deep (shallow bedrock) monitoring wells are included as Figures 1 and 2, respectively. Historical groundwater elevation and analytical data are summarized in Table 1. A copy of the laboratory results is included in Appendix A. Graphs showing the concentration history of MTBE at select monitoring wells are presented in Appendix B.
- ◆ The remediation system remained off for the first quarter 2016; therefore, no discharge monitoring reports were submitted in January, February, and March 2016 in accordance with the National Pollutant Discharge Elimination System (NPDES) Permit for the Site.
- ◆ On March 29, 2016, based on the planned installation of a Sunoco pipeline that will encroach on the northern area of the site, Alliance contracted Eichelberger Inc. to abandon monitoring wells MW-5, MW-6, MW-9 and MW-9B, as these wells were in potential conflict of the construction of the pipeline. PADEP approval for the well abandonment was received via email correspondence on March 15, 2016.

REMEDIATION SYSTEM INFORMATION (currently not in operation)

- ◆ Type of System: Vacuum Enhanced Groundwater Extraction (VEGE).
- ◆ Permanent Operation Dates:
 - Groundwater: June 28, 2010 to December 31, 2013; April 18, 2014 to December 31, 2014.
 - SVE: September 27, 2012 to December 23, 2012; March 19, 2013 to December 31, 2013; May 22, 2014 to December 31, 2014.
- ◆ Extraction Points: MW-1, MW-2, and MW-7B.
- ◆ Extraction Points Utilized: MW-7B.
- ◆ Recovery Equipment: Grundfos ES-7 Electric Submersible Pump & Gast R4 SVE blower.

- ◆ Liquid-Phase Treatment Equipment: GeoTech Lo-Profile Air Stripper, two (2) 200 lb. liquid granular activated carbon (LGAC) vessels.
- ◆ Vapor-Phase Treatment Equipment: vapor-phase granular activated carbon.
- ◆ Groundwater Discharge Location: Storm Sewer.
- ◆ Approximate gallons pumped and treated this Reporting Period: 0
- ◆ Average Groundwater Recovery Rate this Reporting Period: 0 GPM.
- ◆ Total Groundwater Recovered through December 31, 2014: 3,665,497 gallons.
 - Totalizer replaced 04/18/14 at 1,363,333 gallons.
- ◆ Total Dissolved-Phase MTBE Recovered through December 31, 2014: 128.19 pounds.

FUTURE SITE ACTIVITIES

- ◆ Quarterly groundwater monitoring and sampling will continue using the August 28, 2012 revised sampling plan. The next sampling event is scheduled for April 2016.
- ◆ Operation of the remediation system has been suspended as of December 31, 2014 to evaluate non-pumping aquifer conditions.
- ◆ Based on the suspension of operation of the remediation system monthly no Discharge Monitoring Reports (DMR) will be submitted this period.

ATTACHMENTS

- Figure 1 Groundwater Analytical and Gradient Map - Overburden (Shallow) Wells January 20, 2016
- Figure 2 Groundwater Analytical and Gradient Map - Shallow Bedrock (Deep) Wells January 20, 2016
- Table 1 Groundwater Elevation Data and Analytical Summary
- Appendix A Groundwater Sampling Laboratory Analytical Reports
- Appendix B Groundwater Concentration Graphs

Notes:

