



MONTHLY OPERATING REPORT October 2009

TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of October the plant process performed well. Octobers' nitrogen removal averaged greater than 92%. We are presently averaging 17 lbs per day, which is approximately 2 lbs below our 19 lbs per day limit. The influent flow meter and transducer calibration was checked and certified. Simplex-Grinnell completed a five year required flow test for the plant hydrants. Below are some of the highlighted major operation and maintenance items that are currently in progress or completed.

OPERATION & MAINTENANCE

- Greased # 1 turbine mixer motor.
- Inspect and greased # 1 RAS pump.
- Plant fire and safety inspection.
- Performed preventive maintenance work on ultraviolet unit # 1 (replace bulbs).
- Oxidation ditch mixer gearbox was greased.
- RAS swing pump was greased and belts inspected.
- Clean brush around the plant fence line.
- RAS pump # 1 checked belt and greased.
- Ray Mechanical installed rebuilt circulation pump in the Administration Building.
- Repaired fire alarm pull station at the Headworks building.
- Repaired fire audio / visual device in the garage.
- Greased all three of the sand filters.
- October 15th checked calibration on the plant influent flow meter.

PUMP STATIONS

- Replaced both capacitor bank starters at the Taunton Lake Pump Station.
- Replaced a grinder pump at Pitney Bowes on October 27th.
- Removed sand and grit out of the Fairfield Hill flume.
- October 15th checked calibration of the flow meter at the Fairfield Hills flume.
- Repaired a communication problem at the Hawleyville Pump Station.
- Bungalow terrace septic system was inspected on October 23rd.

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 no limits were exceeded.

SOLIDS HANDLING

Type	Gallons This Month	Target	Gallons This Year	Target
Sludge (SYNAGRO)	32,500	40,625 gal/mo 2 loads/wk	0.1295 MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	32,500	4.85	6.47	5.84	15,824

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	0	0
Plant	4	8
Odor	0	0
Grinder Systems	3	3

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	33	114
Corrective Maintenance	14	50
Emergency Maintenance	0	0
Call-Before-You-Dig (CBYD)	19	101

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	0	0	*****	N/A
Grinder Replacements	0	0	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.	8	8	8	8	8	8
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	0	0	0
Maintenance & Repair	0	0	0	1	1	1
Flow (Total MG)	0.129	0.386	1.619	0.487	0.485	4.292
(Avg. Daily GPD)	4,814	12,467	52,253	15,713	15,673	138,457

FINANCIAL STATUS - MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$4,926.55	\$13,508.17	\$41,491.83
Capital Repair and Replacement	\$95,000	\$11,592.28	\$24,750.15	\$70,249.85

FLOW AND LOADS TRACKING

Month/Yr	Influent Flow, MGD	Influent BOD, lbs	Influent TSS, lbs	Average N, Lbs
July 2009	0.368	692	513	13
August 2009	0.397	741	732	11
September 2009	0.353	654	630	8
October 2009	0.381	725	525	11
November 2009				
December 2009				
January 2010				
February 2010				
March 2010				
April 2010				
May 2010				
June 2010				
Monthly Average	0.375	703	600	11
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	NPDES Permit Limit = 19 Lbs/day
Deviation % (+/-)	-29	-30	-15	-42

FAIRFIELD HILLS WTF

EXECUTIVE SUMMARY

The staff continues to improve equipment and standard operating methods to prevent Fairfield Hills WTP failures. Well # 3 has been redeveloped and is back as the lead pump at 100 gallons per minute. S.B. Church representative Jim Duncan, Fred, Lou, Donna, and I met at the proposed well site off of Oakview Rd. A time and material proposal has been received. The 2009 backflow test and survey has been completed, all of the Fairfield Hills water distribution devices passed inspection. In order to maintain the water quality select areas are on a bi-weekly flushing schedule. Listed below are some of the highlighted major operation and maintenance items that are currently in progress or have been completed.

OPERATION & MAINTENANCE

- Flushed the following lines of the Youth Sports Complex and the Bridgeport House.
- Flushed hydrants on Mile Hill South.
- Youth Sports Complex water color has improved.
- Flushed supply line in front of the Reed School Building.

- Flushed lines at 8 Mile Hill South and at the Horse Guard facility.
- Well # 3 was treated (Unicid) to free up the accumulated iron biology. The well pump was checked and it checked-out fine. The well pump discharge pipe and check valve were replaced. The well was flushed for a few days and then tested for bacteria before being placed back in service.

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 of October.

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Plant	0	0
Well Houses	0	0
Reservoirs (Storage)	0	0
Customer Service Issues	0	0
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	7	40
Corrective Maintenance	5	19
Emergency Maintenance	0	0

FIELD OPERATIONS

Other	Monthly Qty	Total for Year
Valve Inspections	0	9
Hydrant Inspections	0	14
Service Inspections	0	1
Call-Before-You-Dig (CBYD)	3	9

FINANCIAL STATUS - MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,866.23	\$5,298.20	\$10,201.80
Capital Repair and Replacement	\$20,000.00	\$115.00	\$10,253.76	\$9,746.24

FLOW TRACKING

Month/Yr	Well No. 3 Gallons	Well No. 7 Gallons	Well No. 8 Gallons	Plant Production Gallons
July 2009	1,174,000	3,842,000	0	5,016,000
August 2009	857,000	4,340,400	0	5,197,400
September 2009	597,000	4,188,300	0	4,785,300
October 2009	1,919,000	4,308,400	0	6,227,400
November 2009				
December 2009				
January 2010				
February 2010				
March 2010				
April 2010				
May 2010				
June 2010				
Monthly Average	1,136,750	4,169,775	0	5,306,525
Daily Average	61,903	138,980	0	200,883