

EAST GOSHEN MUNICIPAL AUTHORITY

May 8, 2017

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. April 10, 2017

5. APPROVAL OF INVOICES

a. Pennoni Invoice #745029	\$1,261.50
b. Pennoni Invoice #745030	\$2,271.75
c. Pennoni Invoice #745031	\$ 642.25
d. Pennoni Invoice #745032	\$ 705.00
e. Pennoni Invoice #745033	\$1,094.50
f. Pennoni Invoice #745034	\$2,052.75
g. Pennoni Invoice #745035	\$2,150.50
h. Gawthrop Invoice #178786	\$2,140.00
i. West Goshen Invoice	\$222,281.72

5. LIAISON REPORTS

6. FINANCIAL REPORTS

- a. April Financial Report

7. OLD BUSINESS

- a. Update on West Goshen Agreement.

8. GOALS

- a. Operate the Ridley Creek Sewer Treatment Plant in compliance with NPDES Permit requirements. *January,*

- 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.
- 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. *May*
- f. Attend West Goshen Municipal Authority meetings to keep informed of planned capital expenditures and operation compliance. *January, February, March, April*

9. NEW BUSINESS

10. CAPACITY REQUESTS

11. ANY OTHER MATTER

12. CORRESPONDENCE AND REPORTS OF INTEREST

- a. Ridley Creek NPDES

13. PUBLIC COMMENT

14. ADJOURNMENT

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

May 5, 2017

To: Municipal Authority
From: Mark Miller
Re: April 2017 Monthly Report

Monthly Flows: The average daily flow to West Goshen was 747,000 gallons per day.

Meters: Meters were read on a daily basis; Ellis Lane meter was having problems and had to be pulled for repairs. The new meter for Reservoir Road has been ordered. All meters were calibrated last week with the exception of the Ellis Lane meter. The other meters were fine.

C.C. Collection: The pump stations were visited on a regular basis with no problems to reports. We completed the lawn restorations on the properties that we did repairs on over the winter. We are gearing up to start cleaning and televising the lines under the streets that we are planning on paving this year. Sonoco Pike Line has started working as part of their approval. We required to locate the Ashbridge force main before they started drilling.

R.C. Collection: Pump Stations were visited on a daily basis the basket was emptied and the wet well was washed down

R.C. Plant: No problems to report.

Alarms: We responded to 18 alarms for April.

PA One Calls: We received 88 PA One calls in April.



**EAST GOSHEN MUNICIPAL AUTHORITY
ENGINEER'S REPORT
May 4, 2017**

Invoices

- Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP)

- The new NPDES Permit has been finalized and became effective on May 1, 2017. It expires in 5 years. Prior to finalizing, the permit was revised by PADEP to adequately address our comments.
- Caustic soda pilot study – We submitted a letter to PADEP requesting approval to perform the pilot study, and they responded with their approval. A meeting is scheduled with Mark Miller, John Laidley (controls contractor), and me on May 9 to determine the controls system for the caustic soda chemical feed pump. We are also coordinating with chemical vendors to perform a jar/batch test, and a sampling plan has been requested from the plant operator. The intent is to tap the SBR influent pipe and install the system upon completion of the jar/batch testing.
- We are coordinating with Dutchland on the SBR tanks' CIM coating bubbling and peeling in response to the letter from Chase Corporation, the CIM manufacturer, implying that the coating was not properly installed and is not thick enough..

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 submitted a copy of the full application directly to ACOE the week of April 10, 2016.
- CCCD E&S approval was issued on February 13, 2017, and the NPDES Permit for Stormwater Discharges was issued on March 3, 2017. The NPDES Permit requires a stormwater plan be recorded with the County within 45 days. It is our understanding that the documentation has been recorded.
- The PADEP Water Quality Management (WQM) Permit was issued on March 10, 2017.
- We obtained a 1-year extension from PennDOT for the Highway Occupancy Permit.
- The bid document will be finalized and submitted upon receipt of the remaining ACOE permit.
- We will complete a listing of the permits, expiration dates, and renewal deadlines once the ACOE permit is issued.

RCSTP and Pump Stations' O&M Manual

- We received 8 boxes of historical plans, design information, permits, and correspondence, amongst other things, from the Township. Relevant data is being incorporated into the manual.

White Chimneys Manhole Replacement

- We will provide assistance as requested by the Township during construction.

Semi-Annual I&I Reports

- We expect to issue the current report by May 9, 2017.

Chapter 94 Reports

- No activity since last report.

New Connections

- No activity since last report.

West Goshen Sewer System Consultation

- We attended a field presentation by HRG on the CoMag pilot study at West Goshen's WWTP. We are also reviewing the conceptual scope vs. projected costs for their proposed improvements to the Westtown Way Pump Station.



**RCSTP Monthly Operations
Report:
April 2017**

Executive Summary

The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permitted discharge limitations during the month of March 2017. The new NPDES permit was issued and became effective May 1, 2017. Discharge to Applebrook remained off line. Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous months. No mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

Treatment Process Operation

During mid-February and March 2017, treatment process and equipment adjustments resulted in compliance with the final effluent discharge limitations for outfall 001. Collection of additional TSS samples continued during the month to assist with a means to calculate a weekly average. These additional samples provide more representative data of the typical water quality discharged on a regular basis as compared to any elevated individual discharge concentration.

The total phosphorus monthly average was reported as 23 mg/L as compared to the permitted limitation of 0.50 mg/L. Total phosphorus discharge concentrations ranged from 0.18 to 0.27 mg/L. The ammonia as nitrogen monthly concentration was reported as 0.193 mg/L as compared to the permit discharge limitation of 7.0 mg/L. The ammonia as N weekly maximum was 0.347 mg/L. The total suspended solids (TSS) monthly concentration was reported as 6 mg/L as compared to the permit discharge limitation of 10 mg/L. The weekly maximum concentration was 10 mg/L as compared to the permit discharge limitation of 15 mg/L.

Table 1 illustrates the final effluent composite sample data reported for the March 2017 eDMR. Discharge to Applebrook, Outfall 002, remained discontinued during March and will remain off line until approximately June 2017.



**RCSTP Monthly Operations
Report:
April 2017**

Table 1

March 2017 - 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											
March 7, 2017	0.343	2.3	6.6	8	22.9	0.347	0.99	0.18	0.51	1	0.0000
March 9, 2017	0.234			6	11.7						
March 16, 2017	0.423	2.9	10.2	10	35.3	0.100	0.35	0.24	0.85	1	0.0000
March 17, 2017	0.311			4	10.4						
March 21, 2017	0.366	2.0	6.1	1	3.1	0.114	0.35	0.24	0.73	2	0.3010
March 23, 2017	0.341			6	17.1						
March 28, 2017	0.398	2.0		9	29.9	0.212		0.27		6	
Average	0.345	2.3	7.6	6	18.6	0.193	0.56	0.23	0.70	1	0.1003
Minimum	0.234	2.0	6.1	1	3.1	0.100	0.35	0.18	0.51	1	0.0000
Maximum	0.423	2.9	10.2	10	35.3	0.347	0.99	0.27	0.85	6	0.3010

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 2 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during March 2017.



**RCSTP Monthly Operations
Report:
April 2017**

Table 2

March 2017 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
March 7, 2017	0.394	80.4	264	102	335	37.1	122	37.4	123	3.8	12.5
March 16, 2017	0.389	84.8	279	64	210	34.6	114	37.1	120	4.5	14.8
March 21, 2017	0.542	172	565	140	460	31.3	103	32.4	146	4.6	15.1
March 28, 2017	0.520	135	444	171	562	36.1	119	39.4	171	4.2	13.8
Average	0.461	118	388	119	392	34.8	114	36.6	140	4.3	14.0
Minimum	0.389	80	264	64	210	31.3	103	32.4	120	3.8	12.5
Maximum	0.542	172	565	171	562	37.1	122	39.4	171	4.6	15.1

Table 3 presents the available Outfall 001 final effluent data for the month of April 2017. The facility is anticipated to achieve compliance with the discharge permit limitations during the month of April.

Table 3

April 2017 - Final Effluent - Out Fall 001											
NPDES Permit Discharge Limitations	Flow	CBOD ₅		TSS		NH ₄ -N		Phosphorus, Total, mg/L		Fecal Coliform	
		mg/L	lbs/month	mg/L	lbs/month	mg/L	lbs/month	mg/L	lbs/month	Geo Mean	Geo Mean
	MGD Average	20	125	10	131	7	44	0.5	3	200	1,000
	Instantaneous Maximum	40		42							
Sample Date											
April 4, 2017	0.355	3.3	9.8	7	20.7	0.232	0.69	0.18	0.53	1	0.0000
April 6, 2017	0.481			4	16.0						
April 11, 2017	0.358	2.2	6.6	8	23.9	0.294	0.88	0.28	0.84	4	0.6021
April 13, 2017	0.336			7	19.6						
April 18, 2017	0.327							0.18	0.49		
April 21, 2017	0.318			7	18.6						
April 25, 2017	0.361										
April 27, 2017	0.333									6	
Average	0.359	2.8	8.2	7	19.8	0.263	0.78	0.21	0.62	2	0.3010
Minimum	0.318	2.2	6.6	4	16.0	0.232	0.69	0.18	0.49	1	0.0000
Maximum	0.481	3.3	9.8	8	23.9	0.294	0.88	0.28	0.84	6	0.6021



**RCSTP Monthly Operations
Report:
April 2017**

During April, the presence of foam conditions on the surface of the SBRs began to decrease with foam concentrations ranging from 40% to 60% of the area. Reduction of filled decants and adjustments to the SBR dissolved oxygen control set points to ensure adequate aeration for nitrification assisted to sustain the final effluent water quality.

During March, continued collection of additional TSS samples assisted to demonstrate consistent effluent quality. There are no anticipated exceedances of the permitted limitations for Outfall 001 for April 2017. 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

April 2017 - Influent Wastewater											
Design Basis	Flow	BOD ₅		TSS		NH ₄ -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
April 4, 2017	0.478	54.3	216	66	263	35.7	142	38.2	152	4.4	17.5
April 11, 2017	0.487	80.5	321	46	183	39.1	156	30	122	3.2	12.7
April 18, 2017	0.426										
April 24, 2017	0.480										
Average	0.468	67	268	56	223	37.4	149	34.1	137	3.8	15.1
Minimum	0.426	54	216	46	183	35.7	142	30.0	122	3.2	12.7
Maximum	0.487	81	321	66	263	39.1	156	38.2	152	4.4	17.5

Sequencing batch reactors (SBRs) numbered 2, 3 and 4 were in service during March and April. 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.



