

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
May 13, 2013**

The East Goshen Township Municipal Authority held their regularly scheduled meeting on Monday, May 13, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Jack Yahraes, Dana Pizarro, and Ed McAssey. Also in attendance were: Rick Smith (Township Manager), Bob Adams, (Solicitor), Dan Barbato (Pennoni), Scott Towler (BFES), and Walter Wujcik (Conservancy Board).

COMMON ACRONYMS:

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

Call to Order & Pledge of Allegiance

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

Chairman’s Report

1. Fran received the annual report from PLGIT and made it available for anyone to review.
2. Jack attended the West Goshen meeting. The judge put their case in suspense. There is a similar case in Iowa that will bring lots of changes.
3. Ed and Dana attended the PMAA meeting. Ed learned about PMAA and that stormwater is a big issue. Dana reported that there are several bills ready to deal with the mismanagement in Harrisburg, put a limit on the cost of easements, and fines if the flow is more than anticipated.
4. Jack has been checking on the work at Paoli Pk and Boot Rd and complimented Matt for the job his is doing.

Approval of Minutes

The Chairman noted that the minutes of the April 8, 2013 meeting were approved as corrected.

Approval of Invoices

1. Jack moved to approve payment of 8 Pennoni invoices:

#546001	\$1,126.50
#546002	\$ 127.75
#546003	\$ 47.50
#546004	\$ 472.50
#546005	\$2,387.75
#546006	\$5,355.00
#546007	\$ 976.50
#546008	\$7,040.25

Dana seconded the motion. Dana feels that there are 3-4 projects that can be closed so the funds can be used elsewhere. Rick will have a list for the next meeting. The motion passed unanimously.

2. Jack moved to authorize payment of the Reserve at Spring Meadows HOA invoice for \$1,455.00 and authorize execution of the easement agreement. Ed seconded the motion. The motion passed unanimously.

3. Dana moved to approve payment of the Gawthrop Greenwood invoice #108506 for \$3,364.00. Jack seconded the motion. The motion passed unanimously.

4. Jack moved to approve payment of the Plymar invoice – Marydell Diversion for \$79,704.00. Dana seconded the motion. The motion passed unanimously.

Liaison Reports

1. Conservancy Board – Walter reported that the Board did some maintenance on the trees at Supplee Valley and planted trees along the creek bank. They are waiting for a quote from the company that sprays for invasives. This company has been taking care of the Blacksmith Shop area and they want a quote for the Reservoir Road preserve.

Financial Reports

1. Jon Altshul, CFO, provided reports with the following comment: The Municipal Authority recorded \$86,408.22 in expenses and \$110,008.80 in revenues (primarily from a transfer from the Sewer Capital Reserve Fund) in the month of April, a difference of \$23,600.58. The fund balance is now \$72,964.31. Rick mentioned that there is \$24,000 being held in escrow that doesn't show on the report. Dana commented that several items on the detail report weren't updated from last month.

Old Business

None

Goals

1. Newsletter – Dana will provide an article by June 1. Jack commented that since the paper newsletter was discontinued, it is apparent that people aren't reading the electronic version; i.e. the senior driving course was cancelled for the first time this year and there weren't as many volunteers for Keep East Goshen Beautiful Day. He is not interested in writing an article any more. Jack made a motion to send a letter to the Board of Supervisors asking them to consider reinstating the paper newsletter. Fran seconded the motion. The motion passed unanimously. Rick will write a draft letter.

New Business

1. Dana moved to approve the Contract Change Order for HMPS, contractor Delaware Valley Utility Contractors Inc. to install a 6" HDPE Polyball gate valve instead of cast iron which will decrease the contract price by \$502.38. Ed seconded the motion. The motion passed unanimously.

