

EAST GOSHEN MUNICIPAL AUTHORITY

December 12, 2016

7:00 PM

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting?

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report
- b. Pennoni Engineer's Report
- c. Big Fish Environmental Inc. Report

4. APPROVAL OF MINUTES

- a. November 14, 2016

5. APPROVAL OF INVOICES

- a. Pennoni Invoice #722178 \$1,622.25
- b. Pennoni Invoice #722179 \$ 656.75
- c. Pennoni Invoice #722181 \$ 355.25

5. LIAISON REPORTS

6. FINANCIAL REPORTS

- a. November Financial Report

7. OLD BUSINESS

8. GOALS

- a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January, February, March, April, May, June, July, August, September, October, November*
- b. Continue to implement the formal Inflow (surface water) & Infiltration (ground water), (collectively "I&I") Plan to reduce the amount of I&I into the sewer system.
- c. Respond to capacity requests within 45 days. *943 Cornwallis Drive, 1420 East Strasburg Road (3 EDUs), 1329 North Chester Road, 1631 Hunter Circle, 411 Misak Drive*

- d. Develop an operation manual for Ridley Creek Sewer Treatment Plant and pump stations. *Currently under review by staff.*
- e. Submit topical articles of interest for the East Goshen newsletter. *Winter, Summer,*
- f. Attend West Goshen Municipal Authority meetings to keep informed of planned capital expenditures and operation compliance. *January, February, March, May, June, July, August, September, October, November.*

9. NEW BUSINESS

- a. Notice of Termination Approval Letter – Lockwood Chase Sewage Treatment Plant Diversion PAI01151127

10. CAPACITY REQUESTS

- a. 1680 E. Boot Road EDU Capacity Request
- b. 1668 E. Boot Road EDU Capacity Request

11. ANY OTHER MATTER

12. CORRESPONDENCE AND REPORTS OF INTEREST

13. PUBLIC COMMENT

14. ADJOURNMENT

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

December 7, 2016

To: Municipal Authority
From: Mark Miller
Re: November 2016 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 680,000.

Meters: Meters were read on a daily basis. The portable meters are installed and they are being read weekly. The permanent meters were calibrated on December 9th.

C.C. Collection: It was rather busy on Thanksgiving; we had a sewer blockage at 28 Lochwood Lane. We received a call from the 911 center that a resident's sewer backed up into their house and that Roto Rooter was on scene reporting that the Township's system was blocked. When I arrived I was met by Roto Rooter who said that they made several attempts to clear the sewer main but were unsuccessful. When our men arrived we jetted the main line which was full of roots. We also found that the manhole was a drop manhole and that the drop was partially collapsed. Since we backed up the sewage into the house; Belfor was called to take care of sensitizing the basement. On November 28th we excavated the sewer line due to the depth and the condition of the drop, we chose to abandon the outside drop and we installed a new drop inside the manhole. We plugged the old drop and filled it with concrete. I have attached some pictures if the repair.

We had a problem at Hershey Mill Pump Station when the muffin monster tripped out and caused the main to back-up. The crew happened to be working around the corner when the problem occurred so there is minimal carry over. In both instances I contacted DEP to report the carry over. While installing the temporary meters we found a broken sewer lateral with 10 to 15 thousand gallons of infiltration. We also spent two days clearing the sewer right of way in Supplee Valley.

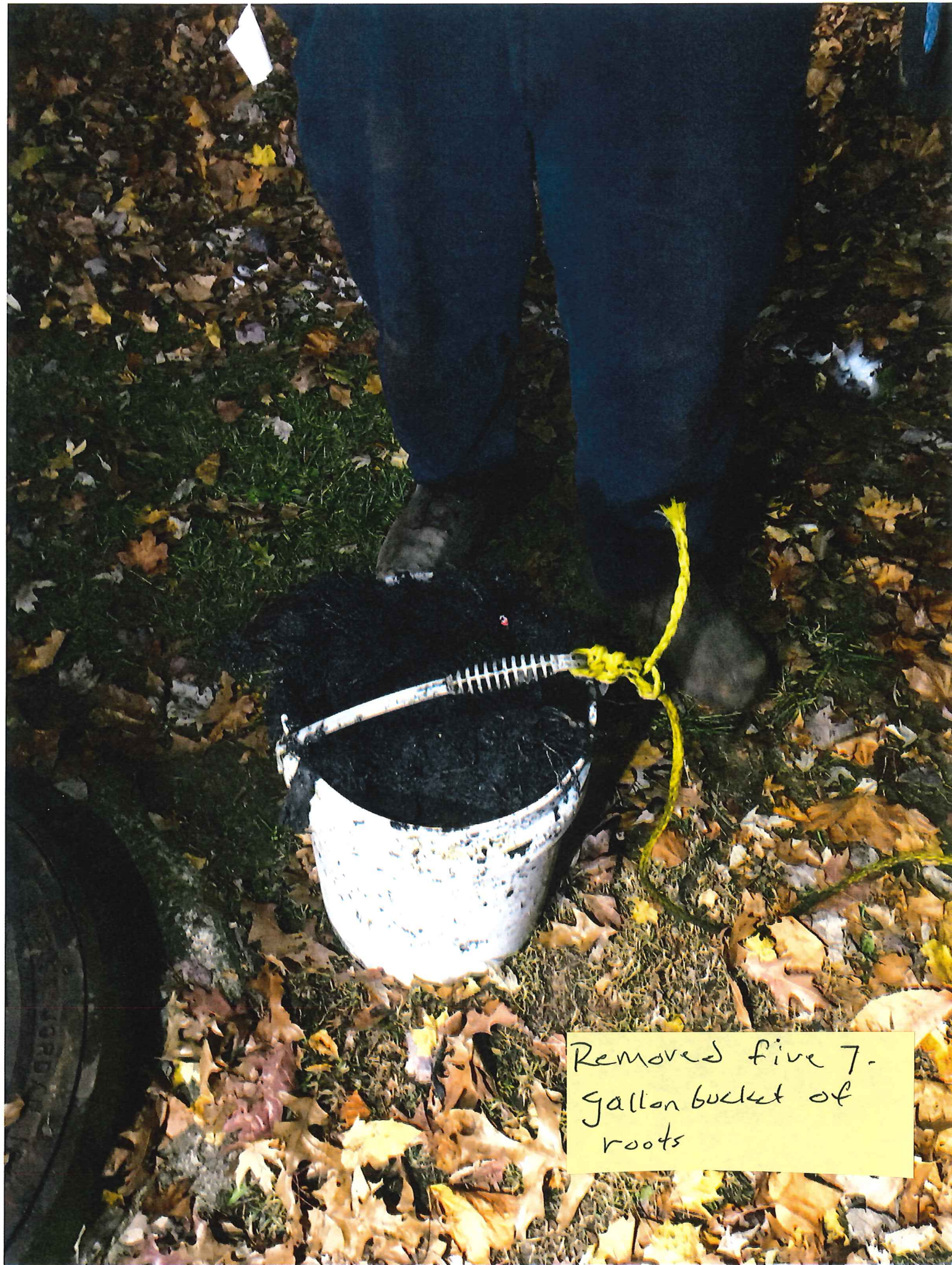
R.C. Collection: We have completed the re-building of the Hunt Country Pump Station (Pictures Attached).

R.C. Plant: We are in the process of building a storage building for the soda ash. Dutchland had been in to make the repairs to the SBR. The sludge pump was pulled in SBR1; the pump is not worth re-building so it was replaced with a spare.

INI Repairs: 12 sewer cap replacements after residents called about caps missing.

Alarms: We responded to 15 alarms for November.

PA One Calls: We received 68 Pa One calls November.



Removed five 7-
gallon bucket of
roots



Roots



Crew digging
28 Lockwood Ln.



Making Repair

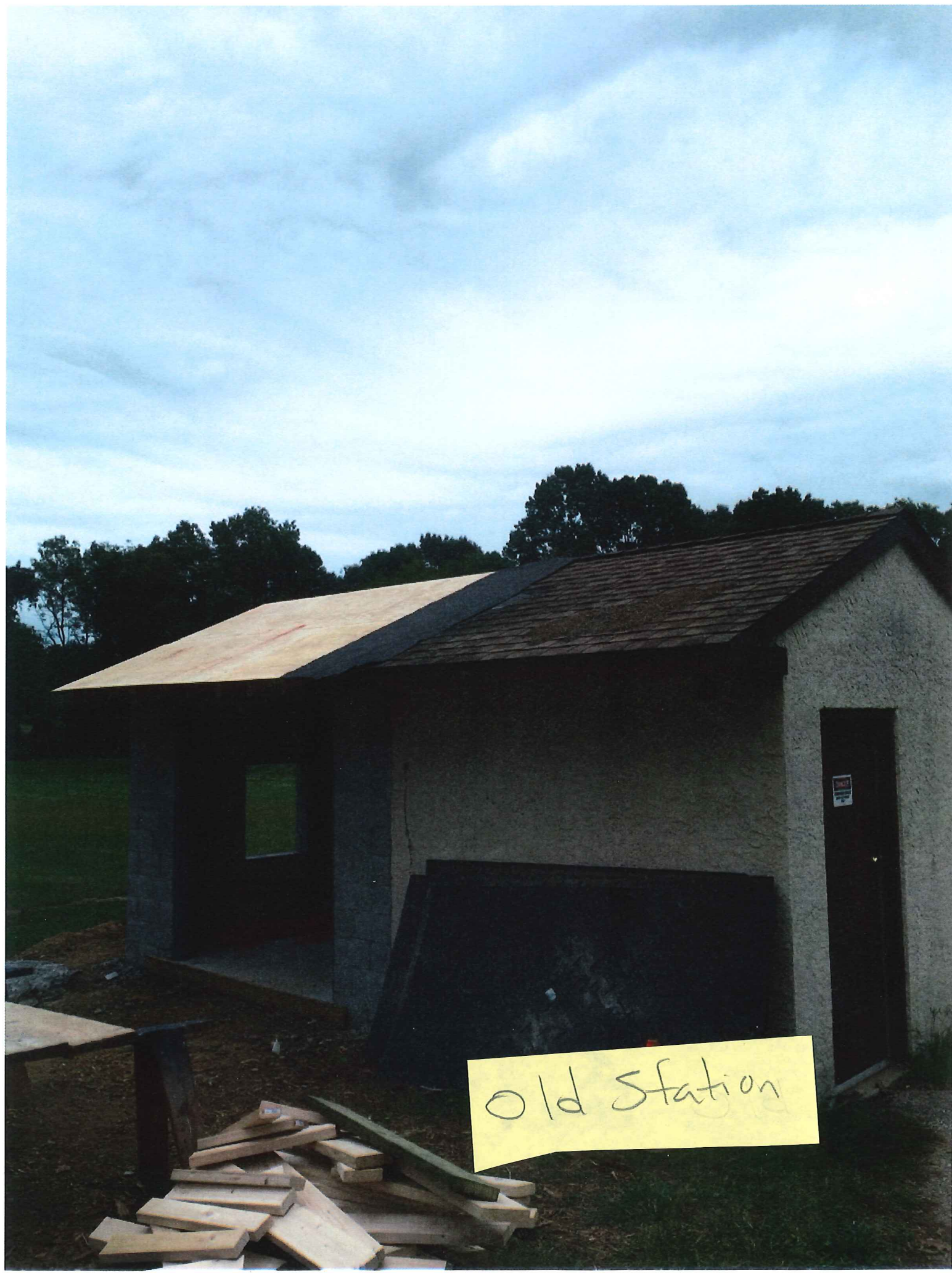


Removing old
Pipe



Inside Drop





Old Station

New control
building





MEMORANDUM

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

FROM: Michael Ellis, P.E.
Authority Engineer

DATE: December 9, 2016

SUBJECT: Engineer's Report

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- The NPDES Permit expires on February 28, 2017. The permit renewal application was finalized and submitted to PADEP on August 31, 2016. No changes to the existing permit are proposed. *(No update since last report)*.
- We continued the evaluation of alternatives for automated alkalinity chemical feed systems to eliminate manual feeding and carrying bags up the exterior steps, including tank sizing and chemical cost analyses. The preferred alternative is a change to caustic soda from the current soda ash treatment. An updated summary letter and discussion will be provided at the December MA meeting.
- We met with Dutchland at the RCSTP about repairs to address the peeling at the top of the CIM coating in SBR #3 and the need to re-patch the lifting anchor holes throughout the entire SBR deck. Dutchland performed the repairs thereafter. However, during the follow-up inspection, additional bubbles in the coating were identified lower on the walls in SBR #3. This bubbling is more extensive than in the other SBR tanks, and we are coordinating with Dutchland on a repair.

Reservoir Road Pump Station

- PADEP issued the State Water Obstruction and Encroachment Permit for the pump station site and Chester Creek utility crossing in June 2016; however, they are requiring a separate federal authorization by the Army Corps of Engineers (ACOE). We coordinated with both PADEP and ACOE on this additional review in July and are still awaiting feedback. *(No update since last report)*.
- We revised the NPDES plans and permit application to address CCCD's and DEP's latest comments and resubmitted to CCCD on November 23, 2016.

- The Water Quality Management (WQM) Permit application was submitted to PADEP on April 13, 2016. They have informally notified us that they have no comments and are prepared to issue the WQM Permit once the aforementioned NPDES Permit is issued. *(No update since last report).*
- We previously prepared the front end of the bid document and Division 01 specification sections, including a draft Bid Form. The Bid Form needs to be finalized. Technical specifications were already prepared as part of the WQM Permit application. The full bid document will be completed, assembled, and forwarded to the Township upon receipt of the three remaining permits. *(No update since last report).*
- We will complete a listing of the permits, expiration dates, and renewal deadlines once the three remaining permits are issued. We anticipate including that listing in future Engineer's Reports to track the permit statuses. *(No update since last report).*

RCSTP and Pump Stations' O&M Manual

- We are continuing to add information as provided by the Township as follow-up to our October 5th review meeting with Mark Miller.

White Chimneys Manhole Replacement

- No activity since the last report. We will provide assistance as requested by the Township during construction.

Semi-Annual I&I Reports

- We evaluated apparent inconsistencies in the overall Chester Creek subbasin flows (as metered at the Westtown Way meter) between meter data, averages provided by East Goshen, and billing records from West Goshen. We will discuss with the PW Department to resolve.

Sunoco Pipeline

- No activity since the last report. Sunoco previously agreed to add a condition to the approval letter they are requesting from East Goshen that they (Sunoco) will physically locate the Ashbridge PS force main at the proposed pipeline crossing location and that an East Goshen representative must be present when any work is done near the force main. We had also coordinated with them on a potential conflict with the proposed Reservoir Road PS force main, but there has not yet been a resolution to our knowledge.

New Connections

- 3 & 5 School Lane – We reviewed another set of revised plans and calculations for the proposed 2-lot grinder pump system, and we found the design to be acceptable.
- 1420 E. Strasburg Road, Brakman Property – We reviewed revised plans for the proposed 3-lot grinder pump system, as proposed for development by Brandolini, and provided comments. A review meeting with the developer, Township staff, and Pennoni is scheduled for December 14, 2016.

EGMA 1601

- 1680 E. Boot Road, Knauer Property – We reviewed a proposed plan for construction of a gravity sewer lateral to service a building addition. We anticipate comments will be issued by December 12, 2016.

DCED Small Water & Sewer Program Grant

- The Township submitted a grant application for the installation of three permanent gravity sewer flow meters in October. The grant agency, the Commonwealth Financing Authority, is scheduled to award grants in March 2017.

West Goshen Sewer System Consultation

- We attended the first regular WGSA Municipal Partners Meeting on November 22, 2016.



RCSTP Monthly Operations Report: November 2016

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the NPDES discharge permit during October 2016. Discharge to Applebrook was discontinued during October and November. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. Inspection of SBR 3 was completed with repairs schedule for early December. No mechanical or operational issues were observed during operation of sludge dewatering equipment.

Treatment Process Operation

During October 2016, there were no exceedances of the final effluent discharge limitations for outfall 001. Additional TSS samples were collected twice per week to allow for a means to calculate a weekly average. The total phosphorus monthly average had a concentration of 0.18 mg/L as compared to the permitted limitation of 0.50 mg/L. Table 1 illustrates the final effluent composite sample data reported for the September 2016 eDMR. During the month, the final effluent total phosphorus concentration discharged ranged from <0.10 to 0.35 mg/L.

Table 1

October 2016 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
October 4, 2016	0.292	2.90	7.1	2	4.9	0.134	0.33	0.10	0.24	1	0.0000
October 6, 2016	0.262			5	10.9						
October 11, 2016	0.235	3.40	6.7	3	5.9	0.148	0.29	0.11	0.22	1	0.0000
October 13, 2016	0.298			3	7.5						
October 18, 2016	0.293	2.00	4.9	5	12.2	0.100	0.24	0.16	0.39	1	0.0000
October 20, 2016	0.295			4	9.8						
October 25, 2016	0.303	3.80	9.6	8	20.2	0.100	0.25	0.35	0.88	1	0.0000
October 27, 2016	0.318			6	15.9						
Average	0.287	3.03	7.1	5	10.9	0.12	0.28	0.18	0.43	1	0.0000
Minimum	0.235	2.00	4.9	2	4.9	0.10	0.24	0.10	0.22	1	0.0000
Maximum	0.318	3.80	9.6	8	20.2	0.15	0.33	0.35	0.88	1	0.0000



RCSTP Monthly Operations Report: November 2016

Discharge to Applebrook, Outfall 002, remained discontinued during October and is planned to remain off line until the spring of 2017

Table 2 illustrates the influent composite sample data reported for the October 2016.

Table 2

October 2016 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
October 4, 2016	0.346	118	341	58	167	43.8	126	45.4	131	4.7	14
October 11, 2016	0.336	42.3	122	228	658	52.0	150	50.2	140	5.2	15
October 18, 2016	0.336	135	390	218	629	56.6	163	56.7	159	6.1	18
October 25, 2016	0.338	93.5	270	104	300	56.2	162	58.3	164	7.1	20
Average	0.339	97	281	152	439	52.2	151	52.7	149	5.8	17
Minimum	0.336	42	122	58	167	43.8	126	45.4	131	4.7	14
Maximum	0.346	135	390	228	658	56.6	163	58.3	164	7.1	20

Table 4 presents the available Outfall 001 final effluent data for the month of November 2016. During October, the presence of foam conditions on the surface of the SBRs began to increase with foam concentrations ranging from 30% to 60% of the area.

During October, there are no exceedances of the permitted limitations for Outfall 001. There was no discharge from outfall 002. Split sampling of the composite sample collected by Applied Laboratory Services (ALS) is ongoing for comparative analysis and daily results.

Table 4

November 2016 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD₅		TSS		NH₄-N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
November 1, 2016	0.313	3.80	9.9	8	20.9	0.106	0.28	0.59	1.54	1	0.0000
November 3, 2016	0.287			8	19.1						
November 8, 2016	0.269	2.00	4.5	3	6.7	0.100	0.22	0.17	0.38	1	0.0000
November 10, 2016	0.280			2	4.7						
November 15, 2016	0.280	2.00	4.7	10	23.4	0.103	0.24	0.33	0.77	1	0.0000
November 17, 2016	0.303			6	15.2						
November 22, 2016	0.287							0.19	0.45		
November 24, 2016	0.370			4	12.3						
November 29, 2016	0.373							0.20	0.62		
November 30, 2016	0.369										
Average	0.313	2.60	6.4	6	14.6	0.10	0.25	0.30	0.75	1	0.0000
Minimum	0.269	2.00	4.5	2	4.7	0.10	0.22	0.17	0.38	1	0.0000
Maximum	0.373	3.80	9.9	10	23.4	0.11	0.28	0.59	1.54	1	0.0000

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations. Composite samples are collected at the influent doghouse manhole and influent wet well. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

Table 5 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during October 2016.



RCSTP Monthly Operations Report: November 2016

Table 5

November 2016 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
November 1, 2016	0.374	215	671	268	836	33.4	104	39.8	124	4.7	15
November 8, 2016	0.331	103	321	104	324	45.4	142	52.3	144	6.2	19
November 15, 2016	0.336	192	599	300	936	68.5	214	52.4	147	6.3	20
November 22, 2016	0.380										
November 29, 2016	0.466										
Average	0.377	170	530	224	699	49.1	153	48.2	138	5.7	18
Minimum	0.331	103	321	104	324	33.4	104	39.8	124	4.7	15
Maximum	0.466	215	671	300	936	68.5	214	52.4	147	6.3	20

Sequencing batch reactors (SBRs) numbered 1, 2 and 4 were in service during October and November. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs decreased to from 69.7 gpd to 68.5 gpd. Soda ash daily addition decreased from 435 lbs./day to 397 lbs./day. Soda ash assists towards maintaining SBR pH concentrations above 7.0 standard units and assists to replenish alkalinity consumed during the nitrification process and aluminum sulfate solution addition.

SBR No. 3 remains out of service as a treatment unit. The SBR is scheduled to be returned to service on December 15th.



RCSTP Monthly Operations Report: November 2016

Solids Dewatering and Disposal: November 2016

Sludge Dewatering Summary	
Gallons of sludge dewatered	256,314
Number of dumpsters	4

**Nineteen (19) days of centrifuge operation*

Flow data:

November 2016			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	11.605	386,824	546,680
Influent Wastewater to SBRs	13.128	437,595	546,176
Internal Recycle	1.741	58,023	100,143
Treated Effluent to Disc Filters	12.880	429,340	538,368
Final Effluent Discharge	9.260	308,667	400,000
Applebrook Golf Course	No Discharge	No Discharge	No Discharge

Chemical Usage:

November 2016		
Chemical	Daily Average	Total Monthly
Soda Ash	397	11,900
Aluminum Sulfate solution	68.5	2,054
Polymer (centrifuge)	0.84	15.96

**Nineteen (19) days of centrifuge operation*

During November, sludge wasting to the sludge holding tanks and decanting of the sludge holding tanks was ongoing. Process monitoring included pH, total alkalinity and total solids.

Sludge holding tank No. 1 was in service. The level at the beginning of the month was 13.48 feet and the level at the end of the month was 10.1 feet. Zero (0) gallons of supernatant were decanted during the month. Three hundred (300) pounds of soda ash were added. The average pH concentration was measured as 6.64 S.U., average total alkalinity measured as 173 mg/l and average total solids concentration measured as 0.93%.



RCSTP Monthly Operations Report: November 2016

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 6.95 feet and the level at the end of the month was 11.48 feet. Zero (0) gallons of supernatant were decanted during the month. Three hundred (300) pounds of soda ash were added. The average pH concentration was measured as 6.95 S.U., average total alkalinity measured as 248 mg/l and average total solids concentration measured as 0.58%.

PA DEP

No activity

Significant Storm/Hydraulic Loading Events

During November, there were three (3) storm event resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24 hour period. A total of 3.32 inches of rainfall were measured during the month. These events occurred on:

- November 9th: 0.46 inches
- November 29th: 1.19 inches
- November 30th: 1.47 inches

Plant operations were adjusted to manage the precipitation to prevent exceedances of the permitted discharge limitations for Outfall 001. Adjustments included reading aeration minutes per cycle, extending decant minutes per cycle and reducing settling times. The facility experienced several filled decant cycles during the rain events.

Minor Repairs and Preventative Maintenance

November 2, 2016: Watson Marlow aluminum sulfate solution feed pumps to the SBRs failed.

November 9, 2016: SBR foam concentrations have increased to cover 40 to 50% of the surface area during React phase.

November 12, 2016: Siemens panel alarm. Aluminum sulfate solution feed pump failure.

November 17, 2016: Received chemical delivery.



**RCSTP Monthly
Operations Report:
November 2016**

November 18, 2016: John Laidely, M&S, on site working on the Watson Marlow number 2 chemical feed pump.

November 21, 2016: Replaced the intake air filter for SBR blowers numbered 1, 2 and 5.

November 23, 2016: Drained and cleaned both disc filters

November 12, 2016: Respond to a Siemens Panel alarm at 6:00 PM. Alarm was SBR 3 maximum decant.

November 28, 2016: UV lamp failures. UV bank no. 1 on line, UV bank no. 2 off line. Observed 4 lamps failed in bank no. 1 and 21 lamps failed in bank no. 2.

November 29, 2016: SBRs experiencing aerated fill cycles as a result of elevated flow rates attributed to rainfall.

November 30, 2016: Observed SBR 1 air bound. Corrected problem.

Draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
November 14, 2016

The East Goshen Township Municipal Authority held their regular public meeting on Monday, November 14, 2016 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Ed McAssey, Jack Yahraes, and Kevin Cummings. Also in attendance were: Mark Miller (Director of Public Works), Mike Ellis (Pennoni), and Stacey Fuller, Attorney.

COMMON ACRONYMS:

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

Call to Order & Pledge of Allegiance

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

West Goshen Sewer Authority

1. Dana reminded everyone that there is a meeting next Tuesday November 22nd at 10:00 am of the West Goshen Sewer Authority at their plant.
2. Ed and Jack will attend the next regular meeting of the West Goshen Sewer Authority.

Sewer Reports

1. Director of Public Works, Mark Miller provided the following report for October:

Monthly Flows: The average daily flow to West Goshen was 690,800 gallons per day.

Meters: The meters were read on a daily basis no problems to report. The portable meters were read as well. Portable meters were removed from their previous locations. They were cleaned and prepared to be reinstalled. In November the portable meters were installed at the locations that Mike Ellis and I discussed.

C.C. Collection: The pumping stations were visited on a daily basis. We had no problems to report on the Chester Creek System.

R.C. Collection – Stations were visited on a daily basis. We did have a problem at the Hershey Pump Station when the Muffin Monster tripped out causing the line to back up. DEP was notified and a report was filed. However, the amount of the carryover was very little.

We pulled the Muffin Monster to check it out and found that a hydraulic line came loose which tripped out the unit. Prior to reinstalling the unit we jetted the line to remove any grease build up. The unit was reinstalled and placed back in service.

1 R.C. Plant: No problems to report at the plant.
2 INI Repairs: We replaced 27 manhole casting and lids in the Hershey Mill Estates.
3 Alarms: We responded to 34 alarms for October.
4 PA One Calls: We received 34 PA One calls for October.
5

6 **2. Pennoni Engineer's Report for October**

7 Mike Ellis provided the following report.

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

9 Ridley Creek Sewage Treatment Plant (RCSTP):

10 The NPDES Permit expires on February 28, 2017. The permit renewal application was
11 finalized and submitted to PADEP on August 31, 2016. No changes to the existing
12 permit are proposed.

13 We evaluated alternatives for automated alkalinity chemical feed systems to eliminate
14 manual feeding and carrying bags up the exterior steps. Alternatives include changing
15 from the current soda ash treatment. A summary letter and discussion will be provided at
16 the November MA meeting.

17 We are coordinating with Dutchland about repair methodologies to address the concrete
18 spalling and coating deficiencies in SBR #3.

19 Reservoir Rd Pump Station:

20 PADEP issued the State Water Obstruction and Encroachment Permit for the pump
21 station site and Chester Creek utility crossing in June 2016; however, they are requiring a
22 separate federal authorization by the Army Corps of Engineers (ACOE). We coordinated
23 with both PADEP and ACOE on this additional review in July and are still awaiting
24 feedback.

25 The Chester Co. Conservation District (CCCD) notified us in early July that their
26 comments on the NPDES Permit application had been addressed and that they had
27 forwarded it onto PADEP for NPDES Permit issuance. CCCD subsequently issued
28 additional E&S and NPDES comments on August 19, 2016 that we are in the process of
29 addressing, including multiple discussions with CCD about the comments.

30 The Water Quality Management (WQM) Permit application was submitted to PADEP on
31 April 13, 2016. They have informally notified us that they have no comments and are
32 prepared to issue the WQM Permit once the aforementioned NPDES Permit is issued.
33 We previously prepared the front end of the bid document and Division 01 specification
34 sections, including a draft Bid Form. The Bid Form needs to be finalized. Technical
35 specifications were already prepared as part of the WQM Permit application. The full bid
36 document will be completed, assembled, and forwarded to the Township upon receipt of
37 the three remaining permits.

38 We will complete a listing of the permits, expiration dates, and renewal deadlines once
39 the three remaining permits are issued. We anticipate including that listing in future
40 Engineer's Reports to track the permit statuses.

41 RCSTP and Pump Stations' O&M Plan

42 We are continuing to add information as provided by the Township as follow up to our
43 October 5th review meeting with Mark Miller.

44 White Chimneys and Cornwallis Drive Manhole Lining

45 Work has been completed. It is our understanding that the contractor has submitted
46 invoice(s).

1 White Chimneys Manhole Replacement

2 No activity since the last report. We will provide assistance as requested by the
3 Township during construction.

4 Semi-Annual I&I Reports

5 No activity since the last report.

6 Sunoco Pipeline

7 No activity since last report. Sunoco previously agreed to add a condition to the approval
8 letter they are requesting from East Goshen that they (Sunoco) will physically locate the
9 Ashbridge PS force main at the proposed pipeline crossing location and that an East
10 Goshen representative must be present when any work is done near the force main. We
11 have also coordinated with them on a potential conflict with the proposed Reservoir Road
12 PS force main, but there has not yet been a resolution to our knowledge.

13 New Connections

14 We reviewed revised plans and calculations for the proposed grinder pump system at 3 &
15 5 School Lane, and we provided outstanding comments to the design consultant and
16 Township.

17 DCED Small Water & Sewer Program Grant

18 We coordinated scope and prepared a cost estimate for the installation of three permanent
19 gravity sewer flow meters for the Township to include in their grant application.
20

21 **3. Big Fish Environmental Services** – Scott's report for October showed that the Ridley Creek
22 sewage treatment plant outfall 001 achieved compliance with the NPDES discharge permit
23 during September 2016. Discharge to Applebrook was discontinued during September as a
24 result of a pump issue and remained out of service during October. Chemical usage utilized for
25 total phosphorus removal, pH and total alkalinity remained consistent with previous months. No
26 mechanical or operational issues were observed during operation of sludge dewatering
27 equipment.
28

29 **Approval of Minutes**

30 The minutes of the October 10, 2016 were approved as amended.
31

32 **Approval of Invoices**

33 1. Kevin moved to approve payment of the following Pennoni invoices:

- 34 a. Pennoni #717433 \$2,546.50
35 b. Pennoni #717434 \$1,009.00
36 c. Pennoni #717435 \$1,516.25
37 d. Pennoni #717436 \$1,874.25

38 Jack seconded the motion. The motion passed unanimously.

39 2. Jack moved to approve payment of the following Gawthrop Invoice:

- 40 a. Gawthrop #152899 \$ 480.00 (already paid)

41 Ed seconded the motion. The motion passed unanimously.

42 3. Kevin moved to approve payment of the following Gawthrop Invoice:

- 43 b. Gawthrop #154054 \$ 640.00

44 Ed seconded the motion. The motion passed unanimously.
45

46 **Liaison Report - None**

1 **Financial Reports**

2 Jon Altshul provided the following written report:

3 In October, the Municipal Authority recorded \$52,295 in revenues (including a \$52,000 transfer
4 from the sewer operating fund) and \$7,169 in expenses, including \$6,474 for engineering. As of
5 October 30th, the fund balance was \$1,454,152, of which \$1,374,740 is in the main construction
6 account (most of which represents the 2013 note).

7
8 The members reviewed the proposed budget for 2017 which totals \$1.2 million, less than 2016.
9 Jack moved to approve the 2017 budget as proposed. Kevin seconded the motion. The motion
10 passed unanimously.

11
12 **Goals**

13 Goals for 2016 were reviewed.

14
15 **New Business**

16 1. The budget for permits (item #12) is running out of funds. Ed moved to approve an
17 additional \$5,000 for this project. Jack seconded the motion. The motion passed unanimously.

18 2. Kevin moved to approve a \$3,000 increase for the 2016 General Services. Jack seconded the
19 motion. The motion passed unanimously.

20 3. Mike presented a proposal for West Goshen Sewer System Consultation. Pennoni
21 Associates proposes to provide engineering consultation and support to East Goshen Municipal
22 Authority for the West Goshen Sewage Treatment Plant repairs and upgrades. Kevin moved to
23 approve this new engineering budget item of \$5,000 for West Goshen consultation. Ed seconded
24 the motion. The motion passed unanimously.

25 4. Kevin moved to approve Big Fish as provider of operation and maintenance at RCSTP for
26 2017 with no increase in the fee. Jack seconded the motion. The motion passed unanimously.

27 5. Ed moved to approve Gawthrop Greenwood as attorney for 2017 with no increase in fees.
28 Jack seconded the motion. The motion passed unanimously.

29 6. Mike provided a report for the RCSTP Alkalinity Chemical Feed Alternatives. The RCSTP
30 currently uses 350 – 450 lbs/day of sodium carbonate (soda ash) for pH control. It is delivered in
31 pallets of 50 lb bags and stored in a shed located next to the SBR walkway. The bags are carried
32 by the operator to the top of the SBRs. The different alternatives were discussed. Pennoni
33 recommends a solution feeder. Liquids and totes were discussed. Mike will provide calculation
34 for liquids.

35
36 **Adjournment**

37 There being no further business, Ed moved to adjourn the meeting and Kevin seconded the
38 motion. The meeting was adjourned at 8:00 pm. The next meeting will be held on Monday,
39 December 12, 2016 at 7:00 pm.

40
41 Respectfully submitted,

42
43
44
45 Ruth Kiefer

46 Recording Secretary



INVOICE

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

Remit Payment To:
Pennoni
P.O. Box 827328
Philadelphia, PA 19182-7328

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

Invoice # : 722178
Invoice Date : 11/22/2016
Project : EGMA1504
Project Name : Reservoir Rd PS Design & Permitting

For Services Rendered through: 11/6/2016

Continued revisions to plans and NPDES permit application documents to address comments in PADEP's and CCCD's 8/19/2016 comment letter and per follow-up discussions with CCCD.

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	1,622.25
Expense :	0.00
Phase Total :	1,622.25

Amount Due This Invoice

\$1,622.25

Phase : 12 -- Permitting

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	5.75	115.00	661.25
Engineering Technician II	9.00	77.00	693.00
Engineering Technician I	4.00	67.00	268.00
Labor Total:	18.75		1,622.25

Total Phase : 12 -- Permitting

Labor :	\$1,622.25
Expense :	\$0.00

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

Labor :	\$1,622.25
Expense :	\$0.00

OK PS 12-9

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 11/22/2016

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 722178
Invoice Period: 10/17/2016 to 11/6/2016
Date: 11/22/2016
Initial Authorization: \$ 167,120.00
Contract Amount: \$ 183,119.00
Previously Invoiced: \$ 177,345.76
Current Invoice: \$ 1,622.25
Invoiced to Date (\$): \$ 178,968.01
Invoiced to Date (%): 97.73%
Remaining Budget (\$): \$ 4,150.99
Remaining Budget (%): 2.27%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 41,949.25	
Previously Invoiced:	\$ 36,176.00	
Current Invoice:	\$ 1,622.25	
Invoiced to Date (\$):	\$ 37,798.25	
Invoiced to Date (%):	90.10%	
Remaining Budget (\$):	\$ 4,151.00	
Remaining Budget (%):	9.90%	

Comments: Continued revisions to plans and NPDES permit application documents to address comments in PADEP's and CCCD's 8/19/2016 comment letter and per follow-up discussions with CCCD.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 11/6/2016

Task No.	Activity	Contract Amount*	Invoiced Effort thru 8/14/2016	Remaining Budget (\$)	Remaining Budget (%)	Completed?
1	Concept Design	\$13,655.75	\$13,655.75	-	-	Yes
2	DEP WQM Pre-App. Meeting	\$1,300.00	\$1,300.00	-	-	Yes
3	Existing Conditions Survey	\$22,783.75	\$22,783.75	-	-	Yes
4	Sewer Stakeout in Easements	\$0.00	\$0.00	-	-	Scope eliminated
5	1636 Bow Tree Dr. Boundary Survey & Easement	\$4,020.00	\$4,020.00	-	-	Yes
6	Additional Boundary Surveys & Easements	\$0.00	\$0.00	-	-	Scope eliminated
7	Geotechnical Borings	\$4,000.00	\$4,000.00	-	-	Yes
8	Install Permanent Survey Benchmarks	\$0.00	\$0.00	-	-	Scope eliminated
9	Progress Design	\$29,450.00	\$29,450.00	-	-	Yes
10	Infiltration Testing	\$1,800.00	\$1,800.00	-	-	Yes
11	Final Design	\$64,160.25	\$64,160.25	\$0.00	0%	No**
12	Permitting	\$41,950.25	\$37,798.50	\$4,151.75	10%	No***
TOTAL		\$183,120.00	\$178,968.25	\$4,151.75	2%	

*After 12/14/2015 approved re-allocation of task budgets, 5/9/2016 approval of \$7,000 supplement, 7/11/16 approval of \$4,000 supplement, and 11/14/16 approval of \$5,000 supplement.

**Need to complete Bid Form and assemble full bid document package for Township once remaining permits are issued.

*** All permit applications have been submitted, and we are awaiting issuance of four remaining permits. NPDES permit revisions have been submitted to the County Conservation District. The other outstanding permits are the PADEP Water Quality Management (WQM) Permit, Army Corps of Engineers federal authorization on the Chester Creek Small Projects Joint Permit, and Chester County Conservation District E&S approval.



INVOICE

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

Remit Payment To:
Pennoni
P.O. Box 827328
Philadelphia, PA 19182-7328

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

Invoice # : 722179
Invoice Date : 11/22/2016
Project : EGMA1601
Project Name : 2016 General Services

For Services Rendered through: 11/6/2016

Coordination with Dutchland for coating and concrete repairs to SBR #3 including site visit for photo documentation of conditions; continued feasibility analysis of automated chemical feed alternatives for alkalinity/pH control to replace existing manual soda ash feed at RCSTP; prepared marked-up plan of lawn restoration needs at the former Lockwood Chase STP (LCSTP) site for NPDES permit Notice of Termination (NOT); and coordinated LCSTP NOT process with Township staff and CCCD.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	656.75
Expense :	0.00
Phase Total :	656.75

Amount Due This Invoice

\$656.75

Fee :	15,300.00
Prior Billings :	10,899.50
Current Billings :	656.75
Total Billings :	11,556.25

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.00	115.00	115.00
Senior Engineer	4.00	110.00	440.00
Senior Engineering Technician	1.00	85.00	85.00
Engineering Technician I	0.25	67.00	16.75
Labor Total:	6.25		656.75

Total Phase : **** -- Professional Services

Labor :	\$656.75
Expense :	\$0.00

Total Project : EGMA1601 -- 2016 General Services

Labor :	\$656.75
Expense :	\$0.00

OK RS 12-9

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

East Goshen Municipal Authority
EGMA1601 Invoice Summary
Invoice Date 11/22/2016

Project:	EGMA1601		
Pennoni Job No.:	2016 General Services		
Invoice No:	722179		
Invoice Period:	10/17/2016	to	11/6/2016
Initial Authorization:	\$ 12,300.00	Date:	11/22/2016
Contract Amount:	\$ 15,300.00		
Previously Invoiced:	\$ 10,899.50		
Current Invoice:	\$ 656.75		
Invoiced to Date (\$):	\$ 11,556.25		
Invoiced to Date (%):	76%		
Remaining Budget (\$):	\$ 3,743.75		
Remaining Budget (%):	24%		

Budget by Phase:

Phase Name:	2016 General Services		
Phase Budget:	\$ 15,300.00		
Previously Invoiced:	\$ 10,899.50		
Current Invoice:	\$ 656.75		
Invoiced to Date (\$):	\$ 11,556.25		
Invoiced to Date (%):	76%		
Remaining Budget (\$):	\$ 3,743.75		
Remaining Budget (%):	24%		

Comments: Coordination with Dutchland for coating and concrete repairs to SBR #3 including site visit for photo documentation of conditions; continued feasibility analysis of automated chemical feed alternatives for alkalinity/pH control to replace existing manual soda ash feed at RCSTP; prepared marked-up plan of lawn restoration needs at the former Lockwood Chase STP (LCSTP) site for NPDES permit Notice of Termination (NOT); and coordinated LCSTP NOT process with Township staff and CCCD.



INVOICE

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

Remit Payment To:
Pennoni
P.O. Box 827328
Philadelphia, PA 19182-7328

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

Invoice # : 722181
Invoice Date : 11/22/2016
Project : EGMA1607
Project Name : Permanent Meters Grant Cost Est

For Services Rendered through: 11/6/2016

FINAL INVOICE

Prepared scoping and cost estimate for new permanent gravity sewer meters for PA DCED Small Water & Sewer Program grant application.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	355.25
Expense :	0.00
Phase Total :	355.25

Amount Due This Invoice

\$355.25

Fee :	1,000.00
Prior Billings :	0.00
Current Billings :	355.25
Total Billings :	355.25

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.75	115.00	201.25
Graduate Engineer	2.00	77.00	154.00
Labor Total:	3.75		355.25

Total Phase : **** -- Professional Services

Labor :	\$355.25
Expense :	\$0.00

Total Project : EGMA1607 -- Permanent Meters Grant Cost Est

Labor :	\$355.25
Expense :	\$0.00

alc TCS 12-9

East Goshen Municipal Authority
EGMA1607 Invoice Summary
Invoice Date 11/27/2016

Project: EGMA1607
Pennoni Job No.: Permanent Meters Grant Cost Estimate
Invoice No: 722181
Invoice Period: NTP to 11/6/2016
Initial Authorization: \$ 1,000.00 **Date:** 11/22/2016
Contract Amount: \$ 1,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 355.25
Invoiced to Date (\$): \$ 355.25
Invoiced to Date (%): 36%
Remaining Budget (\$): \$ 644.75
Remaining Budget (%): 64%

Budget by Phase:

Phase Name: Permanent Meters Grant Cost Estimate
Phase Budget: \$ 1,000.00
Previously Invoiced: \$ -
Current Invoice: \$ 355.25
Invoiced to Date (\$): \$ 355.25
Invoiced to Date (%): 36%
Remaining Budget (\$): \$ 644.75
Remaining Budget (%): 64%

Comments: Prepared scoping and cost estimate for new permanent gravity sewer meters for PA DCED Small Water & Sewer Program grant application.

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA November Financial Reports
Date: December 6, 2016

In November, the Municipal Authority recorded \$286 in interest income and \$640 in legal expenses, for a negative variance of \$354. As of November 30th, the fund balance was \$1,453,798, of which \$1,375,022 is in the main construction account (most of which represents the 2013 note).

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

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
November 2016

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
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MUNICIPAL AUTHORITY BEGINNING FUND BALANCE **1,454,151.99**

RCSTP BUDGET

REVENUE

INTEREST EARNED - RCSTP EXPANSION	07341 1020	1,500.00	284.45	2,118.16
GRANT REVENUE	07392 0800	0.00	0.00	0.00

TOTAL REVENUE		1,500.00	284.45	2,118.16
----------------------	--	-----------------	---------------	-----------------

EXPENSES

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

TOTAL EXPENSES		0.00	0.00	0.00
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RCSTP NET RESULT		1,500.00	284.45	2,118.16
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EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
November 2016

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING BUDGET				
REVENUE				
INTEREST EARNINGS	07341 1000	10.00	1.69	(29.20)
C.C. TAPPING FEES	07364 1100	4,000.00	0.00	6,000.00
R.C.TAPPING FEES	07364 1110	4,000.00	0.00	43,300.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	1,127.52
MISCELLANEOUS REVENUE	07380 1000	0.00	0.00	564.48
TRANSFER FROM SEWER OPERATING	07392 0500	93,832.00	0.00	77,000.00
TOTAL REVENUE		101,842.00	1.69	127,962.80
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	0.00	0.00	22,788.35
MISCELLANEOUS EXPENSE	07424 3000	3,000.00	0.00	1,741.62
MUNIC.AUTH.-AUDITING	07424 3110	9,500.00	0.00	8,900.00
ENGINEERING SERVICES	07424 3130	38,500.00	0.00	53,088.00
LEGAL SERVICES	07424 3140	9,000.00	640.00	8,092.79
M.C.-DVRFA-DEBT SERVICE	07471 1000	24,920.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1000	3,172.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	0.00	0.00	0.00
TOTAL EXPENSES		88,092.00	640.00	94,610.76
OPERATING NET RESULT		13,750.00	(638.31)	33,352.04

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
November 2016

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
CAPITAL BUDGET				
REVENUE				
LOAN PROCEEDS-SEWER PROJECT	07393 1001	0.00	0.00	0.00
TRANSFER FROM SEWER CAP RESERVE	07392 0900	0.00	0.00	0.00
TOTAL REVENUE		0.00	0.00	0.00
EXPENSES				
MARYDELL PUMP STATION - ENGINEER	07425 1000	0.00	0.00	0.00
MARYDELL PUMP STATION -CONSTRUCTION	07425 2000	0.00	0.00	0.00
MANHOLE COVER REPLACEMENTS	07424.7405	0.00	0.00	0.00
C.C. CAPITAL - COLLECTION	07424.7420	0.00	0.00	0.00
LOCHWOOD ABANDONMENT ENGINEER	07424 7475	0.00	0.00	0.00
LOCHWOOD ABANDONMENT CONSTRUCTION	07424 7476	0.00	0.00	0.00
LOCHWOOD ELIMINATION PHASE 2	07424 7477	0.00	0.00	0.00
HERSHEY MILL STATION - ENGINEER	07426 1000	0.00	0.00	0.00
HERSHEY MILL STATION - CONSTRUCTION	07426 2000	0.00	0.00	0.00
RESERVE PUMP STATION - ENGINEER	07427 1000	0.00	0.00	0.00
RESERVE PUMP STATION - CONSTRUCTION	07427 2000	0.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	0.00	42,948.25
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
ASBSTOS CONCRETE ENGINEERING	07429 3130	25,000.00	0.00	0.00
DIVERSION PROJ.- LEGAL	07429 3166	0.00	0.00	0.00
TOTAL EXPENSES		25,000.00	0.00	42,948.25
CAPITAL NET RESULT		(25,000.00)	0.00	(42,948.25)
MUNICIPAL AUTHORITY ENDING FUND BALANCE			1,453,798.13	

Report Date 12/06/16

GL Transaction Details

PAGE 1

MGRF18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST	EARNINGS				0.00				
	1601	JE	51240		0.43		02/01/16	INTEREST		INTEREST EARNED JANUARY 2016 07 FUND
	1601			0.00	0.43	-0.43				
	1602		51651		0.51		03/01/16	INTEREST		INTEREST EARNED FEBRUARY 2016 07 FUND
	1602			0.00	0.51	-0.94				
	1603		52095		0.51		04/04/16	INTEREST		INTEREST EARNED MARCH 2016 07 FUND
	1603			0.00	0.51	-1.45				
	1604		52568		0.62		05/03/16	INTEREST		INTEREST EARNED APRIL 2016 07 FUND
	1604			0.00	0.62	-2.07				
	1605		52983		0.18		06/03/16	INTEREST		INTEREST EARNED MAY 2016 07 FUND
	1605			0.00	0.18	-2.25				
	1606		53481		0.11		07/06/16	INTEREST		INTEREST EARNED JUNE 2016 07 FUND
			53487	36.00			07/06/16	BANK FEE		NSF FEE 7100.1000 JUNE 2016
	1606			36.00	0.11	33.64				
	1607		54001		0.61		08/04/16	INTEREST		INTEREST EARNED JULY 2016 07 FUND
	1607			0.00	0.61	33.03				
	1608		54496		0.50		09/07/16	INTEREST		INTEREST EARNED AUGUST 2016 07 FUND
	1608			0.00	0.50	32.53				

Report Date 12/06/16

GL Transaction Details

PAGE 2

MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	1609	JE	54927		0.39		10/04/16	INTEREST		INTEREST EARNED SEPT. 2016 07 FUND
1609				0.00	0.39	32.14				
1610			55430		1.25		11/02/16	INTEREST		INTERST EARNED OCTOBER 2016 07 FUND
1610				0.00	1.25	30.89				
1611			55853		1.69		12/05/16	INTEREST		INTEREST EARNED NOVEMBER 2016 07 FUND
1611				0.00	1.69	29.20				
07341-1000	****	***	*****	36.00	6.80	29.20				
07341-1020	INTEREST EARNED - CONSTRUCTION					0.00				
1601			51240		110.59		02/01/16	INTEREST		INTEREST EARNED JANUARY 2016 07 FUND
1601				0.00	110.59	-110.59				
1602			51651		103.56		03/01/16	INTEREST		INTEREST EARNED FEBRUARY 2016 07 FUND
1602				0.00	103.56	-214.15				
1603			52095		109.26		04/04/16	INTEREST		INTEREST EARNED MARCH 2016 07 FUND
1603				0.00	109.26	-323.41				
1604			52568		105.33		05/03/16	INTEREST		INTEREST EARNED APRIL 2016 07 FUND
1604				0.00	105.33	-428.74				
1605			52983		108.59		06/03/16	INTEREST		INTEREST EARNED MAY 2016 07 FUND
1605				0.00	108.59	-537.33				

Report Date 12/06/16

GL Transaction Details

PAGE 3

MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1606	JE	53468	5.00			07/06/16	BANK FEE		BANK INACTIVITY FEE - 7109.3000
			53481		134.88		07/06/16	INTEREST		INTEREST EARNED JUNE 2016 07 FUND
1606				5.00	134.88	-667.21				
1607			54001		294.21		08/04/16	INTEREST		INTEREST EARNED JULY 2016 07 FUND
1607				0.00	294.21	-961.42				
1608			54496		294.04		09/07/16	INTEREST		INTEREST EARNED AUGUST 2016 07 FUND
1608				0.00	294.04	-1,255.46				
1609			54927		284.37		10/04/16	INTEREST		INTEREST EARNED SEPT. 2016 07 FUND
1609				0.00	284.37	-1,539.83				
1610			55430		293.88		11/02/16	INTEREST		INTERST EARNED OCTOBER 2016 07 FUND
1610				0.00	293.88	-1,833.71				
1611			55853		284.45		12/05/16	INTEREST		INTEREST EARNED NOVEMBER 2016 07 FUND
1611				0.00	284.45	-2,118.16				
07341-1020	****	***	*****	5.00	2,123.16	-2,118.16				
07364-1100	C.C.		TAPPING FEES			0.00				
1606	RE		53151		2,000.00		06/15/16	53151 1		TAP IN FEE - 1329 N CHESTER RD
1606				0.00	2,000.00	-2,000.00				
1607			53688		2,000.00		07/15/16	53688 1		TAP IN FEE FOR 1631 HUNTER CIR
1607				0.00	2,000.00	-4,000.00				

Report Date 12/06/16

GL Transaction Details

PAGE 4

MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07364-1100	1609	RE	54713		2,000.00		09/22/16	54713 1		TAPPING FEE - 411 MISAK
	1609			0.00	2,000.00	-6,000.00				
07364-1100	****	***	*****	0.00	6,000.00	-6,000.00				
07364-1110	R.C.TAPPING FEES					0.00				
	1601	CR	51204		5,004.00		01/28/16	1247	7875	1 SUNNY RIDGE FARMS LLC
	1601			0.00	5,004.00	-5,004.00				
	1602	RE	51557		7,148.00		02/23/16	51557 1		TAP IN FEE-957 CORNWALLIS DR
	1602			0.00	7,148.00	-12,152.00				
	1606		53228		24,000.00		06/20/16	53228 1		TAP IN FEE - 300 NEW KENT DR
			53400		7,148.00		06/30/16	53400 1		TAP IN FEE - 946 CORNWALLIS DR
	1606			0.00	31,148.00	-43,300.00				
07364-1110	****	***	*****	0.00	43,300.00	-43,300.00				
07364-1130	CONNECTION FEES - SEWER					0.00				
	1602	CR	51318		423.00		02/05/16	804	9354	1 GEORGE SMITH & CHRISTINA CONLE
			51322		423.00		02/05/16	344	9356	1 JACOBS, ROBERT & CHERYL
			51357		423.00		02/08/16	2435	9355	1 STOFFLET, MICHAEL
	JE		51319	141.12			02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			51323	141.12			02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
			51358	141.12			02/08/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
	1602			423.36	1,269.00	-845.64				
	1607	CR	53616		423.00		07/13/16	126	9357	1 PAPPANO, JOSEPH & PATRICIA
	JE		53617	141.12			07/13/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
	1607			141.12	423.00	-1,127.52				
07364-1130	****	***	*****	564.48	1,692.00	-1,127.52				

Report Date 12/06/16

GL Transaction Details

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MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07380-1000		MISCELLANEOUS REVENUE			0.00				
1602		51319		141.12		02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51323		141.12		02/05/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
		51358		141.12		02/08/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
1602			0.00	423.36	-423.36				
1607		53617		141.12		07/13/16	PINE ROCK		ANNUAL PINE ROCK INSTALLMENT
1607			0.00	141.12	-564.48				
07380-1000	****	*** *****	0.00	564.48	-564.48				
07392-0500		TRANSFER FROM SEWER OPERATING			0.00				
1603		52022		25,000.00		03/28/16	DEPOSIT		DEPOSIT TO MUNICIPAL ACCT.
1603			0.00	25,000.00	-25,000.00				
1610		55092		52,000.00		10/12/16	DEPOSIT		DEPOSIT INTO 07100.1000 FROM SEWER 05100.1030
1610			0.00	52,000.00	-77,000.00				
07392-0500	****	*** *****	0.00	77,000.00	-77,000.00				
07424-1400		ADMINISTRATIVE WAGES			0.00				
1603	CD	51990	7,705.49			03/24/16	3013		425 EAST GOSHEN TOWNSHIP - GENERAL Q1 2016 REIMBURSEMENT FROM MUN.A
1603			7,705.49	0.00	7,705.49				
1606		53403	7,705.49			06/30/16	3021		425 EAST GOSHEN TOWNSHIP - GENERAL 2ND QTR. 2016 REIMBURSE - GEN. F
1606			7,705.49	0.00	15,410.98				
1609		54892	7,377.37			09/30/16	3031		425 EAST GOSHEN TOWNSHIP - GENERAL 3RD QTR. 2016 REIMBURSEMENT FROM M
1609			7,377.37	0.00	22,788.35				

Report Date 12/06/16

GL Transaction Details

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MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-1400	****	***	*****	22,788.35	0.00	22,788.35				
07424-3000			MISCELLANEOUS EXPENSE			0.00				
	1601		50894	978.00			01/04/16	3004	2132	PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2016 ACTIVE MEMBERSHIP DUES
			51002	163.62			01/18/16	3005	2967	SAFEGUARD CHECK ORDER FEE
			51028	500.00			01/14/16	3006	2737	COMMONWEALTH OF PA NPDES PERMITS -CHAP.92A 2016 PERMIT# PA0050504
	1601			1,641.62	0.00	1,641.62				
	1610	55390		100.00			10/31/16	3034	3353	COMMONWEALTH FINANCING AUTHORITY GRANT APPLICATION
	1610			100.00	0.00	1,741.62				
07424-3000	****	***	*****	1,741.62	0.00	1,741.62				
07424-3110			MUNIC.AUTH.-AUDITING			0.00				
	1604		52313	7,500.00			04/18/16	3015	808	MAILLIE FALCONIERO & CO. FINANCIAL STMT. EXAMINATION 2015
	1604			7,500.00	0.00	7,500.00				
	1607	53796		1,400.00			07/22/16	3026	808	MAILLIE FALCONIERO & CO. EXAMINATION OF 2015 FINANCIAL ST
	1607			1,400.00	0.00	8,900.00				
07424-3110	****	***	*****	8,900.00	0.00	8,900.00				
07424-3130			ENGINEERING SERVICES			0.00				
	1602	51394		5,905.25			02/10/16	3008	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/17/16 RCSTP & PU STATION O&M MANUAL
		51527		1,063.75			02/23/16	3010	1052	PENNONI ASSOCIATES INC. SERV.THURU 12/13/16 2015 GEN.SER
	1602			6,969.00	0.00	6,969.00				

Report Date 12/06/16

GL Transaction Details

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MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3130	1603	CD	51813	9,874.50			03/15/16	3012	1052	PENNONI ASSOCIATES INC. SERVICES THRU 2/14/16 RCSTP PS O
1603				9,874.50	0.00	16,843.50				
1604		52227		6,491.75			04/12/16	3014	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/20/16 WHITE CHIMNEY
1604				6,491.75	0.00	23,335.25				
1605		52696		4,342.25			05/10/16	3017	1052	PENNONI ASSOCIATES INC. SERVICE THRU 4/17/16 - RCSTP & P
1605				4,342.25	0.00	27,677.50				
1606		53185		10,003.25			06/17/16	3020	1052	PENNONI ASSOCIATES INC. SERVICE THRU 5/15/16 RCSTP & PUM STATION MANUAL
1606				10,003.25	0.00	37,680.75				
1607		53627		2,609.50			07/13/16	3024	1052	PENNONI ASSOCIATES INC. SERVICES THRU 6/19/16 RCSTP PERM
1607				2,609.50	0.00	40,290.25				
1608		54110		1,349.75			08/12/16	3028	1052	PENNONI ASSOCIATES INC. SERVICES THRU 7/17/16 RCSTP PERM
1608				1,349.75	0.00	41,640.00				
1609		54644		4,974.00			09/15/16	3030	1052	PENNONI ASSOCIATES INC. SERV.THUR 8/14/16 2016 GEN.SERV
1609				4,974.00	0.00	46,614.00				
1610		55131		6,474.00			10/14/16	3033	1052	PENNONI ASSOCIATES INC. SERVICES THRU 9/18/16 RCSTP PERM
1610				6,474.00	0.00	53,088.00				
07424-3130	****	***	*****	53,088.00	0.00	53,088.00				

Report Date 12/06/16

GL Transaction Details

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MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140		LEGAL SERVICES			0.00				
	1601	51149	400.00			12/17/15	3007	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICES 12/14/15 - GEN.AU
	1601		400.00	0.00	400.00				
	1602	51503	480.00			02/19/16	3009	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 1/11-1/29/16 GEN.A
	1602		480.00	0.00	880.00				
	1603	51813	1,523.50			03/15/16	3011	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE FEB.2016 - GEN. AU
	1603		1,523.50	0.00	2,403.50				
	1604	52428	540.00			04/21/16	3016	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE MARCH 2016 GEN.AUT
	1604		540.00	0.00	2,943.50				
	1605	52806	1,080.00			05/20/16	3019	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 4/7-4/15/16 GEN.AU
	1605		1,080.00	0.00	4,023.50				
	1607	53492	1,080.00			07/06/16	3022	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE MAY 2016 GEN.AUTH
		53796	709.29			07/22/16	3025	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 56/9-6/15/16 GEN.A
	1607		1,789.29	0.00	5,812.79				
	1608	54110	560.00			08/12/16	3027	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE JULY 2016 GEN.AUTH
	1608		560.00	0.00	6,372.79				
	1609	54644	600.00			09/15/16	3029	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 8/1-8/8/16 GEN.AUT
	1609		600.00	0.00	6,972.79				

Report Date 12/06/16

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MGRP18 run by BRIAN

10 : 08 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1610	CD	55131	480.00			10/14/16	3032	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. 9/9-9/12/16 GEN.AUTH
	1610			480.00	0.00	7,452.79				
	1611		55668	640.00			11/21/16	3035	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE 10/10-10/14/16
	1611			640.00	0.00	8,092.79				
07424-3140	****	***	*****	8,092.79	0.00	8,092.79				
07428-1000						0.00				
	1602		51395	2,565.50			02/10/16	103	1052	PENNONI ASSOCIATES INC. SERVICE THRU 1/17/16 RESERV.RD.P
			51528	16,747.75			02/23/16	104	1052	PENNONI ASSOCIATES INC. SERVICE THRU 12/13/15 RESERV.RD
	1602			19,313.25	0.00	19,313.25				
	1603		51812	1,934.75			03/15/16	105	1052	PENNONI ASSOCIATES INC. SERV. THRU 2/14/16 RESERV.RD PS PENNDOT HOP
			52048	1,000.00			03/30/16	106	1496	WILLIAM WOOD CO. SEWER EASEMENT -1636 BOW TREE DR
	1603			2,934.75	0.00	22,248.00				
	1604		52173	500.00			04/07/16	107	3110	COMMONWEALTH OF PENNSYLVANIA WQM PERMIT APPLICATION
			52226	3,972.75			04/12/16	108	1052	PENNONI ASSOCIATES INC. SERV. THRU 3/20/16 PH.11 RESERV PS DESIGN
			52469	1,050.00			04/25/16	109	3671	PENNDOT PERMIT - HOP APPLICATION #100373
	1604			5,522.75	0.00	27,770.75				
	1605		52695	6,629.75			05/10/16	111	1052	PENNONI ASSOCIATES INC. SERV.THUR 4/17/16 RESERVOIR RD
	1605			6,629.75	0.00	34,400.50				

Report Date 12/06/16

GL Transaction Details

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MGRP18 run by BRIAN

10 : 09 AM

Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07428-1000	1606	CD	53326	3,032.25			06/27/16	101	1052	PENNONI ASSOCIATES INC. SERV. THRU 5/15/16 RESERV.ROAD P
			53330	690.00			06/27/16	102	3242	PUSEY, DONALD EASEMENT - RESERVOIR RD. PS
1606				3,722.25	0.00	38,122.75				
1607	53631			4,024.75			07/13/16	1030	1052	PENNONI ASSOCIATES INC. SERV. THRU 6/19/16 RESERVOIR RD P
1607				4,024.75	0.00	42,147.50				
1608	54111			599.50			08/12/16	1040	1052	PENNONI ASSOCIATES INC. SERVICE THRU 7/17/16 RESERV.RD P
1608				599.50	0.00	42,747.00				
1609	54646			86.25			09/15/16	1060	1052	PENNONI ASSOCIATES INC. SERV. THRU 8/14/16 RESERVOIR RD P
1609				86.25	0.00	42,833.25				
1610	55132			115.00			10/14/16	2000	1052	PENNONI ASSOCIATES INC. SERVICES THRU 9/18/16 RESERV.RD
1610				115.00	0.00	42,948.25				
07428-1000	****	***	*****	42,948.25	0.00	42,948.25				
Grand Total				138,164.49	130,686.44	7,478.05				



CHESTER COUNTY
CONSERVATION DISTRICT

Conserving Natural Resources for Our Future

November 30, 2016

East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380

Re: Notice of Termination Approval Letter
NPDES Permit Application No.: PAI01151127
Project Name: Lockwood Chase Sewage Treatment Plant Diversion
Municipality: E Goshen, Chester County

To Whom it May Concern:

The Chester County Conservation District received a Notice of Termination form for the above-referenced project as required in accordance with 25 Pa. Code §102.7. A final site inspection was conducted of the project site on 11/29/2016 and a copy of the Earth Disturbance Inspection Report form is attached to this letter. The site inspection found that the earth disturbance activities authorized by the National Pollutant Discharge Elimination System (NPDES) Stormwater Construction, Erosion and Sedimentation Control Permit, or Erosion and Sediment Control and Stormwater Management Associated With Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities (ESCGP) have been concluded; the site has been stabilized in accordance with the requirements of 25 Pa. Code § 102.22(a)(2) (related to permanent stabilization); Post Construction Stormwater BMPs have been installed or the site restoration or reclamation is complete; and temporary erosion and sediment control BMPs have been removed.

Your permit for stormwater discharges associated with construction activities is hereby terminated effective the date of this letter. Please note that the responsible person(s) identified in Appendix B of the Notice of Termination are now responsible for the long term operation and maintenance of the Post Construction Stormwater Management BMPs installed as part of the approved permit.

If you have any questions about your application, please contact the Chester County Conservation District at 610-925-4920.

Sincerely,

Christian E. Strohmaier, Director

Enclosure: Earth Disturbance Inspection Report Form

cc: E Goshen Twp (email)
Permit copy
District folder





EARTH DISTURBANCE INSPECTION REPORT

Project Name Lockwood Chase Sewage Treatment Plant Diversion **Inspection Date** 11/29/16 **Inspection Time** 8:50 am

Weather Conditions	Rain, cool	Total Project Area	8.75
---------------------------	------------	---------------------------	------

Location	Off Dolphin Drive	Total Disturbed Area	4.45
-----------------	-------------------	-----------------------------	------

Municipality E Goshen **County** Chester

Receiving Water(s) Ridley Creek **Designated/Existing Use** HQ-TSF

Responsible Party(s) East Goshen Municipal Authority

(name & address) 1580 Paoli Pike

West Chester, PA 19380

Phone _____

Site Representative (name) _____ **Inspector** (name) Joe Sofranko

{title} _____ {title} Chester County Conservation District

Type of Inspection (check only one)

Photographs Taken Yes ☐ No ☒

Routine complete ☐ Routine partial ☐ Follow-up ☐ Complaint ☐ Final ☒

Site Description & Observations:

The site is done and stabilized. The NPDES Permit is closed out.

☐ Continued on page 3

Permit and Plan Requirements		Type of Activity (check as many as appropriate)	
Y	N		
<input checked="" type="checkbox"/>	<input type="checkbox"/> Written Erosion & Sediment Control Plan required	<input type="checkbox"/>	<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/>	<input type="checkbox"/> Written Post Construction Stormwater Management Plan required	<input type="checkbox"/>	<input type="checkbox"/> Pub. Road Constr./Maint. (PRC) <input type="checkbox"/> Pvt. Road/Residence (PRRS)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Erosion & Sediment Control Plan requested	<input type="checkbox"/>	<input type="checkbox"/> Res. Subdivision (RSBD) <input type="checkbox"/> Comm./Indust. Dev. (CMIN)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Post Construction Stormwater Management Plan requested	<input type="checkbox"/>	<input type="checkbox"/> Govmt. Facilities (GOV) <input type="checkbox"/> Recreation Facilities (RECF)
<input type="checkbox"/>	<input checked="" type="checkbox"/> E&S Permit required <input type="checkbox"/> ESCGP Permit required	<input type="checkbox"/>	<input type="checkbox"/> Utilities Facilities (UTL) <input type="checkbox"/> Agricul. Activities (AGA)
<input checked="" type="checkbox"/>	<input type="checkbox"/> NPDES Permit required	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Sewer/Water Systems (SWS) <input type="checkbox"/> Pipeline (PL)
	<input type="checkbox"/> Phased Constr. <input type="checkbox"/> Non-Phased Constr.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Remediation/Restoration (RRES) <input type="checkbox"/> Silviculture (SILV)
Permit #: PAI01151127 Exp. Date: 12/29/16			



EARTH DISTURBANCE INSPECTION REPORT

Project Name Lockwood Chase Sewage Treatment Plant Diversion Inspection Date 11/29/16 Inspection Time 8:50 am

Inspection Findings

No violations observed at this time.

Reference

- | | |
|--|---|
| | <input checked="" type="checkbox"/> (N/A) |
| a. Failure to develop a written Erosion and Sediment (E&S) Plan. | <input type="checkbox"/> (102.4) |
| b. Failure to have an E&S Plan available on site. | <input type="checkbox"/> (102.4) |
| c. Failure to submit an E&S Plan as requested. | <input type="checkbox"/> (102.4) |
| d. Failure to implement effective E&S Best Management Practices (BMPs). | <input type="checkbox"/> (102.4) |
| e. Failure to maintain effective E&S BMPs. | <input type="checkbox"/> (102.4) |
| f. Failure to use Antidegradation Best Available Combination of Technologies (ABACT) BMPs for discharges to High Quality or Exceptional Value Waters. | <input type="checkbox"/> (102.4) |
| g. Failure to obtain an NPDES Permit for Stormwater Discharges Associated with Construction Activities. | <input type="checkbox"/> (102.5) |
| h. Failure to obtain an E&S Permit. | <input type="checkbox"/> (102.5) |
| i. Failure to prepare and implement a Preparedness, Prevention and Contingency (PPC) Plan. | <input type="checkbox"/> (102.5) |
| j. Failure to submit Notice of Termination (NOT). | <input type="checkbox"/> (102.7) |
| k. Failure to develop written Post Construction Stormwater Management (PCSM) Plan/Restoration Plan. | <input type="checkbox"/> (102.8) |
| l. Failure to have PCSM Plan/Restoration Plan available on site. | <input type="checkbox"/> (102.8) |
| m. Failure to submit PCSM Plan/Restoration Plan as requested. | <input type="checkbox"/> (102.8) |
| n. Failure to implement effective PCSM BMPs. | <input type="checkbox"/> (102.8) |
| o. Failure to maintain effective PCSM BMPs. | <input type="checkbox"/> (102.8) |
| p. Failure to perform reporting and recordkeeping as required. | <input type="checkbox"/> (102.8) |
| q. Failure to implement riparian buffer or riparian forest buffer. | <input type="checkbox"/> (102.14) |
| r. Failure to meet regulatory requirements for riparian forest buffer. | <input type="checkbox"/> (102.14) |
| s. Failure to provide temporary stabilization of the earth disturbance site. | <input type="checkbox"/> (102.22) |
| t. Failure to provide permanent stabilization of the earth disturbance site. | <input type="checkbox"/> (102.22) |
| u. Failure to comply with permit conditions. | <input type="checkbox"/> (402 CSL) |
| v. Sediment or other pollutant was discharged into waters of the Commonwealth. | <input type="checkbox"/> (401 CSL) |
| w. Site conditions present a potential for pollution to waters of the Commonwealth. | <input type="checkbox"/> (402 CSL) |
| x. Failure to comply with a Department Order. | <input type="checkbox"/> (402, 611 CSL) |
| y. Failure to comply with PCSM long-term operation and maintenance requirements. | <input type="checkbox"/> (102.8) |
| z. Failure to conduct a preconstruction meeting. | <input type="checkbox"/> (102.5) |
| aa. Failure to provide proof of consultation with the Pennsylvania Natural Heritage Program regarding the presence of a State or Federal threatened or endangered species on a project site requiring a Chapter 102 permit. | <input type="checkbox"/> (102.6) |
| bb. Failure to withhold a building or other permit or approval from those proposing or conducting earth disturbance activities, which require a Department permit, until the Department or conservation district has approved/acknowledged the Chapter 102 permit. | <input type="checkbox"/> (102.43) |
| <input type="checkbox"/> Inspection of this project has revealed site conditions which constitute violations of 25 Pa. Code Chapters 92a and/or 102 and the Clean Streams Law, the act of June 22, 1937, P.L. 1987, 35 P.S. §691.1 et seq. | |

Additional information regarding these violations can be found on the back of this page.

**EARTH DISTURBANCE INSPECTION REPORT**Project Name Lockwood Chase Sewage Treatment Plant Diversion Inspection Date 11/29/16 Inspection Time 8:50 am**Continuation Sheet****Site Description & Observations:****Compliance Assistance Measures:**Follow-up Inspection will occur on or about (date) N/ASent to above
(Signature of Site Representative)11/30/16
(Date)Joe Sofranko
(Inspector's Signature)11/30/16
(Date)

The Site Representatives' signature acknowledges that they have read the report and received a copy and that they were given an opportunity to discuss it with the inspector. The signature does not necessarily mean the signee agrees with the report.



EARTH DISTURBANCE INSPECTION REPORT

Project Name Lockwood Chase Sewage Treatment Plant Diversion Inspection Date 11/29/16 Inspection Time 8:50 am

This report is official notification that a representative of the Department of Environmental Protection has conducted an inspection of your earth disturbance activity to determine compliance with Title 25, Chapter 92a, National Pollutant Discharge Elimination System, Title 25, Chapter 102, Erosion and Sediment Control, and the Pennsylvania Clean Streams Law. This representative may be an employee of the local County Conservation District, which by delegation agreement with the Department of Environmental Protection, is authorized to investigate complaints, inspect earth disturbance activities and conduct compliance actions. Any violations observed by the Department/Conservation District have been noted on this report form and constitute unlawful conduct as defined in Section 611 of the Clean Streams Law.

There will be no written confirmation of those violations from the Department. Failure to take corrective actions to resolve the violations may result in administrative, civil and/or criminal penalties being instituted by the Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.

This report does not constitute an Order or appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

For further information or assistance please contact:

Chester County Conservation District
688 Unionville Road, Suite 200
Kennett Square, PA 19348
Phone- (610) 925-4920
Fax - (610) 925-4925
www.chesco.org/conservation

cc: E Goshen Twp (email)
Project File

Christopher J. Knauer
120 Arrandale Boulevard
Exton, PA 19341

RECEIVED

NOV 15 2016

BY _____

November 15, 2016

Mr. Rick Smith, Township Manager and Secretary of Municipal Authority
East Goshen Township Municipal Authority
1580 Paoli Pike
West Chester, PA 19380

1680 E BOOT RD

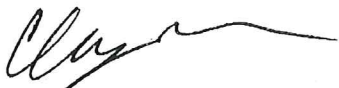
RE: EDU Capacity Request – 1680 E Boot Road, West Chester, PA 19380

Dear Mr. Smith:

We are hereby requesting capacity for 1680 E. Boot Road, West Chester, PA, 1 EDU. We are also requesting 1 additional EDU for a future lot.

Also attached please find the private sewer easement agreement with the abutting neighbors. Let us know if any additional information is required regarding this request.

Sincerely,



Christopher J Knauer



Prepared by/return to:

Joseph J. Dougherty, Esquire
6 Ponds Edge Drive, Suite 1
Chadds Ford, PA 19317
610.388.7371

✓ [#: 53-4-131.2, 53-4-133, Part of 53-4-437 and
Part of 53-4-438 ✓

SANITARY SEWER EASEMENT

This Sanitary Sewer Easement Agreement (the "Easement Agreement"), dated Sept. 9, 2016, is by and between CHRISTOPHER J. KNAUER and BETH W. KNAUER ("Knauer") and JOSEPH E. VAUGHAN and MARGARET L. VAUGHAN ("Vaughan") and KEVIN J. MCCLOSKEY and CAROLYN MCCLOSKEY ("McCloskey").

BACKGROUND

- a. Knauer is the owner of 1680 East Boot Road., East Goshen Township, Chester County, Pennsylvania, UPI # 53-4-131.2 and 53-4-133 (the "Knauer Property").
- b. Vaughan is the owner of 736 Peach Tree Drive, East Goshen Township, Chester County, Pennsylvania, UPI# 53-4-437 (the "Vaughan Property") .
- c. McCloskey is the owner of 734 Peach Tree Drive, East Goshen Township, Chester County, Pennsylvania, UPI# 53-4-438 (the "McCloskey Property").
- d. A sanitary sewer line currently exists on Peach Tree Drive (the "Sanitary Sewer Line").
- e. Both the Vaughan Property and the McCloskey Property are connected to the Sanitary Sewer Line.
- f. The Knauer Property is currently serviced by an on-site septic system.

g. Knauer desires to install two (2) sewer laterals (the "Knauer Laterals") through both the Vaughan Property and McCloskey Property in the Easement Area, one to service the existing home on the Knauer Property the second for use if Knauer desires to subdivide the Knauer Property.

h. In order to connect the Knauer Laterals, for the Knauer Property, it is necessary for Knauer to obtain a sanitary sewer easement over both the Vaughan Property and the McCloskey Property, as depicted in Exhibit "B" hereto (the "Easement Area").

NOW THEREFORE, in consideration of the mutual covenants hereinafter contained, and in consideration of the payment to Vaughan of the sum of Ten Thousand Dollars (\$10,000) and to McCloskey of the sum of Ten Thousand Dollars (\$10,000) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by both Vaughan and McCloskey, Knauer, Vaughan and McCloskey, each intending to be legally bound hereby, do hereby agree as follows:

1. Vaughan and McCloskey each grant to Knauer the free and uninterrupted right, liberty and privilege, in perpetuity to:

a. To construct, reconstruct, replace, remove, enlarge, inspect, operate, repair, make connections with and maintain perpetually Knauer Laterals and their accessories and appurtenances, as described in Exhibit A-1 for the Vaughan Property and Exhibit A-2 for the McCloskey Property hereto (the "Sewage Easement") and depicted in Exhibit "B" hereto, Exhibits A-1, A-2 and B are incorporated herein by reference as if set forth herein at length.

b. To carry away and dispose of sewage through said Knauer Laterals to the Sanitary Sewer Line.

c. To have and to hold the same perpetually to Knauer, their heirs, executors, successors or assigns, together with the right and privilege at any and all times to enter the said Sewage Easement, or any part thereof, provided that Knauer provide to both Vaughan and McCloskey, reasonable advance notification of the nature of any intended work on the premises and the expected duration of such work, for the purpose of reconstructing, replacing, removing, enlarging, inspecting, operating, repairing, maintaining, and/or making connections with the Knauer Laterals or other appropriate means of access to the Knauer Laterals all upon the condition that Knauer will at all times during the reconstruction, replacement, removal, repair or maintenance of the sewer line cause every reasonable means to be used to protect from injury or damage all property, including lawns, trees, shrubbery, fences, buildings, walls, roads, water courses, natural features, or any existing improvement thereto, and will at all times after doing any work in connection with the construction, reconstruction, replacement, removal, repair or maintenance of the Knauer Laterals, cause the said premises to be restored to the condition in which the same were found before such work was undertaken, including replacement and/or repair of damaged property, to the extent reasonably possible under the circumstances and consistent with the rights and

{00017521}

privileges herein granted. Knauer shall not, in the exercise of the rights granted hereunder, interfere with or penult interference with the rights of both Vaughan and McCloskey to the use of their respective properties.

2. Vaughan and McCloskey each do hereby release, remise, quitclaim and discharge Knauer from any claim or right to damages or other emolument of value for the rights, liberties and privileges given and granted to Knauer under this Easement Agreement.

3. Vaughan and McCloskey each hereby covenant that they are lawfully seized and possessed of a good and marketable title in fee simple to the aforesaid tract of land and that it has a good and lawful right to grant the rights and privileges herein granted to Knauer and they further covenants that they will execute or procure any additional necessary assurances of the rights and privileges herein granted.

4. Vaughan and McCloskey each hereby expressly consent to any transfer or conveyance by Knauer of each of the sewer lateral lines.

5. The provisions of this Easement Agreement shall run with the land and be binding upon and inure to the benefit of Knauer, their heirs, executors, successors or assigns, and Vaughan and McCloskey and their heirs, executors, administrators, and assigns.

6. Vaughan and McCloskey shall not undertake, authorize, permit or consent to any construction or excavation including, without limitation, digging, tunneling, or other forms of construction activity on or near the Easement Area which might in any fashion unearth, undermine, or damage the sewer line without Knauer's prior written approval. Vaughan and McCloskey further agree that no structure or obstruction including, without limitation, fences and walls shall be erected over, upon or within the Easement Area and no trees, bushes or other shrubbery shall be planted or maintained within the Easement, provided however that Vaughan and McCloskey r shall have full use of the surface of their property within the Easement Area, so long as such use does not interfere with the Easement Area or the sewer line.

7. Nothing to the contrary withstanding, however, any and all construction, maintenance, repair and/or reconstruction of the sewer line on the Vaughan Property and the McCloskey Property shall be in full conformance with rules and regulations of the East Goshen Township.

8. This Easement Agreement may not be amended or modified by any act or conduct, unless reduced to a writing signed by Knauer, Vaughan and McCloskey or their respective successors-in-title.

9. This Easement Agreement shall be governed by, and its terms construed in accordance with, the laws of the Commonwealth of Pennsylvania.

10. This Easement Agreement shall be recorded in the Office of the Recorder of Deeds in and for Chester County, Pennsylvania.

11. Every deed, lease or mortgage or other instrument conveying, leasing, mortgaging or any way affecting title to the Vaughan Property and the McCloskey Property or any interest in the Vaughan Property and the McCloskey Property shall be under and subject to this Agreement.

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

x Beth W. Knauer
Witness

Christopher J. Knauer
Christopher J. Knauer

Christopher J. Knauer
Witness

x Beth W. Knauer
Beth W. Knauer

Witness

Joseph E. Vaughan

Witness

Margaret L. Vaughan

Witness

Kevin J. McCloskey

Witness

Carolyn McCloskey

10. This Easement Agreement shall be recorded in the Office of the Recorder of Deeds in and for Chester County, Pennsylvania.

11. Every deed, lease or mortgage or other instrument conveying, leasing, mortgaging or any way affecting title to the Vaughan Property and the McCloskey Property or any interest in the Vaughan Property and the McCloskey Property shall be under and subject to this Agreement.

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

Witness

Christopher J. Knauer

Witness

Beth W. Knauer

Witness

Joseph E. Vaughan

Witness

Margaret L. Vaughan

Witness

Kevin J. McCloskey

Witness

Carolyn McCloskey

{00017521}

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Chester : SS

On this, the 9th day of Sept, 2016, before me, the undersigned officer, personally appeared CHRISTOPHER J. KNAUER AND BETH W. KNAUER, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

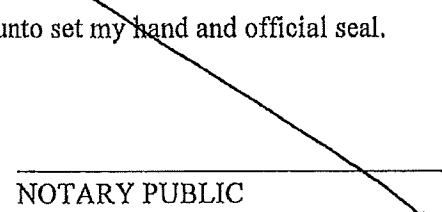
COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Bobbie Jo McCoy, Notary Public
Pennsbury Twp., Chester County
My Commission Expires Jan. 13, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
Commission Expires


NOTARY PUBLIC

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF : SS

On this, the day of , 2016, before me, the undersigned officer, personally appeared JOSEPH E. VAUGHAN AND MARGARET L. VAUGHAN, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.


NOTARY PUBLIC

Commission Expires

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF

On this, the day of , 2016, before me, the undersigned officer, personally appeared Christopher J. Knauer and Beth W. Knauer, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

NOTARY PUBLIC

Commission Expires

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF *Philadelphia*

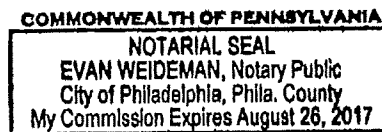
On this, the *9th* day of *September*, 2016, before me, the undersigned officer, personally appeared Joseph E. Vaughn and Margaret L. Vaughn, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

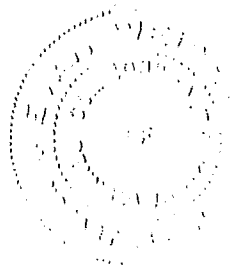


NOTARY PUBLIC

Commission Expires: *08/26/2017*



{00017368}



COMMONWEALTH OF PENNSYLVANIA :

COUNTY OF *Philadelphia*

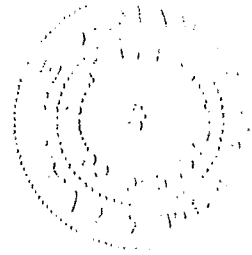
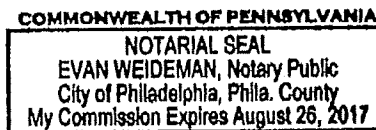
: SS

On this, the *9th* day of *September*, 2016, before me, the undersigned officer, personally appeared Kevin J. McCloskey and Carolyn McCloskey, known to me (or satisfactorily proven) to be the persons whose names are subscribed to the within instrument, and acknowledged that they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.


NOTARY PUBLIC

Commission Expires: *08/26/2017*



{00017368}

EXHIBIT "A-1"

Vaughan Easement
Description

{00017521}

CVE #20361-0000

Chris Knauer

San Lateral Easement on 53-4-437

September, 2016

Page 1 of 1.

ALL THAT CERTAIN tract or parcel of land **SITUATE** in East Goshen Township, Chester County, Pennsylvania, shown as Lateral Easement Portion on 53-4-437 on Sanitary Sewer Lateral Easement Exhibit for Chris Knauer, dated July 24, 2016, revised 9/2/2016 by Chester Valley Engineers, Inc., Paoli, Pennsylvania, and bounded and described as follows:

BEGINNING at a point on the northerly cul-de-sac right of way line of Peach Tree Drive at a common corner of lands now or late of Joseph E. and Margaret L. Vaughan (UPI #53-4-437) and lands now or late of Kevin J. and Carolyn McCloskey (UPI #53-4-438); thence from the point of beginning, along said Peach Tree Drive right of way line, along a curve to the left having a radius of 60.00 feet, an arc length of 7.52 feet and a chord bearing South 71 degrees 00 minutes 43 seconds West 7.52 feet to a point; thence leaving said Peach Tree Drive, through said lands of Vaughan, North 15 degrees 23 minutes 52 seconds West 183.35 feet to a point on line of lands now or late of Christopher J. and Beth W. Knauer; thence along said lands of Knauer, North 63 degrees 50 minutes 00 seconds East 7.63 feet to a corner of said lands of McCloskey; thence leaving said lands of Knauer, along said lands of McCloskey, South 15 degrees 23 minutes 52 seconds East 184.30 feet to a point on the said right of way line of Peach Tree Drive, and the point and place of beginning; and **ENCOMPASSING** in area 1,378 square feet of land, be the same, more or less.
BEING part of UPI #53-4-437

EXHIBIT "A-2"

McCloskey Easement Description

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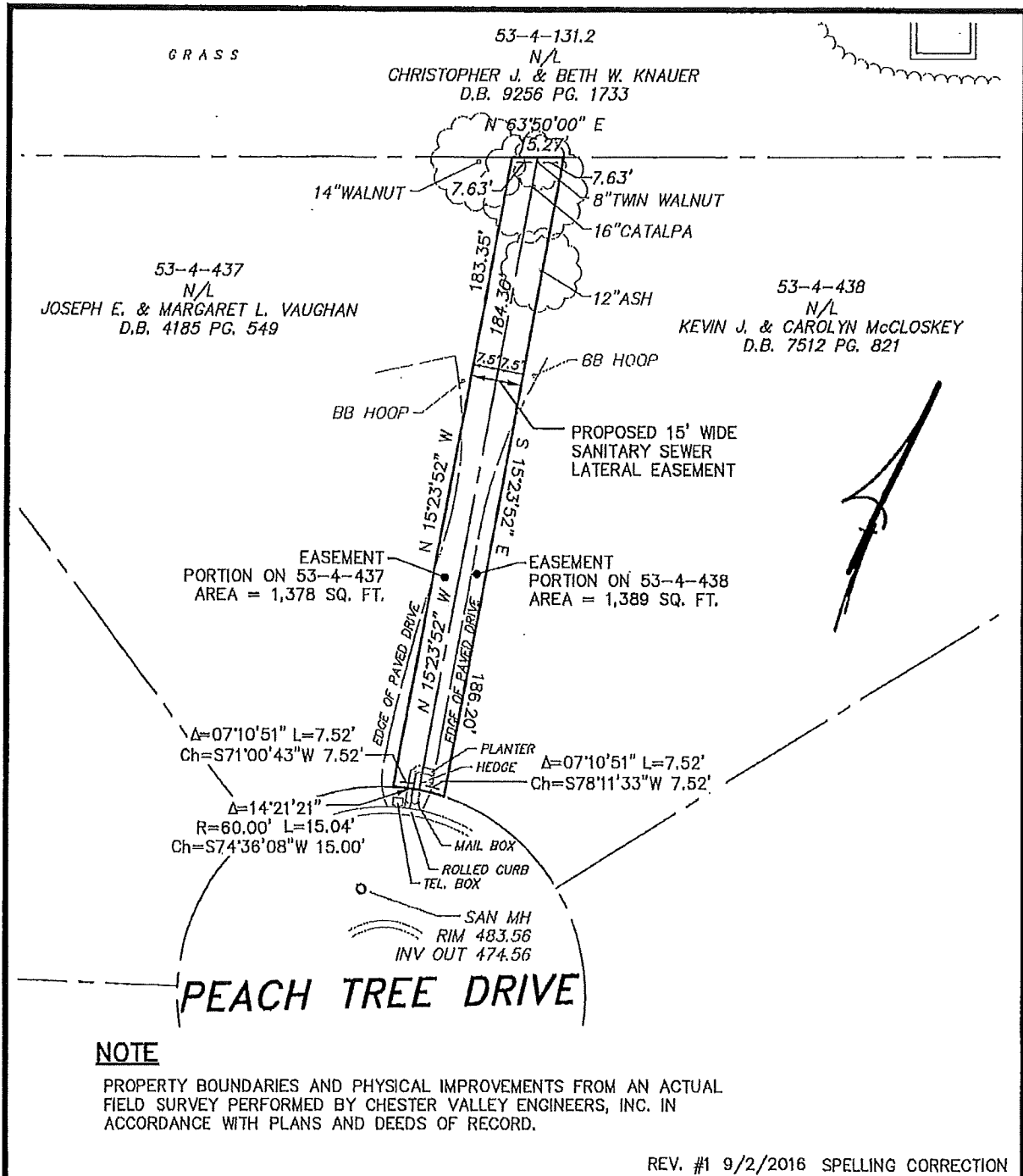
CVE #20361-0000
Chris Knauer
San Lateral Easement on 53-4-438
September 6, 2016
Page 1 of 1.

ALL THAT CERTAIN tract or parcel of land **SITUATE** in East Goshen Township, Chester County, Pennsylvania, shown as Lateral Easement Portion on 53-4-438 on Sanitary Sewer Lateral Easement Exhibit for Chris Knauer, dated July 24, 2016, revised 9/2/2016, by Chester Valley Engineers, Inc., Paoli, Pennsylvania, and bounded and described as follows:

BEGINNING at a point on the northerly cul-de-sac right of way line of Peach Tree Drive at a common corner of lands now or late of Joseph E. and Margaret L. Vaughan (UPI #53-4-437) and lands now or late of Kevin J. and Carolyn McCloskey (UPI #53-4-438); thence from the point of beginning, leaving said Peach Tree Drive, along said lands of Vaughan, North 15 degrees 23 minutes 52 seconds West 184.30 feet to a point on line of lands now or late of Christopher J. and Beth W. Knauer; thence along said lands of Knauer, North 63 degrees 50 minutes 00 seconds East 7.63 feet to a point; thence leaving said lands of Knauer, through said lands of McCloskey, South 15 degrees 23 minutes 52 seconds East 186.20 feet to a point on the said right of way line of Peach Tree Drive; thence along said right of way line, along a curve to the left having a radius of 60.00 feet, an arc length of 7.52 feet and a chord bearing South 78 degrees 11 minutes 33 seconds West 7.52 feet to a corner of said lands of Vaughan, and the point and place of beginning; and **ENCOMPASSING** in area 1,389 square feet of land, be the same, more or less. **BEING** part of UPI #53-4-438

EXHIBIT "B"

{00017521}



REV. #1 9/2/2016 SPELLING CORRECTION

Chester Valley Engineers
civil engineers & land surveyors

Chester Valley Engineers, Inc.
Main Office: 83 Chestnut Road
P.O. Box 447, Paoli, PA 19301
(610) 644-4023
(610) 889-3143 Fax
cve@chesterlv.com
http://www.chesterlv.com

**SANITARY SEWER LATERAL
EASEMENT EXHIBIT**
FOR
CHRIS KNAUER
EAST GOSHEN TOWNSHIP - CHESTER COUNTY - PENNSYLVANIA

PROJECT NO.	F.B.	SCALE	DATE	DRAWN BY	CHECKED BY	DRAWING
20361		1"=40'	7/24/2016	JDS	JDS	



HORN PLUMBING & HEATING, INC.

304 NATIONAL ROAD, SUITE 100, EXTON, PA 19341

(610) 363-4200 fax (610) 363-9080 info@hornplumbing.com

PA HIC: PA031148

December 5, 2016

Renehan Building Group
318 E. King Street
Malvern, PA 19355
610-251-9333

1668 E BOOT RD

Horn Plumbing & Heating, Inc. was hired by Renehan Building Group to video the 4" main sewer line for house 1670 E. Boot Road, West Chester. After Scott Horn the owner of Horn Plumbing & Heating, Inc. and another technician had performed the camera work, it was decided that more flow going into the sewer line would help keep it clear. Scott Horn's diagnosis is with the new low flush toilets and fixtures that are required for these new homes that the new sewer line for 1668 E. Boot Road, West Chester will help the situation of cleaning the sewer at 1670 E. Boot Road, West Chester.

***Note: The more water flow going through the 4" SDR35 sewer pipe will help prevent the grease build up that was found by videoing the 4" SDR35 sewer pipe.**

Scott Horn's opinion of connecting the two homes to the 4" SDR35 sewer line will help the situation instead of hindering the existing sewer line.

Scott L. Horn
President
Horn Plumbing & Heating, Inc.

Homeowner
WANTS TO DISCUSS
CONNECTION TO
PUBLIC SEWER (W)
PLANS AUTHORITY
ON 12/12.

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: December 9, 2016
To: Board of Supervisors
From: Rick Smith, Township Manager
Re: 1668 East Boot Road

John O'Connell purchased a building lot at 1668 East Boot and has a permit to construct a new house. The approved plan calls for the house to be served by an on-lot system. A permit has been issued by the CCHD.

Mr. O'Connell would like to connect the new house to the public sewer system, however in order to do so he would need to obtain an easement across one of the lots in Clocktower. To date he has been unsuccessful in obtaining an easement.

Dave Ludin owns the property at 1670 East Boot Road and his property is served by public sewer. In 1995 Mrs. Hankin granted the former owner of 1670 an easement across lots 348 and 358 in the Clocktower subdivision. The easement allows for the installation of a six inch sewer line to provide sewer service to one single family dwelling. The former owner installed a four inch line and connected the house to the sewer.

Apparently, Mr. Ludin is willing to allow Mr. O'Connell to utilize his sewer line to provide sewer service for Mr. O'Connell's new house.

Mr. O'Connell will attend your meeting to discuss the possible connection to the sewer system.

Issues to be resolved:

- Ludin easement is limited to one single family house. Need to amend easement.
- Maintenance responsibilities with two houses on a four inch line. When we sewer Ashbridge, we had a few places where we installed a six inch line with a clean out to provide service to two homes. However, the Township is responsible for maintenance of the six inch line.
- The Township Code requires a separate building sewer to each building unless the Township or Authority Engineer determines it to be impractical.

22.50

map filed

SANITARY SEWER EASEMENT AGREEMENT

This Sanitary Sewer Easement Agreement is made this 21th day of October, 1995, by and between Henrietta Hankin, 717 ← Constitution Drive, Eagleview Corporate Center, Post Office Box 562, Exton, PA 19341 ("Grantor") and William Wade ("Grantee").

BACKGROUND

Grantor is the owner of certain real property situate in East Goshen Township, Chester County, Pennsylvania, consisting of lots 348 and 358 as shown on a plan for residential development for "Bow Tree - Section IV" (now known as "Clocktower Woods") drawn by Chester Valley Engineers, Inc. dated May 5, 1986, last revised April 19, 1994.

→ Grantor has agreed to grant to Grantee an easement across lots 348 and 358 for the sole purpose of constructing, installing, maintaining and using a sanitary sewage lateral upon the terms and conditions more fully stated below.

NOW, THEREFORE, the parties hereto, for and in consideration of the sum of \$1.00 paid by Grantee to Grantor and intending to be legally bound hereby, agree as follows:

1. Grant of Easement. Grantor hereby grants and conveys to Grantee, his heirs, successors and assigns, an easement within the shaded area on lots 348 and 358 as depicted on a plan of "20 Foot Sanitary Sewer Easement" prepared by Landward Engineers, dated September 29, 1995, attached hereto as Exhibit "A" ("Easement"), for the purpose of installing, ←

BK4003P62085

constructing and maintaining a six inch sewer lateral ("Lateral") to provide sanitary sewer service for one single family dwelling.

2. Construction of Lateral. The Lateral shall be installed in strict conformity with the rules and regulations of East Goshen Township, or such municipal authority or public utility that has jurisdiction over the provision of sanitary sewer service (collectively "Township") and shall connect Grantee's property abutting Clocktower Woods to the sanitary sewer mains to be installed in Clock Tower Drive. Grantee shall not be authorized to undertake any construction within the Easement unless he shall have provided fifteen (15) days written notice to Grantor of the date upon which Grantee intends to commence construction and such construction shall be subject to reasonable conditions imposed by Grantor to insure that the construction does not interfere with Grantor's rights in and to the Clocktower Woods development. Upon completion of work, Grantee shall restore the surface of the Easement to the conditions that existed prior to commencement of said work.

3. Maintenance of Lateral. Grantee shall have the right of access to the Easement for the purpose of maintenance of the Lateral and shall have the duty to perform such maintenance and make such repairs and replacements as are necessary to keep the Lateral in good and safe operating condition. Unless an emergency exists, Grantee shall provide fifteen (15) days prior written notice to the Grantor, or her successors in title to lots

348 and 358, of any such maintenance and shall provide a description of the work to be performed. Following completion of any maintenance, the surface of the Easement shall be restored to the condition that existed prior to the maintenance work.

4. Use by Grantor. Grantor shall have full use and enjoyment of the Easement surface except for the purposes granted to Grantee. Grantor shall not construct or permit to be constructed, any structure or obstruction that will interfere with Grantee's rights hereunder.

5. Indemnity. Grantee shall indemnify and hold Grantor harmless from any liability, cost or expense incurred by Grantor by reason of injury to persons or damage to property arising out of or in connection with Grantee's construction, installation, use, maintenance or repair of the Lateral, except for such liability, cost or expense caused by the negligence of Grantor, or her agents.

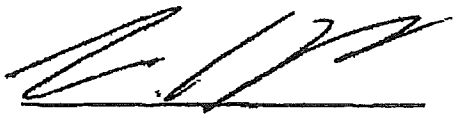
6. Binding Effect. The Easement rights conveyed to Grantee pursuant to this agreement shall be perpetual and shall inure to the benefit of and be binding upon Grantor and Grantee, and their respective heirs, legal and personal representatives, successors and assigns.

7. Entire Agreement. This document constitutes the entire agreement between the parties and may not be modified except by writing signed by both parties.

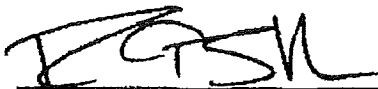
IN WITNESS WHEREOF, the parties have caused this Agreement
to be executed the day and year first written above.

WITNESS:

Henrietta Hankin, by her Attorney
In Fact



Ed Doney



Robert S. Hankin, A.I.F.


William Wade-Waid

REVISED

BK4003PG2089

END A

COMMONWEALTH OF PENNSYLVANIA :

: ss.

COUNTY OF CHESTER :

On this, the 27th day of October, 1995, before me, a
Notary Public for the Commonwealth of Pennsylvania, residing in
the County of Chester, personally appeared Robert Hankin,
Attorney-in-Fact for Henrietta Hankin, known to me to be the
person whose name is subscribed to the within Agreement and
acknowledged that he executed the same for the purposes therein
contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official
seal.

Kathleen A Urban
Notary Public

My Commission Expires:

NOTARIAL SEAL
KATHLEEN A. URBAN, Notary Public
Uwchlan Twp. Chester County
My Commission Expires April 1, 1996

BK4003PG2090

COMMONWEALTH OF PENNSYLVANIA :
: SS.
COUNTY OF CHESTER :

On this, the 27TH day of October, 1995, before me, a
Notary Public for the Commonwealth of Pennsylvania, residing in
the County of Chester, personally appeared William Wade,
known to me to be the person whose name is subscribed to the
within Agreement and acknowledged that he executed the same for
the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official
seal.

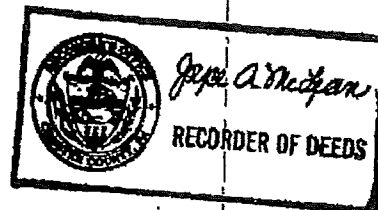
William M. Wade

Kathleen A. Urban
Notary Public

My Commission Expires:

NOTARIAL SEAL
KATHLEEN A. URBAN, Notary Public
Uwchlan Twp., Chester County
My Commission Expires April 1, 1996

BK4003P62091



13432

DATE: 03/12/1994 TIME: 12:36P INST NO.: 13432

CHESTER COUNTY, PA
OFFICE OF THE RECORDER OF DEEDS

RECEIPT NO : 039117	TYPE INC :	HISC :
REC FEE	:	22.00
LOC RTT	:	0.00
ST RTT	:	0.00
WRIT TAX	:	0.50

Hankins Group
PO Box 562
Exton Pa
19341

BK4003PG2092

