

Cecil Township Municipal Authority  
Special Informational Meeting  
February 23, 2005

The Cecil Township Municipal Authority held a special meeting on Wednesday, February 23, 2005 at the Cecil Township Municipal Building. Chairman Donald Gennuso called the meeting to order at 7:00 PM. The Authority members present were Adam Ferragonio and George Elish. Also present was Dan Deiseroth, Gateway Engineers; W. Patric Boyer, Solicitor - Eckert Seamans Cherin & Mellott LLC; Walter O'Shinski P.E. and Dennis Bell, Administrator.

**SOUTHPOINTE INTERCEPTOR EXPANSION STUDY**

Mr. Andrew Blenko with Gateway Engineers presented a study paid for by three developers with interest in the Southpointe watershed. He provided a brief history on Southpointe that started in 1985. He stated the treatment facility is at the Canonsburg-Houston Joint Authority plant and all flows within Southpointe are by gravity. The original line is ten (10) inch diameter and was built specifically for the business park.

He stated a meeting was held on July 13, 2004 with developers interested in exploring options for providing sanitary sewage to areas outside of Southpointe. Municipal authority staff, Canonsburg-Houston Joint Authority staff engineer and PA DEP attended the meeting. PA DEP requested the study evaluate alternatives to sewer Southpointe and Morganza Road watersheds. The PA DEP stated any plan must include providing sewage service to Hendersonville with a strong preference for treatment at the existing CHJA plant.

The scope of the project was to review a 1999 report and update with changes to existing conditions and investigate any changes in the CHJA treatment plant and the effects on the system. In addition, a review of potential needs of both the proposed and existing development in the Morganza Road watershed. A preliminary layout of gravity sewer lines, pump station(s) and force main(s) to serve future development was prepared. Alternatives to increase sanitary sewage capacity for the property planned for development and the ultimate build out of the watershed was completed. Cost estimates for the alternatives were determined.

The study mapped watersheds and proposed developments to determine buildable acreage in each watershed with individual developers providing projected sewage flows. The flows totaled slightly over one million gallons per day for five developments consisting of residential, commercial and mixed use. The remaining acreage was broken into zoning classifications to determine potential sewage flows.

All flows to Canonsburg-Houston JA treatment plant would have to be pumped. Canonsburg-Houston JA will not permit additional gravity flows to their plant due to the headworks configuration.

Two alternatives were considered. Alternative A would have two pump stations – one at Hendersonville and one at Morganza Road near All Clad with treatment at Canonsburg-Houston JA plant. Alternative B would have a treatment plant at the base of the Morganza Road watershed with gravity flow from Southpointe and a pump station at Hendersonville. The Alternative A presented the most cost efficient approach at an estimated construction cost of \$12,054,190 with Alternative B estimated at \$17,197,000.

The Alternative A includes a diversion chamber at manhole 29 in Southpointe to allow maximum use of the existing interceptor while diverting excess flows to Morganza Road pump station. A portion of the existing 10” interceptor upstream of manhole 29 must be replaced with a larger diameter pipe. A new sewer line parallel to the existing interceptor is needed to provide sewage service to the Davis and Andree’s properties. Canonsburg-Houston JA would need to amend their service area and commit to a schedule for a plant expansion. The current flows are 4 MGD and the plant is designed for 5 MGD.

The plans presented can be broken down into segments depending on how development would proceed. A breakdown of the estimated construction costs was provided.

## BRUSH RUN STUDY

Mr. Matt Bagaley presented a report on the Brush Run interceptor study. He provided a brief history on providing sewage service to the Village of Muse in 1985. The study was required to determine existing conditions and what capacity existed as development interest continues in the watershed. He stated the focus in 1985 was to service exiting homes and not the entire watershed. The pipes were upsized one size above the minimum to service the existing homes. The Authority installed the mains and the homeowner installed laterals. The Authority did not require interior home plumbing be changed to eliminate I & I.

The purpose of the study was to analyze existing sewage flows and anticipated flows to accommodate the entire watershed. The existing flow data was monitored from a flow meter located at manhole 13-4 in the Muse interceptor and a flow meter at manhole 3A on the main interceptor just before the sewer enters Canonsburg borough. The ten sub-watersheds were delineated and the area determined by zoning district with the number of lots derived based upon zoning.

The model was developed to mimic existing interceptor conditions. The anticipated total watershed build-out design flows were inserted into the model. Pipe sizes, slopes and manhole hydraulics were adjusted. The design was developed to accommodate the flow. Assumptions were that manhole surcharging was not permitted. Surcharges resulting from inadequate Canonsburg capacity were not considered. Sixty-two pipe segments were analyzed and forty-five pipes require modification to handle the ultimate flow. Work on the Canonsburg line would be required to accommodate the changes in the Cecil watershed.

The recommendations were to initial an I & I program to reduce existing flows, additional flow meter on interceptor upstream of the Muse connection, update model as development occurs, require developers to upgrade lines across their property and at critical downstream segments and revise the tap-in fee rates to reflect cost of improvements.

#### UPDATE ON LAWRENCE 537 STUDY

Mr. Andrew Blenko addressed the Board on the status of the 537 Study for Lawrence. He stated the best alternative appears to provide sewage to those properties that can flow by gravity to the Teodori treatment plant and the balance of the village to Peters Township for treatment. He stated a written response from Peters Township Sanitary Authority on their ability to treat the flow from Lawrence was requested but to date has not been received. Donald Gennuso suggested all efforts be given to get the response.

The meeting adjourned at 9:10 PM.

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Secretary

