

4 Turkey Hill Road
Newtown, CT 06470
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Fred Hurley,
Director

TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY

Richard B. Zang,
Chairman
Marianne Brown
Louis Carbone
Richard Conte
Alan Shepard
Eugene Vetrano
Carl Zencey

The **Newtown Water and Sewer Authority** held its regular meeting on **June 9, 2011** at the Wastewater Treatment Plant, 24 Commerce St, Newtown, CT. Chairman Zang called the meeting to order at 7:09 pm.

Present: R. Zang, E. Vetrano, C. Zencey
Absent: M. Brown, A. Shepard, R. Conte, L. Carbone

Also present: F. Hurley, Dir. Of Public Works; Beth Critton of Shipman and Goodman, Guri Dauti of Dauti Construction, and J. Segarra of United Water Environmental Services, Inc

Public Participation: None

Approval of Minutes: Tabled

Old Business

Gallons Processed vs gallons billed study – J. Segarra presented data from the two portable flow meters showing that the north side of the sewer collection system may be contributing more I&I than the south side. Carl Zencey will analyze the data to confirm before the meters are relocated upstream at Grand Place and Church Hill Road.

Sewer mapping – Fred Hurley reported that the Town is seeking a consultant for an overview of the entire infrastructure on the FFH Campus.

Capital Needs – The SCADA project has been advertised. *New Wells*; the State is insisting on an A2 Survey and a separate application for each test well location before approval. Improvements to the *Water Distribution* system will not be addressed in the short term.

Fairfield Hills sewer service area - Tabled

Renewable energy Project – The contract with the State CCEF has been signed by the Town and WSA. The Opel contract for the turnkey solar installation has been reviewed and changes forwarded to Opel for acceptance.

Sewer Benefit Assessment for 11 Edmond Road – Tabled.

Rate increase for water users – The FY 12 budget will not include a rate increase to users. Once the new well is operational payments to Potatuck are expected to be lower.

95-99 Church Hill Road/Dauti Construction - Ms. Critton asked if the WSA will uphold the Appellate Court's decision now that the Supreme Court has declined to hear a further appeal from the Town and WSA. R. Zang said the WSA will abide by the court order, but explained that Dauti still needs the approval of other town agencies. The WSA board needs a letter from P&Z stating that a formal plan has been submitted before a benefit appraisal can be prepared.

NEW BUSINESS

Report by United Water Environmental Services, Inc. – The plant is running well. A copy of the May 2011 Monthly Operating Report is attached.

Report by Public Works Director – There is new interest in the property near exit nine that may require an extension of the Hawleyville sewer.

Any other business

Having no further business, the meeting was adjourned at 8:53pm

A. Miles, Clerk

Attachment A – United Water ESI May Operating Report

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The Newtown Water and Sewer Authority held a public hearing on Thursday, June 9, 2011, at the Wastewater Treatment Plant, Commerce Road. Chairman Richard Zang called the meeting to order at 7:00 PM.

Present: Eugene Vetrano, Richard Zang, Carl Zencey

Absent: Marianne Brown, Alan Shepard, Lou Carbone, Richard Conte

Also Present: Director of Economic and Community Development Liz Stocker, Don Sharpe co-chair of the Economic Development Commission, Rob Powell and William Joyce of AFS and three members of the public

Set the benefit assessment for 11 Edmond Road: Bill Joyce the CEO of Advanced Fusion located at 11 Edmond Road questioned if they should be paying an additional charge. An appraisal by Karin & Fazio set the benefit assessment for the expansion at \$60,000 on May 2, 2011. They have approval to do the expansion but that is a long range plan, at this point they have no intent to build it. Fred Hurley explained that the assessment would not become payable until the construction is complete. Dick Zang asked for a letter from AFS stating their plans and the WSA will send a letter in return. Liz Stocker confirmed that when and if they did the expansion would the process have to be started over.

The adoption to the proposed amendments to the sewer regulations. They were last amended in 2001. Since then the name of the authority has changed. They changed the formula for user rate so regulations don't need to be revised each time there is a rate change. Liz Stocker said that they had a meeting last Friday about the Hawleyville District. The economic development did submit their 5 year plan and said that the sewers would have to be addressed. The area is targeted as an economic growth area. Moving forward there should be some additional conversations between the two boards and asked if the regulations address the assessments. Dick Zang said that the Hawleyville district benefit assessments are handled the same as the central district.

Adjourned at 7:08pm



MONTHLY OPERATING REPORT

May 2011

TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of May the plant process performed well and the nitrogen removal process has greatly improved, and is operating below the plant's 6 mg/l design. We averaged greater than 90% removal. The open channel flow meters have been installed at the new locations 4 and 5. The meters were installed at the manhole near the plant and Commerce Road. Taunton Lake will be our next areas of focus. The SCADA RFP is in final review. We are in Ultraviolet light disinfection season and all systems have been serviced and on line. Below are some of the highlighted major operation and maintenance items that are currently in progress or completed.

OPERATION & MAINTENANCE

- Inspect all plant fire extinguishers, eyewash, and emergency exit lighting.
- Inspected and adjusted sludge pumps in the thickener building..
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- Greased gravity belt thickener.
- Inspected and cleaned polymer system.
- Cleaned secondary tanks 1&2 draft tubes.
- Cleaned and inspect all Ultra Violet light systems and equipment.
- Cleaned and inspect Ultra Violet effluent channel.
- Cleaned gravity belt thickener belt.
- Cleaned, stripped and waxed lab counter tops.
- Inspect both influent and effluent composite samplers.
- Replaced proximity switch on # 3 sand filter.
- Repaired proximity switch on # 1 sand filter.

PUMP STATIONS

- Pumps were checked and are operating normally.
- Replaced faulty pressure transducer at Baldwin. pump station.

ODOR ABATEMENT

There were no odor complaints for the month.

STAFFING

We are presently fully staffed.

TRAINING

All employees continued with our in house OSHA compliance safety training through PureSafety.

REGULATORY COMPLIANCE

The plant had no compliance problems during the month.

SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	45,500	40,625 gal/mo 2 loads/wk	0.4073MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	45,500	4.40	4.63	4.40	16,691

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	1
Pump Station	0	4
Plant	3	17
Odor	0	0
Grinder Systems	0	7

PLANT MAINTENANCE

The following data is provided as a record of maintenance work order activities during the month.

Type	Total This Month	Total for Year
Preventative Maintenance	21	271
Corrective Maintenance	10	134
Emergency Maintenance	0	3
Call-Before-You-Dig (CBYD)	23	256

FIELD OPERATIONS

Type	Monthly Ft	Total for Yr	Contract	Amount Left
Sewer Cleaning Scheduled	0	0	16,226 ft.	16,226
Sewer Cleaning Unscheduled	0	0	*****	*****
Other	Monthly Qty	Total for Yr	Contract	Amount Left
Manhole Inspections	1	113	*****	N/A
Grinder Replacements	0	11	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

PUMP STATIONS

Station	Baldwin	Hanover	Sandy Hook	Taunton Lake	Hawleyville	Fairfield Hills Metering
Number Inspections/Mo.	12	8	8	8	8	8
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	0	0	0
Maintenance & Repair	1	0	0	0	0	0
Flow (Total MG)	0.131	0.505	1.883	.585	0.612	5.753
(Avg. Daily GPD)	4,228	16,321	60,762	18,893	19,755	185,599

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$6,726.27	\$54,756.68	\$243.32
Capital Repair and Replacement	\$95,000	\$2,669.04	\$104,168.21	-\$9,168.21

FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2010	0.272	611	482	January 2011	29
August 2010	0.278	581	533	February 2011	36
September 2010	0.317	710	521	March 2011	32
October 2010	0.406	727	709	April 2011	12
November 2010	0.449	846	656	May 2011	12
December 2010	0.545	820	883	June 2011	
January 2011	0.477	954	761	July 2011	
February 2011	0.555	931	859	August 2011	
March 2011	0.684	632	631	September 2011	
April 2011	0.476	741	646	October 2011	
May 2011	0.429	749	545	November 2011	
June 2011				December 2011	
Monthly Average	0.444	755	657	Calendar Year to Date Average	24
Contract	Average 0.53 MGD Adjustment = Change in Flow in MG * \$17.83/MG	Avg. 999 lbs/day Adjustment = Change in BOD in lbs * \$0.04/lb	Avg. 703 lbs/day Adjustment = Change in TSS in lbs * \$0.16/lb	Contract	NPDES Permit Limit = 19 Lbs/day
Deviation % (+/-)	-16	-24	-6.5	Deviation % (+/-)	26

FAIRFIELD HILLS WTF

EXECUTIVE SUMMARY

The staff continues to improve equipment and standard operating methods to prevent Fairfield Hills WTP failures. Well # 3 is operating as the lead pump at 60 gallons per minute. In order to maintain the water quality; Sand filters were installed at Town Hall and The Youth Academy their addition has improved the water quality at each facility. **There was flushing of the lines.** The two new OEM chemical feed pumps were installed at the Water Treatment Plant and operational. Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

OPERATION & MAINTENANCE

- Youth Sports Complex is happy with the water quality.
- Work has been completed. On the corrosion control (phosphate) chemical feed pumps for the Water Treatment Plant.
- Working with Fuss & O'Neill on the water supply plan.

STAFFING

Currently, all the regulatory required staffing positions are met for the Water Treatment Facilities.

REGULATORY COMPLIANCE

The Department of Health Monitoring Report did meet full compliance during the month.

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Plant	0	0
Well Houses	0	1
Reservoirs (Storage)	0	0
Customer Service Issues	0	0
Water Main Breaks	0	1

FAIRFIELD HILLS MAINTENANCE

The following data is provided as a record of maintenance work order activities during the month.

Type	Total This Month	Total for Year
Preventative Maintenance	2	26
Corrective Maintenance	0	24
Emergency Maintenance	0	1

FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	0
Hydrant Inspections	0	5
Service Inspections	0	0
Call-Before-You-Dig (CBYD)	2	25

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$2,536.20	\$14,940.70	\$559.30
Capital Repair and Replacement	\$20,000.00	\$105.37	\$19,293.11	\$706.89

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2010	1,197,000	4,200,200	0	5,397,200
August 2010	1,176,000	4,522,200	0	5,698,200
September 2010	1,184,000	4,366,900	0	5,550,900
October 2010	1,028,000	4,366,600	0	5,394,600
November 2010	790,000	3,939,800	0	4,729,800
December 2010	1,002,000	4,351,000	0	5,353,000
January 2011	830,000	3,828,900	0	4,658,900
February 2011	850,000	3,776,900	0	4,626,900
March 2011	874,000	4,029,300	0	4,903,300
April 2011	830,000	3,574,400	0	4,404,400
May 2011	1,050,000	3,784,000	0	4,834,000
June 2011			0	
Monthly Average	982,818	4,067,290	0	5,050,108
Daily Average	33,870	122,064	0	155,935