



**Borough of Naugatuck
Water Pollution Control Facility
Monthly Operating Report
June 2013**



July 10, 2013

Ronald Merancy, Chairman
Water Pollution Control Authority
Borough of Naugatuck
229 Church Street
Naugatuck, CT 06770

Re: June 2013 Monthly Operating Report

Dear Mr. Merancy:

Enclosed please find Veolia Water's Monthly Operating Report for the month of June 2013.

Please contact me at the address below if you have any questions about this report.

Sincerely,
Veolia Water North America – Northeast, LLC

A handwritten signature in black ink that reads 'John Batorski'.

John Batorski
Plant Manager
Veolia Water Naugatuck

cc: WPCA members: Rimas Balsys, Catherine Aresta, Pat Mallane, James R. Stewart PE, LS, Director of Public Works, Borough of Naugatuck, Kathleen Luvisi, Senior Environmental Engineer, Alternative Resources, Inc.

(enclosure)

Table of Contents

1. Collection Report.....P.1-8
2. June 2013 NPDES Reports.....P.9-26
3. Monthly Ave.Flows..... P.27
4. Min/Max/Total Flow Data..... P.28
5. Total feet of sewer cleaned.....P.29
6. Naugatuck Fire Dept Handout 2013.....P.30-34
7. Water & Waste Digest.....P.35-37
8. Odor Complaint.....P.38

Borough of Naugatuck
Monthly WPCF Report June 2013
Page 1 of 3

This report summarizes the activities at the Borough POTW for June 2013:

1. Highlights and Significant Issues: Please refer to the report.

2. Collection System Update:

Please see attached Collections Report.

3. Plant Performance Summary:

Please see the attached reports and graphs for additional performance details.

Plant Process Data	Limit	Actual		
Total Suspended Solids (mg/l)				
Influent Avg.	-	187		
Effluent Avg.	30	5		
Removal Efficiency	85%	97%		
Plant Process Data*	Limit	Actual		
Carbonaceous BOD				
Influent Avg.	-	96		
Effluent Avg.	30	4		
Removal Efficiency	85%	97%		
	Naugatuck	Middlebury	Oxford	OTR
June Flow Avg. (MGD)	7.0	0.999	*	N/A
Sludge Liquid Total (MGal)				3338.0
Sludge Cake Total (Wet Tons)				5900.01
Septage Total (MGal)	50,275	67,000	165,950	687,000
Discharge Permit Exceedance: None				

* *Unavailable at time of report.*

Safety Incidents and Odor Complaints

	Month	YTD
Recordable Accidents	0	1
Lost Time Accidents	0	1
Odor Complaints	1	8
Unconfirmed Odor Complaints	0	1

1. Compliance & Regulatory Issues

- a. There was one recorded Odor Complaints for June 2013.
- b. Lou Santos, CTDEEP Air Inspector visited the plant on June 18, 2013 to inspect the WESP repairs. As a result of his visit, he stated he would recommend closing the NOV for the WESP. During his visit he stated he was downwind of the facility for approximately 1 ½ hours and did not detect any odors. He also stated he observed no odors on site during the WESP inspection.
- c. The annual stack test is being scheduled for late Sept. 2013. CK Environmental will prepare the ITT to CTDEEP.
- d. Kleinfelder and TRC staff spent several days on site during the month evaluating the odor control equipment and incinerator emission equipment.

2. Personnel

- a. No report.

Borough of Naugatuck
Monthly WPCF Report June 2013
Page 2 of 3

3. Health & Safety

- a. Ellen Murray, Deputy Fire Chief of Naugatuck toured the plant on June 18. We have a Power Point presentation for the fire department depicting the locations of all chemicals, fire hydrants, and switchgear. During July the entire department will tour the facility on three dates. A copy of the Power Point is attached for reference.

4. Operational Information

- a. Replacement aeration diffusers are on site and installation is being planned for the month of July.
- b. On June 14, the average daily flow was 14.5 MG. Flows peaked that day to 20.2 MG! Normal average daily flow is 5 MG. There were 4 days that average daily flows exceeded 10 MG. Monthly average flow was 7.0 MGD as opposed to historical average flow of 5.0 MGD. The abnormal flows were the result of heavy rainfall and increased the lbs. /day of nitrogen.

5. Collections

- a. The Inwood Avenue pump station control panel required replacement. The replacement panel was ordered at approximately \$14,000.
- b. The original Plattsmill pump station control panel requires replacement. We are requesting quotes to replace that panel.
- c. The annual cost to jet the sewers has been calculated and will be reported in the annual report. The contract year average hourly wage for the collections employees, multiplied by a conservative 1.5 benefit rider, multiplied by 8 hours per day, provides the daily cost for those two employees. The vac truck annual maintenance and fuel costs for the contract year are divided by 12 to provide an average monthly cost. The collection system personnel average daily cost is multiplied by the number of days the vac truck was used in each month. That total cost (labor and vac truck maintenance and fuel) is divided by the number of feet of sewer that was cleaned in that month. This method of calculating the flushing provides a cost range of approximately \$0.71 to \$0.90/foot range over the last 4 years. Since the crew frequently uses the CCTV camera when jetting, this cost would include the camera services as well. The CCTV cost could be added as a separate line which would increase the overall cost. In addition, overtime is also not shown in the average flushing cost. The total cost average flushing /CCTV over the last 4 years averages approximately \$113,000 per year.

6. Maintenance

- a. Spirac VC4 (Vertical Conveyor) broke on May 30. VC1 broke on June 5, 2013. Critical Spirac spares were ordered at a cost of \$37,143.
- b. Spare impellers and a seal kit was ordered (fits either new ABS pump) for the new raw sewage pumps as critical spares for \$5,807.
- c. Aeration tank 3B internal recycle pump failed on June 16, 2013 and the spare pump installed. Repair costs were unavailable at the time of the report.
- d. The expansion joints for the aeration tank air headers are starting to deteriorate. Replacement expansion joints are expected to cost approximately \$4000 and were ordered.
- e. One primary tank remains out of service for repairs. We anticipate the tank repairs to be complete the week of July 12, 2013. The tank required a complete rebuild (chain, flights, wear shoes, support brackets, and wear strips).

Borough of Naugatuck
Monthly WPCF Report June 2013
Page 3 of 3

f. Critical spare Abel parts (sludge feed pumps) have been ordered at a cost of \$25,900.

g. The north J Spin was sent to Centrysis for evaluation. This centrifuge has not had repairs since 2007. Repair costs are \$66,000 and a PO was issued for repairs.

h. On June 17 the main electrical breaker for the incinerator opened. We could not find a reason why it opened. That event triggered a series of problems when the breaker was reset.

- i. The CEM sample pump UPS failed and was replaced.
- ii. The CEM sample pump itself failed. When the sample pump was changed, there was moisture in the sample line.
- iii. The CEM CO analyzer failed and was replaced by CK Environmental.
- iv. The incinerator purge air blower tripped out.
- v. On Wednesday, June 19 the sludge feed port to the incinerator failed. All new sludge feed ports were installed (~\$13,000). Upon restart, there were numerous issues with the fluidizing air blower. The PLC was faulted out. A control fuse for the FAB I/O module was blown, timing relay failed, another 110v pilot relay also failed. In addition, the soft start was changed (it also had a fault).
- vi. The actuator for the hot oil temperature control valves failed on June 20, 2013.
- vii. The PLC processor board for the North Abel failed and was replaced.
- viii. The VFD for the air compressor cooling fan failed on Monday June 24. Repairs are scheduled.

6. Capital Projects

a. The Pillar turbo aeration blowers arrived July 5, 2013. The week of August 12, 2013 has been scheduled by Pillar to have their controls expert on site. Their person, from Bosnia will work with our SCADA person to make certain the new blowers operate as designed. Installation for the piping, conduits and new breaker has started.

**Borough of Naugatuck
Collections Systems Report
Jun-13**

Calls for Service:	This Month	Contract
	4	Year to Date
		23

- 1 66 Olive Street
- 2 61 Olive Street
- 3 147 Morning Mist Road
- 4 49 Deering Lane

Calls Caused By Collection System:

- | | | |
|---|----------------------|--|
| 1 | 61 Olive Street | Reason |
| | Line Flushing (feet) | When flushing line for call to 66, water came up from toilets. |

Date	This Month	Year to Date	Feet
	13980	141715	Feet

Date	Address	Reason	This Month	Year to Date	Feet
4	Nicholes Road		400		
			325		
			300		
5	Olive Street	Call in	300		
9	Morning Mist Road	Call in	360		
			200		
11	Irving Street		290		
			310		
			625		
12	Lynn Circle		140		
	Deering Lane		360		
			120		
	Phyllis Drive		285		
			230		
			250		
			200		
			185		
13	Deering Lane	Call in	175		
17	Bridal Trail Drive		375		
			105		
			200		
			275		
	Stoneybrook Road		175		
			190		
			210		
19	Partridgetown Road		325		
			245		
20	Fairfield Court		200		
			225		
	King Street		410		
			275		
			235		
			135		
25	Crown Street	6 Month	190		
		6 Month	285		
26	Allen Street		185		
			225		
			185		
			575		
			385		
	Heritage Drive		400		
	Ash Street		245		
			665		
28	Brennan Street	6 Month	480		
	Cherry Street	6 Month	365		
	High Street	6 Month	275		
	Porter Ave	6 Month	160		
	Spring Street	6 Month	500		
		6 Month	225		

			Year to Date
1	Root Treatment (chemical or simply use of root cutter)	0	5715
1	None this month		

Line TV (feet)			
		This Month	Year to Date
		200	1850
1	Olive Street	200	
2	Morning Mist Road	400	

- Pump Station Cleanings:**
- 6/5/2013 Landscaping at Maple & May
 - 6/17/2013 Cleaned float at Platts Mill due to low level alarm
 - 6/18/2013 Landscaping work at Inwood, Horton Hill, and Platts Mill
 - 6/19/2013 Landscape work at Hop Brook and Platts Mill
 - 6/24/2013 Vacced and cleaned tank at Inwood. Landscaping at Maple & May

- Pump Station Inspections:**
- 6/3/2013 Checked all 5 stations because of heavy rain
 - 6/7/2013 Checked all 5 stations
 - 6/14/2013 Checked all 5 stations
 - 6/21/2013 Checked all 5 stations
 - 6/27/2013 Checked all 5 stations

Vac Truck Information			
Days Out In Use			
Contract		This Month	Remaining
150		13	-7
			YTD
			157

Fuel Information	Fuel Cost	Fuel Used		
	\$228.00	54.3	Gal	Total Year to Date Gallons
	\$123.00	123.0	Gal	1213.8 Gal
			Gal	Total Year to Fuel Date Cost
This Months Total	\$351.00	177.3	Gallons	\$6,137.00

vac truck	Mileage	YTD	Engine Hours	YTD
	Month Start	164404.4	Month Start	4385.9
	Month End	165117.3	Month End	4432.5
	Total	712.9	Total	46.6

Utility Truck	Fuel Cost	Fuel Used		Total Year to Date
Fuel Information	\$110.00	26.836	Gal	Year Date Gallons
	\$120.00	28.578	Gal	532.022
			Gal	
	\$230.00	55.414	Gallons	Year to Date Fuel Cost
				\$2,319.14

- 6/1/2013 Called in to repair header on aeration blower because no maintenance personel could be contacted. Cleaned vac truck in preperation for Duck Day.
- 6/2/2012 Dack Day event
- 6/3/2013 Finished May monthly report. Ordered parts from Family Ford.
- 6/4/2013 Picked up parts at Family Ford.
- 6/5/2013 Went to buy new weed wacker head and repaired it.
- 6/6/2013 Weed wacked about half of lagoon hil. Fixed May report. Printed and went over past few years reports with RS for the work orders that were open for collections.
- 6/7/2013 Picked up paint supplies for plant.
- 6/10/2013 Vacced Primary Clairfier skimmings. Marked laterals on Morning Mist Road where we were doing CCTV work.
- 6/11/2013 Helped Sibby's Automotive figure out if storm drain was leaking into their shop.
- 6/13/2013 Tried to vac out drains by polymer pumps that were plugged.
- 6/17/2013 1 load of Primary Clairfier skimmings vacced from tank.
- 6/18/2013 Purchased new lawn mower and weed wacker for landscaping.
- 6/19/2013 Vacced and cleaned Primary Clairfier tank sump.
- 6/26/2013 Repaired strap that holds reel on vac truck up.
- 6/27/2013 Typed Jun monthly report. Made new binder for next fiscal year that we put our records in.

Six Month Cleaning List

January to June

Year

Street or Location	Distance in feet	Manhole Numbers	House Number	Officer Needed	Comments	Date Cleaned
Rear entrance	N/A	Stormwater Tank	N/A	No		Incomplete
Allerton Rd	400	6-73 to 6-74	55	No		4/10/2013
Alma St	450	7-221 to 7-221A	22	No		4/1/2013
Auburn St	400	10-163 to 10-164				4/1/2013
Baldwin St	345	10-167 to 10-170		No		3/29/2013
Bingham St	315	7-232 to 7-234	45	No		4/1/2013
Beacon Valley Rd	560	14-91 to 14-95	N/A	No	Inside drop down gets greased up	3/22/2013
Bowman Dr	300	16-14 to 16-55	7	No	Siphon	3/20/2013
Brennan St	480	7-42 to 7-51	24	Yes	New Moon Restaurant	6/28/2013
Brookside Ave	300/410	9-131 to 9-133	90-110	No		4/18/2013
Casper Ct	510	6-126A to 6-127		No		4/3/2013
Central Ave	195	10-240 to 10-244	School	No	Jet when school out	5/16/2013
Charles Ct	445	12-19 to 12-21	27-57	No		4/9/2013
Charles St	110	12-19 to 12-25		No		4/9/2013
Charles St	125	12-3 to 12-19	15	No		4/9/2013
Cherry St	365	9-73 to 12-19	265	No		6/28/2013
Cherry St	250	12-2A to 12-3	630	No		5/29/2013
Chestnut St	300	6-285 to 6-290		No	Easment	5/15/2013
Church St	350	9-2 to 9-211D		No		5/31/2013
City Hill School	250	7-206 to 7-207A	School	No	Careful not to get stuck when pipe reduces	5/20/2013
Coen St	410	10-180 to 7-245		No		5/15/2013
Crown Street	440	?		Yes	Mike's Service	6/25/2013
Damson Ln	765	6-240 to 6-253	43	No		4/8/2013
David St	800	3-126 to 3-127		No		5/16/2013
Diamond St	200	7-41 to 7-52	14	Yes	From intersection	6/28/2013
Elm St	380	10-209 to 10-211	N/A	No	Under bridge by Linwebber Bros.	5/8/2013
Elm St	75	9-31A to 9-31B	N/A	No	Off side of bridge on Advance Auto side. Siphon	4/18/2013
Endogen St	400	7-254 to 7-256		No		3/27/2013
Fern St	480	6-294 to 6-296	25	No		5/14/2013

General Patton Dr	550	13-102 to 13-149	159	No	Grease buildup	4/8/2013
George St	325	9-195 to 9-196		No		4/10/2013
Golden Hill St	375	7-265 to 7-274	69-71	No		3/27/2013
Gorman St	635	9-54 to 9-57		No	Low pressure. House gets water.	4/15/2013
Gorman St	730	9-75 to 9-76A		No	Corner Garage	4/16/2013
Harlow Ct	335	5-111 to 5-113		No	Need to get jetter around bend in yard	4/11/2013
High St	620	10-150 to ?	265	Yes		4/23/2013
High St	275	10-137 A to 10-139	29	No	To New Haven Rd	6/28/2013
Homestead Ave	215	10-34 to 10-380		No		4/3/2013
John St	550	7-221 to 7-222A	105	No		4/1/2013
Lewis St	185	9-38 to 9-39		No	Nixon to Manners	4/16/2013
Locust St	285	7-128 to 7-129		No	Outside drop down	3/26/2013
Manners Ave	695	9-39 to 9-82A	185	No		3/19/2013
May Ave	220	6-291 to 6-299		No	Chestnut to New	5/15/2013
May St	250	10-159 to 10-161	69-85	Yes	Flow is very high, no issued past year. Clean.	Removed
Melbourne St	550	9-126 to 9-127		No	Easment	5/7/2013
Millville Ave	225	6-115 to 6-167	294	Yes		5/29/2013
Moonlight Cr	370	11-79 to ?	58	No	Rags build up in manhole.	3/12/2013
Moonlight Cr	400	?	58	No	Line is where Inwood discharges	3/12/2013
Morning Mist Rd	350	11-75 to ?	195	No	Low point in line.	3/12/2013
Mulberry St	300	11-2 to 11-3		No		4/23/2013
New Haven Rd	300	13-34 to 13-35	868	Yes	Warren Ave intersection	Incomplete
Nixon Ave	535	9-38 to 9-77		No	Nixon and Lewis	4/16/2013
North Main St	260	?	?	Yes	Gets cut off my RT68 line. Grease.	5/29/2013
North Main St	420	7-87 to 7-260	465	Yes	Also HVC Golden Court 140ft. Abandon line.	5/29/2013
North Main St	725	7-70A to 7-286		Yes	Curtiss to Linden	5/20/2013
North Main St	580	7-286 to 7-289		Yes	Linden to Griffin	5/29/2013
Park Ave	500	6-271 to 6-272	267-307	No		5/15/2013
Phoenix Ave	400		56-111	No		5/15/2013
Pleasant Ave	440	12-13 to 12-14		No		4/9/2013
Porter Ave	160	3-10 to 2-30		Yes	Spring St/ Porter Ave intersection	6/28/2013
Prospect St	345	7-99 to 7-140		No	Need to push jetter into the siphon	3/27/2013
Quinn St	525	6-171 to 6-171A	31	No		5/14/2013

Quinn St	620	6-236 to 6-238	205	No		5/15/2013
Quinn St	305	6-293 to ?	143	No	To the corner	5/15/2013
Rockwell Ave	620	7-24 to 7-33	18	No	Cleanout in backyard. Use driveway. Easment.	5/21/2013
Sharon Ave	350	12-11 to dead end		No	Setup in park's parking lot.	4/9/2013
Sheffield Ln	320	7-137 to 7-138	31	No		3/26/2013
South Cr	450	9-136 to 9-130A		No	From Melbourne in back yard. Easment.	5/7/2013
Southview St	300	9-193A to 9-193C		No		4/10/2013
Spencer St	400	12-17 to 12-4	44	No		4/11/2013
Spencer St	260	9-222 to 9-223	200	No	To Irving St	4/11/2013
Spencer St	550	9-221 to 9-222	135	No		4/11/2013
Spring St	225	2-14 to 2-14A		Yes	End of line. Apartments enter here.	6/28/2013
Spring St	500	7-16 to 7-41	63-88	Yes	Bridge St./Spring St. intersection	6/28/2013
Stanley St	230	7-266 to 7-271	26	Yes		3/27/2013
Stonybrook Rd	335	2-64 to 2-72		No	Siphons	4/3/2013
Sweeney St	190	6-179 to ?	90	No	Old line that goes up driveway	6/6/2013
Tawny Trush Rd	600	14-47 to 14-49		No	Pump station dumps here	3/20/2013
Terrace Ave	550	6-334A to 6-334	9	No	Jet when school out	5/20/2013
Trowbridge Pl	385	9-181 to 9-182	101-116	No		4/10/2013
Ward St	300	10-213B to 10-214	100-131	No		5/7/2013
Ward St	575	10-214 to 12-17	160-175	No		5/7/2013
Woodcrest Cr	240	10-76 to 10-77		No		4/16/2013
Woodland St	300	10-130 to 10-131	51-59	No		3/5/2013

Locality Cleaning done by:

INCOMPLETED

UPDATED INFO

REMOVED FROM 6 MONTH LIST

Colt Szczygiel and Mike Forish VVWNA



Sent via certified mail #7007 2820 0002 4213 4682

Municipal Wastewater Monitoring Coordinator
Connecticut Department of Environmental Protection
Bureau of Water Management
79 Elm Street
Hartford, CT 06106-5127

July 10, 2013

Re: June 2013 Reports for Naugatuck, CT WPCF, NPDES # CT0100641

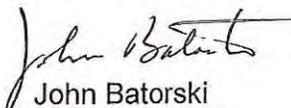
Dear Sir/Madam:

Enclosed please find the *Monthly Operating Report, Monthly Total Phosphorus, Seasonal Total Phosphorus and Nutrients Analysis Report* for the month for June 2013. The *Nutrients Analysis Report for Compliance with General Permit for Nitrogen Discharges and Discharge Monitoring Report* was submitted electronically. There were no exceptions to the reports.

Also enclosed is a summary of sludge sources received at this facility during the month of June 2013.

Please contact me if you have any questions regarding the enclosed revised report.

Sincerely,
Veolia Water North America – Northeast, LLC


John Batorski
Plant Manager

cc: James R. Stewart PE, LS, Director of Public Works, Borough of Naugatuck
(Enclosure)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Authorized Official: John Batorski

Title: Plant Manager

Signature: *John Batorski*

Date: 7-8-13

Units Freq	Chlorine Dose		Chlorine Residual		Fecal Coliform #/100 ml	Ammonia		Nitrate		Nitrite		TKN		D.O.	pH		Ortho P	Phosphorus		Temp.		Zinc	Copper	Comments		
	lbs	mg/l	high	low		Inf.	Prim.	Eff.	Inf.	Prim.	Eff.	Inf.	Prim.		Eff.	Inf.		Prim.	Eff.	Inf.	Eff.				Inf.	Eff.
01	41.77	0.96	0.04	0.00																						
02	55.60	1.39	0.04	0.00																						
03	59.20	1.37	0.05	0.02				1.67	3.5	0.240	0.0	<0.01	37.6	27.9	1.73	7.5	7.4	6.8	6.3	4.3	7.0	65	82	0.99	0.10	
04	56.31	1.30	0.03	0.01	20			4.2				<0.01			2.28	7.3	7.4	7.0	6.6	6.7	64	79				
05	54.21	1.30	0.04	0.00	30			1.62	<0.01	3.5	0.340	0.0	<0.01	35.5	33.1	2.19	7.9	7.3	6.9		67	79				
06	55.90	1.37	0.03	0.00	30											6.8	7.3	6.8			66	81				
07	57.39	1.08	0.04	0.00												7.7	7.1	6.9			65	80				
08	63.38	0.76	0.04	0.00																						
09	54.44	0.95	0.03	0.00																						
10	59.72	0.91	0.04	0.00												1.67	7.9	7.2	6.9	5.7		65	76	1.53	0.15	
11	70.76	0.94	0.04	0.00	40							<0.01			1.58	7.8	7.2	6.8	6.0		64	76				
12	71.81	1.16	0.04	0.00	40							<0.01			1.59	7.8	7.1	6.9			65	74				
13	67.20	1.03	0.05	0.00	20											7.7	7.2	6.9			68	74				
14	67.66	0.72	0.04	0.00												6.8	7.1	6.8			64	71				
15	64.77	0.63	0.03	0.00																						
16	57.23	0.67	0.04	0.00																						
17	58.73	0.79	0.05	0.00																						
18	53.44	0.81	0.04	0.01	20							<0.01			1.31	6.8	7.0	6.7	3.1		3.4	65	71	1.82	0.17	
19	51.89	0.84	0.03	0.00	40							<0.01			1.54	6.8	7.0	6.8	3.1		3.3	64	71			
20	48.80	0.89	0.04	0.00	50							<0.01			1.49	7.2	7.5	6.9			65	71				
21	48.00	0.91	0.04	0.00												7.5	7.2	7.5			63	70				
22	41.57	0.80	0.05	0.00												7.4	7.3	7.1			66	70				
23	36.47	0.74	0.05	0.00																						
24	49.57	1.12	0.05	0.00																						
25	53.01	1.16	0.05	0.02	<10							0.01			2.08	8.1	7.3	6.7	1.7		2.0	67	80	1.33	0.14	
26	57.60	1.28	0.05	0.00	<10							<0.01			1.92	8.0	7.1	6.8	2.4		2.6	67	80			
27	50.69	1.17	0.05	0.00	60							<0.01			1.88	8.4	7.1	6.7			68	80				
28	61.02	1.35	0.04	0.00												8.6	7.1	6.6			67	81				
29	76.93	1.68	0.03	0.00												7.3	7.1	6.6			67	80				
30	106.25	2.45	0.04	0.00																						
TOT																										
AVG			0.041	0.002	27	11.1	11.9	0.22	1.6	0.0	0.3	0.0	<0.01	36.6	30.5	1.77	7.5	7.2	6.8	4.3	4.3	66	76	1.42	0.14	

Nutrient Analysis Report

Town/Facility: Naugatuck WWTF

Flow Rate:

5.2 MGD

Sampling Date: 06/03/13

Parameter	Raw Influent		Primary Effluent		Final Effluent		Plant Efficiency (%)
	mg/l	lbs/day	mg/l	lbs/day	mg/l	lbs/day	
Ammonia	15.8		13.9		0.3		
Nitrites	0.24		0.03		<0.01		
Nitrates	1.7		0.0		3.5		
TKN	37.6		27.9		1.7		
Total Nitrogen	39.5	1,713	27.9	1,212	5.2	226	87
Orthophosphates	1.6	70			6.3	273	
Total Phosphorus	4.3	186			7.0	301	

Permit # CT0100641

Monthly Total Phosphorus Report

for compliance with NPDES permit

Use this report from April 1st through October 30th

Facility Name: Naugatuck

Permit #: CT0100641

Month of: June, 2013

Sample Date	Flow (mgd)	Effluent Total Phosphorus (mg/l) - Max. Daily Limit - comparison purposes only	X	Total Phosphorus (lbs/d)
06/03/2013	5.2	6.95	8.34	301
06/04/2013	5.2	6.66	8.34	289
06/10/2013	7.9	5.89	8.34	388
06/11/2013	9.0	6.07	8.34	456
06/17/2013	8.9	3.42	8.34	254
06/18/2013	7.9	3.33	8.34	219
06/24/2013	5.3	2.00	8.34	88
06/25/2013	5.5	2.55	8.34	117
			8.34	
			8.34	

Average Monthly Total Phosphorus Limit (mg/l)	Average Monthly Total Phosphorus (mg/l)	Average Seasonal Load Cap (lbs/d)	Average Monthly Total Phosphorus Load (lbs/d)
	4.61		264

Seasonal Total Phosphorus Report

Average from April 1st through October 30th

for compliance with NPDES permit

Submit this report by November 15th

Permit # CT0100641

Month	Average in lbs/d
April	361
May	365
June	264
July	
August	
September	
October	

Average Seasonal Load Cap in lbs/d	Seasonal Average in lbs/d
Load Capacity N/A	330

Septage
 Total Gallons: 10,400
 Total Samples for Chatfield: 13

East Coast Septic
 Forecasted New Intake
 Forecasted Total

Septage
 Total Gallons: 124,000
 Total Samples for East Coast Septic: 31

Grieser Excavating
 Forecasted New Intake
 Forecasted Total

Septage
 Total Gallons: 22,500
 Total Samples for Grieser Excavating: 9

Heritage Village Water
 Forecasted New Intake
 Forecasted Total

Liquid Sludge
 Total Gallons: 19,500
 Total Samples for Heritage Village Water: 3

HI Stone Septic
 Forecasted New Intake
 Forecasted Total

Septage
 Total Gallons: 26,000
 Total Samples for HI Stone Septic: 4

Koseski Septic
 Forecasted New Intake
 Forecasted Total

Septage
 Total Gallons: 140,250
 Total Samples for Koseski Septic: 47

Litchfield
 Forecasted New Intake
 Forecasted Total

Liquid Sludge
 Total Gallons: 58,500
 Total Samples for Litchfield: 9

Lynnwood Place
 Forecasted New Intake
 Forecasted Total

Septage
 Total Gallons: 45,500
 Total Samples for Lynnwood Place: 7

<u>Mahopac Septic</u>		
	Forecasted New Intake	Forecasted Total
Liquid Sludge	0	930,000
Total Gallons: 930,000		
Total Samples for Mahopac Septic: 152		

<u>Moran Environmental</u>		
	Forecasted New Intake	Forecasted Total
Industrial Waste Water	0	400
Total Gallons: 436		
Total Samples for Moran Environmental : 1		

<u>NEO Chicopee</u>		
	Forecasted New Intake	Forecasted Total
Cake Sludge	0	492
Total Tons: 491.73		
Total Samples for NEO Chicopee: 20		

<u>NEO Glen Cove</u>		
	Forecasted New Intake	Forecasted Total
Cake Sludge	0	298
Total Tons: 297.74		
Total Samples for NEO Glen Cove: 12		

<u>NEO Suffolk NY</u>		
	Forecasted New Intake	Forecasted Total
Cake Sludge	0	1,383
Total Tons: 1,383.34		
Total Samples for NEO Suffolk NY: 57		

<u>NEO Westfield MA</u>		
	Forecasted New Intake	Forecasted Total
Cake Sludge	0	493
Total Tons: 493.48		
Total Samples for NEO Westfield MA: 20		

<u>New England Septic</u>		
	Forecasted New Intake	Forecasted Total
Septage	0	123,000
Total Gallons: 123,000		
Total Samples for New England Septic: 41		

<u>New Hartford</u>		
	Forecasted New Intake	Forecasted Total
Liquid Sludge		

Total Gallons: 65,000
 Total Samples for New Hartford : 10

New Rochelle
Cake Sludge
 Total Tons: 1,865.70
 Total Samples for New Rochelle: 82

North Canaan
Liquid Sludge
 Total Gallons: 39,000
 Total Samples for North Canaan: 6

Oxbury Sanitation
Septage
 Total Gallons: 69,000
 Total Samples for Oxbury Sanitation: 23

Pawling
Liquid Sludge
 Total Gallons: 26,000
 Total Samples for Pawling: 4

Plymouth
Liquid Sludge
 Total Gallons: 84,500
 Total Samples for Plymouth: 13

Prospect Sanitation
Septage
 Total Gallons: 45,000
 Total Samples for Prospect Sanitation: 18

Rhinebeck
Cake Sludge
 Total Tons: 12.73
 Total Samples for Rhinebeck: 1

65,000

Forecasted Total

1,866

Forecasted Total

39,000

Forecasted Total

69,000

Forecasted Total

26,000

Forecasted Total

84,500

Forecasted Total

45,000

Forecasted Total

13

Shelton Septic
Septage
 Total Gallons: 10,000
 Total Samples for Shelton Septic: 5

Forecasted New Intake Forecasted Total

0 10,000

Stratford
Liquid Sludge
 Total Gallons: 845,000
 Total Samples for Stratford: 130

Forecasted New Intake Forecasted Total

0 845,000

Superior Sanitation
Septage
 Total Gallons: 23,500
 Total Samples for Superior Sanitation: 15

Forecasted New Intake Forecasted Total

0 23,500

Talarico Septic
Septage
 Total Gallons: 182,000
 Total Samples for Talarico Septic: 54

Forecasted New Intake Forecasted Total

0 182,000

Thomaston
Liquid Sludge
 Total Gallons: 45,500
 Total Samples for Thomaston: 7

Forecasted New Intake Forecasted Total

0 45,500

Torrington
Liquid Sludge
 Total Gallons: 351,000
 Total Samples for Torrington: 54

Forecasted New Intake Forecasted Total

0 351,000

Veolia Bedford Hills
Liquid Sludge
 Total Gallons: 32,500
 Total Samples for Veolia Bedford Hills: 5

Forecasted New Intake Forecasted Total

0 32,500

Veolia Danbury
Cake Sludge
 Total Tons: 666.57

Forecasted New Intake Forecasted Total

0 667

Total Samples for Veolia Danbury: 29

<u>Veolia IBM Southbury</u>	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 6,500	0	6,500
Total Samples for Veolia IBM Southbury: 1		

<u>Veolia North Haven</u>	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 130,000	0	130,000
Total Samples for Veolia North Haven: 20		

<u>Veolia Pepsi</u>	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 13,000	0	13,000
Total Samples for Veolia Pepsi: 2		

<u>Veolia Poughkeepsie</u>	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 377,000	0	377,000
Total Samples for Veolia Poughkeepsie: 58		

<u>Veolia Redding</u>	Forecasted New Intake	Forecasted Total
Liquid Sludge		
Total Gallons: 39,000	0	39,000
Total Samples for Veolia Redding: 6		

<u>Veolia Seymour</u>	Forecasted New Intake	Forecasted Total
Cake Sludge		
Total Tons: 119.24	0	119
Total Samples for Veolia Seymour: 13		

<u>VES Ahlstrom Latex</u>	Forecasted New Intake	Forecasted Total
Industrial Waste Water		
Total Gallons: 19,500	0	19,500
Total Samples for VES Ahlstrom Latex : 3		

VES Americas Styrenics
Industrial Waste Water

Total Gallons: 12,300	Forecasted New Intake	Forecasted Total
	0	12,300
Total Samples for VES Americas Styrenics : 2		

Vogler

<u>Liquid Sludge</u>	Forecasted New Intake	Forecasted Total
Total Gallons: 19,500	0	19,500
Total Samples for Vogler: 3		

Watertown Septic

<u>Septage</u>	Forecasted New Intake	Forecasted Total
Total Gallons: 3,000	0	3,000
Total Samples for Watertown Septic: 1		

Windham

<u>Liquid Sludge</u>	Forecasted New Intake	Forecasted Total
Total Gallons: 299,000	0	299,000
Total Samples for Windham: 46		

Total Gallons for all Customers 6/1/2013 - 6/30/2013: 4,853,486
 Total Tons for all Customers 6/1/2013 - 6/30/2013: 5,900.01
 Total Samples for all Customers 6/1/2013 - 6/30/2013: 1240

Req. Value NODI	Sample Permit Req. Value NODI	1 - Effluent Gross	0	400 7 DA GEO	13 - #/100ML	1230 - Twelve Per Month	GR - GRAB
74055 Coliform, fecal general	1 - Effluent Gross	0	-	400 7 DA GEO	13 - #/100ML	1230 - Twelve Per Month	GR - GRAB
76467 Zinc, dry weight	S - See Comments	0	-	820 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76468 Lead, dry weight	S - See Comments	0	-	433 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76469 Nickel, dry weight	S - See Comments	0	-	19 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76471 Mercury, dry weight	S - See Comments	0	-	0.18 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76473 Chromium, dry weight	S - See Comments	0	-	46.4 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76475 Copper, sludge, tot, dry weight (as Cu)	S - See Comments	0	-	6.3 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
76476 Cadmium, sludge, tot, dry weight (as Cd)	S - See Comments	0	-	1.01 Opt Mon INST MAX	69 - mg/kg	0100 - Once Every 2 Months	GR - GRAB
80126 BOD, carbonaceous, 5 day, 5 C	1 - Effluent Gross	1	-	4	19 - mg/L	1230 - Twelve Per Month	CP - COMPOS
80128 BOD, carbonaceous, 5 day, 5 C	G - Raw Sewage Influent	0	-	30 MO AVG	19 - mg/L	1230 - Twelve Per Month	CP - COMPOS
81011 Solids, suspended percent removal	K - Percent Removal	0	-	96	23 - %	0100 - Monthly	CA - CALCTD
81083 Carbonaceous oxygen demand, % removal	K - Percent Removal	0	-	96	23 - %	0100 - Monthly	CA - CALCTD
TOACD Pass/Fail Stable 48Hr Acute D. Flux	T - See Comments	1	-	Opt Mon AVERAGE	9A - pass=0/fail=1	0100 - Quarterly	CP - COMPOS
TCACCP Pass/Fail Stable 48Hr Acute Phosphates	T - See Comments	1	-	Opt Mon AVERAGE	9A - pass=0/fail=1	0100 - Quarterly	CP - COMPOS

Submission Note
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.
 Edit Check Errors
 No errors.

Comments

Attachments

No attachments.

Report Last Saved By

NAUGATUCK WPCF

User:

John.Balorski@Veoliawatertma.com

Name:

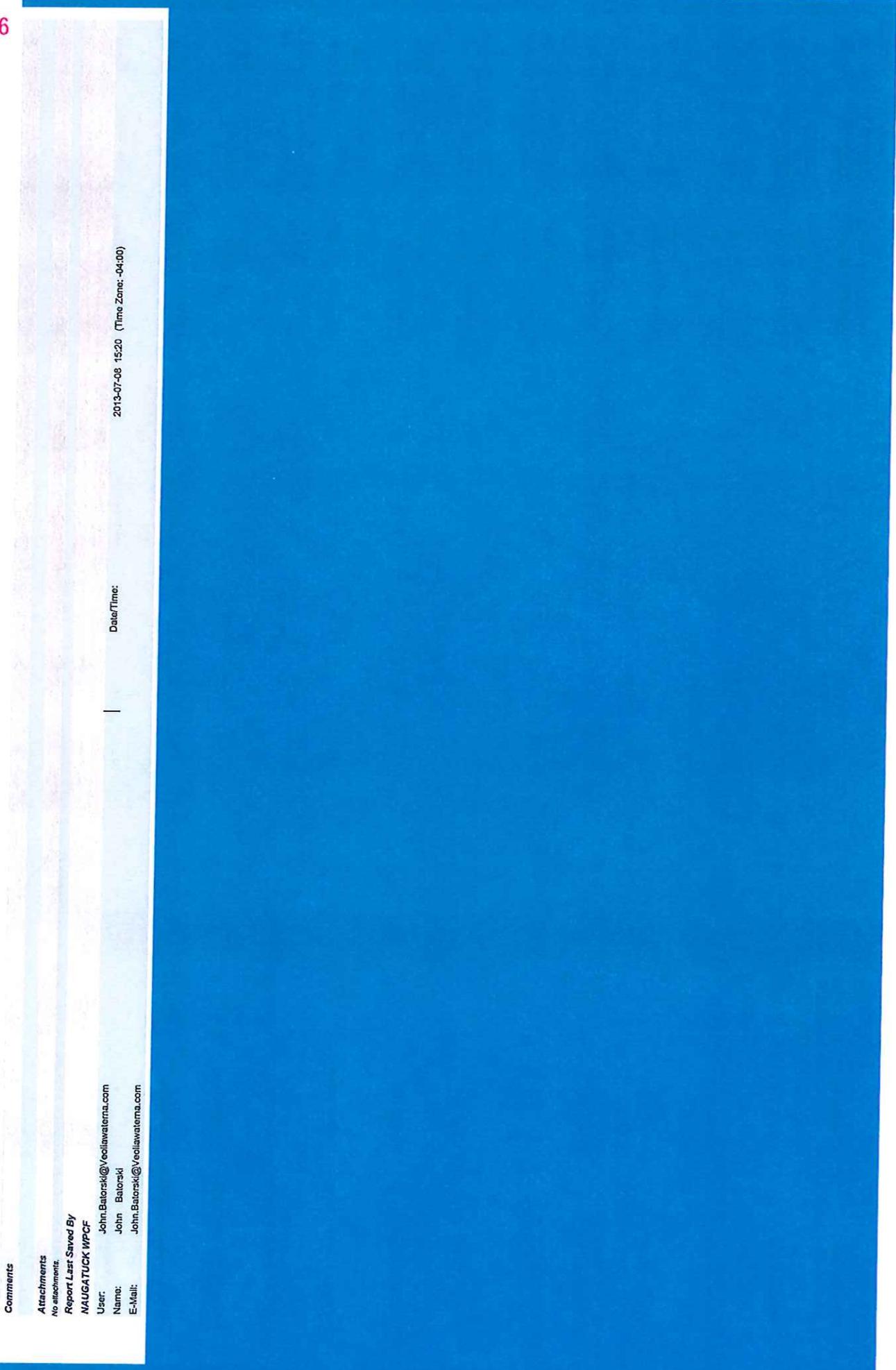
John Balorski

E-Mail:

