

**SEWER COMMISSION  
THURSDAY, March 6, 2008**

A Meeting of the Board of Sewer Commissioners was held on March 6, 2008, at 7:30 p.m. in Conference Room A at the Thomas C. Parsons Complex, 70 West River Street.

Chairman, Paul Austin called the Sewer Commission meeting to order at 7:30 p.m.

The following Commission Members were present:

Chairman, Paul Austin; Vice Chairman Donald Anderson;  
Commissioner Robert Carroll; Commissioner Michael V.  
Brown; and Commissioner Louis D'Amato

Others Present:                     Robert Brinton, City Engineer, Consultants Westcott &  
Mapes, Inc. Raymond Macaluso (enters the meeting at  
8:17 p.m.) and Raymond Paier; Consultant Earth Tech -  
Ken Bradstreet; James Cooper, Acting Wastewater  
Superintendent

**CITIZENS COMMENTS:**

None

**PETITIONS**

None

**TABLED APPLICATIONS**

None

**WESTCOTT AND MAPES, INC.**

**A.     Contract 2004b - Bridgeport Avenue/Riverside Drive**

Westcott and Mapes, Inc reported they received Complete Construction Company's proposal of additional work to install the sewers in the McNeiece Easement area. The letter has been reviewed by the City Engineer and Milford legal counsel. Comments were conveyed to us, via the City Engineer, legal counsel is not in agreement with the contractor's new terms and conditions concerning indemnification, and the existing contract documents shall govern.

A site meeting was held today with the Director of Public Works, City Engineer, Westcott and Mapes, Inc. and Complete Construction at which time an agreement was reached and authorization is requested for Complete Construction Company to proceed with items 1. Cautious Excavation, item 2.

Remob/Demob, item 3. Testing of Surplus Excavated Material and item 4. Construction & Maintenance of Waste Stockpile Area in accordance with their letter in the amount of \$43,932.00 and shall proceed with items 5. Handling of Materials and item 6. Disposal of Materials on a cost plus basis if required.

Commissioner Michael Brown **MADE A MOTION** to approve \$43,932.00. Handling and Disposal of Materials on a cost plus basis if required up to \$10,350.00. In addition, pages two and three will be excluded regarding indemnification subject to review and revision if necessary by the City Attorney

Vice Chairman Donald Anderson **SECONDED** and it was unanimously carried.

Westcott and Mapes, Inc. presented Complete Construction Company's payment application number 4 in the amount of \$11,299.33. Westcott and Mapes, Inc. reported that they have reviewed and certified to this amount and respectfully request payment approval in the amount of \$11,299.33 for Complete Construction.

Westcott and Mapes, Inc. presented a letter of Request for Purchase Order Amendment for their increased efforts and expanded scope that was not allocated in the original project regarding the Contract No. 2004-B. Westcott and Mapes has expended more man hours than originally estimated at the time of splitting the contract into (3) separate contracts over three years. Overall, approximately 75% of the total sewers for the project have been installed, and approximately 500 lineal feet of sewers remain yet to be installed. There have been unforeseen utility conflicts, having met with AT&T and the Gas Company. They received letters from the Regional Water Authority with their comments as the location of the sewer relative to the water main. They responded to them by taking additional field measurements, having the surveyor go out and pick up the markings relative to the stake out of the pipe. They generated separation mapping demonstrating the pipe versus the specific water main location and multiple correspondence to the Water Authority regarding that mapping. Eventually it was resolved and the pipe was put in without incidence.

They used the mapping that the Water Company provided, and there was no incidence. The water pipe was not where they had anticipated.

Westcott & Mapes, Inc. is requesting approval for an amendment to their purchase order #07-0047975-001 in the amount of \$40,000 for compensation of additional professional services and upcoming efforts to closeout the project.

Robert Brinton, City Engineer has reviewed the request.

Commissioner Robert Carroll **MADE A MOTION** to approve the amendment to purchase order #07-0047975-001 in the amount of \$40,000 for compensation of additional professional services and upcoming efforts to close out Contract 2004-B.

Vice Chairman Donald Anderson **SECONDED** and it was unanimously carried.

**B. Indian River Interceptor Manhole Rehabilitation**

Westcott and Mapes, Inc. reported that the contractor Terre Hill Composites, and their installer Paradise Eco Solutions just completed 100% of the installation of all of 17 manhole liners in the project. Westcott and Mapes, Inc. reported that the last manhole was completed Tuesday. The installation and resulting final product was excellent and all leaks in the treated manholes have been successfully eliminated.

Westcott and Mapes, Inc. reported they have composed a list of a few minor punch list items, have transmitted it to the contractor and will see to it that these items are completed.

Westcott and Mapes, Inc. presented Terre Hill Composites payment application number 1 in the amount of \$109,138.85. This amount represents approximately 70% of the total work which was completed up to the February 27<sup>th</sup> payment request submission date. Westcott and Mapes, Inc. reported that they have reviewed and certified to this amount and respectfully request payment approval in the amount of \$109,138.85 for Terre Hill Composites.

**C. Wolf Harbor/Avalon**

No change from February 7<sup>th</sup> meeting.

**D. East/West Interceptor**

Westcott and Mapes, Inc. reported that bids from three construction companies were received on February 14<sup>th</sup>; Baltazar Contractors, Mark IV Construction, and M. Rondano Inc. Mark IV was the low bidder at \$3,066,061.

The amount bid, however, exceeds funds currently available for the project. Additional funding will be requested as part of the bond package being presented to the Board of Finance on March 31<sup>st</sup> and the Board of Alderman on April 7<sup>th</sup>.

Westcott and Mapes, Inc. has reviewed Mark IV's bid submission and has found them qualified to perform the contract, once additional funding is approved.

Commissioner Louis D'Amato **MADE A MOTION** to issue the Notice of Award to Mark IV in the amount of \$3,066,061 contingent upon the Board of Finance and the Board of Alderman meetings.

Commissioner Michael Brown SECONDED and it was unanimously carried.

### EARTH TECH

#### A. Housatonic & Beaver Brook Wastewater Treatment Plant

1. Carlin's Payment Requisition #16 is in the amount of \$1,792,335.06 is presented to the Board for approval. This requisition includes work through February 19, 2008 as follows:

##### **Housatonic Plant - \$1,148,577.90**

Backfill – South Aeration Tank

Site piping – Aeration tank influent and effluent; clarifier influent; misc

Concrete work:

UV disinfection chamber, walls and fills

Clarifier #5 & #6 – interior troughs

Roof – Solids Building

Equipment Deliveries

Aeration Control Systems (\$121,630)

Hyperbolic mixer drives (\$56,250)

Motor Control Centers (\$107,696)

Secondary Clarifiers – Equipment installation, weirs and baffles

Piping – South Aeration Tank, Galleries, Solids Building and Digester Building

HVAC and Plumbing – Solids Building and Blower Building

Electrical Equipment and instrumentation

MCC's and VFD's

SCADA panels

Field Instruments

Duct banks

Power feeders

Primary Settling tank #1 retrofit is almost complete, start-up scheduled for next week

Carlin is working to put mechanical screen in operation as soon as possible

##### **Beaver Brook Plant - \$643,757.16**

Demolition – Lift Station, settling tanks

Concrete – Lift station

Miscellaneous metals – UV structure, final settling tank, secondary treatment tank #3

Equipment installation:

Axial flow pumps, rotary lobe pumps, propeller pumps

Hyperbolic mixer

Clarifier equipment  
Piping – Digester Building; Secondary Treatment Tank #3  
Plumbing – Operations Building  
Electrical work:  
MCC's and VFD's  
Power Feeders

UV system is scheduled for start-up next week.

2. Change Order #18 in the amount of \$16,136.00 is submitted to the Board for approval. It includes 3 electrical revisions at the Beaver Brook plant. Work includes the addition of a magnetic flow meter to measure sludge flow to the WAS tank and the addition of a pressure transducer to measure water level at the UV structure; Power feed to an existing 45 KW transformer in the Lift Station; and relocation of an existing transformer and wall outlet in Room 115 to allow construction of a new bathroom.

Vice Chairman Donald Anderson **MADE A MOTION** to approve Change Order #18 in the amount of \$16,136.00.

Commissioner Robert Carroll **SECONDED** and it was unanimously carried.

3. Change order #19, in the amount of \$39,168.00 is submitted to the Board for approval. It includes replacement of some of the gas piping at Housatonic. This work was discussed at last month's meeting, and a motion was approved to proceed with the work which was estimated to cost \$35,000.

Commissioner Louis D'Amato **MADE A MOTION** to approve Change Order #19 in the amount of \$39,168.00.

Commissioner Michael Brown **SECONDED** and it was unanimously carried.

4. Change Order #20 in the amount of \$54,036.00 is submitted to the Board for approval. It includes repair work to the digester cover at the Housatonic plant. Work included is replacement of cross bracing, sand blasting of welds at the ends of the trusses and painting of truss ends and cross bracing. Some of this work has been completed, and the welds have been inspected. Carlin has presented a Change Order Proposal for the remainder of the work in the digester, including the welding of the trusses and painting of the rim plate, for \$59,120.00. We are reviewing this proposal and will present it at the April meeting. The cost of the repair work in the digester will total \$113,156.00, which is considerably less than the \$143,056.00 estimate presented at the February meeting.

