

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
January 13, 2014**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, January 13, 2014 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Vice Chairman Jack Yahraes, Dana Pizarro, Ed McAssey, and Kevin Cummings. Also in attendance were: Rick Smith (Township Manager), Carmen Battavio (Township Supervisor), Scott Towler (BFES), Mike Ellis (Pennoni), 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 and all veterans. Fran asked if anyone would be recording the meeting and there was no response.

Chairman’s Report/Other Member’s Reports

Jack reported that the West Goshen meeting scheduled for 1/2/14 was cancelled due to snow. It was rescheduled for 1/9/14 but he was not notified.

Approval of Minutes

Jack moved to accept the minutes of December 9, 2013. Dana seconded the motion. The motion passed unanimously.

Approval of Invoices

1. Jack moved to approve payment of the following Pennoni invoices:
 - a. Pennoni #573697 \$ 663.75
 - b. Pennoni #573698 \$ 605.75Ed seconded the motion. The motion passed unanimously.
2. Jack moved to approve payment of the following Pennoni invoice:
 - c. Pennoni #573699 \$ 13,994.25Ed seconded the motion. The motion passed unanimously.

Liaison Reports

Conservancy Board – Walter reported that two members of the Board (Bill Coffey and Rachael Burgos) will not be continuing as members. Erich Meyer has agreed to leave the Park &

Recreation Commission and become a Conservancy Board member. The tree protectors have arrived. They will probably put them on the trees in March.

Board of Supervisors – Carmen reminded everyone that the Annual Planning Meeting has been rescheduled to Sat. 1/25/14. Marty Shane is the Chairman of the BOS and Senya is the Vice Chairman. The BOS has appointed Pennoni as the Township Engineer.

Financial Reports

Jon Altshul's January 9, 2014 Financial Report for December 2013:

The Municipal Authority recorded \$23,140 in revenues and \$59,989 in expenses in December, a difference of -\$36,849. The fund balance is now \$1,598,270.

In addition to Pennoni charges for general engineering and work on the Reserve Pump Station and the Reservoir Road Pump station projects, the following two expenses were recorded in December:

- \$26,723 for the chargeback of 28% of the principal and interest of the 1998 DelVal note.
- \$7,980 for the quarterly chargeback of administrative overhead.

There was discussion about having Bob Adams, Authority Solicitor, only come to meetings as necessary. Everyone agreed that he should continue to attend all monthly meetings.

Goals

1. Dana will provide an article for the next newsletter, which is due 1/31/14.
2. Jack will attend the West Goshen meeting in March.

Last month an item was added to the goals list to investigate the cost of tank covers for odor maintenance. Mike mentioned that an additional structure may be needed to handle the snow. An estimate is \$1.1 million. Scott mentioned that they do sampling every day. He also suggested that a foam suppression system on the SBRs may be less expensive. Dana questioned why this was being considered since there haven't been any complaints about odors. Rick will investigate and have a report next month.

New Business

1. West Goshen Intermunicipal Agreement – Mike Ellis reported that, as requested by the Municipal Authority, they reviewed the East Goshen-West Goshen Intermunicipal Agreement cost history from 2012. Final invoice and flow data for 2013 is not yet available. They created a table to estimate the cost benefit for the reduction of flow to West Goshen that may occur as a result of the Reservoir Road Pump Station Diversion. Treatment and conveyance costs vary from year to year based on actual flow. Decreasing the flow to west Goshen by 300,000 gpd would have reduced the intermunicipal cost by approximately \$163,000 by reducing East Goshen's percentage of flow at the Westtown Way Meter (and ultimately at the West Goshen Sewage Treatment Plant). The ballpark capital expenditure for the pump station diversion is \$2,000,000 (including all construction, engineering, permitting, legal, and land acquisition fees), so the payback period would be approximately 12 years.

Rick mentioned that East Goshen's share is 17-19% of capital costs. He also pointed out that the average daily flow in 2012 for East Goshen was 824,677 gallons.

Dana would like a more detailed report. What is the total Nitrogen at East Goshen now? How far can the plant be pushed? What is anticipated 5 years from now? He feels the payback is higher than 12 years.

2. RESERVOIR ROAD PUMP STATION –Update #1, Force Main Routing & Sewer Upgrade Alternatives – Mike Ellis reviewed his report which is an updated and more in-depth analysis of alternatives for force main routing and potential gravity sewer upgrades. The alternatives are:

1	FM to Bow Tree 8” sewer, no interceptor upgrades	\$1,474,900
2	FM to 15” interceptor, no interceptor upgrades (via 352)	\$1,965,100
2A	FM to 15” interceptor, no interceptor upgrades (via Misak Dr)	\$1,841,500
3	FM to Bow Tree 8” sewer, upgrade interceptor to 18”	\$1,803,940
4	FM to 15” interceptor, upgrade interceptor to 18”	\$2,126,480
5	FM to RCSTP influent pipe along existing gravity sewer route, No interceptor upgrades	\$1,948,500
6	FM to RCSTP influent pipe along Strasburg Rd & gas Easement, no interceptor upgrades	\$2,521,600

They reviewed the six concepts and considered a few other diversion options, including analyses based upon current meter data, and still recommend the proposed Alternative 2A force main routing in which the force main is run all the way to the Ridley Creek interceptor sewer via Misak Dr. and Anne Dr. (to avoid the intersection of Strasburg Road & S.R. 0352). It will cost approximately \$90,000/year in additional chemical costs for odor control if it goes through a housing development.