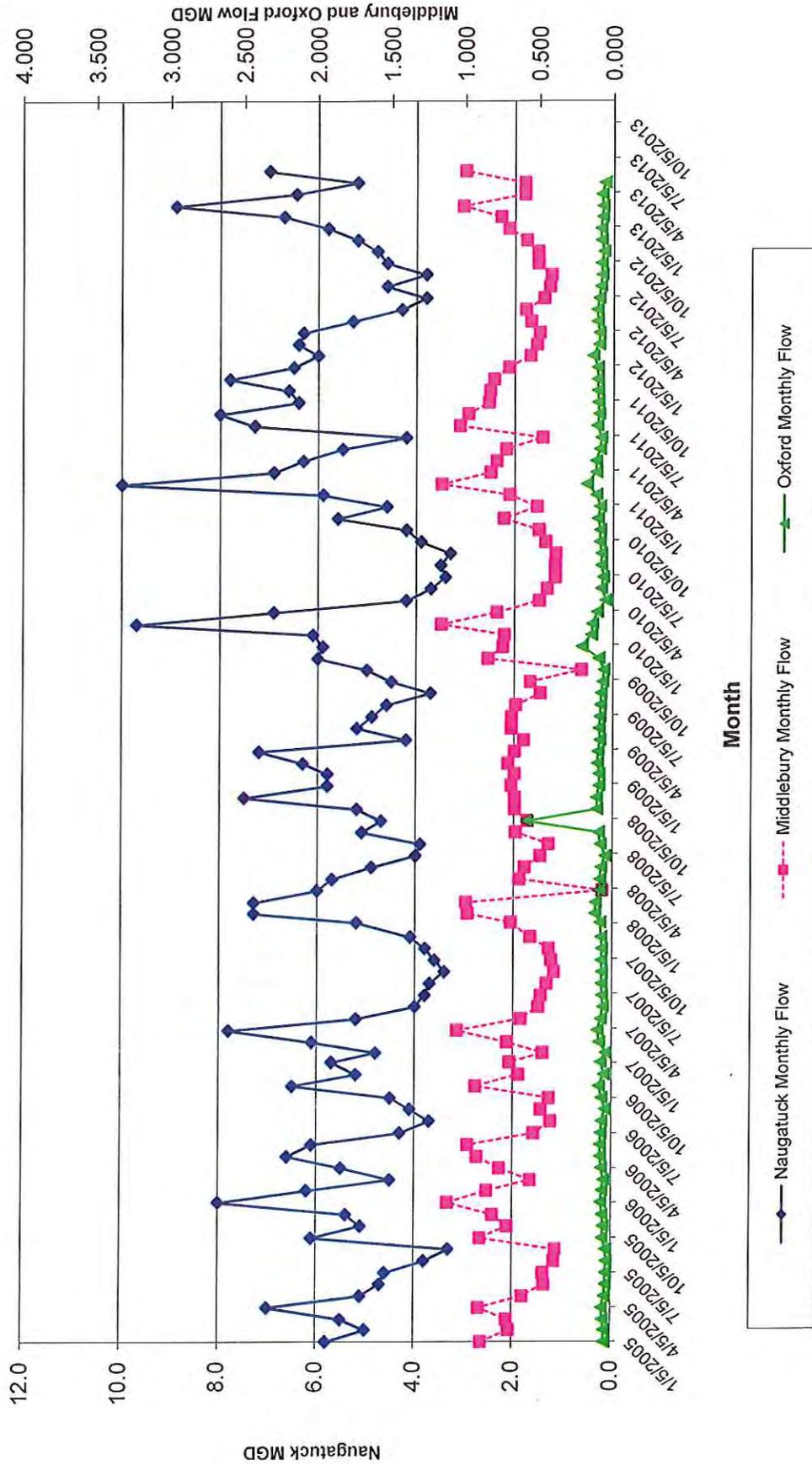
John.Balorski@Veoliawatertma.com

Date/Time:

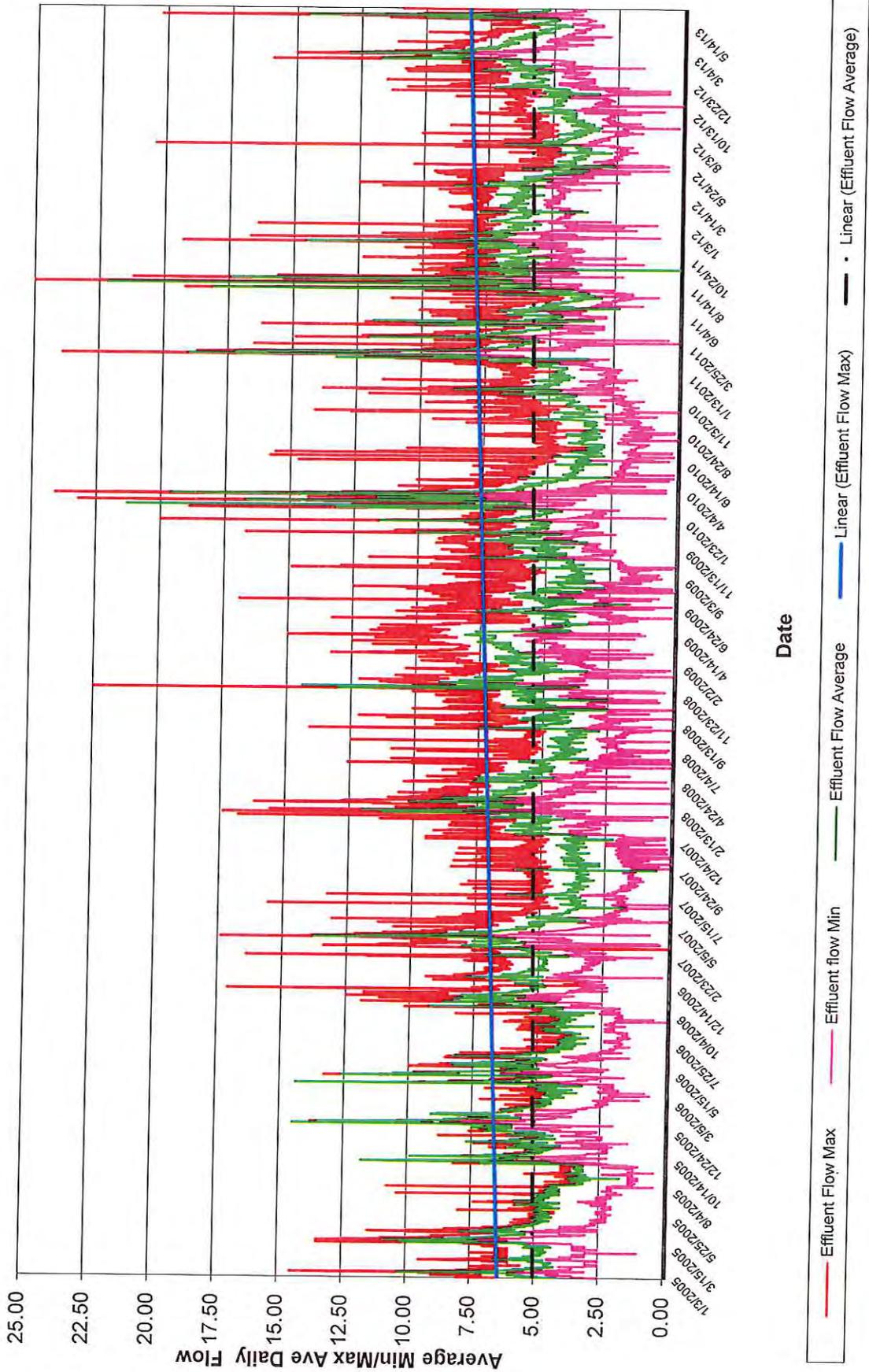
2013-07-08 15:20 (Time Zone: -04:00)



