

**SEWER COMMISSION**  
**THURSDAY, July 10, 2008**

A Meeting of the Board of Sewer Commissioners was held on July 10, 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; Commissioner Michael V. Brown;  
Commissioner Robert Carroll and Commissioner Louis  
D'Amato

Others Present:                    Robert Brinton, City Engineer, Consultants Westcott &  
Mapes, Inc. Raymond Macaluso and Mark Davis;  
Consultants Earth Tech - Ken Bradstreet and Charlie  
Smith; James Cooper, Acting Wastewater Superintendent;

Absent:                                Vice Chairman Donald Anderson

**CITIZENS COMMENTS:**

**Joseph Viscount - 53 Chatham Avenue**

Mr. Viscount requested a waiver from the City of Milford Engineering Department to disconnect the existing sewer service at 72 Monroe Street at the street line before proceeding with a partial and/or total demolition of the structure.

Commissioner Michael Brown **MADE A MOTION** to deny Mr. Viscount's request for a waiver.

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

**Edward Chickos – 30 Bridgeport Avenue**

Mr. Chickos is requesting that the City of Milford reimburse him for the purchase and installation of a sewage pump system. Mr. Chickos was assured at the Public Hearing that it would not be necessary for him to install a sewage pump system, however, because of a field change in the plans of the Sewer Infills Contract No. 2004-B it has become necessary for Mr. Chickos to install a sewage pump system.

Commissioner Louis D'Amato **MADE A MOTION** to reimburse Mr. Chickos for costs up to a sum of \$5,000 to purchase and install a sewage pump system, in order to allow his house to be connected to the new city sanitary sewer. The connection must be made within three months (by October 15, 2008) and copies of proposals, paid invoices, cancelled checks, etc. must be submitted to the city to obtain reimbursement. Contractor must obtain a sewer connection permit from the Engineering Department.

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

**PETITIONS**

**TABLED APPLICATIONS**

None

**WESTCOTT AND MAPES, INC.**

Mark Davis, Engineer, Westcott & Mapes, Inc. reported.

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

Westcott & Mapes, Inc. reported that paving is complete for the project. Connection of an additional sewer lateral for 26 Bridgeport Avenue remains at a proposed cost of \$6,000. Authorization for the additional work to make this connection is respectfully requested.

Commissioner Robert Carroll **MADE A MOTION** to approve the authorization for the additional work to make the connection for the proposed cost of \$6,000.

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

**B. Indian River Interceptor Manhole Rehabilitation**

No change.

**C. Wolf Harbor/Avalon**

No change.

**D. East/West Interceptor**

Westcott and Mapes, Inc. reported that review of required Contractor submittals for materials and methods of construction for this project is nearly complete. On June 27<sup>th</sup> and July 8<sup>th</sup> Westcott and Mapes, Inc. met with Mark IV Construction Company, Inc., BakerCorp and Wastewater Division at the West Avenue Pump Station to discuss details for bypass pumping at the station and installation of the new sewer into the station building. Construction is expected to start at the West Avenue Pump Station the week of July 21<sup>st</sup>.

**E. East Broadway Interceptor**

Westcott and Mapes, Inc. reported that the Notice of Award for this project was issued to Mark IV Construction Company, Inc. on June 12<sup>th</sup> and that the pre-

construction meeting was held on June 24, 2008. The contract agreement is being prepared and is awaiting receipt of the bonds and certificates of insurance. Work on this project will begin after Labor Day.

**F. West Avenue Parallel Force Main**

Westcott and Mapes, Inc. reported that CGS Section 8-24 approval was received from the Planning and Zoning Board on June 17<sup>th</sup> and from the Board of Aldermen on July 7<sup>th</sup> for this project. Once the necessary easements are acquired they will go before the Planning and Zoning Board and Board of Aldermen for authorization.

**G. Indian River Interceptor Replacement**

Westcott and Mapes, Inc. reported that CGS Section 8-24 approval was also received from the Planning and Zoning Board on June 17<sup>th</sup> and from the Board of Aldermen on July 7<sup>th</sup> for this project. Once the necessary easements are acquired they will go before the Planning and Zoning Board and Board of Aldermen for authorization.

**H. Buckingham Avenue Force Main**

Westcott and Mapes, Inc. reported that field survey for this project is complete and that engineering design is underway.

**EARTH TECH**

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

1. Carlin's Payment Requisition #20 in the amount of \$1,507,993.07 is presented to the Board for approval. This requisition includes work through June 16, 2008 as follows:

**Housatonic Plant - \$1,067,549.70**

Site work including grading, drainage, curbs, fencing

Equipment deliveries:

Secondary clarifier equipment \$93,456

Refurbish boiler/heat exchanger \$147,250

Chemical tanks \$37,620

Installation of equipment:

Pumps

Aeration diffusers

UV system

Digester gas system and gas mixing system

SCADA computers, software and programming

Painting

Piping

HVAC  
Electrical

The South anoxic basin and aeration basin have been started up and are in operation.

The UV system is partially installed and will be started up next week

The digester mixing system will be started up next week

The plant driveway on the South side of the site was paved yesterday.

The digester boiler/heat exchanger is being refurbished

### **Beaver Brook Plant - \$440,443.37**

Installation of equipment and electrical in Secondary Treatment Tank #1

Installation of polymer equipment

Installation of pumps and piping

Piping replacement in primary digester

Installation of gas equipment and gas mixing system at Digester

Work on SCADA system

Problems with the UV system have been resolved

Secondary treatment tanks 2 & 3 are currently in operation

Polymer system is scheduled for startup next week

Digester mixing system is scheduled for startup next week

Installation is underway for the new boiler/heat exchanger

2. Change Order #32 in the amount of \$15,226.00 is submitted to the Board for approval. It includes modification of the secondary scum piping to resolve a conflict with the 36" plant drain at the Housatonic plant. This work was done on time & materials (T&M) basis.

Commissioner Louis D'Amato **MADE A MOTION** to approve Change Order No. 32 in the amount of \$15,226.00.

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

3. Change Order #33 in the amount of \$38,855.00 is submitted to the Board for approval. It includes the following items of work at the Housatonic plant:
  1. Modify handrail at digester roof due to interference with the roof coping fascia: \$4,715.00.
  2. New sanitary drain for bathroom in secondary gallery. Existing drain was eliminated due to tank reconfiguration: \$5,031.00.
  3. Replace 6 deteriorated plant water hydrants at anoxic basins: \$9,223.00.
  4. Additional radio equipment at Fire Station to send alarms if telephone dialer fails: \$5,343.00.
  5. Reroute air piping in Solids Handling Building due to conflict: \$6,925.00. This work was done on a T&M basis.

6. Modify blower inlet piping to make filters accessible for maintenance: \$2,141.00. This work was done on a T&M basis.
7. Furnish 2 sets of stairs and handrails for access to belt press operating platform: \$5,477.00

Commissioner Louis D'Amato **MADE A MOTION** to approve Change Order No. 33 in the amount of \$38,855.00.

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

4. Change Order #34 in the amount of \$39,026.00 is submitted to the Board for approval. It includes replacement of pipe supports for the sludge feed piping in the primary digester at the Beaver Brook plant and replacement of the sludge feed piping. This was previously discussed with the board with approval given to proceed with the work at the May 1, 2008 Sewer Commission meeting. This work was done on a T&M basis.

Commissioner Michael Brown **MADE A MOTION** to approve Change Order No. 34 in the amount of \$39,026.00.

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

5. Change Order #35 in the amount of \$15,676.00 is submitted to the Board for approval. It includes the following items of work at the Beaver Brook plant:
  1. Furnish and install grating, stairs and handrail for access to the influent box at Secondary treatment Tank #3: \$11,583.00
  2. Add an additional 6" plug valve to isolate a magnetic flow meter: \$1,268.00
  3. Furnish and install 1 set of stairs and a handrail to access the belt press operating platform: \$2,825.00

Commissioner Louis D'Amato **MADE A MOTION** to approve Change Order No. 35 in the amount of \$15,676.00.

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

6. Change Order #36 in the amount of \$27,034.00 is submitted to the Board for approval. It includes the following items of work at the Beaver Brook plant:
  1. Replace existing obsolete reduced voltage motor starters for the existing Spencer blowers with new solid state starters: \$24,088.00
  2. Relocate polymer pump VFD's: \$2,946.00

Commissioner Robert Carroll **MADE A MOTION** to approve Change Order No. 36 in the amount of \$27,034.00.

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

7. Change Order #37 in the amount of a \$57,600.00 credit is submitted to the Board for approval. It includes the following items of work:
1. Carlin proposed a method of coring through the concrete floors of the existing secondary clarifiers at the Housatonic plant to connect to the RAS piping, saving a considerable amount of site piping and saving trenching through the floor. Savings: \$20,000
  2. Earth Tech allowed Carlin the backfill within the limits of the earth support systems for the North and South aeration basins at the Housatonic plant. Savings: \$20,000.00
  3. Trojan was able to utilize compact fiber optic patch panels and media converters in the UV control panels at both plants, saving on the size of the enclosures. Savings: \$11,600.00
  4. The manual bar rack at the Beaver Brook Lift Station was not replaced as it is in good condition. Savings: \$6,000.00

Commissioner Michael Brown **MADE A MOTION** to approve Change Order No. 37 in the amount of \$57,600.00.

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

8. Project Status (Approximate)	
Contract price including Change Order #37	\$47,593,744
Original Contract Price	<u>\$46,667,452</u>
	\$926,292
Estimated remaining unit price items	<u>\$302,000</u>
Contingency Utilized to Date	\$624,292

9. The City has been offered a credit of \$6,000.00 for not doing lithium chloride tracer testing to verify the mixing capability of the digester mixing systems at both plants. Earth Tech recommends that the City accept the credit since this system has been manufactured for at least 20 years and satisfactory mixing has been demonstrated using this test consistently over the years.

Commissioner Michael Brown **MADE A MOTION** to accept the \$6,000 credit for not doing lithium chloride tracer testing to verify the missing capability of the digester mixing systems at both plants.

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

10. While dismantling the boiler heat/exchanger at the Housatonic plant, pitted return bends were discovered which need to be replaced as well as damaged end plates which need to be welded. Approval of the Board is requested to proceed with this work so as not to delay the project.

Commissioner Louis D'Amato **MADE A MOTION** to approve request to proceed with

this work (approximate amount of \$10,000) so as not to delay the project.

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

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

1. Earth Tech is proceeding to update the design of the pump stations as well as package the plans and specifications for bidding. We anticipate advertising this project for bids approximately 6 months following advertisement of the force main project.

C. East Broadway Pump Station Relocation

1. The draft easement for the sewer connecting the East Broadway and Mayflower sites is being reviewed by the City Attorney. It will then go to the Planning and Zoning Commission and then to the Board of Alderman for approval.
2. Earth Tech is proceeding with design of the Mayflower Pump Station.

D. Welches Point and Rock Street Pump Stations

1. Earth Tech has started design work on this project.

**USER FEE REVISIONS/ASSESSMENT REVISIONS**

None

**COMMITTEE REPORTS**

None

**CITY ENGINEER**

Bob Brinton, City Engineer presented the Sewer Facilities Upgrade Projects Expenditures and Encumbrances to Date – June 30, 2008.

**WASTEWATER**

**Plants**

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

At the Housatonic Plant normal monthly maintenance was performed. The plant is running well. We have the new South Aeration basins on line and one of the old aeration tanks that has been converted to an anoxic basin with the hyperbolic mixers. We are starting to see the early signs of some denitrification going on.

At the Beaverbrook Plant normal monthly maintenance was performed. We have some of the new systems on line. The bugs seem to be getting worked out of the ultra-violet disinfection system and it is working satisfactorily. We have two aeration/ anoxic

tanks on line with recycle pumps and should have the third one before long. We are experiencing some operational problems with the new systems and are working to gain more familiarity with how to run everything with the new equipment.

### **Collection System**

#### **Pump Stations**

Scheduled maintenance was performed at the following pump stations: Viscount Drive and Adams Ave.

Other duties performed by pump station crews:

1. At her Gulf Pond Pump Station we finished re-piping and installing all new check valves and gate valves for the duplex sump pump system. We also closed the 24" force main to help with odor control.
2. At the Welches Point Pump Station we finally got the #1 discharge valve to open and close properly after weeks of having problems . We also installed a new wear ring on the #2 pump to try and prevent the many clogs that have been occurring there.
3. At Old Field lane we added pumps "running" pilot lights to aid in the pump station operation.
4. We are still adding chemical degreaser at the Wanda Road Pump Station to see its effects on the pump station.
5. The pumps are still clogging at the Anderson Ave. Pump Station. We did a partial wet well cleaning and are scheduling a confined space entry for next month to clean the wet well more completely. We also rebuilt the #3 motor there due to a bad bearing.
6. We had problems with the level controller at the Cricklewood Pump Station with levels being shown as very erratic, we called in the wastewater electrician to replace the level transducer.

There were three (3) alarms at pump stations in May: 1 for power outage and 2 for high water .

### **Sewer Maintenance**

Sewer Maintenance answered six (6) complaints.

Sewer Maintenance crews performed scheduled maintenance at five (5) trouble sites citywide: #14, #16 #34, #35 and #44.

Scheduled maintenance was performed on the following equipment: The Atlas Copco air compressor, jack hammer and air powered cut off saw.

There was one sewer excavations in May: 14 Marie Street

Other duty performed by Sewer Maintenance crews:



1. We worked with the root control contractors, to chemically root treat thousands of feet of sanitary sewers to help prevent roots.
2. The crews kept up with the street milling operation, repairing broken frames and covers that came along prior to paving.
3. The crews worked with pump station crews to change a cover and frame at the Mayflower pump station so we can install a new level control system.
4. The technical services group received a demonstration on a new spy eye camera system that we are interested in purchasing.
5. We assisted the owner of Il Forno Rest. On a sewer problem that turned out to be a broken force main owned by the property owner, that was repaired by them.

A total of 16,456 ft. were jet flushed, 813 feet were TV'ed with our standard TV equipment, and 314 ft. were spy tv'ed. We also hand rodded 287 ft, used the hydraulic jet root cutter to relieve 494 ft, root treated 460 ft., smoke tested 166 ft. and dye tested 213 ft. to check for sewer connection.

### **CHAIRMAN'S REPORT**

Chairman Paul Austin reported the Administrative Approvals for the month of June 2008.

#### **26 HIGGINS DRIVE**

Application to connect a proposed Dog Daycare to the City's Sanitary Sewer System. Total approved proposed gallonage for the entire parcel is 360 gallons per day.

#### **89 ROSES MILL ROAD**

Application to connect a proposed Off-Track Betting Office to the City's Sanitary Sewer System. The total approved proposed gallonage for the entire parcel is 551 gallons per day. The total allowable gallonage for the entire parcel is 1,845 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 June 5, 2008.

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

#### **A. PAYMENTS**

Commissioner Robert Carroll **MADE A MOTION** to approve Payment List of July 10, 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 **\$1,067,549.70;**

to **Carlin Construction**, Beaverbrook Plant Upgrades, P.O. 07-0046618-001, Account No. 0026-4154-0036-4994-0024 in the amount of **\$440,443.37;**

to **Westcott & Mapes**, Buckingham Avenue Force Main, P.O. No. 08-0050540-001, Account No. 0026-4154-0045-4993-0000 in the amount of **\$23,475.00;**

to **Westcott & Mapes**, East/West Interceptor Sewer Replacement, P.O. No. 08-0050648-001, Account No. 0026-4154-0044-4993-0000 in the amount of **\$27,952.50;**

to **Westcott & Mapes**, East Broadway Interceptor Replacement Construction, P.O. No. 07-0047721-001, Account No. 0026-4154-0036-4993-0027 in the amount of **\$4,410.00;**

to **Westcott & Mapes**, Indian River Interceptor, P.O. No. 05-0041341-001, Account No. 0026-4154-0036-4993-0023 in the amount of **\$17,245.00;**

to **Westcott & Mapes**, Contract 2004-B, P.O. No. 07-0047975-001, Account No. 0026-4154-0038-4993-0000 in the amount of **\$4,745.00;**

to **Westcott & Mapes**, West Avenue Parallel Force Main, P.O. No. 08-0050658-001, Account No. 0026-4154-0044-4993-0000 in the amount of **\$15,705.00;**

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 **\$280.00;**

to **Earth Tech**, West Avenue/Gulf Pond, P.O. No. 04-0038905-001, Account No. 0026-4154-0036-4993-0021; in the amount of **\$2,100.00;**

to **Earth Tech**, East Broadway Pump Station Replacement, P.O. No. 05-0043160-001, Account No. 0026-4154-0036-4993-0022 in the amount of **\$2,825.00;**

to **Earth Tech**, Rock Street & Welches Point Pump Station, P.O. No. 08-0050651-001, Account Nos. 0026-4154-0036-4993-0028 in the amount of **\$1,144.90;**

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 **\$105,080.59.**

The total of Payment List of July 10, 2008 is in the amount of **\$1,712,956.06.**

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

Commissioner Robert Carroll **MADE A MOTION** to adjourn at 9:07 p.m.

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

Commissioner Michael Brown **MADE A MOTION** to re-open the meeting at 9:07 p.m..

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

### **EXECUTIVE SESSION**

Chairman Paul Austin **MADE A MOTION** to enter into Executive Session to discuss acquisition of an easement for ADP, Inc. for the West Avenue Force Main Project.

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

Commissioner Michael Brown **MADE A MOTION** to return from Executive Session.

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

Commissioner Louis D'Amato **MADE A MOTION** to approve that the City Engineer will offer a settlement to ADP, Inc. in the amount not to exceed \$5,000.

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

Commissioner Robert Carroll **MADE A MOTION** to adjourn at 9:12 p.m.

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

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

Respectfully submitted,

Cynthia N. Valeo, Clerk  
City of Milford Sewer Commission

