

**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY
MEETING MINUTES
October 14, 2013**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, October 14, 2013 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Fran Beck, Dana Pizarro, Ed McAssey, and Jack Yahraes. Also in attendance were: Rick Smith (Township Manager), Scott Towler (BFES), Bob Adams (Atty), Mike Ellis (Pennoni), Carmen Battavio (Township Supervisor), Mark Miller (Director of Public Works) 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

No Report

Approval of Minutes

The Chairman noted that the minutes of the September 9, 2013 meeting were approved.

Approval of Invoices

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

- | | | |
|----|-----------------|-------------|
| a. | Pennoni #562987 | \$ 1,496.25 |
| b. | Pennoni #562988 | \$ 1,624.25 |
| c. | Pennoni #562990 | \$ 2,900.75 |
| d. | Pennoni #563010 | \$ 307.50 |
| e. | Pennoni #564317 | \$ 2,019.75 |

Ed seconded the motion. The motion passed unanimously.

- f. Dana moved to approve payment of the Gawthrop invoice for \$220.00. Jack seconded the motion. The motion passed unanimously.

g. Ronald Smith App #1 for \$108,652.00. Mike confirmed that Pennoni recommends payment of \$64,651.02. Jack moved to approve payment in the amount of \$64,651.02 for the Ronald Smith App#1. Dana seconded the motion. The motion passed unanimously.

Liaison Reports

1. CB – Walter reported that the CB is having a fall planting on Sat. November 9 at 9:00 am on E. Boot Road near the boardwalk. They need volunteers to help with the planting.
2. BOS – Carmen reported that they are getting ready to review the 2014 budget. Interviews for the Park & Recreation Director position started today.

Financial Reports

Jon Altshul's report - The Municipal Authority recorded \$11,534 in expenses and \$2,150 in revenues in September, a difference of -\$9,384. Expenses include the quarterly chargeback of \$7,980 for administrative overhead expenses. The fund balance is now \$51,376.

Goals

Jack mentioned that the Newsletter article deadline is October 29th. He sent Kevin an email to let him know. Ed will attend the West Goshen meeting on December 2, 2013.

Mark Miller reported that the Lockwood project is complete. They have to remove the fence and pave the street.

New Business

A letter dated October 3, 2013 was received from Bob Adams stating that there will not be an increase in the rate for legal fees for 2014. Jack moved to accept the proposal for 2014 legal fees from Gawthrop. Dana seconded the motion. The motion passed unanimously.

Capacity Requests

Sunny Ridge Farms, 4 lot subdivision on Colonial Lane – Rick explained that the Authority approved the capacity request last month. Now they need to execute the agreement. Dana moved to accept the Sewer Capacity Agreement for the subdivision of 1551 Colonial Lane to connect three new single family homes to the township sewer system and authorize the Chairman to sign the agreement. Ed seconded the motion. The motion passed unanimously.

Sewer Reports

1. Mark Miller, Director of Public Works - Rick reviewed the following report for August 2013:

Meters: All meters were read on a daily basis. We met with Allied Control to go over the operation of the new meter.

Pump Stations: Were visited on a daily basis.

C.C. Collection: Pump stations were visited on a daily basis, with no problems to report.

We received a call for a backed up sewer lateral on N. Lochwood Lane. This was the second time we had a backup at this resident's property. We called in a PA One Call and excavated the lateral. We found that the trap was broken which caused debris to catch on the broken pipe.

We are in the process of replacing the lids and castings in Grand Oak.

R.C. Collection: Pump stations were visited on a routine basis. We were notified of 2 lateral back-ups which were cleared.

PECO will be out on the 15th to shut off power at the Reserve pump station. Once power is cut off we will start to remove the equipment. The equipment will be used at Hunt Country.

R.C. Plant: No problems to report

Alarms: We received a total of 17 alarms in September.

PA One Calls: We received 54 PA One calls for September.

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

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

Hershey's Mill PS Diversion – The project has been completed and final payment has been made.

Reserve PS Elimination – We performed daily part-time construction observation of site preparation, clearing, E&S controls, stream diversion and bypass pumping, and sewer installation. We also performed office support including review of shop drawings and payment application #1.

The contractor has completed installation of all new sanitary sewers including the upstream and downstream manhole connections and the new lateral on the Schroeder property. Testing of the sewers and manholes was done today and all passed. Wastewater will be diverted into the new sewers immediately upon testing acceptance, which is expected to occur by October 15. The Township Public Works Department is scheduled to begin to remove all equipment from the pump station on October 15 including shutdown of utility services. The PWD is being allocated 10 days to remove the equipment at which point the contractor will demolish the pump station building, wet well, valve vault, etc. The contractor intends to perform restoration of the sanitary sewer route while the PWD is removing the equipment.

The contract completion date is November 11, and we expect the work will be completed approximately one week in advance of that date.

Reservoir Road Pump Station Act 537 Plan – We attended an on-site project kick-off meeting and field reconnaissance with the Township.