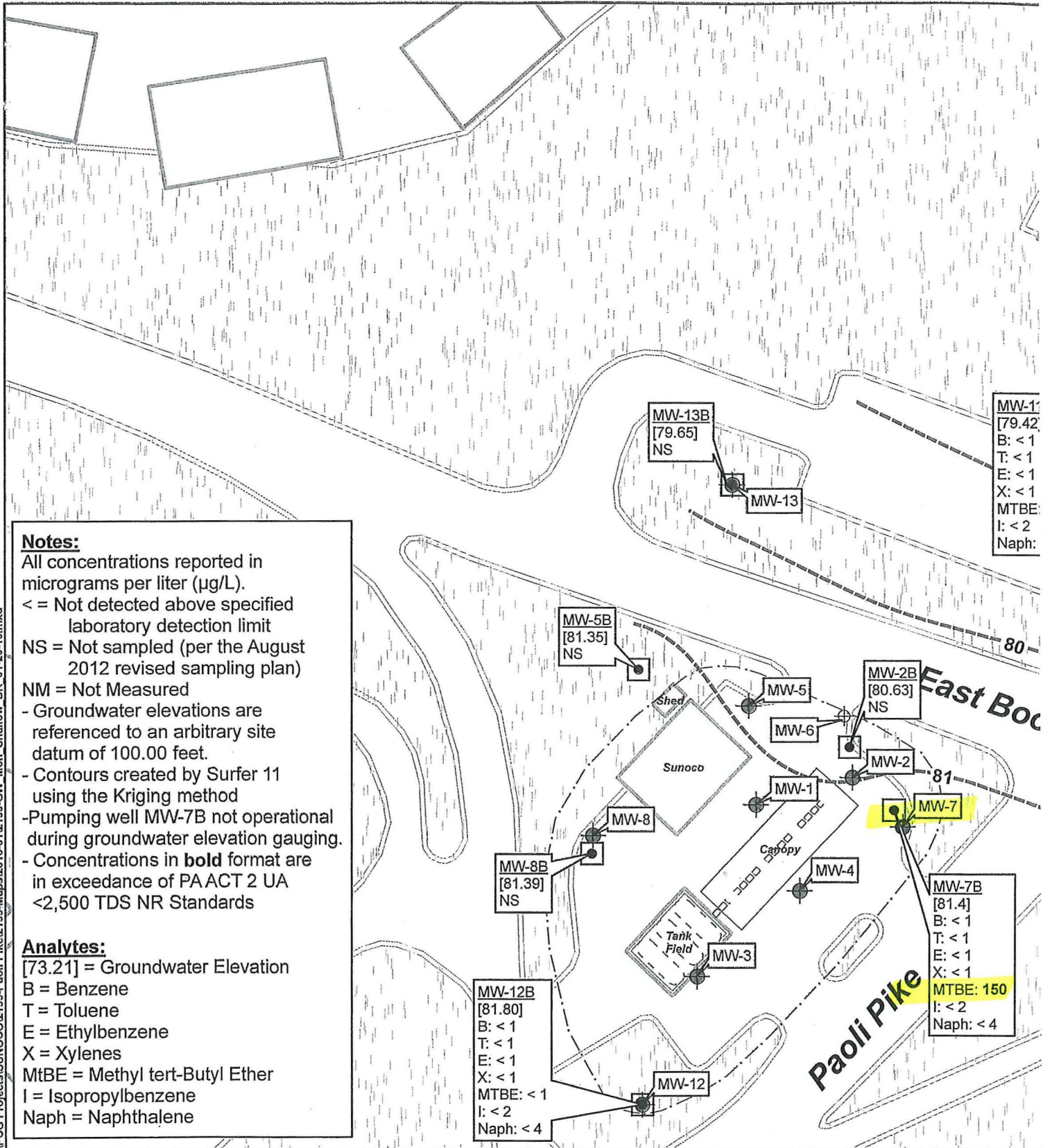
All concentrations reported in micrograms per liter (µg/L).
 < = Not detected above specified laboratory detection limit
 NS = Not sampled (per the August 2012 revised sampling plan)
 NM = Not Measured
 - Groundwater elevations are referenced to an arbitrary site datum of 100.00 feet.
 - Contours created by Surfer 11 using the Kriging method
 - Pumping well MW-7B not operational during groundwater elevation gauging.
 - Concentrations in **bold** format are in exceedance of PAACT 2 UA <2,500 TDS NR Standards

Analytes:

[73.21] = Groundwater Elevation
 B = Benzene
 T = Toluene
 E = Ethylbenzene
 X = Xylenes
 MtBE = Methyl tert-Butyl Ether
 I = Isopropylbenzene
 Naph = Naphthalene

Legend

- | | | | | | | | |
|--|---------------------------------|--|-------------------------------|--|-----------|--|------------|
| | Shallow Bedrock Monitoring Well | | Edge of Pavement/Curb | | Canopy | | Vegetation |
| | Overburden Monitoring Well | | Approximate Property Boundary | | Dispenser | | Tank Field |
| | Dry Well | | Product Line | | UST | | |
| | Groundwater Contour (ft) | | Building | | | | |



