

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
October 8, 2012**

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, October 8, 2012 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Dana Pizarro, Vice Chairman Fran Beck, Jack Yahraes, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Dan Barbato (Pennoni), Bob Adams, Scott Towler (BFES) and Walter Wujick (Conservancy Board).

COMMON ACRONYMS:

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PR – Park & Recreation Board</i>
<i>EPA – Environmental protection Agency</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>HC – Historical Commission</i>	<i>SSO – Sanitary System Overflow</i>
<i>I&I – Inflow & Infiltration</i>	<i>WAS – Waste Activated Sludge</i>
<i>LCSTP – Lochwood Chase Sewer Treatment Plant</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 the troops. Dana asked if anyone would be recording the meeting and there was no response.

Chairman’s Report

Jack attended the West Goshen meeting and read a statement from that meeting regarding the DEP permit.

Approval of Minutes

The Chairman noted that the minutes of the September 10, 2012 meeting were approved as corrected.

Approval of Invoices

1. Jack moved to approve payment of 6 Pennoni invoices:

#521184	\$6,770.50
#521185	\$1,164.75
#521186	\$ 996.25
#521187	\$1,142.00
#521188	\$ 140.00
#521189	\$1,499.00

Fran seconded the motion. The motion passed unanimously.

Dana commented that the Chapter 94 project Pennoni did was done on time and under budget.

2. Fran moved to approve payment of the Gawthrop Greenwood invoice:

#102526	\$1,273.00
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Rick mentioned that this is an updated invoice which includes the September meeting.

Jack seconded the motion. The motion passed unanimously.

Liaison Reports

1. Conservancy Board – Walter reported that the Board received the soil sample report for East Boot Road and will discuss when to fertilize. They are working with Mark Miller on the sign for the Clymer’s Woods project. They are also working with Mark on the ponds.
2. Board of Supervisors – Carmen reported that the Police Commission approved an agreement to pass on to Westtown for their meeting tonight and East Goshen’s meeting on Tuesday.

Financial Reports

1. Jon Altshul, CFO, provided reports with the following comment: total expenses were \$34,579.06 compared with total revenue of \$5.58 for a net change in fund balance of -\$34,573.48.

Old Business

None

Goals

1. Newsletter – Joe will do an article for the next Newsletter. The topic should be the tour of the plant.
2. The RCSTP tour will be held on Saturday, Oct. 20, 2012 from 10:00 am to Noon. Mark reported that PA One Call provided some handouts. Dan will make flow diagrams. Parking will be on the street. Signs will be made.
3. Kevin will attend the December West Goshen meeting.
4. Rick reported that the permits for Marydell are okay and he is working with the shopping center owner about easements. He is also working on easements for Hershey Mill.

New Business

1. Electrical disconnects are 2 years old. Mark provided photos of pump #2. Dan feels the box isn’t sealed properly so condensate is getting in. Carmen wants to have the stops checked. Mark reported that all of the others that are outside are dry. The estimate for replacement is \$6,668.09. Bob’s advice is to find out what is wrong then check the contract and get a letter from Lenni stating what is wrong. Dan will contact Steve to do a test.
2. Muffin Monster – A quote was received from Watermark for \$30,769.00 which does not include installation. Mark will do the install. Kevin moved to approve the purchase of the Muffin Monster from Watermark in the amount of \$30,769.00. Jack seconded the motion. There was no further discussion. The motion passed unanimously.

Capacity Requests

None

Sewer Reports

1. **Mark Miller, Director of Public Works**, provided the following report for September:
Meters - Have been read on a daily basis. The meter for Westtown Way has been replaced. The Reservoir Road meter is back in service.
Pumping Stations: Were visited on a routine basis, no problems to report.
CC Collection: Replaced several sewer caps during the month. No problems to report.
RC Collection: No problems to report.

RC Plant: Routine maintenance was performed during the month. The final paving was completed two weeks ago. See memo re: wet well disconnects.

Lockwood Plant: We are still waiting on PECO to turn off power and remove the transformers.

Alarms: We responded to 10 alarms during the month ranging from generators running to a high level alarm. All alarms were cleared and all stations put back in service.

PA One Calls: We received 109 PA One calls for the month of September.

2. **Dan Barbato, Pennoni, provided the engineer's report:**

Invoices: Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP) – We will continue to assist with operations support and plant troubleshooting, and review operator reports as we receive them.

LCSTP Elimination – No further activity. The project has been completed and our understanding is that final payment was made.

Hershey's Mill PS Diversion & Reserve PS Elimination

DEP issued the GP-5 "General Permit for Utility Line Stream Crossing" for the Hershey Mill PS Diversion on August 31, 2012.

DEP has reviewed the GP-5 "General Permit for Utility Line Stream Crossing" permit applications for the Reserve PS Diversion and has verbally informed us that the permit application is acceptable subject to a bog turtle screening by the Army Corps of Engineers (ACOE). We submitted a bog turtle screening request to the ACOE on October 3, 2012. They informed us they will attempt to provide a bog turtle habitat determination within 30 days. If there is no habitat, then DEP can issue the GP-5 permit. If there is habitat, we will have to coordinate impact mitigation strategies with Fish and Wildlife Service.

The Chester County Conservation District (CCCD) issued Erosion and Sediment Pollution Control Plan adequacy letters for the Hershey Mill PS and Reserve PS projects on September 4 and September 11 respectively.

We revised the four (4) sanitary sewer easement legal descriptions and exhibits for the diversion projects – one (1) for the Hershey Mill PS and three (3) for the Reserve PS- to include construction limits. The revised documents were forwarded to the Township and Authority Solicitor.

We expect to submit the Reserve Closure Plan and Hershey Mill PS Water Quality Management Permit Amendment to DEP by October 9, 2012.

We also prepared draft bidding documents for each project. The projects will be bid separately, so separate bidding documents have been prepared. The Hershey Mill PS bidding documents and bid plans will be forwarded to the Township for review by the end of October. The Reserve PS bidding document and bid plans will be forwarded to the Township for review once the bog turtle impacts are resolved.

Marydell PS Elimination –

DEP has verbally informed us that the Pump Station Closure Plan has been approved and that a formal approval letter should be issued by October 5, 2012.

We prepared an easement legal description and exhibit for the shopping center. Once the easement is obtained, all third party approvals and permits will be in place and the project can be put out to bid.

We are finalizing the bidding document and bid plans. We anticipate forwarding the documents to the Township by October 15 for review, with the intent of having the documents completed and ready for the Authority to provide direction to advertise at their November 12, 2012 meeting.

Hershey's Mill Muffin Monster

DEP issued an approval letter for the Muffin Monster installation on September 11, 2012. No other third-party approvals are required for this project.

We have obtained a formal price quotation from the Muffin Monster supplier, which we have forwarded to the Township for approval. The quotation includes materials and startup. Construction will be performed by Public Works.

Semi-Annual Sewer System (Formerly "CO&A") Status Report

We analyzed portable and permanent meter data from January-August 2012 and met with Mr. Smith and Mr. Miller to discuss our findings and recommendations for I/I investigations and future metering. We prepared the semi-annual sewer system status report and submitted it to the Township. This is the first internal-only report since the semi-annual CO&A submissions to DEP are no longer required.

3. **Big Fish Environmental Services, Inc.,** Scott Towler presented the following written report:

Treatment Process Operation

Sequencing batch reactors (SBRs) numbered 1, 3, & 4 were in service during the month of September. SBR No. 2 remains out of service with approximately a mixture of 1 foot of sludge and rainwater within the tank. Transfer of the contents of SBR2 is planned during October.

During August, there were a total of 6 exceedances of the final effluent discharge limitations for total outfalls 001 and 002. Outfall 001 experienced 3 exceedances. The total phosphorus month average was reported as 1.57mg/L as compared to the discharge limitation of 0.5 mg/L. The total suspended solids monthly average and weekly maximum were reported as 26 mg/L and 42 mg/L, respectively. Outfall 002, Total phosphorus removal improved, however, the monthly concentration remains above the permitted monthly average. Daily sample collection and analysis for total phosphorus of the SBR effluent and final effluent discharges were implemented to monitor phosphorus removal. During September, this monitoring was expanded to include the influent, sludge hold tank decant and centrate.

Total suspended solids (TSS) exceedances are the result of elevated dosage rates of aluminum sulfate solution passing through the disc filters as a fine solid not visible to the eye. The final effluent was observed to contain no visible solids, however, there was a slight opaque appearance (cloudiness). Samples analyzed on site for TSS produced a residue with a white color on the filter paper. Non-detect values for CBOD5, ammonia as nitrogen and fecal coliform support the assertion that the residue observed on the filter paper was largely inert solids rather than biomass solids.

The process adjustments indicate the final effluent total phosphorus concentration is trending downward towards the discharge limitation concentration. Daily total phosphorus monitoring of the final effluent and post EQ (SBR effluent) will continue to monitor improvement towards achieving consistent total phosphorus concentrations compliant with the discharge limitation.

During September the Neptune aluminum sulfate pump failed. Replacement parts were ordered and repair of the pump is scheduled for October 5th.

During September the centrifuge dewatering system was placed in service.

During September sludge wasting and decanting of the sludge holding tanks was ongoing. A total volume of 197,225 gallons of supernatant was decanted from the sludge holding tanks. pH and alkalinity were monitored on average twice per week and total solids once per week.

Sludge holding tank #1 began the month as 0.66% total solids and was removed from service on September 9th. Tank level at the beginning of the month was 4.40 ft and at the end of the month was 1.37 ft.

Sludge holding tank #2 began the month as 0.89% total solids and ended the month at 1.09% total solids. Tank level at the beginning of the month was 11.90 ft and at the end of the month was 12.07 ft.

Listed below are the remaining warranty issues for RCSTP:

1. Alfa Laval Spare parts: Warranty call during March. Alfa Laval technician used parts from the Township's spare parts inventory to replace the rear bearing, seals, etc.

Action Required: Worth & Co (Alfa Laval) are in the process of replacing the spare parts (Updated 10/01/12).

2. Siemens MCC Analog Hour Meters – The analog hour meters for SBR2 blower, SBR3 motive pump (recent), and SBR4 motive pump have failed.

Action Required: Worth & Co are scheduling the replacement of the defective hour meters (updated 10/01/12).

3. Alfa Laval MMC Hour Meter – The analog hour meter for Alfa Laval centrifuge hour meter has failed.

Action Required: Worth & Co are scheduling the replacement of the defective hour meters (updated 10/01/12).

4. Influent Composite Sampler Pump – The influent sampler pump failed. A warranty claim was filed with Hach Co during July. On Sept. 24, Hach confirmed that the sampler was purchased during August 2009 and has a one year warranty.

Action Required: Worth & Co are scheduling the replacement of the defective hour meters (updated 10/01/12).

5. The alum valves(new), used to provide alum to the SBRs, remain open at all times. Using the Siemens control panel to program operation of the alum addition to the SBRs (phase and run time of pump), all alum valves open and remain open regardless of phase.

The valves open and close in manual mode. There appears to be a programming issue. An email was sent to Siemens on Sept. 22, 2012

Action Required: Worth & Co is working with Gary Roberts from ICI (Siemens) to correct the problem.

6. SBR 4 Blower Operation During Aeratd Fill (new)

SBR4 blower was observed on 9/22/12 and 9/23/12 to not operate during React Phase.

This malfunction is the most likely contributing factor for the undesirable DO trend as well as contributes to excessive anoxic/anaerobic conditions and potential for undesirable filamentous growth (SVIs are increasing).

Action Required: Worth & Co is working with Gary Roberts from ICI (Siemens) to correct the problem.

7. Floc tank Mixer Hour Meter on ACS Panel (New) - The Floc tank mixer is operational; however, the hour meter reading on the ACS panel does not register hours. Action Required: None. Issue is resolved.

Discussion: Scott and Dana feel not processing solids often enough causes a load the plant wasn't designed for. Kevin questioned the spikes. Scott said the total phosphorous to SBRs is being checked. The streams are being checked as the plant operates. Dana noted that the plant is at 30% of design. Scott feels that knowing where the phosphorous is coming from will make it possible to manage.

The letter to Dave Wolfinger, DEP, from Scott Towler, BFES, and the Executive Summary Report were reviewed by the Authority. Dana pointed out that there was a big spike on August 2nd. When there are low flow conditions, it tends to put off phosphorous.

Mark asked if manholes should be sampled, in particular at Bellingham where there is a laundry and at the shopping center. Scott can get a mobile sampler. Rick would like to collect samples for several days.

Scott wants to switch to poly aluminum chloride to add to the SBRs and disk filters. You get more aluminum which cuts the phosphorous. He thinks it will cut costs because there should be a reduction in soda ash. Dan will review the information in the reports. Dana asked them to check for any incompatibilities.

Kevin is concerned about the amount of maintenance issues. Dana asked if there were two designs – 1 for start-up and the other for full operation. He feels they should look at the design.

Scott feels the plant is working very well and he listed several areas where it is working well. Applebrook use increased and everything is okay. They are maintaining a nice even flow through the plant. There are no odors and the clarity is good.

Rick asked if it was worthwhile testing samples from different SBRs and does the cold weather affect it? Scott commented that it takes 2-3 weeks to get the sample results. He listed all the tests that are done on the samples. The next sample will be on Thursday.

Kevin suggested that the Authority set up a task force to find out what needs to be done to make things operate more easily. Carmen agreed and requested that Dana prepare a report for the BOS.

Adjournment

There being no further business, Kevin moved to adjourn the meeting. Jack seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:45pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary