

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
August 12, 2013**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, August 12, 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), Mark Miller (Director of Public Works), Mike Ellis (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 – Lockwood 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/Other Member’s Reports

Jack attended the West Goshen meeting. Harrisburg assigned a new Judge to the West Goshen case. In 5-6 years the standard will be 0.8 mg/L phosphorous. West Goshen appointed a Storm Water Authority.

Approval of Minutes

The Chairman noted that the minutes of the June 10th and June 25, 2013 meetings were approved as corrected.

Approval of Invoices

1. Payment of the following invoices was approved on June 25 and have been paid:

- | | | | |
|----|----------------------------|------|-------------|
| a. | Pennoni #552001 | Paid | \$ 2,770.75 |
| b. | Pennoni #552002 | Paid | \$ 3,072.25 |
| c. | Pennoni #552003 | Paid | \$ 7,301.50 |
| d. | Pennoni #552004 | Paid | \$ 5,803.50 |
| e. | Gawthrop Greenwood #109616 | Pd | \$ 700.00 |
| f. | Lockwood Plant closing | Paid | \$10,070.71 |
| g. | Plymar invoice #4 Marydell | Paid | \$31,620.75 |

Ed moved to ratify payments a - g. Dana asked what the costs were for (f). Mark verified they are costs for Township expenses from March to June. Jack seconded the motion. The motion passed unanimously.

2. Dana moved to approve payment of Gawthrop Greenwood invoice #110264 for \$240.00. Jack seconded the motion. The motion passed unanimously.

3. Jack moved to approve payment of the following Pennoni invoices:

i.	Pennoni #555450	\$ 714.25
j.	Pennoni #555451	\$ 1,843.75
k.	Pennoni #555452	\$ 1,653.75
l.	Pennoni #555453	\$ 1,653.75
m.	Pennoni #555454	\$ 330.00

Dana seconded the motion. The motion passed unanimously.

4. Dana moved to approve payment of the Delaware Valley Utility Contractors Invoice No. 2 for \$22,097.13. Rick mentioned that this project is done and under budget. This includes retainage. Jack seconded the motion. The motion passed unanimously.

5. Rick commented that the Ply-Mar Construction Co. change order for Marydell P.S. Diversion for \$6,841.06 is included in the total of \$41,133.31. This project came under budget. Jack moved to approve the change order of \$6,841.06 and pay Ply-Mar #5 for \$41,133.31. Dana seconded the motion. The motion passed unanimously.

Liaison Reports

1. Conservancy Board – Walter reported that, at their next meeting this week, they will review the 2014 proposed budget. They will discuss additional plantings on E. Boot Rd for later this year. They will review the Sunny Ridge Landscape Plan.
2. BOS – Carmen commented that they will be doing financial forecasting and review of ABCs 2014 budgets.

Financial Reports

Jon Altshul's report - The Municipal Authority recorded \$217,367.31 in expenses and \$249,991.32 in revenues in June, a difference of +\$32,624.01, and \$50,006.81 in revenues and \$62,123.75 in expenses in July, a difference of -\$12,116.94. The fund balance is \$69,790.80.

Old Business

Rick reported that the contract for the Reserve Pump Station Diversion was awarded to Ron Smith.

Goals

Ed will attend the September West Goshen meeting.

Sewer Reports

1. Big Fish Environmental, Monthly Operations Report for June 2013.

Scott reported the following: During May 2013 there were no exceedances of the final effluent discharge limitations for outfall 001. The monthly average total phosphorus concentration was 0.24 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 0.10 mg/L to 0.35 mg/L. Flow to Applebrook, Outfall 002, continued in May and June. The influent loadings remained within

the treatment facility design loadings. During the month of June, there were no exceedances of the permit limitations for the monthly averages. There were two exceedances of the weekly and instantaneous permit limitations for total suspended solids and fecal coliform, respectively. Discontinuation of flow to outfall 002, Applebrook, on June 11th avoided exceedances of the permit effluent limitations. These exceedances are directly related to the excessive hydraulic loading to the facility as a result of Tropical Storm Andrea followed by a second rainfall event. From June 6th through June 8th, a total of 3.46 inches of rainfall was recorded at the facility. A second storm event on June 10th through June 11th resulted in an additional 1.09 inches of rainfall. A total of 8.20 inches of rainfall was recorded during the month of June.

Samples collected on June 11th and June 26th were analyzed for selected permit parameters. Transfer of treated effluent to the Applebrook Golf Course continued during June with the exception of June 11th through June 14th. During June, the average daily average for Outfall 002 was 115,470 gallons per day.

Sequencing batch reactors (SBRs) numbers 1, 3, and 4 were in service during the month of May. SBR #2 was placed in service during the high flow events in June.

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 approximately 90 to 100%. The foam remains as light brown in color and averages 2 to 4 inches in depth. Daily monitoring of the influent and final effluent 24-hour composites samples for 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 increased at the end of May as total phosphorus concentrations in the SBRs at the end of the React Phase began to increase.

SBR #2 remains out of service. The tank was partially filled to allow for the blower to operate to prevent odor production. Transfer of the contents and cleaning of the SBR is planned for August to reduce energy costs and potentials for odors.

The ChemScan phosphate analyzer was removed by equipment provider. Coordination with the Hach Company has been initiated to perform a pilot study of their RTC for phosphorus monitoring. Equipment is planned to be deployed when it becomes available.

During the month, 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 #1 was in service. The level at the beginning of the month was 4.16 feet and the level at the end of the month was 6.10 feet. The initial total solids concentration was 0.59% and ended the month as 0.53% total solids. No supernatant was decanted during the month. A total of 150 pounds of soda ash was added during the month for pH adjustment. Sludge holding tank #2 was in service. The level at the beginning of the month was 12.87 feet and the level at the end of the month was 11.84 feet. The initial total solids concentration was 0.51% and ended the month as 0.65% total solids. A total of 146,300 gallons of supernatant was decanted during the month. A total of 800 pounds of soda ash was added during the month for pH adjustment. As previously described, during June there were two significant rainfall events contributing to excessive influent wastewater flows to the treatment facility.

Minor repairs and preventative maintenance:

- Replaced the inlet air filters for B1A, B1B, B1C and B2.
- Replaced the four one inch valves on the piping to the SBRs. The valves were leaking. Cleaned the aluminum sulfate solution spill containment tank.
- Repaired a broken section of one inch pipe used to convey aluminum sulfate solution to SBR#2.
- Installed the replacement centrifuge controls UPS.
- Replaced the composite sampler suction tubing.
- Assisted the Township and Aqua Resources with removal of the grit from the influent flow channel located within the Screening building.

Monthly Operations Report for July 2013 – Scott reported the following:

During the Month of June 2013, there were no exceedances of the permit limitations for the monthly averages. There were 2 exceedances of the weekly and instantaneous permit limitations for total suspended solids and fecal coliform, respectively. There were no exceedances of the permitted discharge limitations for Outfall 002, Applebrook. Flow to Applebrook was discontinued during the high flow period. The exceedances were the direct result of several filled settle and filled decants when flows exceeded the average daily hydraulic design loading. Composite samples are collected at the influent doghouse manhole. The influent flow meter reading is collected from the influent flow meter located prior to the Screening Building, excluding the internal recycle flows.

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 range from approximately 60 to 95%. The foam color ranges from a light to medium brown color and averages 2 to 4 inches in depth.

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 increased during July due to lowering MLSS concentrations to prevent excessive filamentous growth and periods of anoxic conditions incurred during SBR idle times.

SBR#2 remains out of service. The tank was partially filled to allow for the blower to operate to prevent odor production. Transfer of the contents and cleaning of the SBR has been postponed until September.

Coordination with the Hach Co. is ongoing to perform a pilot study of their RTC for phosphorus monitoring. Equipment is planned to be deployed when it becomes available.

During the month, 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 #1 was in service. The level at the beginning of the month was 6.37 feet and the level at the end of the month was 13.56 feet. The initial total solids concentration was 0.56% and ended the month as 0.63% total solids. A total of 77,000 gallons of supernatant was decanted during the month. A total of 1,100 pounds of soda ash was added during the month for pH adjustment.