2. Jack moved to approve the proposal for Reserve Pump Station Diversion from Earthcore Services for:

- a. Mobilization of ATV drill rig, tooling and crew - \$800.00 LS
- b. ATV drill rig, auger probes (5@ up to 13' deep) - \$1,800.00/day

c. Portland, bentonite, asphalt (if required) - \$30.00/bag upon verification of the contractor's insurance with East Goshen listed as additional insured. Dana seconded the motion. Rick mentioned that the fill will be done by Public Works. The motion passed unanimously.

3. Marydell Construction Phase Budget – Dan explained that some of the issues for Marydell are more complex than anticipated. For the remaining 6 weeks of the job, he estimates an additional cost of \$9,000.00. The original estimate was 4 hours/day for services and that time has increased. Rick mentioned that information from some of the utilities was inaccurate and time of construction was longer than the time of inspection in Pennoni's contract. Dana feels that there may be some issues already included in the bid and the contractor should pay for an additional time spent on the project. Jack moved to authorize \$9,000.00 for Pennoni's additional services to be paid using remaining funds from Pennoni budgets and then from the Capital Reserve. Dana seconded the motion. The motion passed unanimously.

Capacity Requests

None

Sewer Reports

1. **Mark Miller, Director of Public Works**, provided the following report for March:
Meters – The meters were read on a daily basis. The Reservoir Road meter was reading high due to debris on the probe. The portable flows are being read on a weekly basis
Pump Stations – Were visited on a daily basis.
CC Collection: We have been televising the interceptor line from Wilson Drive to Westtown Way. We found a large amount of inflow behind 905 Airport Road. The repair was done last week. We were able to locate another 20 to 30 thousand gallons/day. Due to poor weather conditions we were not able to do the area between Baldwin Drive and Reservoir Road. I hope to complete that section in the next 2 weeks.
R.C. Collection: The sewer lines in the Hunt Country development were cleaned and televised. We found some minor inflow which we will correct.
All the pump stations were visited on a daily basis with no problems to report. Lenni Electric was utilized to replace the electric panel after we found that the breakers were in bad shape.
R.C. Plant: Nothing to report at this time.
Alarms: We received a total of 17 alarms
PA One Calls: We received 48 PA One calls for the month of April.

Rick mentioned that the Spinelli property on Line Rd has been purchased by Willistown for open space.

2. **Pennoni**: Dan Barbato provided the following engineer's report:
Invoices: Invoices with summaries are provided under separate cover.
Ridley Creek Sewage Treatment Plant (RCSTP) – Pennoni continues to coordinate with the Plant Operator and will provide operations assistance as needed. No issues were brought to our attention in April.
Marydell PS Elimination – We continued to perform office support and daily field observation of the sewer construction including shop drawing reviews, resolution of Paoli

Pike jack and boring casing misalignment, evaluation of contractor request to increase depth of sewer along Paoli Pike to provide vertical flexibility on Boot Road jack and bore, coordination of extra construction measures to be taken on Boot Road jack and bore to minimize risk of misalignment, additional field meetings and coordination with PECO to brace utility poles, multiple field meetings with Sunoco to locate active gas mains along Boot Road and resolve requirements for protecting and observing mains during jacking and boring, multiple gas main location test pits and an additional observation pit, and coordination with PennDOT regarding traffic control concerns.

We also negotiated an agreed upon payment approach with the contractor, Ply-Mar Construction, for the Sunoco-required observation pit during jacking and boring which will include payment using bid items for “Miscellaneous Excavation and Backfill” and “Soft Dig Test Pits” in addition to limited Time and Materials (T&M) work for unforeseen conditions and new Sunoco requirements.

Ply-Mar began construction on March 26. They originally estimated 6-8 weeks to complete the project; however, they have installed less than 50% of the sewer at the time of this report (installed approx. 428 l.f. out of 955 l.f. total). We anticipate another 5-6 weeks from the time of this report to complete the project, estimated completion in late June. The contract completion date is July 15.