Sewer Reports

1. Mark Miller, Director of Public Works - No report

2. Pennoni – Mike Ellis gave the following report for December:

RCSTP – Pennoni continues to provide operations assistance as needed. No issues were brought to our attention in December.

Reserve PS Elimination – We are still awaiting several contract closeout documents from the contractor before final payment will be made including as –built plans, a letter from the geotechnical engineer confirming adequate backfill compaction within the detention basin berm, written notification that they will return in the spring to remove the filter sock along the creek, contractor’s release, statement of surety, and maintenance bond. The contractor has indicated that they intend to provide the documents in time for final payment at the February MA meeting.

Reservoir Road Pump Station Act 537 Plan – We analyzed the potential annual cost savings on sewer fees to West Goshen that will result from the diversion. We estimated the payback period to be 12 years and we forwarded a summary memo to the Township.

We performed a comprehensive evaluation of alternative pump station locations and force main routes. We prepared a memo with our recommendations, including detailed rationale for the recommendations, for the Township. We still recommend the pump station be located at the intersection of Reservoir Rd. and Strasburg Rd. We recommend the force main be run all the way to the Ridley Creek interceptor via Misak Dr. and Anne Dr. to avoid the intersection of Strasburg Rd. and S.R. 0352 and numerous utility conflicts.

We conducted an updated PNDI Search on the proposed pump station location and force main route. The results require that we perform a Phase 1 bog turtle habitat survey and also submit documentation to DCNR for a potential threat to a special concern plant species, the “Tooth Cup”.

We request direction/approval from the Township Authority on the force main route at January's MA meeting. We will then make submissions to DCNR, PHMC (for cultural and historic resources as required by the Act 537 planning process), and coordinate with PADEP and/or the Army Corps to perform the bog turtle survey. We anticipate the agencies will take at least 60 days to respond to the submissions and perform the bog turtle survey. PADEP and/or the Army Corps may require additional in-field wetlands delineation of the extended force main route prior to the bog turtle survey.

The altered and additional force routing will require additional field survey beyond our original scope; however, we do not recommend any further surveying be performed until the design phase, after the Act 537 plan is approved by PADEP.

Mike will start the submissions for the Act 537 plan.

3. Big Fish Environmental Services – The following is a summary of Scott's report for December 2013:

Treatment Process Operation- During November 2013, there were no exceedances of the final effluent discharge limitations for Outfall 001 and Outfall 002.

The monthly average total phosphorus concentration was 0.30 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 0.25 mg/L to 0.34 mg/L.

There was no discharge to Applebrook, Outfall 002, during November 2013.

During the month of December 2013, there are no anticipated exceedances of the permitted effluent discharge limitations.

During December, there was no discharge to Applebrook.

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentrations and loadings. 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.

SBRs #1, 3 and 4 were in service during the month of December.

Process monitoring of each SBR included ammonia as N, Nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Foam concentrations remained around the same concentration as during November. Present surface area coverage during React Phase ranges from approximately 90 to 100%. The foam color changed to a light tan color and averages 3 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 is total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

Addition of aluminum sulfate solution to the SBRs to assist with phosphorus removal continued. The volume of aluminum sulfate solution to the SBRs was consistent during December. The addition of soda ash to the SBRs to assist with maintaining desired pH concentrations above 7.0 standard units continued during the month.

SBR #2 remains out of service as a treatment unit.

During the month, the decanter for SBR 3 was observed to have been extended above the water level. The effluent knife valve was routinely closed and the decanter filled with water to assist with lowering the decanter within the water level. The frequency of occurrence ranged from one to several occurrences during the month.

Process Monitoring On-Line Instrumentation: Representatives from the Hach Co. were on site on December 17, 2013 at 9:00 am to discuss the proposed pilot study of the RTC online analyzer.

Solids Dewatering and Disposal: November and December 2013

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 7.03 feet and the level at the end of the month was 9.74 feet. The initial total solids concentration was 0.70% and ended the month as 0.94% total solids. 108,850 gallons of supernatant were decanted during the month. A total of 100 pounds of soda ash were added during the month for pH adjustment.

Sludge holding tank #2 was in service. The level at the beginning of the month was 9.46 feet and the level at the end of the month was 13.58 feet. The initial total solids concentration was 0.88% and ended the month as 0.54% total solids. Zero gallons of supernatant were decanted during the month. A total of 250 pounds of soda ash were added during the month for pH adjustment.

Significant storm events in December – None

Minor Repairs and Preventive Maintenance

1. The pump tube for the alum feed pump for the SBVRs was replaced.
2. Influent pump #1 was removed and sent to Deckman Electric for rebuild. Scott discussed options for getting a more constant flow.

Any Other Matter

1. Jack moved to accept the following proposed slate of officers:
Chairman – Jack Yahares
Vice Chairman – Kevin Cummings
Secretary – Dana Pizarro
Treasurer – Ed McAssey
Assistant Sec/Treas – Fran Beck

Ed seconded the motion. Jack mentioned that he has not received an official letter of reappointment. Also, he will not be here for the Annual Planning meeting on 1/25.

The motion passed unanimously. Jack noted that Fran has been on the Municipal Authority since 1978 and thanked him for his service.

2. Carmen suggested that the Municipal Authority should use an Action List on their monthly agenda similar to what the BOS uses. Rick will send a copy to everyone.

Adjournment

There being no further business, Jack moved to adjourn the meeting. Dana seconded the motion. The motion passed unanimously. The meeting was adjourned at 8:15 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary