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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 a special meeting on March 21, 2013 at the Waste Water Treatment Plant, 24 Commerce Road, Newtown, CT. Chairman Zang called the meeting to order at 7:59pm.

Present: Dick Zang, Lou Carbone, George Hill, Marianne Brown, Gene Vetrano, Carl Zencey

Absent: Alan Shepard

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

Public Participation - None

Approval of Minutes – The previously distributed minutes of the regular meeting of 1/10/13 and 2/14/13 were unanimously approved.

OLD BUSINESS

Capital Needs Study – Dick Zang and Julio Segarra have gathered information and continue working on it.

Renewable Energy Project-grant payment – The monitoring of the system has just been complete which was needed for the next grant payment.

Set the Sewer Benefit Assessment at \$233,200 for 95-99 Church Hill Road - Tabled

Extend the Central Sewer District to include 20 and 60 Castle Hill Road - Tabled

Set the Sewer Benefit Assessment at \$180,000 for 164 Mt. Pleasant – Tabled

NEW BUSINESS

2 Hall Lane – Request for adjustment of sewer use bill due to irrigation leak - Tabled

Committee Reports: SCADA, solar, I&I, Finance, regulations, water supply, collection and distribution systems – **SCADA**, All the backup flow panels are completed. The fiber optics with the extra cables

have been ordered and installation is scheduled for Monday. They went to all the pump station and provided a list of items that would require a change order. Julio Segarra is vetting this list.

Report by United Water Environmental Services Inc. – A copy of the February 2013 Monthly Operating Report is attached.

Report by Public Works Director – covered items within meeting.

Having no further business, meeting was adjourned at 8:55pm

Arlene Miles, Clerk



MONTHLY OPERATING REPORT
February 2013
TOWN OF NEWTOWN WPCF

EXECUTIVE SUMMARY

During the month of February the plant process performed well. Nitrogen average pound per day during the month was 17.9 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 Taunton area was jetted approximately 6800 feet with no issues. The area showed no build-up of debris or infiltration.

The plan will be to inspect during heavy rains and snow thaw in the month or two for signs of inflow.

National Water Main has been hired to TV and jet the Taunton lake pump station Gravity system.

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 complete and ready for installation.
- The 12 pair fiber optics cable has been ordered and installation scheduled for March 25th.

SOLAR

- All the damaged components have been repaired and the panel are operating at approximately 60k output (according to Executive electric)
- 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.
- All pump station flow meters and recorders were check for calibration.
- All pumps were inspected and serviced by Cummins service technicians.

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	0.226MG	0.488 MG 75 loads/yr

ANALYSIS OF WASTED SLUDGE

Waste Activated Sludge	Total Gallons	Min %	Max %	Average %	Total Pounds
SYNAGRO	26,000	4.88	4.96	4.91	10,647

EMERGENCY CALL-OUTS

Type	Total This Month	Total for Year
Sewer Backup	0	0
Pump Station	0	8
Plant	0	8
Odor	0	1
Grinder Systems	2	12

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	17	250
Corrective Maintenance	10	153
Emergency Maintenance	0	1
Call-Before-You-Dig (CBYD)	13	229

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	46	*****	N/A
Grinder Replacements	2	16	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.	9	9	9	9	10	9
Service Failures	0	0	0	0	0	0
Number Callouts	0	0	0	0	0	0
Maintenance & Repair	1	1	1	1	2	0
Flow (Total MG)	.119	.402	1.575	.616	.346	4.649
(Avg. Daily GPD)	4,252	14,362	56,285	22,031	12,389	166,036

FINANCIAL STATUS – MAINTENANCE

Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$55,000	\$5,220.06	\$28,475.47	\$26,524.53
Capital Repair and Replacement	\$95,000	\$34,717.35	\$79,784.94	\$15,215.06

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	
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				September 2013	
April 2013				October 2013	
May 2013				November 2013	
June 2013				December 2013	
Monthly Average	.413	775	639	Calendar Year to Date Average	19.75

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 % (+/-)	-22	.22	-.09	Deviation % (+/-)	-0.94

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 February.

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

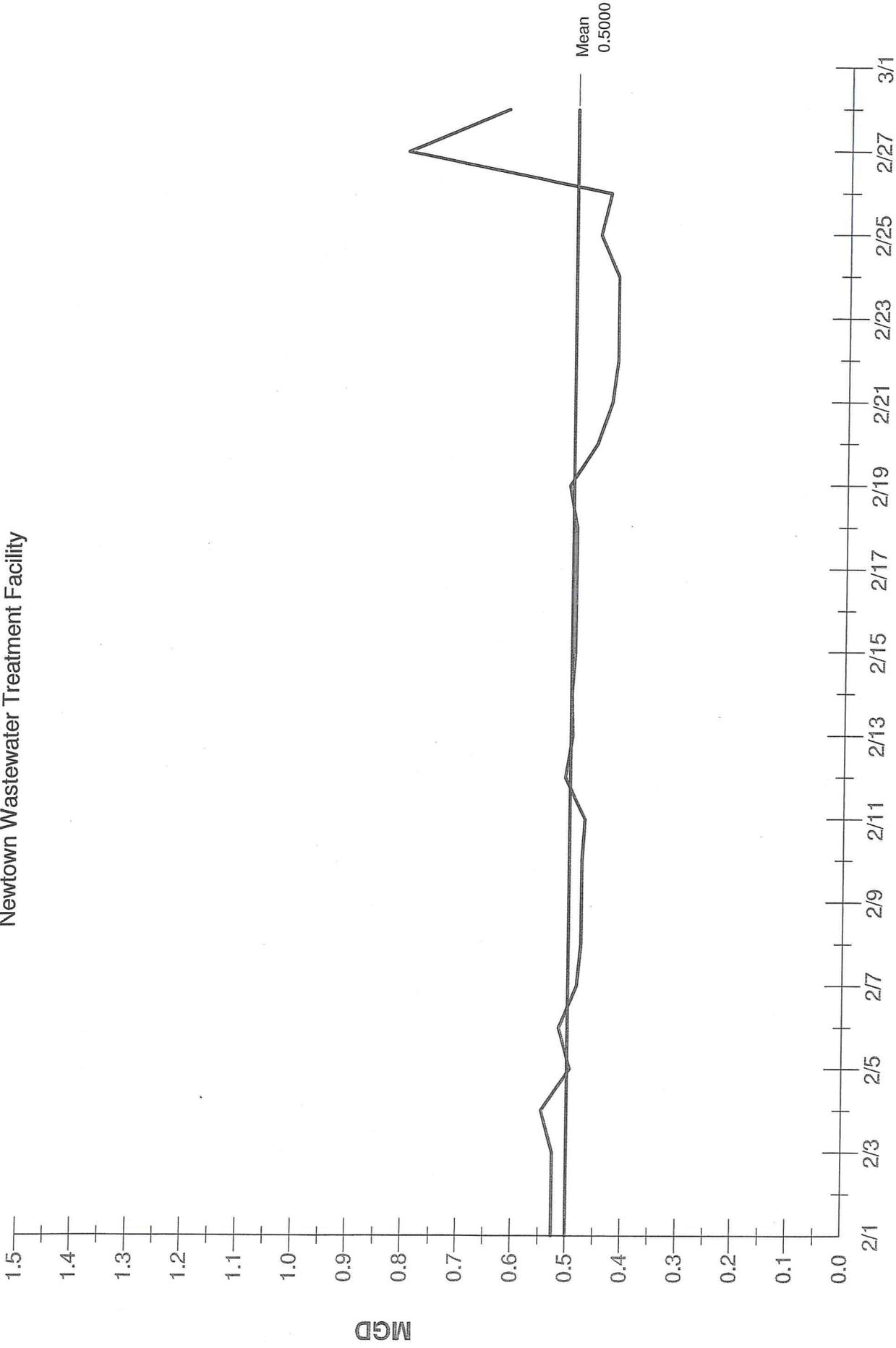
Item	Budget \$	\$ Spent/Mo	\$ Spent/Yr	\$ Remaining
Preventative and Predictive	\$15,500.00	\$1,236.30	\$7,445.63	\$8,054.37
Capital Repair and Replacement	\$20,000.00	\$2,174.25	\$24,567.33	-\$4,567.33

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			0	
April 2013			0	
May 2013			0	
June 2013			0	
Monthly Average	640,500	4,568,763	0	5,209,263
Daily Average	21,821	132,939	0	154,760

Influent Flow

Newtown Wastewater Treatment Facility



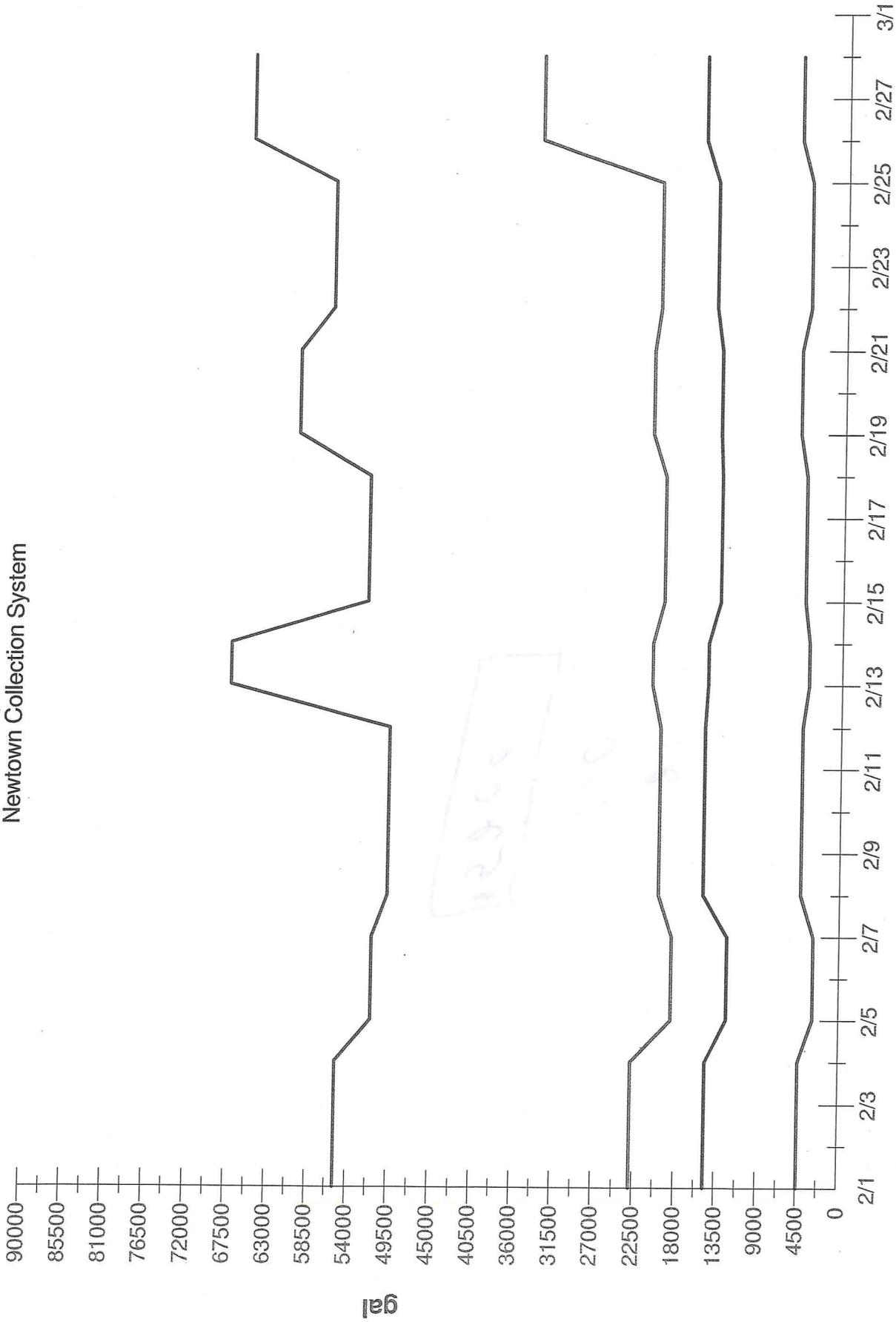
Date (2/1/2013 to 2/28/2013)

/ Influent Flow Total / Influent Flow Total

WIMS (CT NEWTOWN WWTP (NEWTOWN, CT))
Influent Flow

Pump Station Flow Data

Newtown Collection System



Date (2/1/2013 to 2/28/2013)

/ Sandy Hook PS Flow
Baldwin PS Flow
Hanover PS Flow
Taunton Lake PS Flow