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

Hershey’s Mill PS Diversion: We attended a pre-construction meeting with the Township and contractor, Delaware Valley Utility Contractors (DVUC), on April 18. We performed meeting follow-up tasks and pre-construction coordination including review of DVUC’s tax exempt status request, preparation of a project contact list, notifications to Chester County Conservation District and PA Fish & Boat, review of DVUC’s pre-construction video, and an additional pre-construction field meeting with DVUC regarding construction access and other matters.

Construction began May 7. We are performing daily field observation of the work. DVUC directionally drilled approx. 600 feet from the Cornwallis Drive cul-de-sac to the existing force main point of connection on the first day of work. The HDPE pipe is expected to be pulled back through the drill hole by May 10, and cured-in-place manhole lining of the two existing manholes is scheduled to begin May 13. DVUC estimates 4 weeks (from start of work on May 7) to complete the project. The contract completion date is July 29, 2013.

We reviewed the remainder of shop drawings and construction submittals from the contractor. We also reviewed the contractor’s proposed material change for a gate valve (from ductile iron to HDPE), and we negotiated a deduct change order with them. The change order will be forwarded to the Authority for review and approval.

We also issued letters to unsuccessful bidders notifying them of the project award.

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

Semi-Annual I/I Report – We received flow data from the first month of metering at new locations along the Chester Creek interceptor, and we are performing a cursory analysis

of the data at the time of this report. Our findings will be informally provided to the Township via email.

Update – Marydell – Dan reported that the bore under Paoli Pike is done. They are waiting for the bore contractor to come back to do Boot Road. Matt has done a good job of overseeing everything. July 15 is the completion date. Dana feels that, in the future, utilities must be located before the project starts.

Hershey Mill – Today they started to fuse pipe. Matt reported that the manhole liner is installed.

Reserve – Rick will put an ad in the paper, open bids in June, and start the project in July.

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

Treatment Process Operation

During March 2013 there were no exceedances of the final effluent discharge limitations for outfall 001. There was no discharge from outfall 002.

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

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

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

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

Sequencing batch reactors (SBRs) number 1, 3 and 4 were in service during the month of March. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Microscopic examinations and physical observation of the SBR MLSS and foam color is ongoing. Foam concentrations remained around the same concentration as during March. Present surface area coverage during React Phase ranges from approx. 85 to 95%. The foam remains as light brown in color and averages 2 to 4 inches in depth. The F:M ratios for SBR 3 and 4 were increased to a range of 0.05 to 0.008 as lbs COD/lbs. MLSS increased sludge wasting rates were implemented during the month to lower MLSS and increase F:M ratios.

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

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was decreased at the end of April as settleability of the SBR MLSS and total phosphorus removal through the

disc filters improved. A year-to-date daily average of 41.2 gallons per day of aluminum sulfate solution has been used in the SBRs and addition prior to filtration.

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

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

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

Sludge holding tank No.1 was in service. The level at the beginning of the month was 14.54 feet and the level at the end of the month was 10.84 feet. The initial total solids concentration was 0.81% and ended the month as 0.63% total solids. A total of 46,200 gallons of supernatant was decanted during the month.

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

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

Minor Repairs and Preventative Maintenance:

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

Scott commented that he will contact someone at Phoenixville to see what grease they use. He may change the valve grease.

Rick complimented Scott on the good job he is doing.

Dana mentioned to Dan that they need to give Scott notice when the diversions are ready to come to the plant.

Any Other Matter

1. Jack mentioned that Bryan DelMonte, Conservancy Board member, has asked several times if he can go online to see what's going on at the sewer plant. Scott mentioned that the Wastewater Treatment Works Security Act provides for security of wastewater treatment plants. Scott's monthly report is available on the Township website. A letter will be sent to Bryan.

2. Dan mentioned that Mike Ellis will also be at the next MA meeting. Mike may become the Pennoni rep for the MA.

Correspondence

None

Adjournment

There being no further business, Jack moved to adjourn the meeting. Fran seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:30 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary