



MONTHLY OPERATING REPORT

April 2011

TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of April 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 data gathered will be inspected once per month. The meters were installed at the manhole near the plant and Commerce Road. The Hanover rd areas given a general manhole inspection and we found at least two infiltration streams. 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.
- Inspect and tested all generators and transfer switches.
- Hosed secondary wells and troughs.
- Cleaned the grit washer screen, and hopper.
- Cleaned the roto-mat and the rag hopper.
- 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.
- Inspect and service influent composite sampler.
- Inspect and service effluent composite sampler.
- Installed rain data logger on top of the admin. Building.

PUMP STATIONS

- Pumps were checked and are operating normally.
- Replaced faulty voltage regulator at Hanover rd. pump station.
- Inspect and test all generators and transfer switches.
- We had all the generators at the pump station fully load tested by Cummins and found the voltage regulator was not responding well. The technician's advised the removal of the external potentiometer and retested the generator. Tested fine.

- A couple of pump station will be having their batteries replaced shortly as part as preventive measures.
- Hanover Rd. pump station generator's cooling radiator has been replaced. The old radiator will be sent out and rebuilt.
- Inspect all of the fire extinguishers.
- A grinder pump was replaced at 12 Diamond Dr. on April 9th.

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)	32,500	40,625 gal/mo 2 loads/wk	0.3618 MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.59	5.26	4.8	12,913

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	1
Pump Station	1	4
Plant	5	14
Odor	0	0
Grinder Systems	1	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	35	250
Corrective Maintenance	17	124
Emergency Maintenance	2	3
Call-Before-You-Dig (CBYD)	19	233

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	12	12	*****	N/A
Grinder Replacements	4	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.	10	12	10	10	10	10
Service Failures	0	0	0	0	0	0
Number Callouts	0	1	0	0	0	0
Maintenance & Repair	1	4	1	1	1	0
Flow (Total MG)	0.125	0.489	1.770	.554	0.573	5.654
(Avg. Daily GPD)	4,170	16,325	59,018	18,491	19,101	188,481

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$5,006.98	\$48,030.41	\$6,969.59
Capital Repair and Replacement	\$95,000	\$7,558.90	\$101,499.17	\$-6,499.17

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	
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	.684	632	631	September 2011	
April 2011	.476	741	646	October 2011	
May 2011				November 2011	
June 2011				December 2011	
Monthly Average	0.446	755	668	Calendar Year to Date Average	27
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	-5.2	Deviation % (+/-)	42

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 no 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.
- Inspect fire extinguishers at the water treatment plant.
- 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.
- Newtown I.T. Department working with Charter cable on storage tanks connecting streaming video surveillance system.

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	4	24
Corrective Maintenance	0	24
Emergency Maintenance	1	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)	1	23

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,755.91	\$12,404.50	\$3,095.50
Capital Repair and Replacement	\$20,000.00	\$5,650.28	\$19,187.74	\$812.26

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			0	
June 2011			0	
Monthly Average	976,100	4,095,620	0	5,071,720
Daily Average	27,666	119,147	0	146,813