We delineated and flagged wetlands and water surface levels of stream crossings on the proposed pump station parcel at the intersection of Reservoir Road and Strasburg Road and along the proposed force main route along Strasburg Road and N. Chester Road. We have prepared a draft wetlands report that will be finalized when the existing conditions plan is completed.

We began the topographic and existing conditions field survey of the proposed pump station parcel and proposed force main route to the tentatively proposed gravity sewer connection in Bow Tree. An existing conditions plan will be prepared following the field survey, and we anticipate the plan will be completed by the end of October.

We began preparation of the Act 537 Plan forms, narratives, and supporting documentation. We have evaluated various alternatives for pumping rates, revised the 2009 Ridley Creek sewer system hydraulic model based upon current flow data and projected pumping rates, and evaluated the capacity impacts to the plant and conveyance system. The modeling indicates the Ridley Creek interceptor may not have adequate capacity for 300,000 gpd from the pump station. We are coordinating with the Township to revisit system as-built plans and to field verify pipe sizes to determine if the model is underestimating capacities.

We are also evaluating the possibility of running the new force main all the way to the Ridley Creek interceptor (through Bow Tree) instead of tying into existing gravity sewer in Bow Tree. Jack asked if new sewer customers could tie into this line. Mike answered no.

Dana suggested that the consider sending peak flow to West Goshen rather than install 3,000 feet of interceptor which could cost \$100,000.

Debt Issuance Certification – We finalized, certified, and issued the self-liquidating debt certification documents for the proposed \$2.5M borrowing that were required by the lender.

Semi-Annual I/I Report – We analyzed data from portable and permanent meters throughout the Chester Creek Collection System, and we met with the Township to review the findings and strategize investigation and metering efforts for the next six months. We intend to complete and submit the semi-annual report before or at the October Municipal Authority meeting. Mike reported that Baldwin Drive to Paoli Pike is a focus area along the Chester Creek interceptor. They will televise to see if there is a problem and will continue to check it over the next 6 months. They updated the mapping to show the recent diversions.

3. Big Fish Environmental Services – The following is a summary of Scott’s report:

Treatment Process Operation- On August 1, 2013 there was one reported exceedance of the final effluent discharge limitations for outfall 001 and outfall 002. The exceedances reported included a weekly average of 20 mg/L, whereas the permit limitation weekly maximum is 15 mg/L. It is noted that the permit limitation instantaneous maximum of 20 mg/L was not exceeded. The discharge permit requires a minimum of one sample per week, therefore, the weekly maximum is identical to the instantaneous maximum. The laboratory report was received electronically on August 13, 2013.

The elevated TSS concentration was the result of significant hydraulic loading to the SBRs on August 1st beginning at approximately 10:30 AM and continuing through 3:00 PM. Influent flow rates to the SBRs increased from 100 to 204% of the design hydraulic loading as the result of a rainfall event. The surge of influent flow resulted in the SBRs experiencing storm mode treatment phases identified as “filled decant” and “filled settle”, which typically results in minor solids carryover into the final effluent post flow equalization basins.

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 0.19 mg/L to 0.44 mg/L.

Flow to Applebrook, Outfall 002, continued during August.

During the month of September 2013, there are no anticipated exceedances of the permit limitations for Outfall 001 and Outfall 002, the CBOD₅ and TSS final effluent concentrations were periodically elevated.

Transfer of treated effluent to the Applebrook Golf Course continued during September, with the exception of September 1 through the 9th. The average daily discharge for Outfall 002 was 122,800 gallons per day. 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.

SBRs 1, 3 and 4 were in service during the month. 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 August. Present surface area coverage during React Phase ranges at approx. 50 – 60%. The foam remains as light to medium brown in color and averages 2 – 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 towards mid and later September as total phosphorus concentrations in the final effluent composite samples were observed to increase.

SBR No. 2 remains out of service as a treatment unit. The majority of the contents were transferred to the sludge holding tanks. The water level was lowered to approx. 4.25 ft. 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 10.23 feet and the level at the end of the month was 3.95 feet. The initial total solids concentration was 0.95% and ended the month as 0.66% total solids. Zero gallons of supernatant were decanted during the month for pH adjustment.

Sludge holding tank #2 was in service. The level at the beginning of the month was 12.47 feet and the level at the end of the month was 12.04 feet. The initial total solids concentration was 0.56% and ended the month as 0.99% total solids. A total 260,400 gallons of supernatant were decanted during the month. A total of 350 pounds of soda ash was added during the month for pH adjustment.

Significant Storm Events – As previously described, on August 1st there was a significant storm resulting in a significant increase in influent flow volume into the SBRs. The influent flow rate exceeded the hydraulic design flows for a period of approx. 7 hrs. There were no significant storms during September.

Minor repairs & preventative maintenance – UVBank #1 – replaced failed ballast, 3 lamps and 3 quartz sleeves; Applebrook Pump – pump wasn't staying in operating and was tripping the circuit breaker. Troubleshooting identified a loose wire which was refastened.

Installed a flow signal adapter from the SBR influent flow meter to the influent wet well composite sampler. Installed a new sample suction line and place sampler on line Sept 29.

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 8:00 pm.

Respectfully submitted,

Ruth Kiefer
Recording Secretary