LAW OFFICES
JOHN E. GOOD ASSOCIATES

JOHN E. GOOD

331 WEST MINER STREET
WEST CHESTER, PENNSYLVANIA 19382-2832
(610) 436-6565
FAX (610) 344-9381

April 25, 2016

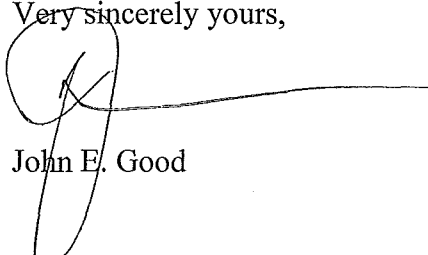
East Goshen Township Board of Supervisors
1580 Paoli Pike
West Chester, PA 19380

Ladies/Gentlemen:

I wanted to write to congratulate the Township as well as Marty Shane and Rick Smith on the recent statewide awards that were made to Marty and Rick.

I have acted as solicitor for numerous municipalities over the last 50 years and based on that experience, I can accurately state that both Marty and Rick are well deserving of the honors that were bestowed upon them.

Very sincerely yours,



John E. Good

JEG:rd

May 12, 2016

EGMA1606

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

RE: Act 14 Notification
Application for Renewal of NPDES Permit No. PA 0050504
Ridley Creek Wastewater Treatment Plant
East Goshen Township, Chester County, PA

Dear Mr. Smith:

In accordance with Act 14, P.L. 834 of the Commonwealth's Administrative Code, we are hereby providing notification that an Application for Renewal of the existing NPDES Permit No. 0050504 at the Ridley Creek Wastewater Treatment Plant will be submitted to the Pennsylvania Department of Environmental Protection by Pennoni on behalf of East Goshen Municipal Authority. There is no construction or land disturbance involved with this application.

Enclosed is the Permit Application – General Information Form.

Please respond by providing written acknowledgment of this notification. If we do not receive a response from you within 30 days, we shall proceed to submit our permit application to DEP.

Should you have any questions, please feel free to contact me.

Sincerely,

PENNONI ASSOCIATES INC.



Michael J. Ellis, PE
Authority Engineer

/jpd

Enclosures: As noted

cc: Mark Miller, Director of Public Works (via email)


GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

Related ID#s (If Known) Client ID# <u>62683</u> APS ID# _____ Site ID# <u>256818</u> Auth ID# _____ Facility ID# <u>270162</u>		DEP USE ONLY Date Received & General Notes
--	--	--

CLIENT INFORMATION

DEP Client ID# 62683	Client Type / Code AUTH			
Organization Name or Registered Fictitious Name East Goshen Municipal Authority		Employer ID# (EIN) 23-6005479	Dun & Bradstreet ID#	
Individual Last Name	First Name	MI	Suffix	SSN
Additional Individual Last Name	First Name	MI	Suffix	SSN
Mailing Address Line 1 1580 Paoli Pike		Mailing Address Line 2		
Address Last Line – City West Chester		State PA	ZIP+4 19380	Country USA
Client Contact Last Name Smith	First Name Louis (Rick)	MI F	Suffix	
Client Contact Title Township Manager		Phone 610-692-7171	Ext	
Email Address rsmith@eastgoshen.org		FAX 610-692-8950		

SITE INFORMATION

DEP Site ID# 256818	Site Name Ridley Creek Sewage Treatment Plant				
EPA ID#	Estimated Number of Employees to be Present at Site			1-4	
Description of Site Sewage treatment plant - provides wastewater treatment for portion of Township in the Ridley Creek Watershed.					
County Name Chester	Municipality East Goshen	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State
County Name	Municipality	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input type="checkbox"/>	State
Site Location Line 1 1571 Towne Drive		Site Location Line 2			
Site Location Last Line – City West Chester		State PA	ZIP+4 19380		
Detailed Written Directions to Site Take US Route 352 s to E. Boot Road - Left on E. Boot Road; Right (South) on Thorncroft Drive; follow intersection with Towne Drive - Left on Towne Drive; plant driveway on right (sign at top of driveway)					
Site Contact Last Name Miller	First Name Mark	MI S	Suffix		
Site Contact Title Director of Public Works		Site Contact Firm East Goshen Township			
Mailing Address Line 1 1580 Paoli Pike		Mailing Address Line 2			

Mailing Address Last Line – City West Chester		State PA	ZIP+4 19380
Phone 610-692-7171	Ext	FAX 610-692-8950	Email Address mmiller@eastgoshen.org
NAICS Codes (Two- & Three-Digit Codes – List All That Apply) 221			6-Digit Code (Optional)
Client to Site Relationship Owner/Operator			

FACILITY INFORMATION

Modification of Existing Facility	Yes	No
1. Will this project modify an existing facility, system, or activity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i>		

Facility Type	DEP Fac ID#	Facility Type	DEP Fac ID#
<input type="checkbox"/> Air Emission Plant		<input type="checkbox"/> Industrial Minerals Mining Operation	
<input type="checkbox"/> Beneficial Use (water)		<input type="checkbox"/> Laboratory Location	
<input type="checkbox"/> Blasting Operation		<input type="checkbox"/> Land Recycling Cleanup Location	
<input type="checkbox"/> Captive Hazardous Waste Operation		<input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation	
<input type="checkbox"/> Coal Ash Beneficial Use Operation		<input type="checkbox"/> Municipal Waste Operation	
<input type="checkbox"/> Coal Mining Operation		<input type="checkbox"/> Oil & Gas Encroachment Location	
<input type="checkbox"/> Coal Pillar Location		<input type="checkbox"/> Oil & Gas Location	
<input type="checkbox"/> Commercial Hazardous Waste Operation		<input type="checkbox"/> Oil & Gas Water Poll Control Facility	
<input type="checkbox"/> Dam Location		<input type="checkbox"/> Public Water Supply System	
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite		<input type="checkbox"/> Radiation Facility	
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous		<input type="checkbox"/> Residual Waste Operation	
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals		<input type="checkbox"/> Storage Tank Location	
<input type="checkbox"/> Encroachment Location (water, wetland)		<input checked="" type="checkbox"/> Water Pollution Control Facility	270162
<input type="checkbox"/> Erosion & Sediment Control Facility		<input type="checkbox"/> Water Resource	
<input type="checkbox"/> Explosive Storage Location		<input type="checkbox"/> Other:	

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
Ridley Creek STP	39	59	10	75	31	43
Horizontal Accuracy Measure	Feet	10	--or--	Meters		
Horizontal Reference Datum Code	<input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984					
Horizontal Collection Method Code	GISDR					
Reference Point Code	CENTER					
Altitude	Feet	360	--or--	Meters		
Altitude Datum Name	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)					
Altitude (Vertical) Location Datum Collection Method Code	SRVEY					
Geometric Type Code	POINT					
Data Collection Date	2002					
Source Map Scale Number	1	Inch(es)	=	10	Feet	
	--or--	Centimeter(s)	=		Meters	

PROJECT INFORMATION

Project Name Ridley Creek Sewage Treatment Plant NPDES Permit Renewal Application			
Project Description Renew existing NPDES Permit for continued discharge of treated sewage.			
Project Consultant Last Name Ellis	First Name Michael	MI J	Suffix
Project Consultant Title Authority Engineer		Consulting Firm Pennoni Associates Inc.	
Mailing Address Line 1 121 Continental Drive, Suite 207		Mailing Address Line 2	

Address Last Line – City Newark		State DE	ZIP+4 19713
Phone 302-655-4451	Ext 5236	FAX 302-654-2895	Email Address mellis@pennoni.com
Time Schedules	Project Milestone (Optional)		

1. **Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department?** Yes No
2. **Is your project funded by state or federal grants?** Yes No
Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.
 Aspect of Project Related to Grant _____
 Grant Source: _____
 Grant Contact Person: _____
 Grant Expiration Date: _____
3. **Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions)** Yes No
Note: If "No" to Question 3, the application is not subject to the Land Use Policy.
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the Land Use Information section.

LAND USE INFORMATION

Note: Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. **Is there an adopted county or multi-county comprehensive plan?** Yes No
2. **Is there an adopted municipal or multi-municipal comprehensive plan?** Yes No
3. **Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance?** Yes No
Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
4. **Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval?** Yes No
 If zoning approval has been received, attach documentation.
5. **Have you attached Municipal and County Land Use Letters for the project?** Yes No

COORDINATION INFORMATION

Note: The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

If the activity will be a mining project (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

If the activity will not be a mining project, skip questions 1.0 through 2.5 and begin with question 3.0.

1.0	Is this a coal mining project? If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
1.1	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.2	Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.3	Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.4	For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.5	Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
1.6	Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.0	Is this a non-coal (industrial minerals) mining project? If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
2.1	Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.2	Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.3	Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.4	For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
2.5	Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system? 9.0.1 Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). 10.0.1 Gallons Per Year (residential septage) _____ 10.0.2 Dry Tons Per Year (biosolids) _____	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. 11.0.1 Dam Name	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served				
14.0.2	Number of Employee/Guests				
14.0.3	Number of Connections				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
16.0.1	Supplier's Name	Aqua Pennsylvania (existing service to existing development)			
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Type & Amount				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
21.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				

22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

22.0.1 Enter all substances & capacity of each; separate each set with semicolons.

23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. **Note:** Applicant may need a Storage Tank Site Specific Installation Permit. Yes No

23.0.1 Enter all substances & capacity of each; separate each set with semicolons.

24.0 Will the intended activity involve the use of a radiation source? Yes No

CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name MICHAEL J. ELUS, PE

Signature  Title AUTHORITY ENGINEER Date 5/12/16

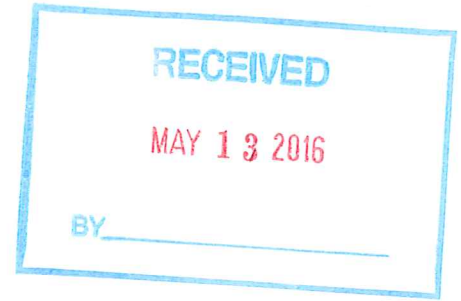
May 17, 2016
Board of Supervisors

11. Any Other Matter

- a. Consider Gannett Fleming Review of Hershey Mill Dam Cost Estimates.



Excellence Delivered **As Promised**



May 13, 2016

Mr. Rick Smith, Jr., Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380-6199

Dear Mr. Smith,

Subject: **Dam Related Engineering Services for East Goshen Township
Hershey Mill Dam (DEP ID No. D15-125)
Construction Cost Review**

East Goshen Township (Township) is currently in the process of evaluating alternatives for either modifying or breaching Hershey Mill Dam (DEP ID No. D15-125). Preliminary cost estimates for three options were provided to the Township in an April 6, 2016 letter from Edward B. Walsh & Associates. As requested by the Township, Gannett Fleming reviewed information provided for each option and is providing an opinion on the construction costs and feasibility of the three options. The three options being considered are described below.

Option 1 – New Auxiliary Spillway. Includes adding a 58-foot-wide auxiliary spillway adjacent to the existing 22-foot-wide principal spillway and raising the top of dam by as much as 1.5-feet in some areas to elevation 450.5 in order to convey the 100-year flood without overtopping the embankment. The crest of the new auxiliary spillway will be four inches higher than the crest of the principal spillway. The Township has secured a permit from the Pennsylvania Department of Environmental Protection (DEP), Division of Dam Safety for this option. The permit was issued on July 7, 2014. The construction cost prepared by Edward. B. Walsh & Associates for this option is \$302,025.

Option 2 – Lower Principal Spillway. Option 2 involves lowering the crest of the principal spillway 6 feet and removing upstream sediment deposits as needed by excavating pilot channels through the reservoir to direct flows towards the spillway. The construction cost prepared by Edward. B. Walsh & Associates for this option is \$96,456.

Option 3 – Decommission Dam. Option 3 involves breaching the embankment down to the natural streambed and re-establishing the stream channel through the sediment deposits in the reservoir. The construction cost prepared by Edward. B. Walsh & Associates for this option is \$97,674.

Gannett Fleming, Inc.

DOCUMENTS PROVIDED FOR REVIEW:

The opinions provided within this letter were developed based information presented in the following documents:

- Letter from Edward B. Walsh & Associates, Inc., dated April 6, 2016 containing a breakdown of the estimated construction costs for Options 1, 2 and 3.
- Construction drawings (six sheets) entitled "Restoration Plan for Hershey's Mill Dam" as prepared by Edward B. Walsh & Associates, last revised June 11, 2014.
- Dam Permit issued by DEP, Division of Dam Safety on July 15, 2014.
- East Goshen Township Memo by Rick Smith dated March 17, 2016.

Only Option 1 has been advanced to the point where permits have been obtained. No drawings, concept sketches, or construction quantities for Options 2 and 3 have been provided.

GANNETT FLEMING OPINIONS

Option 1 – New Auxiliary Spillway. In the absence of supporting calculations for the new auxiliary spillway shown on the drawings prepared by Edward B. Walsh & Associates, there appear to be certain components of the design that may require additional investigation. Based on our cursory review of the information provided, the following provides our opinion on the estimated construction cost and areas where additional detail may be needed.

- Risk of Flood Damage During Construction: The construction cost estimate includes \$17,550 for water control during construction of which \$12,350 consists of pumping the stream(s) around the work area or over the existing spillway for a period of up to 1 month. The proposed pumping system would need to be operated continuously for at least a month. The specified cost appears to be very low for this critical work item. In addition, diversion and care of water for dam projects carries substantial risk, and this risk is normally transferred to the Contractor, since the contractor controls the site and the means and measures to divert the flow through the work area. The risk associated with providing diversion and care of water during construction does not appear to be reflected in the current construction cost estimate. It is likely that during the construction period, a heavy rainfall will occur that will exceed the capacity of the proposed pumping system and flood the construction site. In addition to damaging work in progress, there is the potential to damage the adjacent dam features and/or cause sediment deposits within the reservoir to be flushed downstream. Any changed conditions encountered during construction, or bad weather, could also delay the project and extend the time needed to pump the flow around the work area.

- Dewatering the Site: Construction of the proposed auxiliary spillway involves placement of a concrete slab on a suitable foundation. In order for this to take place, the foundation excavation must be fully dewatered and dry. This is typically accomplished through the use of sump pits and/or groundwater dewatering wells. Foundation dewatering does not appear to be reflected in the current cost estimate.
- Unknown Foundation Conditions: No subsurface or foundation information for the new Auxiliary spillway is provided on the drawings. It is unclear if subsurface investigations have been performed to sample foundation materials, locate bedrock and classify the soils located within/under the proposed auxiliary spillway. Therefore the foundation conditions for the auxiliary spillway appear to be unknown. Understanding the foundation conditions for the auxiliary spillway is important. If the spillway is founded on erodible overburden material, which appears to be the case, the auxiliary spillway design should include a seepage analysis and would likely require a seepage cutoff wall and filtered drain system to control seepage under the structure and prevent a piping failure. If the auxiliary spillway structure is founded on bedrock, foundation treatment would include additional excavation and effort to clean and inspect the foundation rock, and place backfill concrete to the desired foundation grade.
- Seepage, Collection and Filter System: The drawings indicate the addition of a short filter diaphragm at the left end of the proposed spillway to collect seepage which may occur around the left end of the spillway. No seepage collection and filtering system is shown for seepage under the spillway. It is recommended that this feature be considered in the design, especially if the auxiliary spillway is founded on erodible material.
- Fill Materials, Placement, Compaction and Testing: The drawings indicate that material removed from the embankment to construct the spillway expansion will be stockpiled and reused to backfill the spillway. While this appears to be a reasonable approach, no information is provided to confirm if this material is suitable as “impervious” backfill. Pending soil test results, offsite “impervious” material may need to be imported to the site at an additional cost. No information on fill placement, compaction and testing requirements could be found within the information provided.
- Sheet Pile Wall Details: The design shows placement of a steel sheet pile wall running upstream-downstream through the embankment along the left side of the principal spillway to support the excavation for the new auxiliary spillway. It is assumed that the sheet pile wall will remain in place at the completion of the project. The placement of this sheet pile wall will create a potential seepage path through the embankment. Seepage treatment details for the sheet pile wall are not shown on the drawings.
- Stone Facade Details: The downstream face of the proposed spillway contains a vertical concrete wall that is to be treated with a stone facade to match the appearance of the existing spillway. Information such as the thickness of the stone facade, how the facade will be anchored to the vertical concrete wall, etc. are not clearly evident from the information provided. Such details may impact the cost of the facade and may also

necessitate modifications to the spillway cross section (i.e., additional detail needed for the concrete foundation that supports the facade and the length that the spillway crest slab overhangs the facade).

- Concrete Details: The proposed spillway is to be comprised of a concrete foundation slab, a vertical concrete wall at the downstream face of the spillway, a concrete slab for energy dissipation downstream of the spillway and a concrete slab to form the crest of the spillway. Given the length and width of the proposed concrete features, construction and expansion joints with waterstops will be required to control cracking of the concrete and seepage through the structure.
- Potential for Changed Conditions: Rehabilitation of existing dams often includes working with limited information, especially when as-built records and subsurface information are not available for the structure. During excavation for the proposed modifications, unanticipated features and conditions can be encountered that can substantially impact the intended design or require additional modifications to the dam. The Township should include a contingency in their budget for this option to address the potential for changed conditions. Contingencies in the range of 20 to 30 percent are appropriate for the unknowns associated with Option 1.

Based on the above, the current estimate of \$302,025 appears low for Option 1.

Option 2 – Lower Principal Spillway. Without a detailed design, construction quantities, or a detailed description of what is included in Option 2, we are unable to determine if the construction cost estimate of \$97,000 is reasonable. However, we offer the following opinions related to unit costs, many of which are applicable to Options 1, 2 and 3:

- Mobilization and Demobilization: These costs are typically assumed to be approximately seven (7) percent of the construction cost. The mobilization costs provided in the estimates are in the vicinity of one (1) percent.
- Excavation Costs: Excavation costs for common earth normally range between \$5 and \$20 per cubic yard depending on the volume of material, type of equipment used, and haul distance for spoiling the material. Excavation costs provided in the estimate assume a unit cost of \$5 per cubic yard. We would also anticipate an additional cost to spoil, compact, grade and stabilize the material once it is at its final destination. Onsite spoiling costs may be in the range of \$5 to \$10 per cubic yard of material.
- Erosion and Sediment Control Costs: The erosion and sediment control costs appear to be reasonable for the scale of the project.
- Potential for Changed Conditions: As discussed under Option 1, rehabilitation of existing dams often includes working with limited information, especially when as-built records and subsurface information are not available for the structure. During excavation for the proposed modifications, unanticipated features and conditions can be encountered

that can substantially impact the intended design or require additional modifications to the dam. The Township should include a contingency in their budget for this option to address the potential for changed conditions. Contingencies in the range of 30 percent are appropriate for conceptual designs. The cost estimate provided within the Edward B. Walsh & Associates letter dated April 6, 2016 contains a contingency of approximately 14 percent. Given the above, we would recommend increasing the contingency.

Assuming the items/quantities listed in the Option 2 cost estimate are reasonable and comprehensive of the project, the construction cost estimate of \$97,000 appears low based on the observations listed above.

Option 3 – Decommission Dam. Similar to Option 2, without a detailed design, construction quantities, or a detailed description of what is included in Option 3, we are unable to determine if the construction cost estimate of \$97,000 is reasonable. However, the comments offered with respect to Option 2 also apply to Option 3. In our opinion, the main uncertainty and risk associated with Option 3 is the control of water and the management of the reservoir sediment. The construction cost estimate has allocated \$11,760 for the control of offsite runoff through the work area. Depending on the methods used and the length of time for which these facilities must be maintained, these costs may be low. The volume of sediment to be removed and the location where the sediment will be spoiled will significantly influence the construction costs. It is our understanding that sediment sampling performed by URS in 2008 found the reservoir sediments to be “clean”; therefore, the reservoir sediments can be spoiled onsite. Assuming the items/quantities listed in the Option 3 cost estimate are reasonable and comprehensive of the project, the construction cost estimate of \$97,000 appears low based on the observations listed above.

An option that does not appear to have been considered is to lower the entire dam to the point where it is no longer a regulated structure and retains the reservoir sediment. This approach may be less expensive than decommissioning the dam if removal of substantial sediment deposits is required.

In summary, it is our opinion that the construction cost estimates for Options 1, 2 and 3 are on the low side. The cost for Option 3, however, may be diminished by obtaining outside funding through a grant or if the project is used to mitigate environmental impacts for another project.

Gannett Fleming
Mr. Rick Smith
East Goshen Township

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May 13, 2016

If you have any questions or need additional information, please do not hesitate to call me or Paul Schweiger at 717-763-7212, extensions 2828 and 2504, respectively.

Sincerely,

GANNETT FLEMING, INC.
Environmental Resources Division



ERIC C. NEAST, P.E.
Project Manager
Dams and Hydraulics Section