



**CET Engineering
Services**

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MEMORANDUM

TO: Washington Township Municipal Authority

FROM: Kevin Shannon

DATE: January 22, 2008

RE: Authority Meeting Engineers' Report

The following are summaries of CET's activities during December 2007/January 2008:

WATER SYSTEM

WaterCAD Training and Support (1798.0900)

- ◆ No activity since last meeting.

Hess Well and Brookdale Booster Pumping Station VFD and Controls (1798.1100)

- ◆ No activity since last meeting.

Standard Specifications for Water System Construction (1798.1300)

- ◆ No activity this month.

Miscellaneous

- ◆ Toured much of the water system facilities on 1/17/08 with Scott and M. Smith of CET.
- ◆ Discussed Act 57 (tapping fee legislation) with Sean.

SEWER SYSTEM

WWTP Biosolids Management (1798.0200)

- ◆ Developed preliminary projections of sludge production at design flow with Phosphorus removal and preliminary requirements for ATAD (Autothermal Thermophilic Aerobic Digestion).

Special Act 537 Planning Study to Determine WWTP Nutrient Removal Capabilities and Evaluate Alternatives to Comply with Pennsylvania's Chesapeake Bay Tributary Strategy (1798.0300)

- ◆ Discussed EDU/flow projections with Sean and Gene.
- ◆ Discussed maximum monthly loadings/design criteria with Aqua Aerobics.

Pennsylvania Avenue/Pennersville Road Sewer Project (1798.0700)

- ◆ Received/reviewed as-built information from Gene.

Sewer System Capacity Analysis (1798.0800)

- ◆ WTMA has installed its 2 functioning meters in the 10" trunk lines that are tributary to the 12" Scott Drive sewer. No data has been downloaded as of 1/17/08. This meter data will determine existing average, peak daily, and peak hourly flows in these lines, which each currently serve over 500 EDUs. This data can then be used to update and calibrate the sewer model relative to existing conditions.
- ◆ K. Shannon and A. Zeigler met with Gerald Zeigler on 12/18/07 and received information relative to several sketch plans that have been submitted to the Township. This information, along with various subdivision/land development plans that have been submitted to WTMA, will serve as the basis for projecting future additional flows to the WWTP and various components of the WTMA wastewater conveyance system.
- ◆ Developed preliminary base mapping for 12/18/07 meeting using AutoCAD mapping of Washington Township streets and zoning received from C.S. Davidson.

Standard Specifications for Sewer Main Construction (1798.1300)

- ◆ Continued to work with Gene on finalizing details.

Miscellaneous

- ◆ Nothing this month.

DEVELOPER SUBMITTALS

- ◆ Johnny Knepper Estates (1798.5006) – **Reviewed revised plans and recommended WTMA approval for construction in 1/2/08 email to Andy.**
- ◆ Thornhill (1798.5011) – No activity this month. Awaiting response to comments in 5/9/07 and 5/16/07 letters.
- ◆ B2M2 (1798.5012) – Awaiting pumping station design drawings, calculations, and DEP WQM Permit application package. Called CEDG regarding status.
- ◆ Landmark Acquisitions Apartment Complex (1798.5018) – **Reviewed revised plans and recommended WTMA approval for construction in 1/11/08 letter to Andy.**