**Naugatuck, Middlebury and Oxford
2005 to Present
Monthly Average Flows**

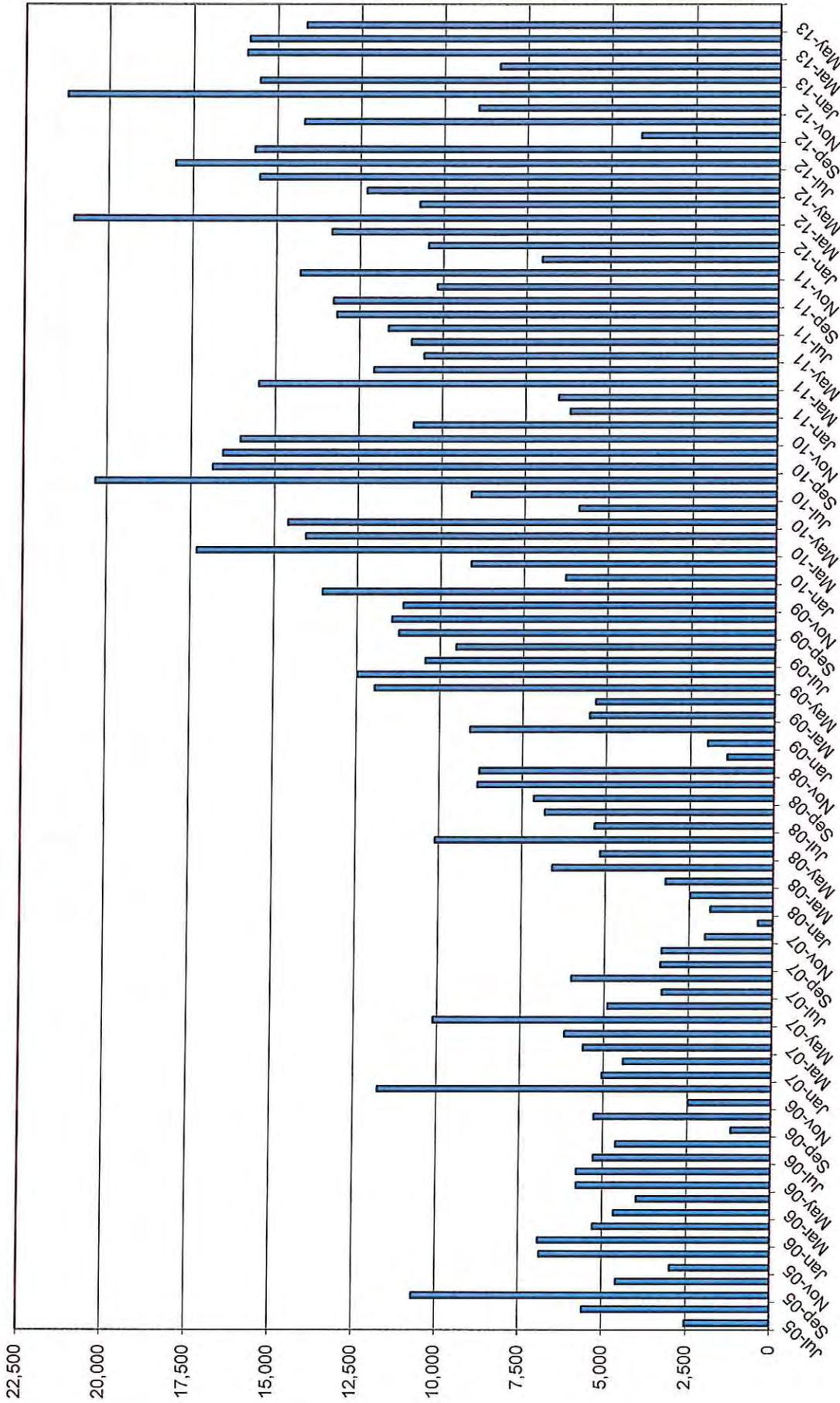


Naugatuck WPCF Daily Min/Max/Total Flow Data 2005 to Present



Borough of Naugatuck Total Feet of Sewers Cleaned July 2005 to Present

Total Feet



● Naugatuck Fire
Department Workshop
● June 20, 2013

Contacts for Veolia

● John Batorski, *Plant Manager*

Emergency contact #

Home 860-349-8589

Cell 203-509-6010

● Chris Makuch, *Assistant Plant Manager*

Emergency contact #

Home 860-827-9908

Cell 203-509-4740

● John Daunis, *Maintenance Manager*

Emergency contact #

Home 860-283-0685

Cell 203-490-5592

Building Locations



- Incineration building (Motor Control Room #7)
- Oil building
- Administration building (Motor Control Room)
- Service building (Motor Control Room #4 and #5)
- Blower building
- Drainage pump station
- Flume Building

General Overview of Site



- Diesel tank 2000 gallons (outside)
- Generator room
- Railroad right of way
- Staff rendezvous point
- Main entrance
- Plant outfall
- River access gate
- Rear entrance
- Coded rear gate entrance (not seen)
- Hydrant Locations
- 480 Volt Switch-gear
- Large Propane tank
- Small Propane tank

Chemical Storage



- Paint storage (approx. 100 gallons)
- Oil & lubricate storage (oil building)
- Sodium hydroxide (administration building basement)
- Polymer (cake dump area)
- Sodium bisulfate (cake dump area)
- Emulsion polymer (cake dump area)
- Sodium hypochlorite (Service building)
- Sodium permanganate

Chemical Information: Fire Fighting Measures

- **Sodium permanganate**

First Responders: wear protective gloves, boots, goggles and respirator. In case of fire wear positive pressure breathing apparatus.

- **Sodium hydroxide**

Fire and explosion hazards: will not burn or combust, when reacted with water can generate sufficient heat to ignite nearby combustible materials, can react with aluminum, zinc and tin to form flammable hydrogen gas.

Extinguishing media: use media suitable for surrounding fire, use extreme caution when extinguishing fire with water.

Fire fighting procedures: evacuate area and fight fire from a safe distance, approach fire upwind, at high temperatures fuming may occur giving off a strong, corrosive gas.

- **Sodium hypochlorite**

Fire fighting procedures: use water to cool containers exposed to fire. Small fires; use dry chemical, carbon dioxide, or water spray, Large fires; use water in flooding amounts, fog.

Fire and explosion hazards: in case of fire, hazardous concentrations of chlorine may be formed.

- **Sodium bisulfate**

Fire and explosion hazards: non-flammable, temperatures at or near boiling cause evolution of toxic and corrosive sulfur dioxide.

Chemical Information: Fire Fighting Measures

- **Polymers:** Clarifloc (R) C-6287 and Clarifloc 750 M

Suitable extinguishing media: water, water spray, foam, carbon dioxide, dry powder

Special fire-fighting precautions: spills produce extremely slippery surfaces

Protective equipment for firefighters: no special equipment required

- **Paints (stored in fire resistant cabinet):** Armorseal Tread-Plex Water Based Acrylic, DTM Acrylic Semi-Gloss, Etching Solution, Industrial choice Aerosol-Solvent, Industrial Rust Reformer, KEM Bond HS Alkyd Metal Primer, Thinners, Welcon 1620 Anti-Spatter, Synfilm Recip, Slip Resistant Additive, etc.

Suitable extinguishing media: foam, dry chemicals

Special fire-fighting precautions: extremely flammable liquid and vapor

Firefighting instructions: evacuate area and fight fire from a safe distance

- **Oils and Lubricants (stored in fire resistant cabinet):** 3-36 Multi-Purpose Lubricant & Corrosion Inhibitor, Bobca 15W-40, Coupling Grease, Falk Long Term Grease, Mobile DTE 25 & 26, Mobilegear 600 XP 150, Mobilgrease Fm 102, Mobilith SHC 100, Mobilube HD 80W-90, Thrust Quick Starting Fluid, etc.

Suitable extinguishing media: water fog, foam, dry chemicals, carbon dioxide

Special fire-fighting precautions: do not use straight streams of water to extinguish fire

Firefighting instructions: evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus.

Generator Information

- The generator is located behind the incinerator building (through the door next to the diesel tank)
- The generator runs the raw sewage pumps, primary pumps and odor control devices.

Fuels Information



Two tanks on premises:
one 1,000 gallon
one 50 gallon tank.

Propane provider: *Hocon Propane*
Contact # 203-754-7601



480 Volt Switchgear



Water and Wastes Digest

Due Date: July 8, 2012 (For August issue), will try for Sept. 2013 issue if approved
J. Robert

Naugatuck Wastewater Facility Provides Sludge Incineration to New England Communities While Saving Money 7-8-13

As New England's population continues to increase and greater pressure is put on wastewater treatment facilities, incineration can be a cost-effective and sustainable way to manage biosolids.

At the Naugatuck, CT wastewater treatment facility, home to one of the largest biosolid incinerators on the East Coast, facility operators are providing sludge treatment services on behalf of the Borough and surrounding regional towns. Their efforts include finding a second use for biosolids -- a process that also helps the community minimize its carbon footprint.

Naugatuck's Wastewater Treatment

In April 2001, Veolia Water signed an interim operations, maintenance and management (O&M) contract with the Borough of Naugatuck. Then in November 2001, the company signed a long-term, 20-year design/build/operate (DBO) agreement to provide Advanced Asset Management for a regional merchant biosolids operation.

The O&M contract involves providing services for the Borough's 10.3-MGD (design) treatment facility, as well as for the merchant biosolids incineration facilities. The Borough's wastewater treatment facility receives sewage flows from the towns of Oxford and Middlebury, and from domestic and industrial sources in the Borough of Naugatuck.

The treatment facility features primary clarification, fine bubble aeration, nitrogen removal, hypochlorite disinfection and sodium meta-bisulfite dechlorination, gravity sludge thickening, belt press/centrifuge dewatering and a fluidized-bed biosolids incinerator.

Under the 20-year contract, Veolia Water provides total asset management services for this facility. The revenues from the merchant sludge facility provided wastewater services to Borough residents at no cost from 2001 through 2006. Veolia Water also successfully completed the transition of the facility's operations and its employees during the first six months of the contract. The facility had been built and operated by a large chemical company located next door. Effluent quality remained consistently high during the transition period, and Veolia Water successfully completed emissions testing for the facilities' multiple-hearth furnaces, which were later replaced with a fluidized bed incinerator.

The History of the Incinerator

In 2001, the public-private partnership between the Borough of Naugatuck and Veolia Water expanded to include a DBO to upgrade Naugatuck's merchant biosolids facility. This involved providing oversight of a \$19 million capital improvements program, which included upgrading the biological nutrient removal treatment units and installing a new 75-dry-ton-per-day (dtpd)

fluidized bed incinerator and biosolids dewatering equipment. Originally intended to achieve 75-dtpd, the furnace was further upgraded to increase capacity to 84-dtpd. The furnace systems achieve less than two percent unplanned downtime annually.

But Naugatuck's incineration efforts go beyond its borough lines. On average, approximately 5-dtpd of sludge processed by the incineration facility comes directly from Naugatuck's wastewater system. The remaining 79-dtpd is brought in from regional towns – sometimes even crossing state lines. The merchant sludge facility accepts liquid and cake biosolids for incineration from more than 30 communities in Connecticut, New York and Massachusetts. The wet sludge is hauled in by trucks, with the facility receiving between 30 and 90 truckloads per day.

“We have the ability to provide a critical service to neighboring communities,” said Dan Gorka, Area Manager. “Because of the capacity of this incinerator, nearby towns don't have to invest in their own infrastructure technology and contribute to a process that reduces waste in a sustainable manner. With the system's very high reliability, our customers know their own plants won't be affected by interruptions of service.”

How it Works

Once a cake sludge truck arrives at the facility, the sludge is unloaded onto a bin where 18-inch screws push the sludge up 100 feet up into a 225-cubic yard silo. The sludge is then moved by enclosed shaft less screws to a waste heat-driven scalping dryer, then to the incinerator. Liquid sludge arriving at the facility is first dumped into a system of storage tanks with 700,000 gallons of capacity then dewatered by centrifuge or belt press and then conveyed to the silo to join the trucked-in cake sludge for further processing.

Incineration of the biosolids takes place in two steps. The first step is drying the solids. The drying process requires that the biosolids' temperature is raised to roughly 200 °F, allowing excess moisture to in the sludge to evaporate. The second step is the actual combustion of the biosolids. Combustion can only take place after sufficient water is removed. Wastewater solids are dewatered to between 20 to 35 percent solids prior to incineration. The incineration process then converts biosolids into inert ash. Sixty-five to 75 percent of the solids are combustible, and thus the volume of ash is significantly lower than that of the original biosolids. This ash can be used or disposed of more readily due to its low volume and inactive nature

A Sustainable Solution

The incineration of biosolids reduces the volume of sludge by 80 percent. Ash generated by the biosolids incineration is then beneficially reused as landfill cover.

“When people hear ‘incineration,’ there tends to be a negative connotation associated with it,” says John Batorski, Veolia Water project manager in Naugatuck, “The reality is that wastewater biosolid incineration is actually an environmentally-friendly solution for sludge disposal because the incinerators are more energy-efficient than the process used to pack, haul and dispose of wet sludge. Additionally, the resulting ash fulfills a need by a community's landfill at no cost.”

Biosolids incineration has been calculated to have a smaller carbon footprint than landfill disposal of this material, based on higher truck transportation requirements to distant landfills away from urban areas and the high nitrogen oxides emissions (very high greenhouse gas impact) from landfilled sludge decomposition.

Further adding to the efficiency of the Naugatuck biosolids incineration process is the ability to re-capture heat from the exhaust gas to both pre-heat the air used for the combustion process and to dry the solids to the extent that little to no additional fuel is required to support the combustion process.

Veolia Water also provides other technical assistance, such as meeting with regulatory agencies on the Borough's behalf in preparation for a new air emissions permit. Performance modifications made to the facility have allowed for higher sludge throughput without increasing greenhouse gas emissions. The emissions controls allow the facility to burn more sludge while remaining well within permit limits.

Taking the Next Step

Recently, the Naugatuck facility underwent a full-scale engineering study to determine the feasibility for generating power from the incinerator residual heat, having already received a Class I Renewable Energy status and preliminary funding grant from the State of Connecticut.

Veolia Water along with the Borough's consultant is preparing to conduct additional emissions testing in order to comply with new EPA air emissions guidelines expected in March 2016. The furnace emissions equipment will be upgraded to meet these new air regulations.

"We're very proud of the innovative work we're doing at this facility and look forward to making this program an even greater sustainable asset for the community," continued Batorski.



ODOR COMPLAINT REPORT

CALLER INFORMATION: DATE: 6/29/13 TIME: 10:30am

CALL TAKEN BY: Odor Hotline

NAME OF COMPLAINANT: Edd J. PHONE 203-729-3461
NUMBER: _____

ADDRESS/LOCATION WHERE ODOR IS BEING DETECTED:

497 Cherry Street

STRENGTH OF ODOR: FAINT ___ NOTICABLE ___ DEFINITE STRONG ___ OVERWHELMING ___

DESCRIPTION OF ODOR: AMMONIA ___ CABBAGE ___ FECAL ___ FISHY ___ GARLIC ___ MEDICINAL ___
ROTTEN EGGS ___ SKUNKY ___ SOLVENT/FUEL ___ OTHER ___

DOES THE CALLER WANT A FOLLOW-UP CALL? YES ___ NO ___

DON'T FORGET TO THANK THE CALLER FOR THEIR CONCERN!!

ODOR INVESTIGATION:

(FROM CONTROL ROOM WEATHER STATION)

WIND DIRECTION: ESE WIND SPEED: 4mph WEATHER: TEMP 75 RAIN ___ HUMID ___ DRY ___
UNSEASONABLY WARM/COLD ___

COMPLETE PLANT SURVEY LISTING POSSIBLE SOURCES OF ODORS CONTRIBUTING TO THE COMPLAINT:

Staff working in primary tank performing repairs -

ODOR CONTROL EQUIPMENT STATUS:

PRIMARY SCRUBBER: ON ___ OFF ___ PH 8.7 ORP 850 MAKE UP WATER: 0.5-1 GPM
SPRAYS good

FILTER BLDG SCRUBBER: ON OFF ___ PH 8.7 ORP 814 MAKE UP WATER: 1-3 GPM
SPRAYS good

PERMANGANATE FEEDERS:

AERATION: ON OFF ___ VERIFIED OPERATIONAL: YES NO ___

SLUDGE STORAGE: ON OFF ___ VERIFIED OPERATIONAL: YES NO ___

ODOR COUNTERACTANT SYSTEM: ON OFF ___ VERIFIED OPERATIONAL: YES SPRAYS ok *all spray*

COMPLAINT REVIEWED BY: John Batista DATE: 7-1-13 TIME: ~8 AM

RETURN CALL MADE BY: _____ DATE: _____ TIME: _____

RETURN CALL RESULTS:
Tanks (covers) were open due to repairs on tank (confined space).