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Fred Hurley,
Director

TOWN OF NEWTOWN
WATER AND SEWER AUTHORITY

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

THESE MINUTES ARE SUBJECT TO APPROVAL BY THE WATER AND SEWER AUTHORITY

The Water and Sewer Authority held its regular meeting on Thursday, April 11, 2013 at the Waste Water Treatment Plant, 24 Commerce Road, Newtown, CT. Chairman Zang called the meeting to order at 7:00pm.

Present: Dick Zang, Alan Shepard, Lou Carbone, George Hill, Carl Zencey

Absent: Marianne Brown, Gene Vetrano,

Also Present: Julio Segarra of United Water and Director of Public Works Fred Hurley

Public Participation - None

Approval of Minutes – The previously distributed minutes of the public hearing and special meeting of 3/21/12 were unanimously approved.

OLD BUSINESS

Capital Needs Study – Dick Zang and Julio Segarra are still working on this. The Capital Needs study needs to be done before the end of June for the next fiscal year. The large items have to do with the water system and the state requests for items. Julio is getting prices for a generator for the Water Treatment Plant which could be \$128,000 without installation for diesel or over \$400,000 for natural gas. Fred Hurley suggested for a planning standpoint, the Capital Needs Study should be out for 5 years. This allows large items to be identified into for the next few years. Well 3 and Well 7 are the most pressing items. Well 3 needs to be rehabilitated and Well 7 hasn't been looked at in years and an evaluation of the pump and the system needs to be done.

A suggestion from the state is the interconnect with the town and Aquarian Water. The fiscal year 2014 will be mainly the water side. On the sewer side it would be rehabilitation of oxidation ditch one. On Monday Fred and Julio will meet with CL&P at the Taunton Lake pump station to look into changing the electric to 3 phase.

Renewable Energy Project-grant payment – The second phase of the grant payment was submitted.

Recessed public hearing to set the Sewer Benefit Assessment at \$233,200 for 95-99 Church Hill Road – Fred Hurley spoke with the owner and the attorney. There was a misunderstanding from the owner that

the system has been paid for and there would be only a hook up charge. Speaking with Fred they said that they are ok with the benefit assessment. Alan Shepard moved to set the benefit assessment for 95-99 Church Hill Road at \$233,200 which would be paid apportioned per unit. Carl Zencey seconded, motion unanimously accepted.

Recessed public hearing to extend the Central Sewer District to include 20 and 60 Castle Hill Road – Carl Zencey moved that the informal request was withdrawn via e-mail and there was no demonstrated authorization from the owner of the property presented to the WSA. Lou Carbon seconded, motion unanimously accepted.

Recessed public hearing to set the Sewer Benefit Assessment at \$180,000 for 164 Mt. Pleasant – Alan Shepard moved to go into executive session at 7:44pm, Carl Zencey seconded. Motion unanimously accepted. Executive session ended at 8:09pm

Alan Shepard moved to continue the recess for 164 Mt. Pleasant Road. Carl Zencey moved, motion unanimously accepted.

NEW BUSINESS

Discuss Rate Increase for Water and Sewer users – A budget needs to be worked out to determine what the rates need to be.

2 Hall Lane – Request for adjustment of sewer use bill due to irrigation leak – Fred Hurley has documentation from the water company about the leak. The rebate will mirror the percentage rebate that was granted by the water company.

Committee Reports: SCADA, solar, I&I, Finance, regulations, water supply, collection and distribution systems – **Solar** – On-line access has been given to the members so they can see the progress of the solar panels. **I&I** – The rain gauge is being repaired. **Regulations** – Modifications still need to be done to the water pollution control plan.

Report by United Water Environmental Services Inc. – A copy of the March 2013 operating report is attached.

Report by Public Works Director – Fred has comparisons for the water projects from Fuss & O’Neil and GHD. GHD will do the reconstruction of well 8 and Fuss will do the Department of Public Health code compliance at the treatment plant.

Having no further business, meeting was adjourned at 9:05pm

Arlene Miles, Clerk



MONTHLY OPERATING REPORT
March 2013
TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of March the plant process performed well. Nitrogen average pound per day during the month was 14 lbs. The open channel flow meter data has been collected from both locations. The meters are located at a manhole on Main Street near School House rd. and Commerce Road. Taunton Lake will be our next areas of focus. The plan will be to inspect during heavy rains for signs of inflow. Plant generator air discharge permit has been submitted to Fuss & O'Neil to prepare and submit to the Air Compliance Department for modification.

Below are some of the highlighted major operation and maintenance items that are currently in progress or completed.

PROJECTS

SCADA

- The submittals are near completion.
- All the pump station back-up float panels are installed. Final wiring pending.
- The 12 pair fiber optics cable has been pulled at the plant.
- Knapp engineering has begun work at the plant identifying inputs and output circuits.

SOLAR

- Executive electric has been notified that a section of panels are not working.
- Web site is now active.

AIR COMPLIANCE

- **Fuss & O'Neill working on revoking all generator air compliance permits.**

OPERATION & MAINTENANCE

- Inspect all plant fire extinguishers, eyewash, and emergency exit lighting.
- Inspect and programmed the replacement effluent sampler in the filter building.
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned both levels in the filter building.
- Cleaned the roto-mat and the rag hopper.
- Greased gravity belt thickener.
- Inspected and cleaned all eye wash stations.
- Cleaned secondary tanks 1&2 draft tubes.
- Cleaned gravity belt thickener belt.
- Checked calibration of the influent flow meter
- Calibrated Dissolved oxygen probe in the Oxidation ditch.
- Cleaned # 1 oxidation ditch.
- Replaced tubing on both influent and effluent samplers.
- Inspect all plant equipment oil levels.
- Painting in lower level of the clarifier building. (on-going)
- Modifying seal flushing lines in the clarifier building.(In Progress)
- Cleaning and Painting equipment in the filter building. (work in progress)

PUMP STATIONS

- All pump stations checked twice per week with no problems.
- Taunton Lake p/s add-a phase has some capacitor burned and at the brink of failure. Ordered complete replacement of the defective capacitors with immediate installation on their arrival. Recommend three phase power as permanent solution. Director looking into feasibility and cost.

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

In Compliance

SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	26,000	40,625 gal/mo 2 loads/wk	0.252MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	26,000	4.17	4.83	4.53	9,823

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	1	9
Plant	2	10
Odor	1	2
Grinder Systems	3	15

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	22	272
Corrective Maintenance	13	166
Emergency Maintenance	0	1
Call-Before-You-Dig (CBYD)	27	256

FIELD OPERATIONS

Type	Monthly Ft	Total for Yr	Contract	Amount Left
Sewer Cleaning Scheduled	0	9650	*****	*****
Sewer Cleaning Unscheduled	0	500	*****	*****
Other	Monthly Qty	Total for Yr	Contract	Amount Left
Manhole Inspections	2	48	*****	N/A
Grinder Replacements	3	19	As Necessary	N/A
New Grinder Stations	0	0	*****	N/A

PUMP STATIONS

Station	Baldwin	Hanover	Sandy Hook	Taunton Lake	Hawley-ville	Fairfield Hills Metering
Number Inspections/Mo.	9	9	9	10	9	9
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	1	0	0
Maintenance & Repair	2	2	2	3	2	0
Flow (Total MG)	.138	.481	1.877	.840	.389	6.046
(Avg. Daily GPD)	4,460	15,548	60,575	27,118	12,558	195,048

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$6,252.42	\$41,905.23	\$13,094.77
Capital Repair and Replacement	\$95,000	\$21,592.93	\$102,951.20	-\$7,951.20

FLOW AND LOADS TRACKING

Budget Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Calendar Month / Year	Average N, lbs
July 2012	.325	670	489	January 2013	21.6
August 2012	.343	712	494	February 2013	17.9
September 2012	.365	694	544	March 2013	14.4
October 2012	.389	729	638	April 2013	
November 2012	.416	881	798	May 2013	
December 2012	.457	847	751	June 2013	
January 2013	.513	889	686	July 2013	
February 2013	.500	781	710	August 2013	
March 2013	.521	658	581	September 2013	
April 2013				October 2013	
May 2013				November 2013	
June 2013				December 2013	
Monthly Average	.425	762	632	Calendar Year to Date Average	18
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 = 17 Lbs/day
Deviation % (+/-)	-19	-24	-10	Deviation % (+/-)	6

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 <40 gallons per minute. The water treatment plant operated very well in October.

We had a Department of Public Health inspection August 22.

The Butterworth construction installed screens at WTP and bunkers.

A new Chlorine residual controller and ph probe are checked and calibrated at the Water Treatment plant. Check and maintain calibrations of all equipment.

Chlorine chart recorder was checked for calibration.

There was no flushing of the lines at Fairfield Hills during the month of March.

Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

OPERATION & MAINTENANCE

- Inspected WTP and made adjustments as needed.
- Monitor chlorine and ph controller at the WTP and adjust as needed.

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 WTP	0	6
Well Houses	0	0
Reservoirs (Storage)	1	1
Customer Service Issues	0	5
Water Main Breaks	0	0

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	3	18
Corrective Maintenance	2	9
Emergency Maintenance	1	3

FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	57
Hydrant Inspections	0	46
Service Inspections	13	35
Call-Before-You-Dig (CBYD)	0	18

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,590.56	\$9,902.73	\$5,597.27
Capital Repair and Replacement	\$20,000.00	\$282.75	\$26,402.01	-\$6,402.01

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2012	746,000	5,772,400	0	6,518,400
August 2012	735,000	5,885,200	0	6,620,200
September 2012	567,000	4,065,500	0	4,632,500
October 2012	776,000	5,494,200	0	6,270,200
November 2012	499,000	3,448,700	0	3,947,700
December 2012	609,000	4,266,900	0	4,875,900
January 2013	581,000	3,894,900	0	4,475,900
February 2013	611,000	3,722,300	0	4,333,300
March 2013	635,000	4,332,200	0	4,967,200
April 2013			0	
May 2013			0	
June 2013			0	
Monthly Average	639,889	4,542,478	0	5,182,256
Daily Average	20,484	139,748	0	160,232