**RCSTP Monthly Operations
Report:
April 2017**

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs increased to from 53.1 gpd to 65.8 gpd. Soda ash daily addition decreased from 445 lbs./day to 372 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.

Solids Dewatering and Disposal: April 2017

Sludge Dewatering Summary	
Gallons of sludge dewatered	223,018
Number of dumpsters	4

**Eighteen (18) days of centrifuge operation*

During April, 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 11.55 feet and the level at the end of the month was 8.37 feet. Zero (0) gallons of supernatant were decanted during the month. Zero (0) pounds of soda ash were added. The average total solids concentration measured as 1.10%.

Sludge holding tank No. 2 was in service. The level at the beginning of the month was 9.82 feet and the level at the end of the month was 12.49 feet. Zero (0) gallons of supernatant were decanted during the month. Zero (0) pounds of soda ash were added. The total solids concentration measured as 0.81%.

Chemical Usage:

April 2017		
Chemical	Daily Average	Total Monthly
Soda Ash	372	11,150
Aluminum Sulfate solution	65.8	1,909
Polymer (centrifuge)	0.84	15.96

**Eighteen (18) days of centrifuge operation*



**RCSTP Monthly Operations
Report:
April 2017**

Flow data:

April 2017			
Flow Meter Location	Total Volume for Month, MG	Average Daily Flow, gpd	Daily Maximum Flow, gpd
Influent Wastewater to Screening Building*	13.621	492,367	614,400*
Influent Wastewater to SBRs	14.279	469,702	710,770**
Internal Recycle	0.810	31,169	61,178
Treated Effluent to Disc Filters	14.120	486,899	610,944
Final Effluent Discharge	9.667	333,345	481,000
Applebrook Golf Course	No Discharge	No Discharge	No Discharge

*614,400 gpd represents 81.9% capacity of the 750,000 gpd design average daily flow (ADF)

**710,770 gpd represents 94.8% capacity of the 750,000 gpd design ADF

Significant Storm/Hydraulic Loading Events

During March, there were two (2) storm events resulting in a daily precipitation amount equal to or greater than 0.5 inches measured during a 24 hour period. A total of 3.76 inches of rainfall measured during the month. These events occurred on:

March 6 th	1.12 inches
March 21 st & 22 nd	0.63 inches
March 25 th	1.04 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.

PA DEP

No activity



**RCSTP Monthly Operations
Report:
April 2017**

Minor Repairs and Preventative Maintenance

Completed replacement of the disc filter media cloth. The initial disc filter cloth media initially installed during May 2010 was replaced after approximately 6-1/2 years of service.

Replaced UV lamps and ballasts for UV bank number 1.

Flushed chemical feed lines to the SBRs.

Allied Control Services (ACS) calibrated all flow meters.

Look Ahead Preventative Maintenance Activities

Replaced the waste sludge check valve for SBR 2. SBRs 1, 3 and 4 waste sludge check valves were previously replaced with lever and weight check valves.

Overhaul centrifuge drive gear boxes and evaluation of bearings for replacement.

Rebuild sludge pump to centrifuge (Moyno brand progressive cavity pump)

Draft
EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
April 10, 2017

The East Goshen Township Municipal Authority held their regular public meeting on Monday, April 10, 2017 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Ed McAssey, Dana Pizarro, Jack Yahraes Kevin Cummings and Phil Mayer. Also in attendance were: Rick Smith (Township Manager), Mark Miller (Director of Public Works), Carmen Battavio (Township Supervisor), Mike Ellis (Pennoni), Patrick McKenna (Attorney), and Walter Wujcik, Conservancy Board.

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>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

Ed 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 first responders.
Ed asked if anyone would be recording the meeting. There was no response.

Sewer Reports

1. Director of Public Works, Mark Miller reviewed the following report for March:

Monthly Flows: The average daily flow to West Goshen was 784,000 gallons per day.

Meters: All meters were read on a daily basis. We are having problems with the Reservoir Road meter as it does not coincide with the portable meters. I have reached out to Allied Control to look at the meter. They said that it is 17 years old and is no longer made. I asked them to give us a price to replace the meter.

C.C. Collection: Pump stations were visited on a daily basis. Routine maintenance was performed. We repaired several lateral cleanout and stack pipes.

R.C. Collection: Pump stations were visited on a daily basis. Routine maintenance was performed. Repairs were made to three manholes that were leaking around the castings.

R.C. Plant: The gate at the plant is now remote operated and it makes entry to the plant much easier for everyone. Last week they installed the new turbine pump for Applebrook Golf Course. The other pump was burnt out and could not be repaired. We also re-installed tank one motive pump. This will complete the rebuilding of all the motive pumps. We are awaiting the delivery of the Godwin Pump. Once that pump comes in we will re-pipe the valve chamber so we can bypass the pump and the wet well during an emergency. The computer in the lab went down this week. Burt Deninstien was notified at 6:00 am and was on site at 7:00 am. He had to replace the hard drive. The computer was back up and running the same day.

1
2 Alarms: We responded to 22 alarms for March.

3 PA One Calls: We received 46 PA One calls for March.
4

5 **2. Pennoni Engineer's Report for February**

6 Mike Ellis provided the following report.

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

8 Ridley Creek Sewage Treatment Plant (RCSTP):

9 The NPDES Permit expired on February 28, 2017. The permit renewal application was
10 finalized and submitted to PADEP on August 31, 2016. PADEP provided the draft permit in
11 February 2017. A brief summary of the draft follows:

12 The effluent limitations for mass unit (lbs/day) and concentrations (mg/L) remain the same as
13 in the existing/expired permit, following are content changes with reference to the page
14 number in the draft permit:

15 1. Page 3 – The longitude for Outfall 001 (stream discharge) is 0.01 seconds different. This
16 is considered insignificant.

17 2. Pages 2-5 – There are now separate effluent requirements for Outfall 001 and Outfall 002
18 (Applebrook Golf Course). The limits are the same for both outfalls, but the statements below
19 the tables on pages 3 & 5 now require compliance samples be taken at each outfall, whereas
20 the existing/expired permit included a statement that samples at Outfall 001 are representative
21 of Outfall 002. As a result, sampling is not currently performed at Outfall 002. Additionally,
22 the draft permit does not define Outfall 002. The existing/expired permit defines it as “Ridley
23 Creek via a golf course irrigation pond overflow”. We question this monitoring location since
24 the pond is subject to runoff and other contamination that will occur after the plant discharges
25 to it. We will contact PADEP about these concerns.

26 3. Pages 2 & 4 – There is no longer an instantaneous maximum limit for TSS at either
27 outfall. We have no objection since this is less restrictive.

28 4. Page 6, item 1.d – A second sentence has been added explaining how compliance of
29 “observed change in the color, taste, odor or turbidity of the receiving water” will be
30 determined. The method of determining compliance was not previously specified. We
31 concur with this addition.

32 5. Page 6 – The influent BOD loading is reduced to 1,750 lbs/day for annual Chapter 94
33 reporting and for projection of “organic overload” conditions. However, the RCSTP’s design
34 and WQM Permit is for 2,098 lbs/day influent loading. We will notify PADEP that the
35 reduced loading is incorrect.

36 The draft permit was published in the PA Bulletin on March 11, 2017. There is a 30-day
37 comment period that ends on April 10, 2017. We have already spoken with PADEP about
38 Comment #5 above. And they verbally indicated no objections to making that revision. We
39 will also notify them in writing of Comments 2 and 5 by April 10, 2017.
40

41 Matt McAloon and I met at the RCSTP with Rick Smith, Mark Miller and Scott Towler on
42 March 10, 2017 to discuss the proposed chemical treatment changes to caustic soda for
43 alkalinity control and the approach to the pilot study. We intend to proceed with the pilot
44 study scope discussed at the March MA meeting. We have been coordinating with PADEP to
45 determine the extent of notification and/or approvals that are needed to perform the pilot
46 study.

1 We received an email from Dutchland and letter response from the Chase Corporation, the
2 CIM manufacturer, about the progressive deterioration of the CSIM coatings in the SBR
3 tanks.
4

5 Reservoir Road Pump Station:

6 PADEP issued the State Water Obstruction and Encroachment Permit for the pump station
7 site and Chester Creek utility crossing in June 2016; however, they are requiring a separate
8 federal authorization by the Army Corps of Engineers (ACOE). PADEP previously indicated
9 that they had sent the permit application to ACOE for ACOE to provide an authorization, but
10 the ACOE just notified us that they did not receive anything from PADEP. We are preparing
11 a copy of the full permit application and letter to submit directly to ACOE the week of April
12 10, 2017.

13 CCCD E&S approval was issued on February 13, 2017 and the NPDES Permit for
14 Stormwater Discharges was issued on March 3, 2017. The NPDES Permit requires a
15 stormwater plan be recorded with the County within 45 days, and we have provided
16 documentation for recording to the Township.

17 The PADEP Water Quality Management (WQM) Permit was issued on March 10, 2017.

18 The PennDOT Highway Occupancy Permit (HOP) expires in April 2017. We have requested
19 a 1-year extension from PennDOT.

20 The bid document will be finalized and submitted upon receipt of the remaining ACOE
21 permit and extended PennDOT HOP.

22 We will complete a listing of the permits, expiration dates, and renewal deadlines once the
23 ACOE permit is issued and the PennDOT HOP is extended. We anticipate including that
24 listing in future Engineer's Report to track the permit statuses.
25

26 RCSTP and Pump Stations' O&M Manual

27 We met with Mark Miller to review the updated version of the O&M Manual on March 23,
28 2017. The manual has been updated to address comments from that meeting. Numerous
29 boxes of historical pump and sewer system design, permits, and plans were provided
30 thereafter that we are reviewing and from which relevant data is being incorporated into the
31 manual.
32

33 White Chimneys Manhole Replacement

34 We will provide assistance as requested by the Township during construction.
35

36 Semi-Annual I&I Reports

37 We met with Mark Miller to review the I&I analysis and draft semi-annual report on March
38 23, 2017. The report will be issued by April 10, 2017.
39

40 Chapter 94 Reports

41 We finalized and submitted the 2016 Chapter 94 Annual Sewer Facilities Reports for the
42 RCSTP, West Goshen (Chester Creek) Service Area, and Westtown Service Area. There are
43 no projected hydraulic or organic overloads in the 5-year planning period for the RCSTP and
44 the collection systems and no projected hydraulic overloads at any of the pump stations for
45 the required 2-year planning period.
46

1 New Connections

2 No activity since last report.

4 DCED Small Water & Sewer Program Grant

5 The Township submitted a grant application for the installation of three permanent gravity
6 sewer flow meters in October. The grant agency, the Commonwealth Financing Authority, is
7 scheduled to award grants in March 2017. (No update since last report.)

8 West Goshen Sewer System Consultation

9 We reviewed the proposed replacement intermunicipal agreement provided by the We Goshen
10 Sewer Authority and we met with Rick Smith, Mark Miller and Pat McKenna on March 23 2017
11 about it. We attended the second quarterly WGSA municipal stakeholder's meeting at West
12 Goshen's STP on March 28, 2017. We also performed a cursory review of the proposed allocation of
13 costs between the 5 municipalities that was provided by HRG on April 6, 2017.

15 **3. Big Fish Environmental Services** – Scott's report for March showed that the Ridley Creek
16 sewage treatment plant outfall 001 experienced three (3) exceedances of the permitted discharge
17 limitations during the month of February 2017. The monthly average ammonia as nitrogen reported
18 concentration of 9.54 mg/L exceeded the permit limitation of 7.0 mg/L. There were two (2) TSS
19 exceedances; monthly average reported as 12 mg/L as compared to the permitted limitation of 10
20 mg/L and the maximum weekly average reported at 15.5 as compared to the permit limitation of 15.0
21 mg/L. Discharge to Applebrook remained off line. Chemical usage utilized for total phosphorus
22 removal, pH and total alkalinity remained consistent with previous months. No mechanical or
23 operational issues were observed during operation of sludge dewatering equipment.

24 Comments:

25 Kevin commented that when there are exceedances Scott Towler or a staff member should come to
26 the Municipal Authority's meeting for discussion. Kevin feels Scott's report wasn't clear about what
27 happened. Rick will ask Scott to come to the next meeting.

29 **Approval of Minutes**

30 The minutes of the March 13, 2017 meeting were approved as amended.

32 **Approval of Invoices**

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

- | | | | |
|----|----|-----------------|------------|
| 34 | a. | Pennoni #740666 | \$1,516.50 |
| 35 | b. | Pennoni #740667 | \$ 419.00 |
| 36 | c. | Pennoni #740668 | \$ 220.00 |
| 37 | d. | Pennoni #740669 | \$2,601.00 |
| 38 | e. | Pennoni #740670 | \$1,680.75 |
| 39 | f. | Pennoni #740671 | \$2,385.75 |

40 Dana seconded the motion. The motion passed unanimously.

41 2. Jack moved to approve payment of the following Gawthrop invoice:

- 42 a. Gawthrop Invoice #177910 \$655.00

43 Phil seconded the motion. The motion passed unanimously.

44 3. Pennoni requested additional funding as follows:

45 a. EGMA1504 Reservoir Road Pump Station - \$4,000.00. Jack moved to approve this
46 request not to exceed \$4,000.00. Dana seconded the motion. The motion passed unanimously.

b. EGMA1606 RCSTP NPDES Permit Renewal - \$1,000.00. Phil moved to approve this request not to exceed \$1,000.00. Kevin seconded the motion. The motion passed unanimously.

Liaison Report

Conservancy Board – Walter reported that Keep East Goshen Beautiful Day will be held on Saturday, April 22, 2017, which is Earth Day. The Spring planting will be held on May 6, 2017 on Reservoir Road and the Marydell pond.

Financial Reports

Jon Altshul provided the following written report:

In March 2017, the Municipal Authority recorded \$26,170 in income (primarily a \$25,000 transfer from the sewer operating fund) and \$20,941 in expenses (including \$7,724 in administrative wages: 44,600 for the audit; and \$7,962 in general engineering expenses), for a positive variance of \$5,229. As of March 31st, the fund balance was \$1,409,967 of which \$1,371,347 is in the main construction account (most of which represents the 2013 note.)

Please be aware that PFM, the Township's Financial Advisor, is planning to attend the May 2nd BOS meeting to discuss bond financing. MA members are encouraged to attend.

Comments:

Kevin commented regarding the 2016 Financial Statement, the Authority never met with the auditors.

Rick explained the process currently in place.

Dana mentioned that the "positive variance of \$5,229" isn't shown in the backup reports. Rick will check with Jon.

Rick explained that the bond issue will cover a variety of items the Township needs.

Goals

Goals for 2017 were reviewed. Ed will provide an article for the newsletter due May 1st.

Old Business

John O'Connell 1662 E. Boot Rd Easement – Mr. O'Connell has obtained the required easements. The Authority members approved this request.

West Goshen Sewer Authority - Rick provided copies of the West Goshen Draft Agreement No.

VIII. Rick also provided copies of the East Goshen revised draft agreement and explained the proposed changes. Rick reviewed costs. We will put funds for our share into an interest bearing account. West Goshen will withdraw from the account as needed. They will notify East Goshen and an audit will be done. The Authority members approved the revised amendment. It will go to the Board of Supervisors and then to the West Goshen Solicitor.

Ed and Jack attended the West Goshen meeting on March 28th. Rick received an update report on the cost of improvements and prepared a spreadsheet for review. He explained the need for the locations because East Goshen should only have to pay for repairs that our waste water goes through. Dana questioned the amounts for Westtown. The format of the agreement is okay but they need more details.

1 **New Business**
2 **Reservoir Road Meter** – The Reservoir Road meter is out of service. Since the meter is 17 years old
3 they no longer make them plus the technology has changed. Kevin moved to approve \$9,000 for
4 purchase of the new meter. Jack seconded the motion. The motion passed unanimously.
5

6 **Adjournment**
7 There being no further business, Kevin moved to adjourn the meeting. Jack seconded the motion.
8 The meeting was adjourned at 8:40 pm. The next meeting will be held on Monday, May 8, 2017 at
9 7:00 pm.

10
11 Respectfully submitted,
12

13
14
15 Ruth Kiefer
16 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 # : 745029
Invoice Date : 04/27/2017
Project : EGMA1504
Project Name : Reservoir Rd PS Design &
Permitting

For Services Rendered through: 4/16/2017

Assembled stormwater plan sheets and documentation for recordation per requirements of the NPDES Permit; reviewed DEP's issued WQM Part 2 Permit and incorporated into bid document; continued coordination with Army Corps of Engineers (ACOE) for federal permitting authorization for Chester Creek floodplain impact and creek crossing; assembled and submitted copy of DEP joint permit application package to ACOE for review per their request; and requested and obtained a 1-year time extension from PennDOT for the Highway Occupancy Permit.

Phase : 11 -- Final Design

Total Phase : 11 -- Final Design

Labor :	25.25
Expense :	0.00
Phase Total :	25.25

Phase : 12 -- Permitting

Total Phase : 12 -- Permitting

Labor :	1,236.25
Expense :	0.00
Phase Total :	1,236.25

Amount Due This Invoice

\$1,261.50

OK RS

Continued on next page...

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

...Continued from previous page

Phase : 11 -- Final Design

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>			
Project Engineer	0.25	101.00	25.25
Labor Total:	0.25		25.25

Total Phase : 11 -- Final Design

Labor : \$25.25
Expense : \$0.00

Phase : 12 -- Permitting

Labor	<i>Hours/ Units</i>	<i>Rate</i>	<i>Amount</i>
<i>Class</i>			
Authority Engineer	1.75	119.00	208.25
Project Engineer	1.75	101.00	176.75
Sr. Environmental Scientist	6.25	101.00	631.25
Associate Engineer	2.50	88.00	220.00
Labor Total:	12.25		1,236.25

Total Phase : 12 -- Permitting

Labor : \$1,236.25
Expense : \$0.00

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

Labor : \$1,261.50
Expense : \$0.00

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 4/27/2017

Project:	EGMA1504		
Pennoni Job No.:	Reservoir Rd PS Design & Permitting		
Invoice No:	745029		
Invoice Period:	3/20/2017	to	4/16/2017
Initial Authorization:	\$ 167,120.00	Date:	4/27/2017
Contract Amount:	\$ 187,120.00		
Previously Invoiced:	\$ 183,691.50		
Current Invoice:	\$ 1,261.50		
Invoiced to Date (\$):	\$ 184,953.00		
Invoiced to Date (%):	98.84%		
Remaining Budget (\$):	\$ 2,167.00		
Remaining Budget (%):	1.16%		

Budget by Phase:

Phase Name:	Final Design	Phase 11
Phase Budget:	\$ 65,170.25	
Previously Invoiced:	\$ 64,968.25	
Current Invoice:	\$ 25.25	
Invoiced to Date (\$):	\$ 64,993.50	
Invoiced to Date (%):	99.73%	
Remaining Budget (\$):	\$ 176.75	
Remaining Budget (%):	0.27%	

Comments: Assembled stormwater plan sheets and documentation for recordation per requirements of the NPDES Permit; reviewed DEP's issued WQM Part 2 Permit and incorporated into bid document; continued coordination with Army Corps of Engineers (ACOE) for federal permitting authorization for Chester Creek floodplain impact and creek crossing; assembled and submitted copy of DEP joint permit application package to ACOE for review per their request; and requested and obtained a 1-year time extension from PennDOT for the Highway Occupancy Permit.

East Goshen Municipal Authority
EGMA1504 Invoice Summary
Invoice Date 4/27/2017

Project: EGMA1504
Pennoni Job No.: Reservoir Rd PS Design & Permitting
Invoice No: 745029
Invoice Period: 1/16/2017 to 4/16/2017
Initial Authorization: \$ 167,120.00 **Date:** 4/27/2017
Contract Amount: \$ 187,120.00
Previously Invoiced: \$ 183,691.50
Current Invoice: \$ 1,261.50
Invoiced to Date (\$): \$ 184,953.00
Invoiced to Date (%): 98.84%
Remaining Budget (\$): \$ 2,167.00
Remaining Budget (%): 1.16%

Budget by Phase:

Phase Name:	Permitting	Phase 12
Phase Budget:	\$ 44,940.25	
Previously Invoiced:	\$ 41,713.75	
Current Invoice:	\$ 1,236.25	
Invoiced to Date (\$):	\$ 42,950.00	
Invoiced to Date (%):	95.57%	
Remaining Budget (\$):	\$ 1,990.25	
Remaining Budget (%):	4.43%	

Comments: Assembled stormwater plan sheets and documentation for recordation per requirements of the NPDES Permit; reviewed DEP's issued WQM Part 2 Permit and incorporated into bid document; continued coordination with Army Corps of Engineers (ACOE) for federal permitting authorization for Chester Creek floodplain impact and creek crossing; assembled and submitted copy of DEP joint permit application package to ACOE for review per their request; and requested and obtained a 1-year time extension from PennDOT for the Highway Occupancy Permit.

Reservoir Road Pump Station Design & Permitting

INVOICE SUMMARY

For Services Rendered through: 4/16/2017

Task No.	Activity	Contract Amount*	Invoiced Effort thru 3/19/2017	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	\$65,170.25	\$64,993.50	\$176.75	0.3%	No**
12	Permitting	\$44,940.25	\$42,950.25	\$1,990.00	4%	No***
TOTAL		\$187,120.00	\$184,953.25	\$2,166.75	1%	

*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, 11/14/16 approval of \$5,000 supplement, and 4/10/17 approval of \$4,000 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 one remaining permit: Army Corps of Engineers federal authorization on the Chester Creek Small Projects Joint Permit.



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 # : 745030
Invoice Date : 04/27/2017
Project : EGMA1505
Project Name : RCSTP and Pump Station O&M Manual

For Services Rendered through: 4/16/2017

Attended draft O&M Manual review meeting with PW Director; continued work on the Manual to address comments; picked-up 4 boxes of historical design, permitting, and equipment documentation on Barkway, Ashbridge, and Hershey's Mill Pump Stations and collection system sewers, reviewed and scanned documents, and incorporated applicable information into the O&M Manual.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	2,271.75
Expense :	0.00
Phase Total :	2,271.75

Amount Due This Invoice

\$2,271.75

Fee :	12,500.00
Prior Billings :	7,322.75
Current Billings :	2,271.75
Total Billings :	9,594.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	4.25	119.00	505.75
Project Engineer	6.00	101.00	606.00
Graduate Professional	14.50	80.00	1,160.00
Labor Total:	24.75		2,271.75

Total Phase : **** -- Professional Services

Labor :	\$2,271.75
Expense :	\$0.00

Total Project : EGMA1505 -- RCSTP and Pump Station O&M Manual

Labor :	\$2,271.75
Expense :	\$0.00

OIC RC

East Goshen Municipal Authority
EGMA1505 Invoice Summary
Invoice Date 4/27/2017

Project:	EGMA1505		
Pennoni Job No.:	RCSTP & Pump Station O&M Manual		
Invoice No:	745030		
Invoice Period:	1/16/2017	to	2/16/2017
Initial Authorization:	\$ 12,500.00	Date:	4/27/2017
Contract Amount:	\$ 12,500.00		
Previously Invoiced:	\$ 7,322.75		
Current Invoice:	\$ 2,271.75		
Invoiced to Date (\$):	\$ 9,594.50		
Invoiced to Date (%):	77%		
Remaining Budget (\$):	\$ 2,905.50		
Remaining Budget (%):	23%		

Budget by Phase:

Phase Name:	RCSTP & Pump Station O&M Manual		
Phase Budget:	\$ 12,500.00		
Previously Invoiced:	\$ 7,322.75		
Current Invoice:	\$ 2,271.75		
Invoiced to Date (\$):	\$ 9,594.50		
Invoiced to Date (%):	77%		
Remaining Budget (\$):	\$ 2,905.50		
Remaining Budget (%):	23%		

Comments: Attended draft O&M Manual review meeting with PW Director; continued work on the Manual to address comments; picked-up 4 boxes of historical design, permitting, and equipment documentation on Barkway, Ashbridge, and Hershey's Mill Pump Stations and collection system sewers, reviewed and scanned documents, and incorporated applicable information into the O&M Manual.



INVOICE

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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 # : 745031
Invoice Date : 04/27/2017
Project : EGMA1606
Project Name : Ridley Creek STP Permit Renewal

For Services Rendered through: 4/16/2017

Coordinated with PADEP and Township staff about comments and discrepancies on draft NPDES Permit; emailed written comments to PADEP; and reviewed revised Permit issued by PADEP to adequately address comments.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	642.25
Expense :	0.00
Phase Total :	642.25

Amount Due This Invoice

\$642.25

Fee :	5,500.00
Prior Billings :	4,709.25
Current Billings :	642.25
Total Billings :	5,351.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	4.00	119.00	476.00
Project Engineer	1.25	101.00	126.25
Graduate Professional	0.50	80.00	40.00
Labor Total:	5.75		642.25

Total Phase : **** -- Professional Services

Labor :	\$642.25
Expense :	\$0.00

Total Project : EGMA1606 -- Ridley Creek STP Permit Renewal

Labor :	\$642.25
Expense :	\$0.00

OK RS

East Goshen Municipal Authority
EGMA1606 Invoice Summary
Invoice Date 04/27/2017

Project: EGMA1606
Pennoni Job No.: Ridley Creek STP Permit Renewal
Invoice No: 745031
Invoice Period: 3/20/2017 to 4/16/2017
Initial Authorization: \$ 4,500.00 **Date:** 4/27/2017
Contract Amount: \$ 5,500.00
Previously Invoiced: \$ 4,709.25
Current Invoice: \$ 642.25
Invoiced to Date (\$): \$ 5,351.50
Invoiced to Date (%): 97%
Remaining Budget (\$): \$ 148.50
Remaining Budget (%): 3%

Budget by Phase:

Phase Name: Ridley Creek STP Permit Renewal
Phase Budget: \$ 5,500.00
Previously Invoiced: \$ 4,709.25
Current Invoice: \$ 642.25
Invoiced to Date (\$): \$ 5,351.50
Invoiced to Date (%): 97%
Remaining Budget (\$): \$ 148.50
Remaining Budget (%): 3%

Comments: Coordinated with PADEP and Township staff about comments and discrepancies on draft NPDES Permit; emailed written comments to PADEP; and reviewed revised Permit issued by PADEP to adequately address comments.



INVOICE

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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 # : 745032
Invoice Date : 04/27/2017
Project : EGMA1608
Project Name : West Goshen Sewer System
Consultati

For Services Rendered through: 4/16/2017

Reviewed West Goshen Sewer Authority's (WGSA) proposed new intermunicipal agreement and correspondence; attended meeting with East Goshen Township staff and P. McKenna to review agreement; cursory review of HRG's cost estimates for multi-year WWTP, pump station, and collection system improvements and follow-up cost sharing breakdown between tributary municipalities; attended quarterly stakeholders meeting at WGSA's WWTP on March 28, 2017; and initiated further review of scope and cost estimates for WGSA's proposed Westtown Way Pump Station improvements.

Phase : ** -- Professional Services****Total Phase : **** -- Professional Services**

Labor :	705.00
Expense :	0.00
Phase Total :	705.00

Amount Due This Invoice

\$705.00

Fee :	5,000.00
Prior Billings :	593.75
Current Billings :	705.00
Total Billings :	1,298.75

Phase : ** -- Professional Services****Labor**
Class

Hours/ Units	Rate
-----------------	------

Amount

Authority Engineer	5.50	119.00	654.50
Project Engineer	0.50	101.00	50.50
Labor Total:	6.00		705.00

Total Phase : ** -- Professional Services**

Labor :	\$705.00
Expense :	\$0.00

Total Project : EGMA1608 -- West Goshen Sewer System Consultati

Labor :	\$705.00
Expense :	\$0.00

OK RS

East Goshen Municipal Authority
EGMA1608 Invoice Summary
Invoice Date 4/27/2017

Project: EGMA1608
Pennoni Job No.: West Goshen Sewer System Consultation
Invoice No: 745032
Invoice Period: 3/20/2017 to 4/16/2017
Initial Authorization: \$ 5,000.00 **Date:** 4/27/2017
Contract Amount: \$ 5,000.00
Previously Invoiced: \$ 593.75
Current Invoice: \$ 705.00
Invoiced to Date (\$): \$ 1,298.75
Invoiced to Date (%): 26%
Remaining Budget (\$): \$ 3,701.25
Remaining Budget (%): 74%

Budget by Phase:

Phase Name: West Goshen Sewer System Consultation
Phase Budget: \$ 5,000.00
Previously Invoiced: \$ 593.75
Current Invoice: \$ 705.00
Invoiced to Date (\$): \$ 1,298.75
Invoiced to Date (%): 26%
Remaining Budget (\$): \$ 3,701.25
Remaining Budget (%): 74%

Comments: Reviewed West Goshen Sewer Authority's (WGSA) proposed new intermunicipal agreement and correspondence; attended meeting with East Goshen Township staff and P. McKenna to review agreement; cursory review of HRG's cost estimates for multi-year WWTP, pump station, and collection system improvements and follow-up cost sharing breakdown between tributary municipalities; attended quarterly stakeholders meeting at WGSA's WWTP on March 28, 2017; and initiated further review of scope and cost estimates for WGSA's proposed Westtown Way Pump Station improvements.



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 # : 745033
Invoice Date : 04/27/2017
Project : EGMA1701
Project Name : 2017 General Services

For Services Rendered through: 4/16/2017

Prepared April Engineer's Report, reviewed April RCSTP operator's report, and attended April MA meeting. Discussed proposed RCSTP caustic soda pilot study with PADEP, and prepared and submitted pilot study notification letter to PADEP for approval.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	1,094.50
Expense :	0.00
Phase Total :	1,094.50

Amount Due This Invoice

\$1,094.50

Fee :	12,700.00
Prior Billings :	5,173.00
Current Billings :	1,094.50
Total Billings :	6,267.50

Phase : **** -- Professional Services

Labor

Class

Hours/
Units

Rate

Amount

Authority Engineer	7.50	119.00	892.50
Project Engineer	2.00	101.00	202.00
Labor Total:	9.50		1,094.50

Total Phase : **** -- Professional Services

Labor :	\$1,094.50
Expense :	\$0.00

Total Project : EGMA1701 -- 2017 General Services

Labor :	\$1,094.50
Expense :	\$0.00

OK 75

East Goshen Municipal Authority
EGMA1701 Invoice Summary
Invoice Date 4/27/2017

Project: EGMA1701
Pennoni Job No.: 2017 General Services
Invoice No: 745033
Invoice Period: 3/20/2017 to 4/16/2017
Initial Authorization: \$ 12,700.00 **Date:** 4/27/2017
Contract Amount: \$ 12,700.00
Previously Invoiced: \$ 5,173.00
Current Invoice: \$ 1,094.50
Invoiced to Date (\$): \$ 6,267.50
Invoiced to Date (%): 49%
Remaining Budget (\$): \$ 6,432.50
Remaining Budget (%): 51%

Budget by Phase:

Phase Name: 2017 General Services
Phase Budget: \$ 12,700.00
Previously Invoiced: \$ 5,173.00
Current Invoice: \$ 1,094.50
Invoiced to Date (\$): \$ 6,267.50
Invoiced to Date (%): 49%
Remaining Budget (\$): \$ 6,432.50
Remaining Budget (%): 51%

Comments: Prepared April Engineer's Report, reviewed April RCSTP operator's report, and attended April MA meeting. Discussed proposed RCSTP caustic soda pilot study with PADEP, and prepared and submitted pilot study notification letter to PADEP for approval.



INVOICE
Newark, DE
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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 # : 745034
Invoice Date : 04/27/2017
Project : EGMA1702
Project Name : 2017 Semi-Annual I&I Reports

For Services Rendered through: 4/16/2017

Continued meter data analysis and preparation of Semi-Annual I&I Report #16, attended draft report review meeting with PW Director, and revised the report following the meeting.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor : 2,052.75
Expense : 0.00
Phase Total : 2,052.75

Amount Due This Invoice

2,052.75

Fee : 11,500.00
Prior Billings : 4,969.00
Current Billings : 2,052.75
Total Billings : 7,021.75

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	1.50	119.00	178.50
Project Engineer	9.25	101.00	934.25
Graduate Professional	11.75	80.00	940.00
Labor Total:	22.50		2,052.75

Total Phase : **** -- Professional Services

Labor : \$2,052.75
Expense : \$0.00

Total Project : EGMA1702 -- 2017 Semi-Annual I&I Reports

Labor : \$2,052.75
Expense : \$0.00

OKPS

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

East Goshen Municipal Authority
EGMA1702 Invoice Summary
Invoice Date 4/27/2017

Project: EGMA1702
Pennoni Job No.: 2017 Semi-Annual I&I Reports
Invoice No: 745034
Invoice Period: 3/20/2017 to 4/16/2017
Initial Authorization: \$ 11,500.00 **Date:** 4/27/2017
Contract Amount: \$ 11,500.00
Previously Invoiced: \$ 4,969.00
Current Invoice: \$ 2,052.75
Invoiced to Date (\$): \$ 7,021.75
Invoiced to Date (%): 61%
Remaining Budget (\$): \$ 4,478.25
Remaining Budget (%): 39%

Budget by Phase:

Phase Name: 2017 Semi-Annual I&I Reports
Phase Budget: \$ 11,500.00
Previously Invoiced: \$ 4,969.00
Current Invoice: \$ 2,052.75
Invoiced to Date (\$): \$ 7,021.75
Invoiced to Date (%): 61%
Remaining Budget (\$): \$ 4,478.25
Remaining Budget (%): 39%

Comments: Continued meter data analysis and preparation of Semi-Annual I&I Report #16, attended draft report review meeting with PW Director, and revised the report following the meeting.



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 # : 745035
Invoice Date : 04/27/2017
Project : EGMA1703
Project Name : 2016 Chapter 94 Reports

For Services Rendered through: 4/16/2017

Finalized and submitted Ridley Creek STP and Westtown Chapter 94 Reports to PADEP, submitted Westtown tributary report to Westtown Township also for their records, and finalized and submitted West Goshen tributary Chapter 94 Report to West Goshen Township for inclusion in their report submission to PADEP.

Phase : **** -- Professional Services

Total Phase : **** -- Professional Services

Labor :	2,150.50
Expense :	0.00
Phase Total :	2,150.50

Amount Due This Invoice

\$2,150.50

Fee :	15,000.00
Prior Billings :	5,535.00
Current Billings :	2,150.50
Total Billings :	7,685.50

Phase : **** -- Professional Services

Labor

Class	Hours/ Units	Rate	Amount
Authority Engineer	7.75	119.00	922.25
Project Engineer	3.25	101.00	328.25
Graduate Professional	11.25	80.00	900.00
Labor Total:	22.25		2,150.50

Total Phase : **** -- Professional Services

Labor :	\$2,150.50
Expense :	\$0.00

Total Project : EGMA1703 -- 2016 Chapter 94 Reports

Labor :	\$2,150.50
Expense :	\$0.00

East Goshen Municipal Authority
EGMA1703 Invoice Summary
Invoice Date 4/27/2017

Project: EGMA1703
Pennoni Job No.: 2016 Chapter 94 Reports
Invoice No: 745035
Invoice Period: 3/20/2017 to 4/16/2016
Initial Authorization: \$ 15,000.00 **Date:** 4/27/2017
Contract Amount: \$ 15,000.00
Previously Invoiced: \$ 5,535.00
Current Invoice: \$ 2,150.50
Invoiced to Date (\$): \$ 7,685.50
Invoiced to Date (%): 51%
Remaining Budget (\$): \$ 7,314.50
Remaining Budget (%): 49%

Budget by Phase:

Phase Name: 2016 Chapter 94 Reports
Phase Budget: \$ 15,000.00
Previously Invoiced: \$ 5,535.00
Current Invoice: \$ 2,150.50
Invoiced to Date (\$): \$ 7,685.50
Invoiced to Date (%): 51%
Remaining Budget (\$): \$ 7,314.50
Remaining Budget (%): 49%

Comments: Finalized and submitted Ridley Creek STP and Westtown Chapter 94 Reports to PADEP, submitted Westtown tributary report to Westtown Township also for their records, and finalized and submitted West Goshen tributary Chapter 94 Report to West Goshen Township for inclusion in their report submission to PADEP.



Gawthrop Greenwood, PC
Attorneys at Law

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

East Goshen Municipal Authority
1580 Paoli Pike
West Chester PA 19380

Page: 1
04/06/2017
Client No: 6604-001R
Invoice No. 178786

General Authority Services

Fees

		Hours
03/02/2017		
PMM	Emails (3) from/to E McAssey regarding quarterly stakeholder's meeting with West Goshen Municipal Authority; Emails from E McAssey and R Smith regarding financing for improvements to WGTSA.	0.90
03/03/2017		
PMM	Emails from R Smith regarding sewage treatment agreement with WGTMA and capital costs; Messages and telephone conference with R Smith regarding same; Email from E McAssey regarding summary of WGTSA capital projects.	0.90
03/06/2017		
PMM	Review and analyze breakdown of projects and costs from HRG.	0.20
03/09/2017		
PMM	Email from K Cummings regarding revised sewer agreement.	0.20
03/10/2017		
PMM	Email from R Smith regarding revised sewage treatment agreement.	0.20
03/12/2017		
PMM	Begin review and revisions to proposed sewer agreement.	1.20
03/13/2017		
PMM	Complete review and revisions to sewage agreement; Email to R Smith and M Ellis regarding same.	1.50
SLF	Preparation for and attendance at East Goshen Township Municipal Authority Meeting.	2.50
03/14/2017		
PMM	Emails from E McAssey regarding summary of capital costs.	0.20

OK TO PAY RS 4-11-17

General Authority Services

		Hours		
03/15/2017	PMM	Email from R Smith.	0.20	
03/16/2017	PMM	Emails from/to S Smith and R Smith regarding easement from John O'Connell; Emails from/to R Smith regarding meeting for sewer agreement.	0.60	
03/17/2017	PMM	Email from R Smith regarding East Goshen Municipal Authority costs for WGTMA capital improvements.	0.20	
03/22/2017	PMM	Emails from/to R Smith regarding proposed amended sewer agreement and existing agreements.	0.40	
03/23/2017	PMM	Attend meeting with M Ellis and R Smith regarding sewer agreement.	1.50	
		For Current Services Rendered	10.70	2,140.00

Recapitulation

<u>Timekeeper</u>	<u>Hours</u>	<u>Hourly Rate</u>	<u>Total</u>
Stacey L. Fuller	2.50	\$200.00	\$500.00
Patrick M. McKenna	8.20	200.00	1,640.00

Previous Balance \$655.00

Total Current Charges 2,140.00

03/21/2017 Payment -655.00

Balance Due \$2,140.00

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



THEODORE MURPHY, ESQ., *Chairman*
PHILIP J. CORVO, JR., *Vice-Chairman*
DAN TIERNEY, *Treasurer*
SHAUN WALSH, *Secretary*
TINAMARIE V. SMITH, *Member*

West Goshen Sewer Authority

MICHAEL MOFFA, *Wastewater Superintendent*

848 S. Concord Rd.
West Chester, PA 19382
610-696-0900
Fax: 610-429-9360

Invoice

March 28, 2017

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

APPROVED BY: _____
DATE PAID: _____
CHECK #: _____
CHARGED TO: _____

For your share of operation & maintenance costs of the sewage treatment system as per Article VI, Section 6.01(a) of the Agreement of September 6, 1977 for the period of January 01, 2016 through December 31, 2016.

Project Costs include amounts actually paid relating to construction, labor, parts, engineering, legal, and testing.

<i>Projects:</i>	<i>Costs:</i>
Structural Repairs to Primary Clarifier No. 3	\$ 389,892.25
TMDL - Engineering, Testing, & Legal	\$ 148,538.30
Grit Removal System Replacement and Headworks Improvement	\$ 208,091.66
WWTP Emergency Generator Replacement	\$ 476,683.73
Sanitary Sewer System Rehabilitation	\$ 6,510.37
Treatment Plant Doors - Hardware and Lock Upgrades	\$ 17,541.46
Enhanced Chemical Addition (pH Adjustment)	\$ 17,261.96
WWTP Driveway Entrance Improvements	\$ 18,515.23
Anaerobic Digester Replacement	\$ 46,713.09
Pump Station Bypass Connections	\$ 744.12
Dewatering Facility Upgrade	\$ 3,171.50
Total Project Costs \$ 1,333,663.67	

$$\frac{\text{W. Whiteland Allocation (gpd)}}{\text{Treatment Plant Capacity (gpd)}} = \frac{1,000,000}{6,000,000} = 0.16667 \text{ \% of Capacity}$$

$$\begin{array}{rclclcl} \text{Total Project Costs} & & \text{\% of Capacity} & & & & \\ \$1,333,663.67 & \times & 0.16667 & = & \$ 222,281.72 & \text{East Goshen's Share} \end{array}$$

Total Amount Due \$ 222,281.72
Please make Payable to "West Goshen Sewer Authority"

AMOUNT TO BE DISCUSSED AT MEETING

West Goshen Sewer Authority

Capital Projects

2016

Project	Project & Vendor	Amount	E. Goshen
<u>Anaerobic Digester Replacement Project</u>			
Anaerobic Digester Replacement Project	Glance Associates	615.00	615.00
Anaerobic Digester Replacement Project	Unruh Turner Burke & Frees	100.00	100.00
Anaerobic Digester Replacement Project	Unruh Turner Burke & Frees	1,320.00	1,320.00
Anaerobic Digester Replacement Project	William Dunleavy Roofing	2,748.00	2,748.00
Anaerobic Digester Replacement Project	HRG, Inc.	41,930.49	41,930.09
	<i>Sub-Total</i>	46,713.49	46,713.09
<u>Dewatering Facility Upgrade</u>			
Dewatering Facility Upgrade	Glance Associates	1,127.50	1,127.50
Dewatering Facility Upgrade	Glance Associates	2,044.00	2,044.00
	<i>Sub-Total</i>	3,171.50	3,171.50
<u>Enhanced Chemical Addition (pH Adjustment)</u>			
Enhanced Chemical Addition (pH Adjustment)	HRG, Inc.	15,830.46	15,830.46
Enhanced Chemical Addition (pH Adjustment)	HRG, Inc.	1,431.50	1,431.50
	<i>Sub-Total</i>	17,261.96	17,261.96
<u>Grit System Replacement & Headworks Improvement</u>			
Grit System Replacement & Headworks Improvement	HRG, Inc.	27,632.42	27,632.42
Grit System Replacement & Headworks Improvement	HRG, Inc.	5,095.00	5,095.00
Grit System Replacement & Headworks Improvement	HRG, Inc.	49,678.52	49,678.52
Grit System Replacement & Headworks Improvement	HRG, Inc.	39,362.00	39,362.00
Grit System Replacement & Headworks Improvement	HRG, Inc.	19,554.00	19,554.00
Grit System Replacement & Headworks Improvement	HRG, Inc.	34,212.66	34,212.66
Grit System Replacement & Headworks Improvement	HRG, Inc.	32,557.06	32,557.06
	<i>Sub-Total</i>	208,091.66	208,091.66
<u>MH Replacement - WT4</u>			
MH Replacement - WT4	DiRocco Brothers	29,299.87	
MH Replacement - WT4	Flotran	39.75	
MH Replacement - WT4	Lehigh Hanson	928.04	
MH Replacement - WT4	Pipe Express	2,068.33	
MH Replacement - WT4	Power Pro Equipment	36.95	
MH Replacement - WT4	Xylem	2,916.00	
	<i>Sub-Total</i>	35,288.94	
<u>Treatment Plant Doors - Hardware & Lock Upgrades</u>			
New Treatment Plant Locks	Great Valley Lockshop	17,541.46	17,541.46
	<i>Sub-Total</i>	17,541.46	17,541.46
<u>Pump Station Upgrade - PS#10</u>			
Pump Station Upgrade - PS#10	Glance Associates	3,337.44	
Pump Station Upgrade - PS#10	Glance Associates	1,738.92	
Pump Station Upgrade - PS#10	Glance Associates	2,320.65	
Pump Station Upgrade - PS#10	Glance Associates	409.50	
	<i>Sub-Total</i>	7,806.51	
<u>Pump Station Bypass Connections - Engineering</u>			
	HRG, Inc.	6,697.10	744.12
	<i>Sub-Total</i>	6,697.10	a 744.12
<u>Sanitary Sewer System Rehabilitation</u>			
Sanitary Sewer System Rehabilitation	HRG, Inc.	15,362.56	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	44,950.58	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	1,624.50	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	4,456.84	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	4,073.37	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	9,236.41	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	25,579.02	b
Sanitary Sewer System Rehabilitation	HRG, Inc.	6,697.01	b
			716.67

West Goshen Sewer Authority
Capital Projects
2016

Project	Project & Vendor	Amount	E. Goshen
Sanitary Sewer System Rehabilitation	National Water Main	117,008.10	b 1,073.70
Sanitary Sewer System Rehabilitation	National Water Main	74,693.93	b
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	980.00	980.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	660.00	660.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	1,960.00	1,960.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	100.00	100.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	740.00	740.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	120.00	120.00
Sanitary Sewer System Rehabilitation	Unruh Turner Burke & Frees	160.00	160.00
	<i>Sub-Total</i>	308,402.32	6,510.37
<u>Structural Repairs to Primary Clarifier No. 3</u>			
Structural Repairs to Primary Clarifier No. 3	Glace Associates	4,091.55	4,091.55
Structural Repairs to Primary Clarifier No. 3	Glace Associates	11,952.06	11,952.06
Structural Repairs to Primary Clarifier No. 3	Glace Associates	10,467.74	10,467.74
Structural Repairs to Primary Clarifier No. 3	Glace Associates	986.11	986.11
Structural Repairs to Primary Clarifier No. 3	Glace Associates	115.50	115.50
Structural Repairs to Primary Clarifier No. 3	HRG, Inc.	7,430.51	7,430.51
Structural Repairs to Primary Clarifier No. 3	HRG, Inc.	2,700.86	2,700.86
Structural Repairs to Primary Clarifier No. 3	HRG, Inc.	15,026.92	15,026.92
Structural Repairs to Primary Clarifier No. 3	HRG, Inc.	6,404.96	6,404.96
Structural Repairs to Primary Clarifier No. 3	HRG, Inc.	3,383.55	3,383.55
Structural Repairs to Primary Clarifier No. 3	M2 Construction	128,997.00	128,997.00
Structural Repairs to Primary Clarifier No. 3	M2 Construction	128,360.84	128,360.84
Structural Repairs to Primary Clarifier No. 3	M2 Construction	63,737.75	63,737.75
Structural Repairs to Primary Clarifier No. 3	Mitchell Mechanical	2,416.90	2,416.90
Structural Repairs to Primary Clarifier No. 3	Unruh Turner Burke & Frees	3,000.00	3,000.00
Structural Repairs to Primary Clarifier No. 3	Unruh Turner Burke & Frees	820.00	820.00
	<i>Sub-Total</i>	389,892.25	389,892.25
<u>TMDL - Engineering, Legal, & Testing</u>			
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	6,175.00	6,175.00
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	1,000.44	1,000.44
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	6,436.20	6,436.20
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	945.00	945.00
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	457.50	457.50
TMDL - Engineering, Legal, & Testing	GHD Services, Inc.	12,557.50	12,557.50
TMDL - Engineering, Legal, & Testing	Glace Associates	1,383.75	1,383.75
TMDL - Engineering, Legal, & Testing	Glace Associates	1,368.75	1,368.75
TMDL - Engineering, Legal, & Testing	Glace Associates	2,533.44	2,533.44
TMDL - Engineering, Legal, & Testing	Glace Associates	540.00	540.00
TMDL - Engineering, Legal, & Testing	Glace Associates	467.25	467.25
TMDL - Engineering, Legal, & Testing	Glace Associates	202.50	202.50
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	10,577.00	10,577.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	1,072.63	1,072.63
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	2,962.50	2,962.50
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	9,566.90	9,566.90
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	18,164.96	18,164.96
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	1,806.00	1,806.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	3,528.00	3,528.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	5,091.00	5,091.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	454.50	454.50
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	2,172.00	2,172.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	954.00	954.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	4,995.00	4,995.00
TMDL - Engineering, Legal, & Testing	Hangley Aronchick Segal Pudlin & Schiller	22,171.50	22,171.50
TMDL - Engineering, Legal, & Testing	HRG, Inc.	8,164.49	8,164.49
TMDL - Engineering, Legal, & Testing	HRG, Inc.	20,344.49	20,344.49

West Goshen Sewer Authority
Capital Projects
2016

Project	Project & Vendor	Amount	E. Goshen
TMDL - Engineering, Legal, & Testing	HRG, Inc.	15,060.50	15,060.50
TMDL - Engineering, Legal, & Testing	HRG, Inc.	1,279.44	1,279.44
TMDL - Engineering, Legal, & Testing	HRG, Inc.	1,842.50	1,842.50
TMDL - Engineering, Legal, & Testing	HRG, Inc.	3,235.00	3,235.00
TMDL - Engineering, Legal, & Testing	HRG, Inc.	548.00	548.00
TMDL - Engineering, Legal, & Testing	HRG, Inc.	655.24	655.24
TMDL - Engineering, Legal, & Testing	L/B Water Services, Inc.	1,560.11	1,560.11
TMDL - Engineering, Legal, & Testing	Suburban Water Testing Labs	774.50	774.50
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	456.00	456.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	990.00	990.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	2,360.00	2,360.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	4,000.00	4,000.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	2,880.00	2,880.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	1,000.00	1,000.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	1,280.00	1,280.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	1,200.00	1,200.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	620.00	620.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	360.00	360.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	440.00	440.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	40.00	40.00
TMDL - Engineering, Legal, & Testing	Unruh Turner Burke & Frees	4,260.00	4,260.00
TMDL - Engineering, Legal, & Testing	West Chester Borough TMDL Contribution	-36,068.60	-36,068.60
TMDL - Engineering, Legal, & Testing	West Chester Borough TMDL Contribution	-4,342.19	-4,342.19
TMDL - Engineering, Legal, & Testing	West Chester Borough TMDL Contribution	-1,984.50	-1,984.50
TMDL - Engineering, Legal, & Testing	<i>Sub-Total</i>	148,538.30	148,538.30
<u>WWTP Driveway Entrance Improvements</u>			
WWTP Driveway Entrance Improvements	HRG, Inc.	2,923.72	2,923.72
WWTP Driveway Entrance Improvements	HRG, Inc.	7,815.48	7,815.48
WWTP Driveway Entrance Improvements	HRG, Inc.	6,318.04	6,318.04
WWTP Driveway Entrance Improvements	HRG, Inc.	1,457.99	1,457.99
	<i>Sub-Total</i>	18,515.23	18,515.23
<u>WWTP Emergency Generator Replacement</u>			
WWTP Emergency Generator Replacement	Carroll Engineering	1,517.65	1,517.65
WWTP Emergency Generator Replacement	ESSCO	36,000.00	36,000.00
WWTP Emergency Generator Replacement	ESSCO	216,180.00	216,180.00
WWTP Emergency Generator Replacement	F W Houlder, Inc.	75,481.20	75,481.20
WWTP Emergency Generator Replacement	F W Houlder, Inc.	52,209.00	52,209.00
WWTP Emergency Generator Replacement	HRG, Inc.	7,741.00	7,741.00
WWTP Emergency Generator Replacement	HRG, Inc.	23,428.17	23,428.17
WWTP Emergency Generator Replacement	HRG, Inc.	26,169.00	26,169.00
WWTP Emergency Generator Replacement	HRG, Inc.	9,081.48	9,081.48
WWTP Emergency Generator Replacement	HRG, Inc.	1,467.26	1,467.26
WWTP Emergency Generator Replacement	HRG, Inc.	8,131.69	8,131.69
WWTP Emergency Generator Replacement	HRG, Inc.	8,495.54	8,495.54
WWTP Emergency Generator Replacement	HRG, Inc.	8,241.74	8,241.74
WWTP Emergency Generator Replacement	Unruh Turner Burke & Frees	1,020.00	1,020.00
WWTP Emergency Generator Replacement	Unruh Turner Burke & Frees	160.00	160.00
WWTP Emergency Generator Replacement	Unruh Turner Burke & Frees	600.00	600.00
WWTP Emergency Generator Replacement	Unruh Turner Burke & Frees	740.00	740.00
WWTP Emergency Generator Replacement	Unruh Turner Burke & Frees	20.00	20.00
WWTP Emergency Generator Replacement	<i>Sub-Total</i>	476,683.73	476,683.73
TOTAL		1,684,604.45	1,333,663.67

a - divided total amount by 9 pump stations then multiplied by number of pump stations associated with partner township.
b - See attached - "Sanitary Sewer System Rehabilitation - 2016 (National Water Main, Inc. & HRG, Inc.)"

Alloc	36	32.40	28.80
E. Gost			

Items 1-6 & Engineering allocations are based on the percent of project expenses associated with the partner twps as compared to the total project expenses:	
total amount of project expenses associated with partner twp (lines 7-45):	976.50
total amount of project expenses (lines 7-45):	152,619.53
Percent of project expenses associated with partner twp:	0.64%

project expenses associated with partner twp (lines 7-45):
total amount of project expenses (lines 7-45):
 Percent of project expenses associated with partner twp:

Memo

To: Municipal Authority
From: Jon Altshul
Re: MA April Financial Report
Date: May 5, 2017

In April, the Municipal Authority recorded \$44,855 in income (a \$40,000 transfer from the sewer operating fund and two tap-in fees on School Lane) and \$22,764 in expenses (including \$4,600 for the audit; \$12,723 in general engineering expenses; \$2,140 for legal; and \$3,301 for Reservoir Road Pump Station Engineering), for a positive variance of \$22,092.

As of April 30th, the fund balance was \$1,432,059 of which \$1,368,891 is in the main construction account (most of which represents the 2013 note).

Note that Brian and I have tweaked the format of the report. Hopefully, this change provides more clarity on the MA's finances.

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

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,404,730.64	
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE DNB CAPITAL ACCOUNT			1,371,347.36	
			33,383.28	
CAPITAL:				
REVENUE				
INTEREST EARNED - CONSTRUCTION	07341 1020	3,250.00	854.28	2,728.65
TOTAL REVENUE		3,250.00	854.28	2,728.65
EXPENSES				
C.C. CAPITAL - COLLECTION	07424 7420	212,486.00	0.00	0.00
RESERVOIR PUMP STATION - ENGINEER	07428 1000	0.00	3,300.75	7,645.00
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000	0.00	0.00	0.00
TOTAL EXPENSES		212,486.00	3,300.75	7,645.00
NET CAPITAL		(209,236.00)	(2,446.47)	(4,916.35)
MUNICIPAL AUTHORITY ENDING FUND BALANCE - CAPITAL				
MUNICIPAL AUTHORITY ENDING FUND BALANCE - 2013 NOTES (FULTON BANK)			1,402,284.17	
MUNICIPAL AUTHORITY ENDING FUND BALANCE DNB CAPITAL ACCOUNT			1,368,890.64	
			33,393.53	

EAST GOSHEN TOWNSHIP
1580 PAOLI PIKE
WEST CHESTER, PA
Municipal Authority
April 2017

Account Title	Acct #	Annual Budget	Month To Date Actual	Year To Date Actual
OPERATING:				
MUNICIPAL AUTHORITY BEGINNING FUND BALANCE - OPERATING (BB&T)			5,236.59	
REVENUE				
INTEREST EARNINGS	07341 1000	10.00	1.06	5.19
C.C. TAPPING FEES	07364 1100	14,296.00	4,000.00	4,000.00
CONNECTION FEES - SEWER	07364 1130	0.00	0.00	1,692.00
TRANSFER FROM SEWER OPERATING	07392 0500	100,755.00	40,000.00	65,000.00
TOTAL REVENUE		115,061.00	44,001.06	70,697.19
EXPENSES				
ADMINISTRATIVE WAGES	07424 1400	31,620.00	0.00	7,724.00
MISCELLANEOUS EXPENSE	07424 3000	2,500.00	0.00	987.52
MUNIC.AUTH.-AUDITING	07424 3110	9,078.00	4,600.00	9,200.00
ENGINEERING SERVICES	07424 3130	37,500.00	12,723.00	27,128.50
LEGAL SERVICES	07424 3140	9,250.00	2,140.00	4,332.50
M.C.-DVRFA-DEBT SERVICE	07471 1000	26,320.00	0.00	0.00
M.C.-DVRFA-INTEREST PAYMN	07472 1010	2,043.00	0.00	0.00
TOTAL EXPENSES		118,311.00	19,463.00	49,372.52
NET OPERATING		(3,250.00)	24,538.06	21,324.67
MUNICIPAL AUTHORITY ENDING FUND BALANCE - OPERATING			29,774.65	
MUNICIPAL AUTHORITY ENDING FUND BALANCE CAPITAL + OPERATING			1,432,058.82	

Report Date 05/05/17

GL Transaction Details

PAGE 1

MGRP18 run by BRIAN

9 : 09 AM

Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1000	INTEREST EARNINGS				0.00				
	1701 JE	56730		0.23		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701		0.00	0.23	-0.23				
	1702	57134		0.06		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702		0.00	0.06	-0.29				
	1703	57173		3.23		03/08/17	INTEREST		ADD'L INTEREST ADDED FROM JAN. 2017
		57549		0.61		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703		0.00	3.84	-4.13				
	1704	57927		1.06		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704		0.00	1.06	-5.19				
07341-1000	**** **	****	0.00	5.19	-5.19				
07341-1020	INTEREST EARNED - CONSTRUCTION				0.00				
	1701	56730		594.59		02/03/17	INTEREST		INTEREST EARNED JANUARY 2017 07 FUND
	1701		0.00	594.59	-594.59				
	1702	57134		536.20		03/06/17	INTEREST		INTEREST EARNED FEBRUARY 2017 07 FUND
	1702		0.00	536.20	-1,130.79				
	1703	57549		743.58		04/05/17	INTEREST		INTEREST EARNED MARCH 2017 07 FUND
	1703		0.00	743.58	-1,874.37				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07341-1020	1704	JE	57927		854.28		05/03/17	INTEREST		INTEREST EARNED APRIL 2017 07 FUND
	1704			0.00	854.28	-2,728.65				
07341-1020	****	***	****	0.00	2,728.65	-2,728.65				
07364-1100	C.C.		TAPPING FEES			0.00				
			57798		2,000.00		04/25/17	RECLASS		RECLASS TAP IN FEE
	RE		57797		2,000.00		04/25/17	57797 1		SEWER TAP IN - 5 SCHOOL LN C.C. TAPPING FEES
	1704			0.00	4,000.00	-4,000.00				
07364-1100	****	***	****	0.00	4,000.00	-4,000.00				
07364-1110	R.C.		TAPPING FEES			0.00				
		JE	57798	2,000.00			04/25/17	RECLASS		RECLASS TAP IN FEE
	RE		57795		2,000.00		04/25/17	57795 1		SEWER TAP IN - 3 SCHOOL LN
	1704			2,000.00	2,000.00	0.00				
07364-1110	****	***	****	2,000.00	2,000.00	0.00				
07364-1130	CONNECTION FEES - SEWER					0.00				
	1702	CR	56762		423.00		02/07/17	125 25	10162	1 JACOBS, ROBERT & CHERYL
			56823		423.00		02/13/17	125 26	10160	1 GEORGE SMITH & CHRISTINA CONLE
					423.00		02/13/17	125 27	10161	1 STOFFLET, MICHAEL
		**		0.00	846.00	***				
	1702			0.00	1,269.00	-1,269.00				
	1703		57212		423.00		03/09/17	125 54	10163	1 PAPPANO, JOSEPH & PATRICIA
	1703			0.00	423.00	-1,692.00				
07364-1130	****	***	****	0.00	1,692.00	-1,692.00				

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07392-0500					0.00				
		TRANSFER FROM SEWER OPERATING							
	JE	57171		25,000.00		03/08/17	DEPOSIT		DEPOSIT FR: SEWER TO MUNICIPAL
1703			0.00	25,000.00	-25,000.00				
1704	57579			40,000.00		04/06/17	DEPOSIT		DEPOSIT TO MA ACCT.7100.1000
1704			0.00	40,000.00	-65,000.00				
07392-0500	****	***	****	0.00	65,000.00	-65,000.00			
07424-1400					0.00				
	1703	CD 57378	7,724.00			03/22/17	3048		425 EAST GOSHEN TOWNSHIP - GENERAL QTR.1 2017 REIMBURSEMENT FROM MA
1703			7,724.00	0.00	7,724.00				
07424-1400	****	***	****	7,724.00	0.00	7,724.00			
07424-3000					0.00				
	1701	56280	984.30			01/04/17	3040		2132 PENNSYLVANIA MUNICIPAL AUTHORITIES ASSOC 2017 ACTIVE MEMBERSHIP DUES
		56424	3.22			01/13/17	3041		425 EAST GOSHEN TOWNSHIP - GENERAL CORRECT BB&T DEPOSIT OF REMAININ BALANCE OF CLOSED ACCT.1100.1010 07100.1000
1701			987.52	0.00	987.52				
07424-3000	****	***	****	987.52	0.00	987.52			
07424-3110					0.00				
	1703	57470	4,600.00			03/30/17	3049		808 MAILLIE FALCONIERO & CO. PROGRESS BILLING 2016 MUN.AUTH.
1703			4,600.00	0.00	4,600.00				
1704	57655		4,600.00			04/13/17	3052		808 MAILLIE FALCONIERO & CO. 2016 EXAM. FINAN. STMTS. MUN.AUT

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Acct #	Per	Src Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
1704			4,600.00	0.00	9,200.00				
07424-3110	****	*** ****	9,200.00	0.00	9,200.00				
07424-3130	ENGINEERING SERVICES				0.00				
1701		56425	4,399.50			01/13/17	3042	1052	PENNONI ASSOCIATES INC. SERVICES THRU 10/16/16 RCSTP & P STATION
1701			4,399.50	0.00	4,399.50				
1702		56874	2,044.00			02/17/17	3045	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 2016 CHAP
1702			2,044.00	0.00	6,443.50				
1703		57328	7,962.00			03/17/17	3047	1052	PENNONI ASSOCIATES INC. SERV. THRU 2/12/17 2017 GEN. SERV
1703			7,962.00	0.00	14,405.50				
1704		57510	5,416.50			04/03/17	3050	1052	PENNONI ASSOCIATES INC. SERV. THRU 12/11/16 2016 GEN. SERV
		57655	7,306.50			04/13/17	3053	1052	PENNONI ASSOCIATES INC. SERVICE THRU 3/19/17 RCSTP PERMI
1704			12,723.00	0.00	27,128.50				
07424-3130	****	*** ****	27,128.50	0.00	27,128.50				
07424-3140	LEGAL SERVICES				0.00				
1701		56550	940.00			01/25/17	3043	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - DEC. 2016 GEN. AU
1701			940.00	0.00	940.00				
1702		56874	597.50			02/17/17	3044	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - JAN. 2017 GEN. AUT
1702			597.50	0.00	1,537.50				

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Acct #	Per	Src	Trx #	Debits	Credits	Beg/End Bal	Date	Check/Ref #	ID #	Name/Description
07424-3140	1703	CD	57328	655.00			03/17/17	3046	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERV. FEB.2017 GEN.AUTHORI
	1703			655.00	0.00	2,192.50				
	1704	57655		2,140.00			04/13/17	3051	528	GAWTHROP GREENWOOD & HALSTED LEGAL SERVICE - MARCH 2017 GEN.A
	1704			2,140.00	0.00	4,332.50				
07424-3140	****	***	****	4,332.50	0.00	4,332.50				
07428-1000	RESERVOIR PUMP STATION - ENGINEER					0.00				
	1701	56426		2,546.50			01/13/17	22002	1052	PENNONI ASSOCIATES INC. SERVICE THRU 10/16/16 RESERV.RD
		56551		375.00			01/25/17	22003	263	CHESTER COUNTY CONSERVATION DISTRICT RESERVOIR RD. NPDES PLAN REVIEW
	1701			2,921.50	0.00	2,921.50				
	1702	56875		1,422.75			02/17/17	22004	1052	PENNONI ASSOCIATES INC. SERVICES THRU 1/15/17 RESERV.RD
	1702			1,422.75	0.00	4,344.25				
	1704	57511		1,784.25			04/03/17	22005	1052	PENNONI ASSOCIATES INC. SERV.THUR 12/11/17 RESERVOIR RD.
		57656		1,516.50			04/13/17	22006	1052	PENNONI ASSOCIATES INC. SERV.THUR 3/19/17 RESERV.RD PS
	1704			3,300.75	0.00	7,645.00				
07428-1000	****	***	****	7,645.00	0.00	7,645.00				
Grand Total				59,017.52	75,425.84	-16,408.32				

Source	Debits	Credits
JE	2,000.00	69,733.84
RE	0.00	4,000.00
CR	0.00	1,692.00
CD	57,017.52	0.00
	59,017.52	75,425.84



April 18, 2017

CERTIFIED MAIL NO. 7015 0640 0002 3147 7148

Mr. Louis Smith
Township Manager
East Goshen Municipal Authority
1580 Paoli Pike
West Chester, PA 19380-6107

Re: Final NPDES Permit- Sewage
East Goshen Municipal Authority
NPDES Permit No. PA0050504
Authorization ID No. 1150974
East Goshen Township, Chester County

Dear Mr. Smith:

Your NPDES permit is enclosed. Please read the permit carefully. The permit expires on the date identified on page 1 of the permit. A renewal application must be submitted to this office 180 days prior to the permit expiration date, if a discharge is expected to continue past the expiration date of the permit.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

Mr. Louis Smith

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If you have any questions, please contact Mr. James (Jim) M. McTish, Jr. at 484.250.5180.

Sincerely,



Jenifer L. Fields, P.E.
Environmental Program Manager
Clean Water Program

Enclosures

cc: Mr. Michael Ellis – Pennoni Associates, Inc.
Mr. David Kovach - DRBC
Chester County Health Department (w/o enclosures)
Central Office, Division of Operations, Monitoring and Data Systems
Operations Section
Re

RECEIVED
APR 21 2017
PENNONI ASSOCIATES INC



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED
TREATMENT WORKS (POTWs)**

NPDES PERMIT NO: PA0050504

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

**East Goshen Municipal Authority Chester County
1580 Paoli Pike
West Chester, PA 19380-6107**

is authorized to discharge from a facility known as **East Goshen Municipal Authority STP & Sewer System**, located in **East Goshen Township, Chester County**, to **Ridley Creek** in Watershed(s) **3-G** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON May 1, 2017

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON April 30, 2022

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED April 18, 2017

ISSUED BY

Jenifer L. Fields, P.E.
Clean Water Program Manager
Southeast Regional Office

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A. For Outfall 001, Latitude 39° 59' 9.19", Longitude 75° 31' 26.33", River Mile Index 18.72, Stream Code 00621

Receiving Waters: Ridley Creek

Type of Effluent: Sewage Effluent

1. The permittee is authorized to discharge during the period from May 1, 2017 through April 30, 2022.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average Report Daily Max	Minimum	Average Monthly	Weekly Average	Instant. Maximum	
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	125	188	XXX	20	30	40	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	62	94	XXX	10	15	20	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	24-Hr Composite
Total Suspended Solids	62	94	XXX	10.0	15.0	XXX	24-Hr Composite
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	Geo Mean 200	XXX	1000	Grab

Outfall 001, Continued (from May 1, 2017 through April 30, 2022)

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average		
Ammonia-Nitrogen Nov 1 - Apr 30	44	XXX	XXX	7.0	XXX	1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	16	XXX	XXX	2.5	XXX	1/week	24-Hr Composite
Total Phosphorus	3.0	XXX	XXX	0.5	XXX	1/week	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
At discharge prior to wetland for Outfall 001, and at effluent pump chamber for Outfall 002 ⁽³⁾.

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. B. For Outfall 002 , Latitude 40° 0' 19.00" , Longitude 75° 32' 5.00" , River Mile Index 18.72 , Stream Code 00621

Receiving Waters: Ridley Creek

Type of Effluent: Sewage Effluent

1. The permittee is authorized to discharge during the period from May 1, 2017 through April 30, 2022.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average Report Daily Max	Minimum	Average Monthly	Weekly Average	Instant. Maximum	
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0 Max	XXX	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	125	188	XXX	20	30	40	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	62	94	XXX	10	15	20	24-Hr Composite
Total Suspended Solids	62	94	XXX	10.0	15.0	XXX	24-Hr Composite
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	Geo Mean 200	XXX	1000	Grab
Ammonia-Nitrogen Nov 1 - Apr 30	44	XXX	XXX	7.0	XXX	14	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	16	XXX	XXX	2.5	XXX	5	24-Hr Composite

Outfall 002, Continued (from May 1, 2017 through April 30, 2022)

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average		
Total Phosphorus	3.0	XXX	XXX	0.5	XXX	1/week	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

At discharge prior to wetland for Outfall 001, and at effluent pump chamber for Outfall 002 ⁽³⁾.

BOARD OF SUPERVISORS
EAST GOSHEN TOWNSHIP
CHESTER COUNTY
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

FYI

April 28, 2017

Dear Property Owner:

The purpose of this letter is to inform you that the owner of 1506 Meadowbrook Dr., West Chester, PA 19380, has submitted a subdivision sketch plan for review and comment by the Township Planning Commission. The owners, Stephen and Denise Legenstein, propose a 2 lot subdivision of their property. The existing parcel has an area of approximately 1.999 acres and has an existing single family home. The sketch plan proposes to create one new 1 acre lot to the east of the existing home for a new residential single family use.

The property will need zoning variances due in order for the plan to be considered for subdivision. The Planning Commission will hear the application, ask questions and provide feedback so the applicant can decide on how to move forward. The public will also have an opportunity to ask questions of the applicant and the Planning Commission.

Pursuant to Township policy, property owners and residents within 1000 feet of the subject property are notified of sketch plan submissions.

The meeting date and time scheduled for the review and discussion of this sketch plan application is:

May 3, 2017 - Planning Commission meeting (7:00 PM) (Presentation of Sketch Plan)

All meetings are held at the Township Building and are open to the public. The plan is available for review at the Township building during normal business hours. Please give me a call at or email me at mgordon@eastgoshen.org if you have any questions or need additional information.

Sincerely,



Mark A. Gordon
Township Zoning Officer

Cc: All Township Authorities, Boards and Commissions