Commissioner Robert Carroll **MADE A MOTION** to approve Change Order #20 in the amount of \$54,036.00.

Vice Chairman Donald Anderson **SECONDED** and it was unanimously carried.

5. Change Order #21 in the amount of \$6,497.00 is submitted to the Board for approval. It includes modifications to the Polymer room containment in the solids Handling Building. It includes the addition of a floor drain, modification to the curb to fit the equipment and a non-slip epoxy coating. A chemical containment liner was specified for this area that is not needed, which will be utilized at another location in the plant.

Commissioner Michael Brown **MADE A MOTION** to approve Change Order #21 in the amount of \$6,497.00.

Commissioner Louis D'Amato **SECONDED** and it was unanimously carried.

6. The staging is in place for work inside the Beaver Brook Digester. Preliminary evaluation is that once the initial layer of rust is removed, the cover is sound.

7. Project Status (Approximate)

Contract price including Change Order #21	\$47,222,077
COP #45 (Completion of Digester repair at Housatonic)	<u>\$59,120</u>
	\$47,281,197
Original Contract Price	<u>\$46,667,452</u>
	\$613,745
Estimated remaining unit price items	<u>- \$302,000</u>
Contingency Utilized to Date	\$311,745

Need to revise alignment of the new gas line at the Beaver Brook Plant to keep the area in front of the digester free for a future maintenance garage. Westcott & Mapes, Inc. will need to revise the easement map. They have given us a proposal to do this work for \$1,500 under our Construction Engineering Contract. We request approval of the Sewer Commission to do this additional work.

Commissioner Louis D'Amato **MADE A MOTION** to approve \$1,500 for a revision of the easement for the Gas Company to be done by Westcott & Mapes, Inc..

Vice Chairman Donald Anderson **SECONDED** and it was unanimously carried.

Robert Brinton, City Engineer will confer with the City Attorney regarding this being presented to the Board of Alderman.

B. West Avenue and Gulf Pond Pump Station and Force Main

1. The Mayor has included funding for these projects in his capital budget, which he plans to present to the Board of Finance at it's meeting on March 31 and to the Board of Aldermen at it's April 7<sup>th</sup> meeting.

## C. East Broadway Pump Station Relocation

1. The easement for the sewer connecting the East Broadway and Mayflower sites is awaiting approval by DEP and the Attorney General. Once this has been received the borings can be done and the design completed.

## D. Welches Point Pump Stations

1. No action due to lack of funding

**USER FEE REVISIONS/ASSESSMENT REVISIONS**

None

**COMMITTEE REPORTS**

Jim Cooper, Acting Superintendent of the Wastewater Division, Robert Brinton, City Engineer and Raymond Macaluso, Westcott & Mapes, Inc. met regarding the FOG regulations and grease trap inspections. There is no specific person designated to inspect grease traps. With a lack of personnel to do inspections, we might want to consider hiring a person. Jim Cooper feels we could hold off on that. Existing Wastewater personnel may be able to assume those duties.

Communication problems within the City between Health Department, Planning & Zoning, and the Building Department are evident. There is no communication when there is a change in use. There has been communication with the five or six companies that pump out the grease traps. There also seems to be a question of responsibility for grease traps between property owners and business owner. This issue needs to be rectified. Property owner should be responsible overall. The property owner should be able to verify that the grease trap has been maintained, however, at this time it is not clear. Even in the DEP Regulations, it only refers to the "owner", whether it's restaurant owner or property owner, it is not clarified. We will need to re-establish communication with the Health Department. Paul Austin and Raymond Macaluso have had a meeting with Dr. McBride and they seemed at first that they wanted to be part of the solution. Mr. Carlson from the Mall called the Health Department and asked for assistance and he was told that the Health Department does not do that anymore and that "it had been taken away from them". Sanitarians go out to inspect restaurants and there is a form that they fill out. I suspect that there is nothing on the form to denote the cleaning of grease traps. Possibly Dr. McBride can put something on the form to denote clean out of grease traps. Possibly they can verify that grease has been pumped from grease traps in a timely manner. They might be able to check receipts for cleaning.

Chairman Austin asked if a follow-up meeting the Health Department would be beneficial. Jim Cooper will follow up with the Health Department. Jim Cooper states that the Sanitarians at the Health Department are not physically capable of lifting the manhole covers as they are very heavy. We would only request that they check for a

receipt of maintenance of the AGRU's or grease traps. Possibly Health Department can send a list to the Sewer Commission.

Jim Cooper has a list of all restaurants in the city. We will need to make a note of which restaurants do not have a grease trap or where restaurants are using one grease trap it needs to be determined who is responsible for maintenance. As of 2011, all restaurants will be required to install a 1,000 gallon exterior grease trap. We will need to deal with the 2011 date separately. There are a number of restaurants where crews have to be sent out to clean out the sewer lines because of build ups. There is a list of 60 or 70 trouble sites with grease issues. Approximately six months ago there was a problem on Bilyard Street at the Pit Stop Restaurant. A letter was sent out requiring the Pit Stop Restaurant to install a 1,000 gallon exterior grease trap. To date we have not received a reply. A second letter should be sent out quoting the section of the ordinance, giving them 30 days to comply, with a copy to the Health Department and the City Attorney. Chairman Paul Austin will draft a letter to the Pit Stop Restaurant.

Commissioner Robert Carroll excused himself and left the meeting at 8:58 p.m..

### **CITY ENGINEER**

City Engineer Robert Brinton presented the monthly Expenditures and Encumbrances to Date as of March 6, 2008.

Ray Macaluso met with the Mayor and the Mayor put a draft list of capital sewer projects together for the Board of Finance and the Board of Alderman. Ray distributed the draft hand-out to the Commissioners.

There are three separate requests:

Request No. 1 is an additional \$950,000 for the East/West Interceptor.

Request No. 2 is an additional \$28,211,408 the remaining 2003 Facilities Plan projects.

Request No. 3 for \$3,025,000 for the Buckingham Avenue Force Main Replacement.

At the April 7<sup>th</sup> meeting, should the Board of Alderman approve all this money, there is a ten day appeal period, we can go out to bid by April 17<sup>th</sup>. The money will be in place. We will decide if it will be presented in one contract or three separate contracts. Indian River, East Broadway Interceptor projects are designed to go.

Paul Austin encouraged Board Members to attend the Board of Finance Meeting on March 31, 2008.



## **WASTEWATER**

Jim Cooper, Acting Superintendent of the Wastewater Division submitted his written report to the Sewer Commission.

### **Plants**

Both Wastewater Plants performed well in the month of January, producing a good effluent.

At the Housatonic Plant normal monthly maintenance was performed. The #1 primary tank is giving us problems with torque overload, it appears to be scraping heavily on one side of the scraper arms, we cannot down this tank at the present time because they are working on the other one, it should be back in service soon.

At the Beaverbrook Plant normal monthly maintenance was performed. We have been having a problem with the main pumps clogging with rags and we had McVac Company come in and clean out the wet well, hopefully for the last time because the comminutor has been removed to be replaced by a new stepper screen that will remove the rags instead of grind them up and dump them into the pump station.

## **Collection System**

### **Pump Stations**

Scheduled maintenance was performed at the following pump station: Rock Street, Mathews Street, Anderson Ave., and Boston Post Road.

Other Duties performed by pump station crews:

1. At the Milford Point Road Pump Station we changed the internal parts in the check valves for the main sewage pumps with a new modified assembly we received from the manufacturer at no cost.
2. The block heater on the emergency generator at the Zion Hill Road Pump Station was found to be defective and was replaced with a new one.
3. We installed a new sump pump at the Old Gate Lane Pump Station.
4. At the Welches Point Road Pump Station we had to replace the upper drive shaft section on the #3 driveline because of excessive vibration.

There were six (6) alarms at pump stations in January: 2 for power outage, 1 for high water, 1 for pump overload, one for generator fail, and one for low wet well.

## **Sewer Maintenance**

Sewer Maintenance answered seven (7) complaints.

Sewer Maintenance crews performed scheduled maintenance at four (4) trouble sites citywide: #2, #3 #4, and #5.

Scheduled maintenance was performed on the following equipment: all hand rodding equipment, also the air plugs, air bags and related equipment.

There were two (2) sewer excavations in January: at 113 Harkness Drive and on Brewster Road.

Other duty performed by Sewer Maintenance crews:

1. At Brewster Road we redirected a small force main that picked two houses into the gravity system that goes to the Watrous Lane Pump Station.
2. A private contractor is working to rehabilitate the manholes in the Indian River easement with a fiberglass lining process.
3. The crews assisted pump station crews trying to free up a stuck check valve at the Welches Point Road Pump station.
4. We made some repairs to our Aries TV camera, that seem to working all right. We will probably have to send it back to the factory for a more extensive repair soon.

A total of 5,950 ft. were jet flushed, 1955 feet were TV'ed with our standard TV equipment, and 581 ft. were spy tv'ed. We also hand rodded 75 ft, used the hydraulic jet root cutter to relieve 500 ft, root treated 265 ft., smoke tested 489 ft. and dye tested 325 ft. to check for sewer connection.

### **Current Events**

At both treatment plants we are anticipating some of the new equipment and tanks to be put on line in the next couple of months. At the Housatonic Plant the South aeration tank and the grit and screenings building, and at Beaverbrook the stepper screen and the new aeration tank.

### **CHAIRMAN'S REPORT**

#### **326 West Main Street**

Application is to connect a proposed fitness center to the City's Sanitary Sewer System. The total approved proposed gallonage for the entire parcel is 4,446 gallons per day. The total allowable gallonage for the entire parcel is 8,355 gallons per day.

#### **51-53 Eastern Steel Road/287 Woodmont Road**

Application is to connect a proposed warehouse to the City's Sanitary Sewer System. The total approved proposed gallonage for the entire parcel is 4,031 gallons per day. The total allowable gallonage for the entire parcel is 16,920 gallons per day.

**46 Erna Avenue (Milford Fabricating Company)**

Application is to connect a proposed addition to an existing manufacturing building to the City's Sanitary Sewer System. The total approved proposed gallonage for the entire parcel is 2,035 gallons per day. The total allowable gallonage for the entire parcel is 2,610 gallons per day.

**57-59 Bridgeport Avenue – (Donut World)**

Application is to connect a proposed Donut World to the City's Sanitary Sewer System. The total approved proposed gallonage for the entire parcel is 946 gallons per day. The total allowable gallonage for the entire parcel is 1,650 gallons per day.

**VOTING****A. PETITIONS - See above****B. MINUTES**

Commissioner Michael Brown **MADE A MOTION** to approve the minutes of the Regular Sewer Commission Meeting of February 7, 2008.

Vice Chairman Donald Anderson **SECONDED** and it was unanimously carried.

**A. PAYMENTS**

Vice Chairman Donald Anderson **MADE A MOTION** to approve Payment List of March 6, 2008 as follows:

to **Carlin Construction**, Housatonic Plant Upgrades, P.O. 07-0046625-001, Account No. 0026-4154-0036-4994-0025 in the amount of **\$1,148,577.90;**

to **Carlin Construction**, Beaverbrook Plant Upgrades, P.O. 07-0046618-001, Account No. 0026-4154-0036-4994-0024 in the amount of **\$643,757.16;**

to **Complete Construction**, Contract 2004-B, P.O. 08-0048976-001, Account No. 0025-4154-0038-4993-0000 in the amount of **\$11,299.33;**

to **Terre Hill Composites, Inc.**, Indian River Interceptor Manhole Rehabilitation, P.O. 08-0049088-001, Account No. 0026-4154-0036-4994-0023 in the amount of **\$109,138.85;**

to **Westcott & Mapes**, East/West Interceptor Sewer Replacement, P.O. No. 07-0047617-001, Account No. 0026-4154-0044-4993-0000 in the amount of **\$9,057.50;**

to **Westcott & Mapes**, Contract 2006, P.O. No. 06-0045211-001, Account

No.0026-4154-0039-4993-0000 in the amount of **\$12,290.00;**

to **Westcott & Mapes**, Indian River Manhole Repairs, P.O. No. 07-0047722-001, Account No. 0026-4154-0036-4993-0023 in the amount of **\$11,265.00;**

to **Independent Materials Testing Lab, Inc.** WWTP-Upgrade Project Material Testing, P.O. No. 07-0046973-0001 Account Nos. 0020-4154-0036-4993-0024 and 0026-4154-0036-4993-0024 in the amount of **\$1,918.00;**

to **Earth Tech**, Contract Engineering Services WWTP Upgrade, P.O. No. 06-0045461-001, Account Nos. 0026-4154-0036-4993-0024 and 0026-4154-0036-4993-0025 in the amount of **\$114,068.71.**

The total of Payment List of March 6, 2008 is in the amount of **\$2,061,372.45.**

Commissioner Michael Brown **SECONDED** and it was unanimously carried.

Vice Chairman Donald Anderson **MADE A MOTION** to adjourn at 9:40 p.m.

Commissioner Michael Brown **SECONDED** and it was unanimously carried.

The next meeting of the Board of Sewer Commissioners is scheduled for **Thursday, April 3, 2008 at 7:30 p.m.**

Respectfully submitted,

Cynthia N. Valeo  
Secretary, City of Milford Sewer Commission