Sludge holding tank #2 was in service. The level at the beginning of the month was 13.34 feet and the level at the end of the month was 9.25 feet. The initial total solids concentration was 0.67% and ended the month as 0.81% total solids. A total of 253,750 gallons of supernatant was decanted during the month. A total of 1,050 pounds of soda ash was added during the month for pH adjustment.

No significant storms occurred during July impacting the treatment process.

Minor repairs and Preventative Maintenance:

- Repaired and tightened the drive belt for the SBR building exhaust fan.
- Adjusted the fan for the centrifuge back drive motor.
- Replaced the intake filter for the SBR blowers.
- Replaced the pump and motor spider coupling for disc filter #1.
- Replaced ball valves on aluminum sulfate piping manifold supplying aluminum sulfate.
- Repair broken aluminum sulfate pvc piping to SBR #2.

Aqua commented that we should get more use out of the cloth filters. Cost for replacements is about \$9,000. These are for backup. Scott explained the use of the filters. Carmen asked if this could be from the prior contractor. Scott wants to try a different cleaning product.

2. Pennoni – Mike Ellis gave the following report:

For July 1, 2013:

Ridley Creek Sewage Treatment Plant (RCSTP)

We met with the Authority, plant operator, and attorneys regarding past plant operations, and we reviewed related legal documents.

Marydell PS Elimination

We continued to perform field observation of the sewer construction including sewer installation through the island at the intersection of Boot Rd and Paoli Pk, locating and connecting the Sunoco low pressure sewer to a new manhole, demolition of the Marydell Pump Station, bypass pumping around the pump station, connection of new sewer to the existing manhole behind the pump station, testing of new sewer pipes and manholes, diversion of the existing Marydell wastewater through the new sewers, and restoration paving and landscape work.

We reviewed the contractor's fourth payment request and forwarded our recommendation to the Township. The work is substantially complete with only limited punchlist and restoration work remaining. The contractor intends to remove temporary paving and install permanent paving the week of July 8-12. The contract completion date is July 15.

Hershey's Mill PS Diversion

We continued to perform limited office support and field observation of punchlist work including installation of a mechanical plug in the abandoned pipe at the manhole on Clover Lane, site clean-up, and restoration. The contractor intends to remove temporary paving and install permanent paving with week of July 8-12. The contract completion date is July 29.

Reserve PS Elimination

We conducted the bid opening on June 19, prepared a bid tabulation, and forwarded an award recommendation to the Township. Following contract award on June 25, we issued an award

letter to the contractor requesting contract documents (Form of Agreement, bonds, and insurance certificate) by July 9.

We intend to issue Notice to Proceed with Construction immediately upon receipt, approval, and execution of the contract documents. Construction will likely begin in late July and the contract duration is 90 days.

Reservoir Road Pump Station

We researched other municipalities and utility companies that are implementing or have implemented similar “slip-stream” sewer diversion. We attended an Act 537 pre-planning meeting at PADEP on June 25. PADEP had no planning or permitting objections to the proposed “slip-stream” diversion concept. We initiated preparation of the Act 537 “Task Activity Report” submission for the project following the meeting. The Report is an outline and cost estimate of the proposed Act 537 planning work for PADEP’s approval and for PADEP to add the project to their list for Act 537 reimbursement grant funding. We tentatively expect to submit the Report to PADEP by July 12.

Hershey’ Mill Pump Station

We attended an on-site meeting at the pump station with Mark Miller and MGK Industries to evaluate alternatives for air/vacuum release valving, backpressure controls, and deteriorated piping replacements.

For August 8, 2013:

Invoice - Invoices with summaries are provided under separate cover.

Ridley Creek Sewage Treatment Plant (RCSTP) –

Pennonni continues to provide operations assistance as needed. No issues were brought to our attention in July. We coordinated with the Township and PADEP in response to an inquiry from PADEP regarding groundwater monitoring at Applebrook.

Marydell PS Elimination

The project is 100% complete. We performed limited field observation during final paving and restoration work. We reviewed and negotiated Change Order #2 with the operator. We also reviewed the contractor’s fifth (final) payment request and forwarded our recommendation to the Township. We reviewed contract closeout documents including as-built plans, sewer inspection videos, payroll certifications, statement of surety, and contractor’s release. We also coordinated the Maintenance Bond with the contractor and surety.

Hershey’s Mill PS Diversion

The project is 100% complete. We performed limited field observation during final paving and restoration work. We performed contract closeout activities including review of the contractor’s second (final) payment request, as-built plans and sketches, drilling logs, payroll certifications, statement of surety, and contractor’s release.

Reserve PS Elimination

We received a partial submission of contract documents (Form of Agreement and insurance certificate) from the awarded contractor. Contract bonds and pollution liability insurance were not provided. We have had numerous conversations with the contractor requesting these

documents and responding to his questions and concerns about pollution liability insurance. He has informed us that the bonds and pollution liability insurance will be provided to us on August 9. If these documents are provided prior to the August 12 Authority meeting and are found acceptable, we will issue Notice to Proceed with Construction immediately thereafter, likely effective August 14 or 15. We will attempt to schedule a pre-construction meeting within the following week. Construction would then likely begin in early September, and the contract duration is 90 days. As noted above the documents were received and the contract awarded.

Reservoir Road Pump Station

We finalized and submitted the Act 537 “Plan of Study and Task-Activity Report” to PADEP for project approval and for PADEP to add the project to their list for Act 537 reimbursement grant funding. The report was submitted on July 29. PADEP indicated they would attempt to review the report within 2-3 weeks.

Chapter 94 Reports

PADEP conducted a preliminary review of the 2012 RCSTP Chapter 94 Report and provided a review letter with no project-specific comments. The letter does not require any responses. PADEP has not yet provided feedback on the 2012 West Goshen or Westtown Chapter 94 Reports or on the Lockwood Chase STP Chapter 94 letter.

3. Mark Miller Director of Public Works, provided the following report for July 2013:

Meters: Meters were read on a daily basis. We had a power problem with the Hicks meter. PECO was notified and eventually repaired the problem.

Pump Stations: Were visited on a daily basis.

C.C. Collection: While performing routine maintenance, we located a break on Margaret Lane, approximately 10,000 gallons a day due to the depth and location. We decided to perform a point repair. We are preparing the roads in Pin Oak Farm for a paving overlay as part of the paving program. We replaced 56 manhole castings and lids. The reason we replaced the lids and castings was because each lid has two pick holes the size of fifty cent coins which allows for I&I. The number 2 pump went down at the Hershey Mill Pump station on July 4th. The pump was puller and replaced with a backup pump. The transducer went bad at the Ashbridge Pump Station two weeks ago. The bad transducer was removed and sent out to get repaired.

R.C. Collection: The street restoration on Cornwallis Drive was completed. We also paved a portion of the two driveways we used during construction.

R.C. Plant: we had two pump problems over the past two months. The first was a pump in the meter pit that failed. I pulled the pump by breaking the pipe union and disconnecting the wire. I handed the pump up to Steve Biondi. We began the task of unscrewing the piping and that's when we found 2.5" Anoconda snake jammed in the pump. The other pump was much easier to deal with.

Alarms: We received a total of 20 alarms in June and July.

PA One Calls: we received 110 PA One calls for the months of June and July.

Hunt Country – The generator failed this weekend. Mice got to the wires in the control panel. It is running now. The Hunt Country Pump Station is 25 years old. Mark would like to expand it and use some of the equipment from the Reserve Pump Station. He would like to have Mike prepare a cost estimate. Jack moved to authorized Mike Ellis to prepare a cost estimate to

expand the Hunt Country Pump Station. Dana seconded the motion. The motion passed unanimously. Mark will email an update before the next meeting.

2014 Proposed Budget was reviewed. It must be approved in September.

Any Other Matter

Dana will be at PMAA and will report back on anything interesting.

Adjournment

There being no further business, Dana moved to adjourn the meeting. Jack seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:00 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary