VEOLIA

March 10, 2016

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

Re: **February 2016 Monthly Operating Report**

Dear Mr. Merancy:

Enclosed please find Veolia Water's Monthly Operating Report for the month of February 2016.

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

Sincerely,
Veolia Water North America – Northeast, LLC

John Batorski
Plant Manager
Veolia Water Naugatuck

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

(enclosure)

Veolia Water NA -Naugatuck
500 Cherry Street, Naugatuck, CT 06770
Tel 203-723-1433 / 203-723-8539
www.veoliawaterna.com

Borough of Naugatuck
Monthly WPCF Report Feb 2016

This report summarizes the activities at the Borough POTW for Feb 2016:

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.	-	220
Effluent Avg.	30	5
Removal Efficiency	85%	98%
Plant Process Data*	Limit	Actual
Carbonaceous BOD (mg/l)		
Influent Avg.	-	133
Eff Avg(Nov 1 – May 31)	25	
Eff Avg(June – Oct 31)	15	4
Removal Efficiency	85%	97%

Discharge Permit Exceedance: None

	Naugatuck	Middlebury	Oxford	OTR
Feb Flow Avg. (MGD)	5.7	0.700	0.053	N/A
Sludge Liquid Total (MGal)				2534.1
Sludge Cake Total (Wet Tons)				94.23
Septage Total (MGal)	13,750	14,000	61,800	233,950

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

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

1. **Compliance & Regulatory Issues**
   - **a.** Kleinfelder was on site Feb 17, 2016 for dewatering/incineration equipment assessment.
   - **b.** John Batorski, Chris Makuch, Tom Deller and Natalie Verlezza attended a certification workshop on Feb 25 for the incinerator.
   - **c.** On March 1 and 2, TRC Engineers were onsite for the Borough to collect details on the existing process operating parameter monitoring systems.
2. **Odor Complaints**
   - **a.** There were no odor complaints in February.
3. **Personnel**
   - **a.** One Operator position was filled; the other applicant did not pass pre-employment screening. Three interviews were scheduled for the maintenance position. None of the scheduled candidates reported to the interview nor called to reschedule.
4. **Health & Safety**
   - **a.** The safety meeting was held on Feb 15 and 16.

5. **Operational Information**
    a. Sludge is being diverted to MDC in Hartford, Mattabassett in Cromwell, and the Veolia Cranston site in Rhode Island. We are reviewing all options for sludge disposal to determine the most economical options.
    b. As a result of the incinerator unscheduled shutdown, there are 4 cake loads of sludge being processed each day and sent to MDC Hartford.
6. **Collections**
    a. No report.
7. **Maintenance**
    a. The tuyere manifold failed and will require a total replacement. The replacement will take approximately 3 to 4 weeks.
    b. The south belt press received a new rotary screen thickener drive.
    c. The thermal dryer thermal fluid leak was repaired.
    d. Replacement liquid dewatering belt press feed pumps are being installed. These pumps replace 40 year old pumps no longer economical to maintain.

8. **Capital Projects**
    a. No report.

Borough of Naugatuck
Collections Systems Report
February 2016

VEOLIA WATER

	Calls for Service
1	02/24 - 53 Pearl Rd - Lateral problem
2	02/25 - 28 Picture Ln - Lateral problem
3	02/25 - Wedgewood Dr - Broken m/h lid and ring
4	02/26 - 35 May St - Lateral problem
5	
6	

This Month	Contract Year to Date
4	30

	Calls Caused By Collection System	Reason
1	none	
2		
3		
4		

High Velocity Cleaning

	Street Name	Date	Footage
1	Park Ave 6-174 to 6-165	2/1/2016	210
2	Millville Ave 6-166 to 6-165	2/1/2016	350
3	Porter Ave 3-10 to 2-30	2/2/2016	160
4	Diamond St 7-41 to 7-52	2/2/2016	200
5	Crown St no m/h #s	2/2/2016	440
	Spring St 2-14 to 2-14A	2/2/2016	225
6	Spring St 7-43 to 7-41	2/2/2016	200
7	Spring St 7-41 to 7-16	2/2/2016	500
8	Brennan St 7-42 to 7-51	2/2/2016	480
9	N. Main St under bridge to 7-260	2/2/2016	260
10	N. Main St 7-87 to 7-260	2/2/2016	420
11	Golden Ct 7-260 to end	2/2/2016	140
12	Winthrop Ave no m/h #s	2/3/2016	830
13	Sande Ave no m/h #s	2/3/2016	595
14	Beardsley Ave no m/h #s	2/3/2016	520
15	Radnor Ave no m/h #s	2/3/2016	565
16	Wnslow Ln no m/h #s	2/3/2016	230
17	Highridge Rd 3-14C to 3-14B	2/10/2016	125
18	Highridge Rd 3-14B to 3-14A	2/10/2016	100
19	Highridge Rd 3-14A to 3-14	2/10/2016	90
20	Highridge Rd 3-14 to 3-12	2/10/2016	200
21	Highridge easement 3-15 to 3-14	2/10/2016	75
22	Highridge Rd 3-13 to 3-12	2/11/2016	325
23	Moonlight Cir 11-87 to 11-77	2/18/2016	425
24	Moonlight Cir 11-79 to 11-77	2/18/2016	470
25	Morning Mist Rd 11-77 to 11-76	2/18/2016	350
26	Morning Mist Rd 11-90 to 11-75	2/18/2016	400
27	Cold Spring Cir 7-168 to 7-167	2/24/2016	100
28	Cold Spring Cir 7-167 to 7-163	2/24/2016	270
29	Cold Spring Cir 7-166 to 7-153	2/24/2016	665
30	Brook St 7-154 to 7-153	2/24/2016	155
31	Pearl Rd e-339 to e-338	2/24/2016	300
32	Brook St 7-153 to 7-152	2/25/2016	385
33	Mallane Ln 3-21 to 3-19	2/26/2016	460
34	Mallane Ln 3-19 to 3-18	2/26/2016	65
35	Mallane Ln 3-19 to 2-20	2/26/2016	225
36	Mellissa Ct no m/h #s	2/26/2016	315

6 month list
Call for service

This Month		Year to Date	
11825	Feet	122482	Feet

Root Treatment

	Street Name	Type	Footage
1			
2			
3			

This Month		Year to Date	
0	Feet	6742	Feet

Video Inspections

	Street Name	Type	Footage
1	Millville Ave 6-165 to 6-164	cctv	80
2	Highridge Rd 3-14 to 3-12	cctv	150
3			
4			
5			

This Month		Year to Date	
230	Feet	8955	Feet

Pump Station Services

	Work performed	Location	Date	Notes
1	Weekly pumpstation checks	All 5	2/4/2016	Cleaned floats, replaced flood light at Inwood
2	Weekly pumpstation checks	All 5	2/12/2016	Cleaned floats
3	Weekly pumpstation checks	All 5	2/18/2016	Eversource repaired transformer in front of building
4	Weekly pumpstation checks	All 5	2/29/2016	cleaned floats, meter at Maple/May is not working
5				
6				
7				

PUMP RUN TIMES		HOURS		
STATION		Pump 1	Pump 2	Pump 3
Inwood	End Reading	756.6	971.7	402
	Start Reading	710.7	924.4	353.3
	Hrs Run	45.9	47.3	48.7

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
MAPLE & MAY	End Reading	3841.6	3056.2
	Start Reading	3794.2	3014
	Hrs Run	47.4	42.2

PUMP RUN TIMES		HOURS			
STATION		Pump 1	Pump 2	Flow Meter	
Platts Mill	End Reading	4853.7	7638.7	3969565	
	Start Reading	4848.7	7459.2	3678500	
	Hrs Run	5	179.5	291065	gallons

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
Hopbrook	End Reading	1434.6	983.7
	Start Reading	1403	969.6
	Hrs Run	31.6	14.1

PUMP RUN TIMES		HOURS	
STATION		Pump 1	Pump 2
HORTON HILL	End Reading	8799.2	10472.2
	Start Reading	8695.1	10382.5
	Hrs Run	104.1	89.7

Vac Truck Information

Days out of the plant working		
This Month	YTD	Remaining
10	115	35

Fuel Information	Fuel Cost	Fuel Used			
	$90.00	36.3	Gallons	YTD Gallons	
	$138.73	58.3	Gallons	1342.1	Gallons
			Gallons		
			Gallons	YTD Fuel Cost	
This Months Total	$228.73	94.6	Gallons	$3,678.30	

	Mileage
Month Start	195634
Month End	196455.1
Total	821.1

	Engine Hours
Month Start	6196.7
Month End	6243.9
Total	47.2

Utility Truck Information	Fuel Cost	Fuel Used		YTD Gallons
	$69.73	28.13	Gallons	430.56
	$69.57	28.06	Gallons	
	$49.08	21.92	Gallons	YTD Fuel Cost
			Gallons	$1,155.10
Monthly Totals:	**$188.38**	**78.11**	Gallons	

	Other tasks and notes
1	02/01 - Vac Truck was on site at the Millville sewer repair to bypass line. Helped with the incinerator project by cameraing the boats.
2	02/04 - Put sander back on the F-550 and got sand for it.
3	02/05 - Snow removal at plant all day.
4	02/08 - Got the Bobcat with snowblower attachment ready for the snow. Snow removal at the plant.
5	02/09 - Continued snow removal at the plant and all 5 pumpstations.
6	02/10 - PM on Vac Truck was performed.
7	02/11 - Inspected m/h on Crestwood dr in front of house # 62.
8	02/12 - Primary skimmimgs - 1 load
9	02/15 - Platts Mill - pulled both pumps, cleaned and de-ragged pumps. Got both trucks ready for snow, snow removal at plant.
10	02/16 - Eversource was called and met at Maple/May station. The transformer in the street needed to be fixed.
11	02/16 - Snow removal from all 5 pumpstations. Helped remove material out of the incinerator.
12	02/17 - Helped with the incinerator project. Helped with the taping of the tuyeres and smoke testing.
13	02/19 - Primary tank project. Set up confined space and vac hoses. Hosed and vacuumed out collector/sump area of tank. 2 loads
14	02/22 - Continued with primary tank project and completed. Cleaned area in and around tank.
15	02/23 - Set up Vac Truck to jet the incinerator sludge lines. Jetting was performed, 6 lines in total. Cleaned area around incinerator.
16	02/25 - Checked and picked up debris at pumpstations after wind storm.
17	02/25 - Broken m/h lid and ring was retrieved out of m/h invert 2-93 on Wedgewood Dr.
18	02/26 - Helped with the patching of the roof around skylights.
19	
20	
	Non - Contractual Work Performed
1	2/29 - Worked with DOT on the corner of Buckingham and Rt 63. Vacuumed out storm drain and jetted 100 feet of storm line.
2	
3	

VEOLIA

Sent via certified mail #7014 1200 0002 2236 9951 on March 9, 2016

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

March 9, 2016

Re: February 2016 Reports for Naugatuck, CT WPCF, NPDES # CT0100641

Dear Sir/Madam:

Enclosed please find the *Monthly Operating Report* for February 2016. The *Nutrients Analysis Report for Compliance with General Permit for Nitrogen Discharges* and the *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 February 2016.

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)

Veolia Water NA -Naugatuck
500 Cherry Street, Naugatuck, CT 06770
Tel 203-723-1433 / 203-723-8539
www.veoliawaterna.com

Naugatuck WPCF

Sample month/year February, 2016

Facility ID: 088-001

Permit #: CT0100641

Date received: (stamped)

	Daily Flow			Primary Sludge			Aeration Tank #1				Return Sludge		Aeration Tank #2				Return Sludge		Waste Sludge	Dry Solids to Incineration	Waste Accepted		CBOD (5-Day)		
	Max.	Min.	Total	Vol.	% solids	wt.	MLSS	SVI	High D.O.	Low D.O.			MLSS	SVI	High D.O.	Low D.O.	% Flow	%Solids			Septic	Indust	Inf.	Prim eff.	Final eff.
Units	mgd			MG		lbs.			mg/l		% Flow	% Solids			mg/l				lbs	lbs	gal	gal	mg/l		
Freq.	Daily			Work Day			Work Day		4/ work day				Work Day		4/Work Day		Work Day		Wk Day	Wk Day	Work Day		3/week		
1	5.3	2.9	4.7	0.504			6,456	48	3.6	0.8	221	1.11	6,860	51	5.0	1.2	221	0.80	6,093	0	21,750		250	120	<4
2	5.5	2.8	4.5	0.500			4,116	53	3.3	0.7	214	1.04	5,388	61	3.3	1.4	214	0.78	2,322	0	29,250		120		<4
3	6.7	3.2	5.2	0.518			3,596	53	5.0	0.7	183	0.83	6,384	55	5.0	1.2	183	0.76	1,353	0	12,750		190		<4
4	6.2	3.8	5.3	0.520			6,020	75	3.2	0.7	186	0.92	5,476	69	2.5	1.1	186	0.85	1,506	0	28,250				
5	6.1	3.6	5.1	0.511			5,628	80	3.3	0.7	186	0.94	5,388	74	4.0	1.5	186	0.80	1,480	0	2,500				
6	6.5	3.5	5.0	0.522					3.2	0.8	201				5.0	1.3	201		1,480	0	9,000				
7	6.3	3.2	4.9	0.515					3.4	0.7	175				2.6	1.1	175		1,480	0	0				
8	5.6	3.3	4.7	0.515			5,848	77	3.1	0.7	234	0.90	5,280	81	2.7	1.2	234	1.00	3,233	0	14,200		82	71	<4
9	6.0	3.2	4.9	0.506			2,412	75	3.2	0.7	185	0.97	5,972	67	2.9	0.9	185	0.95	1,062	49,427	9,000		82		<4
10	6.1	3.2	4.9	0.518			6,884	64	3.6	0.6	196	0.95	4,344	108	3.3	1.1	196	1.12	1,761	61,249	13,000		97		<4
11	5.5	3.4	4.6	0.517			6,056	64	3.1	0.8	208	1.12	7,500	56	2.9	1.5	208	1.17	1,948	25,220	9,500				
12	5.8	3.1	4.7	0.510			5,668	64	3.2	0.6	193	1.06	6,080	61	3.6	1.4	193	1.18	1,906	0	4,250				
13	6.0	3.3	4.6	0.522					3.0	0.7	211				3.4	1.5	211		1,906	0	0				
14	5.5	3.0	4.4	0.519					3.3	0.8	217				2.3	1.3	217		1,906	0	0				
15	5.5	3.4	4.4	0.517			5,096	94	3.3	0.8	211	0.90	5,784	83	4.7	1.5	211	1.02	1,633	0	4,250		130	79	<4
16	11.3	3.4	6.7	0.519			8,656	60	3.0	0.8	140	0.95	6,408	70	3.8	1.3	140	0.90	3,148	0	3,000		200		<4
17	7.8	4.7	6.9	0.585			6,420	75	3.2	0.7	141	0.98	6,896	70	2.9	1.0	141	1.33	3,930	0	17,550		110		<4
18	7.3	4.2	6.1	0.538			5,624	103	4.2	0.4	173	1.02	6,484	83	2.9	0.9	173	1.18	3,743	0	17,800				
19	6.7	4.1	5.7	0.462			5,452	88	4.3	0.5	152	0.89	6,112	88	3.5	0.9	152	1.02	3,250	0	6,750				
20	7.3	4.2	5.7	0.462					2.8	1.0	179				3.7	1.4	179		3,250	0	2,250				
21	7.3	4.1	5.8	0.460					2.8	1.0	166				3.1	1.0	166		3,250	0	5,000				
22	6.4	4.0	5.4	0.454			7,580	79	2.8	0.9	186	0.86	5,260	114	2.6	1.1	186	0.99	4,721	0	18,900		160	140	<4
23	6.6	3.7	5.3	0.452			3,916	77	2.7	0.8	180	1.01	5,340	103	2.7	1.1	180	0.96	838	0	16,300		120		<4
24	9.9	4.1	6.9	0.676			6,252	80	2.7	0.9	138	0.98	6,560	90	2.9	1.0	138	0.96	3,301	0	10,000		81		<4
25	11.9	7.7	9.9	0.354			6,356	63	3.7	1.0	101	1.17	6,580	87	2.9	1.1	101	1.53	20,270	0	24,750				
26	9.2	6.7	8.0	0.413			5,840	65	2.6	1.0	133	0.84	6,188	84	3.7	1.2	133	1.18	5,585	0	21,750				
27	8.5	6.0	7.3	0.465					5.0	1.0	134				5.0	1.4	134		3,437	0	4,500				
28	8.3	5.4	6.9	0.427					2.7	1.1	145				5.0	1.0	145		3,437	0	0		130	69	<4
29	7.7	5.1	6.7	0.429			4,520	71	3.0	1.0	148	0.98	5,896	102	5.0	1.4	148	1.06	3,471	0	17,250		110		<4
Total	204.8	116.3	165.00																						
Ave.	7.1	4.0	5.69	0.497			5,638	72	3.3	0.8	177	1.00	6,009	79	3.5	1.2	0.97	1.03	96,695	135,897	323,500				
																			3,334	4,686	11,155		133	96	4

	Suspended Solids			Settleable Solids	Turbidity	Chlorine Dose		Chlorine Residual		Chlorine Residual Average	Fecal Coliform	E. Coli	Ammonia			Nitrite			Nitrate			TKN		
	Inf.	Prim Eff.	Final Eff.	Eff.	Eff.			high	low				Inf.	Prim Eff.	Final Eff.	Inf.	Prim Eff.	Final Eff.	Inf.	Prim. Eff.	Final Eff.	Inf.	Prim Eff.	Final Eff.
Units	mg/l			ml/l	NTU	lbs	mg/l	mg/l		mg/l	#/100ml	#/100ml	mg/l			mg/l			mg/l			mg/l		
Freq.	3/week			Wk Day	Wk Day	4/Work Day		4/work day		4/wk day	3/week	See table A of permit	3/week	Mthly	3/wk	Monthly			Monthly			Monthly		
1	380	75	<5	0.0	1.8	0.00	0.00						22.40	26.4	0.15	0.020	0.020	0.010	<0.02	<0.02	3.800	47.20	36.80	1.270
2	300		<5	0.0	2.6	0.00	0.00						23.40		0.46	0.030		0.010	<0.02		3.340	45.20		1.620
3	180		<5	0.0	3.8	0.00	0.00						20.60		0.43	0.020		0.020	<0.02		3.560	39.30		1.860
4				0.0	4.7	0.00	0.00																	
5				0.0	2.4	0.00	0.00																	
6						0.00	0.00																	
7						0.00	0.00																	
8	160	64	<5	0.0	1.8	0.00	0.00						18.10		1.55	0.100		0.020	0.94		2.970	26.80		3.070
9	130		<5	0.0	1.8	0.00	0.00						18.70		1.24	0.020		0.030	<0.02		2.780	30.00		2.830
10	160		<5	0.0	2.6	0.00	0.00						21.20		0.53	0.330		0.030	0.23		2.850	34.80		1.950
11				0.0	2.7	0.00	0.00																	
12				0.0	2.1	0.00	0.00																	
13						0.00	0.00																	
14						0.00	0.00																	
15	250	66	<5	0.0	2.3	0.00	0.00						29.20		0.88	0.070		0.020	0.34		2.520			2.240
16	200		<5	0.0	2.6	0.00	0.00						16.50		0.59	0.020		0.020	<0.02		2.380	38.90		2.170
17	240		<5	0.0	4.5	0.00	0.00						14.30		1.87	0.120		0.040	0.82		2.620	28.80		3.120
18				0.0	4.4	0.00	0.00																	
19				0.0	3.0	0.00	0.00																	
20						0.00	0.00																	
21						0.00	0.00																	
22	250	120	<5	0.0	2.3	0.00	0.00						15.70		1.31	0.100		0.040	0.41		2.360	28.20		2.960
23	230		<5	0.0	1.9	0.00	0.00						18.00		0.39	0.150		0.030	<0.02		2.950	87.20		1.380
24	190		<5	0.0	3.4	0.00	0.00						14.00		1.38	0.090		0.050	0.53		2.580	24.70		2.970
25				0.0	3.3	0.00	0.00																	
26				0.0	1.7	0.00	0.00																	
27						0.00	0.00																	
28	240	60	6			0.00	0.00																	
29	170		<5	0.0	1.7	0.00	0.00						13.10		0.51	0.110		0.030	0.86		2.150	28.90		1.670
													13.20		0.37	0.080		0.030	0.67		2.220	24.20		1.290
Total																								
Ave.	220	77	5	0.0	2.7	0.00	0.00						18.46	26.4	0.83	0.090	0.020	0.027	0.35	0.02	2.791	37.25	36.80	2.171

	Total N			Total N	Low D.O.	pH		Total P			Total P	Ortho P			Temp.		Arsenic		Copper	Nickel		Selenium	
	Inf.	Prim. Eff.	Final Eff.	Eff.	Eff.	Inf.	Eff.	Inf.	Prim. Eff.	Final Eff.	Eff.	Inf.	Prim. Eff.	Final Eff.	Inf.	Eff.	Inf.	Eff.	Eff.	Inf.	Eff.	Inf.	Eff.
Units	mg/l			lb/d	mg/l	S.U.		mg/l			lb/d	mg/l			F		mg/l		mg/l	kg/day		kg/day	
Freq.	Monthly			Mthly	4/wk day	Work Day		Nov-March (Monthly) (April-October) 2/week			Apr - Oct	Nov-March (Monthly) (April - October) 2/week			Work day		Weekly		Mthly	Weekly		Weekly	
1	47.2	36.8	5.1	200	9.1	7.7	7.0	6.48		4.80	189	2.66		4.19	54	56	<0.0040	<0.004	0.008	0.23	0.26	0.89	0.17
2	45.3		5.0	188	9.2	7.7	7.0			4.05	151			4.18	56	57							
3	39.3		5.4	234	9.1	7.7	7.1								57	57							
4					8.7	7.5	6.9								57	56							
5					9.1	7.5	6.8								54	56							
6															54								
7															54								
8	27.8		6.1	239	8.9	7.4	6.9			3.42	134			3.34	54	54	<0.0040	<0.004		0.16	0.21	0.09	0.02
9	30.0		5.6	229	9.0	7.4	6.9			2.84	115			2.85	53	53							
10	35.4		4.8	196	8.4	7.5	6.8								55	57							
11					8.0	7.3	6.8								55	58							
12					9.0	7.6	6.9								54	55							
13																							
14																							
15	0.4		4.8	176	9.7	7.5	6.7	43.90		2.73	100			2.56	52	51	<0.0040	<0.004		0.08	0.10	0.08	0.02
16	38.9		4.6	257	9.6	7.5	6.8			2.12	118			2.01	53	52							
17	29.7		5.8	334	7.9	7.4	6.7								54	54							
18					8.8	7.3	6.7								53	54							
19					9.4	7.4	6.7								52	53							
20																							
21																							
22	28.7		5.4	243	8.6	7.4	6.8			2.30	104			2.05	54	55	<0.0040	<0.004		0.10	0.12	0.10	0.02
23	87.4		4.4	194	8.8	7.6	6.9			2.07	92			1.81	55	55							
24	25.3		5.6	318	8.6	7.6	7.1								55	55							
25					7.3	7.1	6.6								54	56							
26					8.6	7.2	6.8								53	54							
27																							
28	29.9		3.8	219						1.12	64			0.93			<0.0040	<0.004		0.10	0.23	1.29	0.25
29	25.0		3.5	196	9.1	7.2	6.7			0.82	46			0.61	54	55							
Total																							
Ave.	35.0	36.8	5.0	230	8.8	7.5	6.8	25.19		2.63	111	2.66		2.45	54.2	55.0	0.0040	0.0040	0.008	0.13	0.18	0.49	0.10

Page 4 of 4 of MOR for Naugatuck WPCF

	Zinc		Alkalinity	
			Pri. Eff.	
	Inf.	Eff.		Eff.
Units	kg/day		mg/l	
Freq.	Weekly		Monthly	
1	6.81	1.830	110	60
2			150	60
3			170	60
4			60	70
5			130	70
6				
7				
8	2.51	2.318	110	70
9			160	60
10			160	70
11			140	50
12			120	60
13				
14				
15	4.80	1.872	130	60
16			140	50
17			130	50
18			120	70
19			100	60
20				
21				
22	2.27	1.828	110	60
23			110	50
24			140	60
25			80	60
26			80	60
27				
28	4.17	2.720		
29			80	50
Total				
Ave.	4.11	2.114	120	60

Sludge Dispoal Location:

Please return forms to:

DEEP - Water Bureau

ATTN: Municipal Wastewater Monitoring Coordinator

Municipal Facilities

79 Elm Street

Statement of Acknowledgement

I certify under pentalty 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: 3-7-16

February 2016 Sludge Data

Source	Gallons	Wet Tons
Americas Styrenics	6,500	
Beacon Falls	91,000	
Bedford Hills	19,500	
Heritage Village Water	32,500	
Litchfield	45,500	
Lynwood Place	32,500	
Mahopac Sludge & Septic	384,500	
New Hartford	26,000	
New London	13,000	
New Rochelle		53.27
North Canaan	39,000	
North Haven	58,500	
Pawling	78,000	
Pepsi	6,500	
Plymouth	78,000	
Poughkeepsie	422,500	
Rhinebeck WPCF		11.41
Ridgefield	84,500	
Seymour Cake		29.55
Southbury	123,500	
Southington	208,000	
Stratford	305,500	
Thomaston Treatment	58,500	
Torrington	227,500	
Westport	115,074	
Windham	78,000	
Totals	2,534,074	94.23

Nutrient Analysis Report

For compliance with General Permit for Nitrogen Discharges

Facility Name: NAUGATUCK TREATMENT Co. **Month:** Feb-16
Permit Number: CT0100641 **Design Flow:** 10.3 MGD

Final Effluent

Plant Name	Sample Date (mm/dd/yyyy)	Average Daily Flow (mgd)	TKN (mg/l)	(Nitrite + Nitrate) (mg/l)	Total Nitrogen (mg/l)	Total Nitrogen (lbs/d)
NAUGATUCK TRE.	2/1/2016	4.71	1.27	3.81	5.1	200
NAUGATUCK TRE.	2/2/2016	4.46	1.62	3.35	5	186
NAUGATUCK TRE.	2/3/2016	5.19	1.86	3.58	5.4	234
NAUGATUCK TRE.	2/8/2016	4.71	3.07	2.99	6.1	240
NAUGATUCK TRE.	2/9/2016	4.86	2.83	2.81	5.6	227
NAUGATUCK TRE.	2/10/2016	4.93	1.95	2.88	4.8	197
NAUGATUCK TRE.	2/15/2016	4.4	2.24	2.54	4.8	176
NAUGATUCK TRE.	2/16/2016	6.67	2.17	2.4	4.6	256
NAUGATUCK TRE.	2/17/2016	6.91	3.12	2.66	5.8	334
NAUGATUCK TRE.	2/22/2016	5.43	2.96	2.4	5.4	245
NAUGATUCK TRE.	2/23/2016	5.33	1.38	2.98	4.4	196
NAUGATUCK TRE.	2/24/2016	6.85	2.97	2.63	5.6	320
NAUGATUCK TRE.	2/28/2016	6.87	1.67	2.18	3.9	223
NAUGATUCK TRE.	2/29/2016	6.68	1.29	2.25	3.5	195
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
					0	0
				Total Pounds		3229
				Average Pounds		230.6428571

Date of Last Calibration of Flow Meter: 7/2/2015

Statement of Acknowledgement

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: _____ **Title:** _____

Sent electronically 3-9-16

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Clean Water Fund Memorandum (2016-001)

Eligibility of Permit Costs on Projects funded through the Connecticut Clean Water Fund

I. PURPOSE

To provide direction on eligible permit costs for projects funded through the Connecticut Clean Water Fund (CWF).

II. GOVERNING STATUTE OR REGULATION

The purpose of the Connecticut CWF program is to fund capital costs necessary to construct municipal pollution abatement facilities.

Eligible construction costs include those related to land development, as discussed in the Regulations of the Connecticut State Agencies (RCSA) Sections 22a-482-4(a)(7) and 22a-482-4(c)(1) and (2). Land use permits are necessary for project construction, and are eligible for grant and loan under the CWF program.

Conversely, RCSA Section 22a-482-4(b) indicates that "Costs which are not necessary for the construction of a pollution abatement facility are unallowable." Routine operation and maintenance (O&M) costs of said facilities are ineligible, in accordance with RCSA Sections 22a-482-4(b)(8) and (14). Among these ineligible O&M costs are operational permits, in accordance with RCSA Section 22a-482-4(b)(17).

III. ELIGIBILITY

It follows that permit costs related to land development in preparation for construction of a CWF project are eligible. The costs associated with routine permits necessary to properly operate and maintain facilities are ineligible.

The conditions contained in this memorandum are effective for all CWF construction projects which are active on or after the date of the memorandum.

A. Examples of <u>eligible</u> land development permits include the following:

1. Water and land use licenses, permits, and certificates, such as:
   a) Inland Wetlands and Watercourses;
   b) Army Corps of Engineers Section 401 Water Quality;
   c) Flood Management;

d) Stormwater and Dewatering Wastewaters from Construction Activities; and
e) Coastal Structures, Dredging and Fill, and Tidal Wetlands.

2. Transportation permits, including:
   a) Connecticut Department of Transportation (ConnDOT);
   b) Amtrak; and
   c) Federal Aviation Administration (FAA)

B. Examples of ineligible permits include the following:

1. Water usage and water discharge operational permits (e.g., NPDES wastewater, stormwater);

2. Air emissions operational permits;

3. Building permits – Note that building permit application costs will only be considered as eligible upon documentation that all other municipal projects (e.g., schools, public safety buildings) have been also required to pay these costs.

IV. DEFINITIONS

CGS: Connecticut General Statutes

ConnDOT: Connecticut Department of Transportation

FAA: Federal Aviation Administration

CWF: Connecticut Clean Water Fund (CGS 22a-475 through 482)

DEEP: Department of Energy and Environmental Protection

Municipal: Refers to any "municipality" eligible for the CWF, as defined in Section 22a-475 of the CGS.

NPDES: National Pollutant Discharge Elimination System

O&M: Operation and maintenance

Pollution abatement facility: Defined in Section 22a-475 of the CGS and is synonymous with the terms project, treatment works, treatment system, and treatment facility.

RCSA: Regulations of the Connecticut State Agencies

February 22, 2016
Date

Denise Ruzicka
Director of Planning & Standards
Bureau of Water Protection & Land Reuse

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

Memorandum

To: All Connecticut Municipalities, Water Pollution Control Facilities, and Consultants

Date: February 22, 2016

Re: Eligibility of Permit Costs on Projects Funded through the Connecticut Clean Water Fund

The Department of Energy and Environmental Protection's (DEEP) Municipal Water Pollution Control Section has a memorandum discussing the eligibility of permit costs on Clean Water Fund projects.

The final memorandum is now available on our website at http://www.ct.gov/dep/cwp. It shall apply to eligibility determinations on a forward looking basis.

Thank you again for helping us to make the process more transparent.

Sincerely,

Denise Ruzicka
Director of Planning & Standards
Bureau of Water Protection & Land Reuse

Kate Balanda
EHS&S Specialist III
Chemtura Corp.
12 Spencer Street
Naugatuck, CT 06770

Kate.Balanda@Chemtura.com
203.714.8660 tel
203.558.5489 cell

February 22, 2016

SENT VIA: FedEx

Art Mauger, P.E.
Supervising Sanitary Engineer
Water Permitting and Enforcement Unit
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

SUBJECT: Registration for Modification of Permit No. CTMIU0168
Chemtura Corporation
Naugatuck, Connecticut

Dear Mr. Mauger:

Enclosed please find a *General Permit Registration Form for Miscellaneous Discharges of Sewer Compatible Wastewater* for Chemtura's Naugatuck facility. The registration is for modification of the facility's existing Permit No. CTMIU0168. It is Chemtura's understanding that this registration needs only to be submitted to you, without a copy to the Central Permit Processing Unit, and that there is no fee associated with this registration submittal. Please let me know if you have a different understanding of this. A summary of the modifications being made to the existing registration in today's submittal are provided below:

- In the table in Part V.a., for Water Treatment, the Max Daily Flow of discharge NOT requiring treatment has been changed from 1,600 gpd to 999 gpd, as explained below. This resulted in the following changes to the reported flows in the table: The flow in Item 6.a. changed from 3,600 gpd to 2,999 gpd; the flow in Item 6.c. changed from 3,625 gpd to 3,024 gpd; and the flow in Item 10 changed from 4,225 gpd to 3,024 gpd.
- In the table in Part V.a., text was added to Item 10 to clarify that the reported flow of 3,024 gpd does not include non-contact cooling water.
- For existing Discharge Serial Number (DSN) 003, the Total Maximum Daily Flow (gpd) in Item 9 of Part V.b. has been changed from 1,600 to 600. This revised maximum daily flow volume is based on monitoring of the wastewater flow during a recent manual regeneration conducted by the vendor that services the ion exchange water softeners for Chemtura.
- New DSN 006, with a Total Maximum Daily Flow of 399 gpd, which is currently regulated under the *General Permit for the Discharge of Water Treatment Wastewater*, is being added for coverage under Permit No. CTMIU0168.
- In Attachment A: discharge volume in Part 1 has been changed from 19,225 gallons per day to 18,624 gallons per day; and Part 2 has been updated by the Naugatuck POTW.

If you should have any questions regarding this submittal, please contact me at (203) 714-8660.

Sincerely,

Kate Balanda

Kate Balanda
EHS&S Specialist III

Attachments (1)

cc: J. Batorski (Veolia Water)

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **001**
2. If registration is new, the anticipated start date of the discharge: **Existing**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **Effluent from oil/water separator**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☒ Air compressor condensate & blowdown	☐ Non-contact cooling water
☐ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☐ Water treatment wastewater	☐ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours or ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **25**
10. Method of Flow Measurement: **Estimate from engineering practice**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

    Condensate and blowdown from air compressors.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    None.

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    Air compressors are subject to regular maintenance.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    Oil/water separation.

Part V.a: Facility Wastewater Discharge Information (continued)

12. Based on the information gathered in the table in Part V.a. above and further explanatory information in the instructions, please check the appropriate box in the table below to determine if **Registration Only** or **Registration with Approval** is required for your discharge to be authorized. Then please return to "Part II. Fee Information" to check the proper fee box.

Registration Required?	Discharge Group	Total Maximum Daily Flow Thresholds	Fees[1]
No Registration (no further submission necessary)	I	< 1,000 gpd	$0
	II	<5,000 gpd	
	III	All Flows	
☒ **Registration Only**	I (w/o treatment)	1,000 ≤ Flow < 25,000 gpd	$500.00
	II (w/o treatment)	5,000 ≤ Flow < 25,000 gpd	
	II (noncontact cooling water)	Flow ≥ 25,000 gpd	
	IV (w/o treatment)	All Flows	
☐ **Registration with Approval**	All discharges requiring variance	All Flows	$1,000.00
	I (w/treatment)	1,000 ≤ Flow < 25,000 gpd	
	II (w/treatment)	5,000 ≤ Flow < 25,000 gpd	
	IV (w/treatment)	All Flows	
	I + II (with or without treatment)	Flow ≥ 25,000 gpd	

[1]Municipalities will receive a 50% discount on fees.

Connecticut Department of
Energy & Environmental Protection
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

General Permit Registration Form for Miscellaneous Discharges of Sewer Compatible Wastewater

CPPU USE ONLY
App #:
Doc #:
Check #:
Program: Industrial General Permits

Please complete this form in accordance with the instructions (DEEP-WPED-INST-0012) to ensure the proper handling of your registration. Print or type unless otherwise noted. You must submit the registration fee along with this form.

Part I: Registration Type

Check the appropriate box identifying the registration type.

This registration is for a (check all that apply):	For renewals or modifications:
☐ *New* general permit registration ☐ *Replacement* of an individual permit or an authorization ☐ *Renewal* of an existing registration ☐ new *ownership* ☒ A *modification* of an existing registration	1. Existing permit or authorization number: **CTMIU0168** 2. Expiration Date: **October 30, 2018**
Town Location: Naugatuck **Brief Description of Activity Producing Discharge: Activities associated with research & development laboratories, offices, and warehouse space.**	

Part II: Fee Information

Before completing this part, it will be necessary to complete the table of discharges in Part V.a. of this registration form in order to determine the correct fee below. You will then check the applicable box below identifying your registration type to determine your registration fee.

☒ For discharges requiring **Registration Only**	$500.00 [#1892]
☐ For discharges requiring **Registration with Approval**	$1,000.00 [#1893]
The applicable registration fee checked above is to be submitted with *each* registration that you are submitting. **Each site registering under the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater requires a separate registration.** The fee for municipalities is 50% of the above listed rate. The registration will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection.	

Part III: Registrant Information

- *If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated **exactly** as it is registered with the Secretary of State. The facility operator must be the registrant as opposed to the facility owner. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)*
- *If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).*
- *If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change Company/Individual Information to the address indicated on the form. If there is a change in name of the entity holding a DEEP license or a change in ownership, contact the Office of Planning and Program Development (OPPD) at 860-424-3003. For any other changes you must contact the specific program from which you hold a current DEEP license.*

1. **Registrant/Facility Operator Name:** Chemtura Corporation

   Mailing Address: 199 Benson Road

   City/Town: Middlebury State: CT Zip Code: 06749

   Business Phone: (203) 714-8660 ext.:

   Contact Person: Kate Balanda Phone: (203) 558-5489 ext.

   *E-mail: kate.balanda@chemtura.com

   *By providing this e-mail address you are agreeing to receive official correspondence from the Department, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the Department if your e-mail address changes.

a) Registrant Type (check one):

☐ individual ☐ federal agency ☐ state agency ☐ municipality ☐ tribal

☒ *business entity (*If a business entity complete i through iii):

i) check type: ☒ corporation ☐ limited liability company ☐ limited partnership ☐ limited liability partnership ☐ statutory trust ☐ Other: _____

ii) provide Secretary of the State business ID #: 0633035 This information can be accessed at *the Secretary of State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)*

iii) ☐ Check here if your business is **NOT** registered with the Secretary of State's office.

☐ Check here if any co-registrants. If so, attach additional sheet(s) with the required information as requested above.

b) Registrant's interest in property at which the proposed activity is to be located:

☒ site owner ☐ option holder ☐ lessee ☐ easement holder ☒ operator

☐ other (specify): _____

2. **Billing contact, if different than the registrant.**

   Name: **Same as registrant**

   Mailing Address:

   City/Town: State: Zip Code:

   Business Phone: ext.:

   Contact Person: Phone: ext.

   E-mail:

Part III: Registrant Information (continued)

3. **Primary contact for Departmental correspondence and inquiries, if different than the registrant.**

Name: **Same as registrant.**

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

*E-mail:

*By providing this e-mail address you are agreeing to receive official correspondence from the Department, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify the Department if your e-mail address changes.

4. **Facility Owner, if different than the registrant.**

Name: **Same as registrant.**

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

E-mail:

5. **Attorney or other representative, if applicable.**

Name:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: ext.:

Contact Person: Phone: ext.

E-mail:

6. **Engineer(s) or other consultant(s) employed or retained to assist in preparing the registration or in designing or constructing the activity.**

Name: **Woodard & Curran Inc.**

Mailing Address: 1520 Highland Avenue

City/Town: Cheshire State: CT Zip Code: 06410

Business Phone: 203-271-0379 ext.: 2311

Contact Person: Gilbert S. Ryan Phone: 203-699-6105 ext.

E-mail: gryan@woodardcurran.com

Service Provided: **Collection of samples for screening analysis and preparation of registration form.**

☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

Part IV: Site Information

1. **SITE NAME AND LOCATION**

   Name of Site : **Chemtura Corporation**

   Street Address or Location Description: **400 Elm Street and 12 Spencer Street**

   City/Town: **Naugatuck** State: **CT** Zip Code: **06770**

2. **INDIAN LANDS:** Is or will the facility be located on federally recognized Indian lands? ☐ Yes ☒ No

3. **COASTAL BOUNDARY:** Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEEP approved coastal boundary maps? ☐ Yes ☒ No

   If yes, and this registration is for a new authorization or a modification of an existing authorization where the physical footprint of the subject activity is modified, you must submit a *Coastal Consistency Review Form* (DEEP-APP-004) with your application as Attachment A.

   Information on the coastal boundary is available at www.cteco.uconn.edu/map_catalog.asp (Select the town and then select coastal boundary. If the town is not within the coastal boundary you will not be able to select the coastal boundary map.) or the local town hall or on the "Coastal Boundary Map" available at DEEP Maps and Publications (860-424-3555).

4. **ENDANGERED OR THREATENED SPECIES:** According to the most current "State and Federal Listed Species and Natural Communities Map", is the project site located within an area identified as a habitat for endangered, threatened or special concern species? ☐ Yes ☒ No Date of Map: **9/2015**

   If yes, complete and submit a *Request for NDDB State Listed Species Review Form* (DEEP-APP-007) to the address specified on the form. **Please note NDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant.**

   A copy of the completed *Request for NDDB State Listed Species Review Form* and the CT NDDB response ***must*** be submitted with this completed registration as Attachment B.

   For more information visit the DEEP website at www.ct.gov/deep/nddbrequest or call the NDDB at 860-424-3011.

5. **AQUIFER PROTECTION AREAS:** Is the site located within a mapped Level A or Level B Aquifer Protection Area, as defined in CGS section 22a-354a through 22a-354bb?

   ☐ Yes ☒ No If yes, check one: ☐ Level A **or** ☐ Level B

   If Level A, are any of the regulated activities, as defined in RCSA section 22a-354i-1(34), conducted on this site? ☐ Yes ☐ No

   If yes, and your business is **not** already registered with the Aquifer Protection Program, contact the local aquifer protection agent or DEEP to take appropriate actions.

   For more information on the Aquifer Protection Area Program visit the DEEP website at www.ct.gov/deep/aquiferprotection or contact the program at 860-424-3020.

6. **CONSERVATION OR PRESERVATION RESTRICTION:** Is the property subject to a conservation or preservation restriction? ☐ Yes ☒ No

   If Yes, proof of written notice of this registration to the holder of such restriction or a letter from the holder of such restriction verifying that this registration is in compliance with the terms of the restriction, must be submitted as Attachment C.

Part V.a: Facility Wastewater Discharge Information

Please see the instructions for Part V for information on completing the table below.

1. MISC Wastewater Categories	2. Max Daily Flow of discharge *NOT* requiring treatment (gpd)	3. Max Daily Flow of discharge requiring treatment (gpd)	4. Sum of #2. & #3. (gpd)	5. NetDMR? (check box if sum in box to left >5000 gpd)
Group I Discharges				
☒ Air Comp. Condensate & Blowdown	0	25	25	☐
☒ Boiler Blowdown	500	0	500	☐
☐ Contact Cooling & Heating Water				☐
☐ Cutting & Grinding				☐
☐ Non-Destruct Testing Rinsewater				☐
☐ Printing and Photo Processing				☐
☐ Tumbling & Cleaning				☐
☒ Water Treatment	999	0	999	☐
☒ Other (specify in Part Vb):	1,500	0	1,500	☐
6. Cumulative Max Daily Flow of Group I Wastewaters	a. 2,999	b. 25	c. 3,024	
Group II Discharges				
☒ Non-Contact Cooling Water	15,000	0	15,000	NA
☐ Hydrostatic Pressure testing				NA
☐ Commercial Laundry				(>25,000 gpd) ☐
☐ Food Processing				(>25,000 gpd) ☐
7. Cumulative Max Daily Flow of Group II Wastewaters	a. 15,000	b. 0	c. 15,000	
Group III Discharges				
☒ Building Maintenance	100	0	100	NA
☒ Fire Suppression Test	500	0	500	NA
☐ Swimming Pool				NA
8. Cumulative Maximum Daily Flow of Group III Wastewaters	a. 600	b. 0	c. 600	
9. Facility Total Maximum Daily Flow (6c. + 7c. + 8c.)			18,624	

10. Sum of all Group I and Group II discharges (6c.+ 7c.) to determine if Qualified Professional certification is necessary 3,024 (gallons per day) (not including non-contact cooling water)

11. Maximum instantaneous flowrate of the facility: 100 (gallons per minute)

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **002**
2. If registration is new, the anticipated start date of the discharge: **Existing**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **From piping prior to discharge to sewer connection**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☐ Air compressor condensate & blowdown	☐ Non-contact cooling water
☒ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☐ Water treatment wastewater	☐ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours or ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **500**
10. Method of Flow Measurement: **Estimate from engineering practice**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

    This discharge includes: 1) boiler blowdown and equipment draining; 2) deaerator overflow; 3) normal condensate drainage and leakage from the steam supply and return system; and 4) emergency condensate discharge.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    There is the potential for boiler treatment chemicals (e.g., antiscalants, corrosion inhibitors, oxygen scavengers, etc.) added to the system to be present in the boiler blowdown and equipment draining, deaerator overflow, and condensate. These treatment products may contain one or more of the following specific chemicals: cyclohexylamine (108-91-8); 2-diethylaminoethanol (100-37-8); 1-hydroxyethylidene-1,1-diphosphoric acid, tetrapotassium salt (14860-53-8); nitrous acid, sodium salt (7632-00-0); potassium hydroxide (1310-58-3); potassium sulfite (10117-38-1); sodium hydroxide (1310-73-2); sodium sulfite (7757-83-7); and sodium tetraborate pentahydrate (12179-04-3).

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    The boilers are maintained in accordance with the manufacturers' specifications and inspected / serviced on a regular basis to ensure proper operation. Equipment that is not operating properly is promptly repaired, removed, or replaced. The quantity of wastewater blown down and the quantities of chemicals used in the boilers are limited to those amounts that are necessary to maintain proper operation of the system. Equipment is only drained, as necessary, to perform required maintenance. Regular maintenance is performed n the steam distribution and condensate return system to ensure proper operation and to minimize the loss of condensate to the drain.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    None.

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **003**
2. If registration is new, the anticipated start date of the discharge: **Existing**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **From piping prior to discharge to sewer connection**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☐ Air compressor condensate & blowdown	☐ Non-contact cooling water
☐ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☒ Water treatment wastewater	☐ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours **or** ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **600**
10. Method of Flow Measurement: **Accurately timed filling of a container of known volume**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

    Ion exchange water softeners are used to treat city water that is then used as boiler make-up water. Wastewater is generated through the regeneration of the water softeners using a brine solution consisting of salt and city water.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    Sodium chloride (7647-14-5).

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    The softeners are maintained in proper operating condition. Regeneration is performed, only as required, in accordance with the manufacturer's and/or service provider's settings.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    None.

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **004**
2. If registration is new, the anticipated start date of the discharge: **Existing**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **From equipment / piping prior to discharge to sewer connection**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☐ Air compressor condensate & blowdown	☒ Non-contact cooling water
☐ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☐ Water treatment wastewater	☐ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours **or** ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **15,000**
10. Method of Flow Measurement: **Estimate from engineering practice and knowledge of equipment operation**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

This discharge includes: 1) cooling tower blowdown and draining for maintenance as well as cooling tower emergency discharges. As part of the operation of the cooling tower, cooling water evaporates and the concentration of dissolved minerals in the water increases. Blowdown is required in order to maintain the dissolved solids concentration / conductivity of the non-contact cooling water at the levels necessary for proper operation of the cooling system; 2) quench water (i.e., city water) that is used to cool boiler blowdown; 3) once-through non-contact cooling water (i.e., city water) used for equipment cooling; 4) draining of equipment containing chilled water; and 5) draining of equipment containing condenser (cooling tower) water.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    Water treatment chemicals are used in the cooling tower and chilled water systems to promote heat transfer efficiency, extend equipment life, as biocides, and minimize water usage. These treatment chemicals are generally identified by their treatment characteristics (e.g., "anti-scalant," "anti-corrosive," "microbiocide," etc.). The treatment mixtures for these systems may contain one or more of the following specific chemicals: aromatic azole (blend); benzotriazole (95-14-7); 2-phosphono-1,2,4-butanetricarboxylic acid, sodium salt (40372-66-5); potassium hydroxide (1310-58-3); sodium bromosulfamate (134509-56-1); sodium chlorosulfamate (17172-27-9); sodium hydroxide (1310-73-2); and sodium tetraborate pentahydrate (12179-04-3).

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    The non-contact cooling and chilled water systems are maintained in accordance with the manufacturers' and/or service provider's specifications. The systems components are inspected / serviced on a routine basis to ensure proper operation. Equipment that is not operating properly is promptly repaired, removed or replaced. The quantity of wastewater blown down and the quantities of chemicals used in the cooling water system are limited to those amounts that are necessary to maintain proper operation of the system. Equipment is only drained as necessary to perform required maintenance. Only the quantity of quench water that is required to cool the boiler blowdown in order to adequately protect downstream equipment, piping, instrumentation, etc. is used.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    None.

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **005**
2. If registration is new, the anticipated start date of the discharge: **Variable**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **From equipment / piping prior to discharge to sewer connection**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☐ Air compressor condensate & blowdown	☐ Non-contact cooling water
☐ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☐ Water treatment wastewater	☒ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours or ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **1,500**
10. Method of Flow Measurement: **Estimate from engineering practice and process knowledge**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

    Cleaning and flushing of equipment and piping, including but not limited to power washing of the Spencer Street cooling tower and condenser coils on the rooftop units at both Elm and Spencer.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    Chemicals are sometimes used as part of the cleaning process. These chemicals may contain one or more of the following ingredients: sodium metasilicate (6834-92-0); Poly(oxy-1,2-ethanediyl), alpha-undecyl-omega-hydroxy- (34398-01-1); potassium hydroxide (1310-58-3); sodium lauriminodipropionate (14960-06-6); and sodium tripolyphosphate (7758-29-4).

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    Equipment or piping cleaning / flushing is only conducted as necessary to maintain proper system operation.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    None.

Part V.b: Individual Discharge Information

The below information must be provided for each category or categories of discharge that will discharge to a sanitary sewer lateral and for which monitoring samples will be taken. Attach additional sheets as necessary. See instructions for further guidance.

1. Discharge Serial Number: **006**
2. If registration is new, the anticipated start date of the discharge: **Existing discharge**
3. Discharge Location: **Sanitary sewer connection**
4. Monitoring Location: **From equipment / piping prior to discharge to sewer connection**
5. Name of Receiving POTW: **Naugatuck Water Pollution Control Facility**
6. Method by which POTW will receive discharge: ☒ Sanitary Sewer ☐ Transported by truck
7. Miscellaneous Discharge Category(ies) (check all that apply):

☐ Air compressor condensate & blowdown	☐ Non-contact cooling water
☐ Boiler blowdown	☐ Hydrostatic pressure testing wastewater
☐ Contact cooling & heating water	☐ Commercial laundry wastewater
☐ Cutting and grinding wastewater	☐ Food processing wastewater
☐ Non-destruct testing rinsewater	☐ Building maintenance wastewater
☐ Printing and photo processing wastewater	☐ Fire suppression testing wastewater
☐ Tumbling and cleaning wastewater	☐ Swimming pool wastewaters
☒ Water treatment wastewater	☐ **Other processing wastewater**

8. Is discharge: ☐ continuous throughout the operating hours **or** ☒ a batch discharge
9. Total Maximum Daily Flow (gpd): **399**
10. Method of Flow Measurement: **Estimate from engineering practice and process knowledge**
11. A detailed description of the processes or activities generating the discharge(s). When different processes or activities produce different discharges, please be specific about each.

    Reject water from a reverse osmosis unit used to generate pure water for the Elm Street laboratories.

Part V.b: Individual Discharge Information (continued)

12. A list of the substances used or added to the wastewater, including but not limited to those substances for which effluent limits are specified in Section 5(a) of the subject general permit and those substances listed in Appendix B Table II, III and V or Appendix D of section 22a-430-4 of the Regulations of Connecticut State Agencies. Any such substances shall be identified by their generic chemical names and Chemical Abstract System (CAS) number.

    None.

13. A description of any best management practices, such as conservation and reuse of water, minimization, substitution and reuse of chemicals, and other pollution prevention measures, implemented or to be implemented by the registrant to minimize any adverse environmental effects of the subject discharge.

    Unit is operated and maintained in accordance with the manufacturer's specifications and is only operated as necessary to provide pure water for the labs.

14. A description of any wastewater treatment processes, including, but not limited to, neutralization, oil/water separation, silver recovery and precipitation of solids or metals, etc. which the registrant utilizes or will utilize to achieve compliance with any of the effluent limits or conditions specified in Section 5(a) of this general permit.

    None.

Part VI: Additional Information and Supporting Documents

Check the applicable box below for each attachment being submitted with this registration form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

☒	Attachment A:	**Approval for Connection/Transport to a POTW (WPED-APPROVAL-001) (required for all registrations)**
☐	Attachment B:	*Coastal Consistency Review Form* (DEEP-APP-004), if applicable.
☐	Attachment C:	**Copy** of the completed *Request for NDDB State Listed Species Review Form* (DEEP-APP-007) and the NDDB response, if applicable.
☐	Attachment D:	**Conservation or Preservation Restriction Information:** if applicable
☐	Attachment E:	**Professional Engineer or Qualified Professional Engineer Certification** (see the certification requirements in Table 4-1 of the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater)
☐	Attachment F:	**Certified Hazardous Materials Manager or Qualified Certified Hazardous Materials Manager Certification** (see the certification requirements in Table 4-1 of the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater)
☒	Attachment G:	**Discharge Analysis** For existing discharges only, one screening analysis from the testing of a sample taken within 90 days of registration for pollutants, specified by Section 5(b)(1) of the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater, shall be submitted with the registration form.
☐	Attachment H:	**Subscriber Agreement** (www.ct.gov/deep/netdmr)

Part VII: Registrant Certification

The registrant must sign this part. A registration will be considered incomplete without this certification.

"I hereby certify that I am making this certification in connection with a registration under the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater, submitted to the commissioner by

Chemtura Corporation

for an activity located at 400 Elm Street and 12 Spencer Street, Naugatuck, CT 06770

and that such activity is eligible for authorization under such permit. I certify that the registration filed pursuant to such general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination required in accordance with Section 3(b)(9)(B) of such general permit and that my signing this certification constitutes conclusive evidence of my having made such affirmative determination. I certify that written approval from the POTW Authority with jurisdiction over the receiving POTW has been granted on a form provided by the commissioner. I certify that our facility does not use products or chemicals that may result in a discharge of mercury. I understand that the registration filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that the certification made pursuant to Section 3(b)(8) of this general permit may be subject to an audit by the commissioner in accordance with section 22a-430b of the Connecticut General Statutes, and that I will be required to provide additional information as may be requested in writing by the commissioner in connection with such audit, and the registration filed in connection with such general permit may be denied, revoked or suspended as a result of such audit. As part of such audit, I understand the commissioner may require that any information prepared in accordance with this general permit to be independently certified by a Qualified Professional Engineer or Qualified Certified Hazardous Materials Manager in accordance with this general permit and that such independent certification shall be at the registrant's expense. I understand that the reasonable cost of any such audit that reveals that a false certification was submitted to the commissioner may be charged to the registrant for this general permit for which such certification was made. I also understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Kate Balande	2/22/16
Signature of Registrant	Date
Kate Balanda	**EHS&S Specialist**
Name of Registrant (print or type)	Title (if applicable)

Part VIII: Preparer Certification

The individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided. If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.

"I hereby certify that I am making this certification in connection with a registration under the General Permit for Miscellaneous Discharges of Sewer Compatible Wastewater, submitted to the commissioner by

Chemtura Corporation

for an activity located at 400 Elm Street and 12 Spencer Street, Naugatuck, CT 06770

and that such activity is eligible for authorization under such permit. I certify that the registration filed pursuant to such general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(9)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I understand that the registration filed in connection with such general permit may be denied, revoked or suspended for engaging in professional misconduct, including but not limited to the submission of false or misleading information, or making a false or inaccurate certification. I understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Signature of Preparer (if different than above)	Date
Gilbert S. Ryan	2/22/16
Gilbert S. Ryan - Woodard & Curran	**Senior Project Manager**
Name of Preparer (print or type)	Title (if applicable)

☐ Check here if additional signatures are required. If so, please reproduce this sheet and attach signed copies to this sheet. You must include signatures of any person preparing any report or parts thereof required in this registration (i.e., professional engineers, surveyors, soil scientists, consultants, etc.)

Note: Please submit the completed Registration Form, Fee, and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Attachment A: Approval for Connection/Transport to a POTW

Part 1: The registrant must complete and sign Part 1.
Part 2 The form must then be submitted to the Publicly Owned Treatment Works (POTW, or sewage treatment plant) receiving the discharge for approval. Part 2 must be completed and signed by a responsible official of the POTW.
Part 3 Where a local sewer commission acts independently of the POTW (i.e. facilities that receive sewage from more than one town), the registrant ***must also*** have the local sewer commission approve the discharge. In this case, Part 3 must be completed and signed by a responsible official of the local sewer commission.

Part 1: ***The facility listed in this Part is seeking Authority from the Department of Energy and Environmental Protection to discharge wastewater to the sanitary sewer, or for such discharge to be transported to the POTW.***

Facility Name: **Chemtura Corporation**

Site Address: **400 Elm Street and 12 Spencer Street**

City/Town: **Naugatuck, CT 06770**

Facility is requesting approval to (check one):

☒ Connect to the Sanitary Sewer ☐ Truck Transport to the POTW

Discharge volume will not exceed **18,624** gallons per day.

Type of Discharge: **Various, see Part V.a.**

Kate Balande — Signature of Registrant

2/22/16 — Date

Part 2: ***To be completed by POTW (sewage treatment plant) receiving discharge whether by sewer line or truck transport:***

Name of Receiving POTW: Naugatuck WPCF

Address of POTW: 500 Cherry Street

City/Town: Naugatuck, CT

☒ Adequate hydraulic capacity to receive the discharge

Approved by: John Batorski — Signature

Feb. 22, 2016 — Date:

John Batorski — Name (please print)

Plant Manager. — Title

Part 3: ***To be completed by Local Sewer Commission (if separate from POTW) when seeking approval for connection to the sanitary sewer:***

Local Sewer Commission:

Address:

City/Town:

☐ Adequate hydraulic capacity to receive the discharge

Approved by:

Signature — Date:

Name (please print) — Title

Comments:

Chemtura Corporation - Naugatuck, CT

General Permit Registration Form for Miscellaneous Discharges of Sewer Compatible Wastewater

Attachment G - Discharge Analysis

Parameter	MISC General Permit Effluent Limit (mg/L)[1]	Group I Discharge Water Treatment Wastewater (Reverse Osmosis Reject Wastewater) (DSN 006) (mg/L)[1]
Sample Collection Date:		12/15/2015
pH[2]	5.0 - 12.0	8.29 S.U.
Copper, total	2.0	0.0234
Lead, total	0.5	ND <0.0150
Zinc, total	2.0	0.379

Notes:

1. Analytical results are in mg/L for all parameters except pH. The units for pH are standard units.
2. The pH of each sample was measured in the field using a YSI-63 pH probe.

Table 3

LIS Total Nitrogen Credit Exchange
Draft Balance - 2015

SELLING Credits		BUYING Credits	
Facility Name		Facility Name	
STAMFORD WPCF	$1,688,753	**NEW HAVEN EAST WPCF**	$2,525,311
WATERBURY WPCF	$686,447	**HARTFORD WPCF**	$1,033,579
MERIDEN WPCF	$425,237	WALLINGFORD WPCF	$303,350
NORWALK WPCF	$351,824	WINDSOR POQUONOCK WPCF	$200,539
FAIRFIELD WPCF	$243,670	MIDDLETOWN WPCF	$145,420
WEST HAVEN WPCF	$222,040	NORWICH WPCF	$117,744
STRATFORD WPCF	$193,816	VERNON WPCF	$104,479
BRANFORD WPCF	$156,366	FARMINGTON WPCF	$91,474
SOUTHINGTON WPCF	$153,239	ROCKY HILL WPCF	$88,086
WESTPORT WPCF	$148,417	BEACON FALLS WPCF	$66,351
DANBURY WPCF	$123,477	**GROTON TOWN WPCF**	$40,812
NEW CANAAN WPCF	$122,487	TORRINGTON WCPF	$40,655
ANSONIA WPCF	$110,003	**RIDGEFIELD SOUTH ST. WPCF**	$36,485
NAUGATUCK TREATMENT Co.	$100,074	CANTON WPCF	$16,418
GREENWICH WPCF	$99,032	**BRISTOL WPCF**	$13,604
MILFORD HOUSATONIC WPCI	$78,574	**EAST HAMPTON WPCF**	$13,552
MILFORD BEAVER BROOK WI	$75,082	NORTH CANAAN WPCF	$12,770
CHESHIRE WPCF	$54,911	THOMPSON WPCF	$12,197
NEW LONDON WPCF	$49,724	PLAINFIELD VILLAGE WPCF	$11,675
SHELTON WPCF	$33,176	PLAINFIELD NORTH WPCF	$10,581
SIMSBURY WPCF	$32,837	**EAST HARTFORD WPCF**	$8,418
THOMASTON WPCF	$32,837	PLYMOUTH WPCF	$7,036
NEWTOWN WPCF	$32,368	**STAFFORD SPRINGS WPCF**	$5,473
NORTH HAVEN WPCF	$31,273	UCONN WPCF	$5,082
MONTVILLE WPCF	$29,553	**WINSTED WPCF**	$3,753
BRIDGEPORT WEST WPCF	$26,582	NORFOLK WPCF	$912
GLASTONBURY WPCF	$25,540	SALISBURY WPCF	$912
ENFIELD WPCF	$19,806	SPRAGUE WPCF	$834
EAST WINDSOR WPCF	$15,350		
SEYMOUR WPCF	$13,969		
WINDHAM WPCF	$12,900		
SUFFIELD WPCF	$11,389		
BRIDGEPORT EAST WPCF	$11,076		
MANCHESTER WPCF	$9,408		
GROTON CITY WPCF	$8,913		
PLAINVILLE WPCF	$8,913		
WINDSOR LOCKS WPCF	$7,427		
LITCHFIELD WPCF	$7,297		
MATTABASSETT WPCF	$6,255		
STONINGTON PAWCATUCK WP(	$5,759		
STONINGTON MYSTIC WPCF	$5,629		
DERBY WPCF	$5,238		
NEW MILFORD WPCF	$4,795		
STONINGTON BOROUGH WPCF	$4,691		
PORTLAND WPCF	$4,170		
PUTNAM WPCF	$3,649		
JEWETT CITY WPCF	$2,658		
LEDYARD WPCF	$1,407		
SOUTH WINDSOR WPCF	$990		
NEW HARTFORD WPCF	$938		
KILLINGLY WPCF	$730		
TOTAL	**$5,500,696**	**TOTAL**	**$4,917,502**

Difference: Selling - Buying = $583,194

BOLD = Clean Water Fund Nitrogen Project Facility

The final balance (annual dollar amount) for each facility was calculated by subtracting the facility's 2015 TN loading as reported to DEEP, from the facility's General Permit 2014 limit; The difference was then multiplied by the E-factor for that facility to determine the number of credits available to sell or needed to purchase. Credits were then multiplied by the value of a credit ($7.14) to calculate the annual balance shown above.

Table 3

LIS Total Nitrogen Credit Exchange
PROJECTIONS - 2016 and 2017
Under the Self-Sufficient Program (Effective 2016)

SELLING Credits

Facility Name	2016 at $4.60	2017 at $4.48
STAMFORD WPCF	$807,857	$786,390
WATERBURY WPCF	$317,432	$308,997
MERIDEN WPCF	$234,547	$228,315
FAIRFIELD WPCF	$125,629	$122,291
STRATFORD WPCF	$100,151	$97,489
BRIDGEPORT WEST WPCF	$88,512	$86,160
BRANFORD WPCF	$87,672	$85,342
WESTPORT WPCF	$85,656	$83,380
WEST HAVEN WPCF	$84,649	$82,399
SOUTHINGTON WPCF	$69,130	$67,293
ANSONIA WPCF	$64,142	$62,437
NEW CANAAN WPCF	$63,822	$62,126
NORWALK WPCF	$62,143	$60,492
MILFORD BEAVER BROOK	$34,884	$33,957
NEW LONDON WPCF	$31,743	$30,900
CHESHIRE WPCF	$29,627	$28,840
SHELTON WPCF	$29,258	$28,480
NEWTOWN WPCF	$20,087	$19,553
THOMASTON WPCF	$17,131	$16,676
SIMSBURY WCPF	$15,720	$15,303
MONTVILLE WPCF	$14,511	$14,126
GREENWICH WPCF	$11,757	$11,444
GLASTONBURY WPCF	$10,077	$9,809
DANBURY WPCF	$9,271	$9,025
EAST WINDSOR WPCF	$9,254	$9,008
ENFIELD WPCF	$6,701	$6,523
MANCHESTER WPCF	$6,063	$5,902
NAUGATUCK TREATMENT	$5,039	$4,905
SUFFIELD WPCF	$4,468	$4,349
MATTABASSETT WPCF	$4,031	$3,924
DERBY WPCF	$3,376	$3,286
GROTON CITY WPCF	$2,721	$2,649
NEW MILFORD WPCF	$2,318	$2,256
JEWETT CITY WPCF	$1,999	$1,946
PORTLAND WPCF	$1,680	$1,635
STONINGTON BOROUGH WP(	$1,512	$1,471
STONINGTON PAWCATUCK	$1,142	$1,112
SEYMOUR WPCF	$1,125	$1,095
WINDHAM WPCF	$504	$490
PUTNAM WPCF	$470	$458
WINDSOR LOCKS WPCF	$319	$311
LEDYARD WPC	$302	$294
NEW HARTFORD WPCF	$0	$0
Sum	$2,468,432	$2,402,838

BUYING Credits

Facility Name	2016 at $7.15	2017 at $6.96
HARTFORD WPCF	$680,623	$662,536
WALLINGFORD WPCF	$263,063	$256,072
NEW HAVEN EAST WPCF	$234,878	$228,636
WINDSOR POQUONOCK	$201,812	$196,449
MIDDLETOWN WPCF	$167,546	$163,094
NORWICH WPCF	$138,108	$134,438
VERNON WPCF	$118,013	$114,877
ROCKY HILL WPCF	$87,166	$84,849
EAST HARTFORD WPCF	$73,386	$71,436
FARMINGTON WPCF	$62,477	$60,817
BEACON FALLS WPCF	$61,199	$59,572
BRISTOL WPCF	$47,915	$46,642
BRIDGEPORT EAST WPCF	$39,929	$38,868
GROTON TOWN WPCF	$37,580	$36,582
RIDGEFIELD SOUTH ST.	$33,927	$33,025
STAFFORD SPRINGS WPCF	$33,274	$32,390
CANTON WPCF	$29,125	$28,351
EAST HAMPTON WPCF	$21,400	$20,831
PLAINFIELD NORTH WPCF	$16,076	$15,649
PLYMOUTH WPCF	$15,972	$15,547
TORRINGTON WCPF	$14,093	$13,718
MILFORD HOUSATONIC	$13,988	$13,617
THOMPSON WPCF	$12,683	$12,346
NORTH CANAAN WPCF	$11,874	$11,559
NORTH HAVEN WPCF	$7,829	$7,621
SALISBURY WPCF	$7,307	$7,113
NORFOLK WPCF	$7,307	$7,114
PLAINFIELD VILLAGE WP(	$6,577	$6,402
UCONN WPCF	$5,872	$5,716
WINSTED WPCF	$4,698	$4,573
PLAINVILLE WPCF	$4,228	$4,115
KILLINGLY WPCF	$3,288	$3,201
SPRAGUE WPCF	$1,670	$1,626
SOUTHBURY TR. SCHOOL	$1,200	$1,169
STONINGTON MYSTIC WP	$940	$915
LITCHFIELD WPCF	$913	$889
SOUTH WINDSOR WPCF	$496	$483
	$2,468,432	$2,402,838

Self-Sufficient Program was approved under Public Act 15-38. The program consists of the buyers buying the credits they need to meet with their General Permit with those Payments being shared by the sellers proportionally. The 2016 year data is traded in 2017 and the 2017 data is traded in 2018.

Total Nitrogen Balance Sheet -2015 Monthly Averages by Plant

Plant	Limit	Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Zone 1														
GROTON CITY WPCF	99	80	94	95	129	77	71	83	74	54	50	103	66	59
GROTON TOWN WPCF	153	240	250	170	202	158	173	191	476	296	216	214	242	288
JEWETT CITY WPCF	15	9	15	28	13	6	7	5	4	3	3	6	5	8
KILLINGLY WPCF	131	129	176	242	244	249	134	87	46	62	85	78	87	53
LEDYARD WPCF	7	4	4	5	5	4	3	3	3	4	5	4	4	6
MONTVILLE WPCF	118	55	64	58	65	71	44	119	41	42	57	26	32	46
NEW LONDON WPCF	386	280	298	198	388	347	233	252	324	250	261	299	233	280
NORWICH WPCF	201	452	431	294	642	538	408	284	255	273	528	459	708	601
PLAINFIELD NORTH WPCF	34	63	70	78	124	117	41	38	28	37	33	63	64	65
PLAINFIELD VILLAGE WPCF	24	56	67	65	58	40	42	42	30	66	73	73	68	53
PUTNAM WPCF	53	43	76	73	110	72	19	24	23	18	19	27	23	32
SPRAGUE WPCF	7	9	13	14	14	11	7	12	5	6	2	9	3	12
STAFFORD SPRINGS WPCF	60	74	92	99	100	110	69	66	71	53	55	57	52	61
STONINGTON BOROUGH WPCF	14	4	4	4	6	4	3	5	5	4	2	4	3	3
STONINGTON MYSTIC WPCF	27	15	12	14	17	12	11	11	15	15	17	20	20	21
STONINGTON PAWCATUCK WPCF	24	11	12	11	14	14	10	9	11	6	11	11	10	13
THOMPSON WPCF	10	36	40	22	51	55	37	27	13	24	26	49	49	44
UCONN WPCF	44	57	81	87	119	90	36	25	18	16	46	53	43	65
WINDHAM WPCF	125	92	75	60	105	203	76	93	129	52	71	75	76	88
Zone 2														
BRISTOL WPCF	398	427	518	480	526	515	524	587	427	318	348	282	287	312
CANTON WPCF	24	59	65	51	87	81	86	68	49	36	40	48	43	58
EAST HAMPTON WPCF	54	80	103	95	96	79	54	52	55	81	122	68	73	80
EAST HARTFORD WPCF	292	309	453	375	360	354	291	265	274	272	251	276	272	260
EAST WINDSOR WPCF	59	28	27	37	27	26	24	33	37	17	19	41	23	26
ENFIELD WPCF	278	238	235	216	324	265	184	199	248	294	251	204	254	178
FARMINGTON WPCF	178	373	427	518	683	524	263	379	197	224	327	317	295	317
GLASTONBURY WPCF	98	49	65	49	50	44	54	50	33	41	44	35	64	62
HARTFORD WPCF	2377	4360	5076	4626	9170	7879	6103	5867	3597	2026	1846	1671	1922	2540
MANCHESTER WPCF	312	293	314	365	435	722	419	252	194	135	129	172	175	200
MATTABASSETT WPCF	834	822	1561	1864	1921	1661	417	504	378	307	385	268	275	326
MIDDLETOWN WPCF	222	500	525	510	774	696	680	468	395	311	362	398	389	488
NEW HARTFORD WPCF	3	1	1	1	1	0	1	1	1	1	1	2	0	1
PLAINVILLE WPCF	101	82	106	95	158	182	110	79	49	39	42	46	37	42

Total Nitrogen Balance Sheet -2015 Monthly Averages by Plant

Plant	Limit	Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
PLYMOUTH WPCF	42	57	76	110	78	85	72	71	28	34	13	31	46	37
PORTLAND WPCF	31	23	16	25	51	48	21	17	14	12	14	19	14	21
ROCKY HILL WPCF	288	457	432	437	544	537	376	501	461	454	490	418	408	425
SIMSBURY WPCF	107	37	46	41	38	45	42	43	43	36	24	28	26	30
SOUTH WINDSOR WPCF	106	104	111	101	109	91	113	99	101	104	101	101	100	115
SUFFIELD WPCF	45	22	29	22	28	29	16	32	29	14	9	11	16	29
VERNON WPCF	184	395	439	539	487	490	379	382	296	283	376	405	327	334
WINDSOR LOCKS WPCF	66	51	50	46	67	96	48	60	45	40	38	42	38	47
WINDSOR POQUONOCK WPCF	98	503	444	507	587	676	504	540	466	466	472	501	428	447
WINSTED WPCF	64	72	88	88	90	91	61	81	70	63	59	48	62	64

Zone 3

BRANFORD WPCF	192	92	70	67	128	136	87	95	94	84	115	71	64	89
CHESHIRE WPCF	103	60	64	102	63	120	42	42	52	42	44	54	34	55
MERIDEN WPCF	449	116	111	138	302	170	99	82	94	65	65	75	85	103
NEW HAVEN EAST WPCF	1568	3183	4500	3763	5218	4188	4358	4340	3916	3321	1476	1414	1024	679
NORTH HAVEN WPCF	158	138	154	134	143	170	134	138	139	107	108	138	148	148
SOUTHINGTON WPCF	204	84	72	104	64	178	79	63	64	86	57	49	62	124
WALLINGFORD WPCF	269	463	483	420	635	767	733	526	315	305	244	314	476	339
WEST HAVEN WPCF	353	211	252	270	304	231	172	154	140	170	180	263	195	201

Zone 4

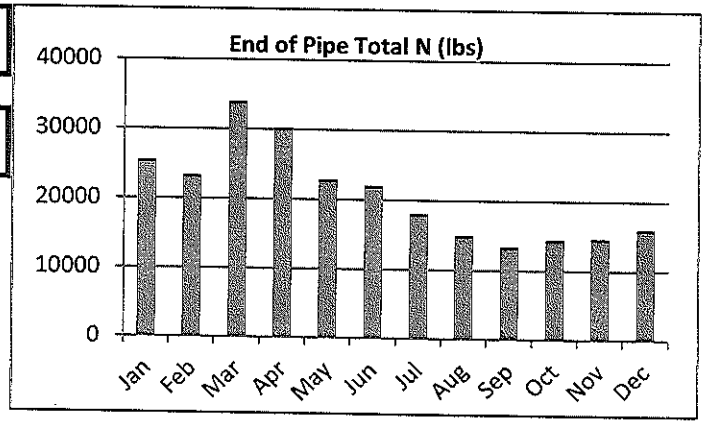
ANSONIA WPCF	115	52	96	92	64	64	43	39	36	35	33	40	38	39
BEACON FALLS WPCF	12	50	46	51	55	52	41	30	36	47	57	51	61	73
DANBURY WPCF	442	339	351	409	434	425	290	405	331	322	261	251	248	340
DERBY WPCF	71	68	97	64	76	70	69	72	48	42	80	44	53	95
LITCHFIELD WPCF	24	16	16	19	28	34	17	10	9	7	8	12	14	14
MILFORD BEAVER BROOK WPCF	94	51	59	95	78	50	35	28	44	47	41	42	54	37
MILFORD HOUSATONIC WPCF	307	262	571	386	644	328	215	142	210	116	152	113	114	149
NAUGATUCK TREATMENT Co.	246	182	236	218	230	271	218	160	150	186	124	117	130	145
NEW MILFORD WPCF	28	24	24	24	23	30	24	25	24	28	22	21	20	21
NEWTOWN WPCF	42	15	23	18	19	18	13	14	12	10	11	12	15	9
NORFOLK WPCF	11	12	12	9	18	19	14	9	11	6	4	6	16	20
NORTH CANAAN WPCF	13	27	23	29	30	42	26	33	29	18	16	21	27	32
SALISBURY WPCF	21	22	19	20	22	33	26	28	30	26	16	17	12	14
SEYMOUR WPCF	61	53	56	33	42	55	54	53	146	53	37	37	31	39

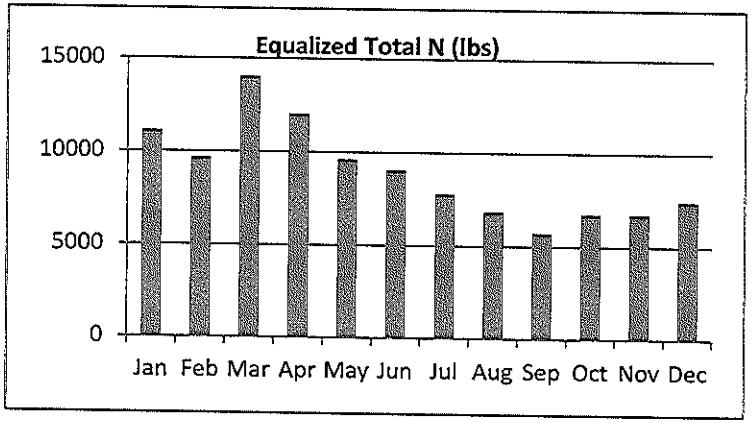
Total Nitrogen Balance Sheet -2015 Monthly Averages by Plant

Plant	Limit	Avg	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SHELTON WPCF	106	87	89	108	110	109	54	136	128	30	60	97	59	69
STRATFORD WPCF	356	245	271	293	583	531	187	141	116	166	179	181	163	132
THOMASTON WPCF	42	21	24	20	26	32	27	22	21	14	16	17	15	16
TORRINGTON WCPF	248	274	311	332	413	381	296	283	206	230	192	202	242	199
WATERBURY WPCF	1010	571	597	346	706	1094	546	668	499	368	343	740	442	500
Zone 5														
BRIDGEPORT EAST WPCF	362	357	455	479	679	303	333	209	141	241	304	405	311	426
BRIDGEPORT WEST WPCF	1041	1029	1472	812	1393	1065	583	735	549	603	516	1106	1606	1913
FAIRFIELD WPCF	406	296	349	295	324	364	401	262	284	203	252	253	228	332
WESTPORT WPCF	87	20	26	23	48	27	16	14	12	12	7	15	15	19
Zone 6														
GREENWICH WPCF	479	441	424	389	654	563	596	354	405	358	342	372	393	447
NEW CANAAN WPCF	64	17	25	16	41	31	11	8	12	8	7	11	14	17
NORWALK WPCF	718	583	582	463	775	571	538	572	524	615	542	650	550	615
RIDGEFIELD SOUTH ST. WPCF	29	43	51	73	77	41	36	39	31	27	31	39	36	36
STAMFORD WPCF	926	278	402	425	480	289	239	143	154	139	165	249	309	338
End of Pipe Total			**25494**	**23354**	**34026**	**30246**	**22918**	**22080**	**18070**	**15026**	**13430**	**14561**	**14666**	**16061**
Equalized Total			**11118**	**9684**	**14041**	**12036**	**9618**	**9055**	**7799**	**6867**	**5732**	**6776**	**6797**	**7449**

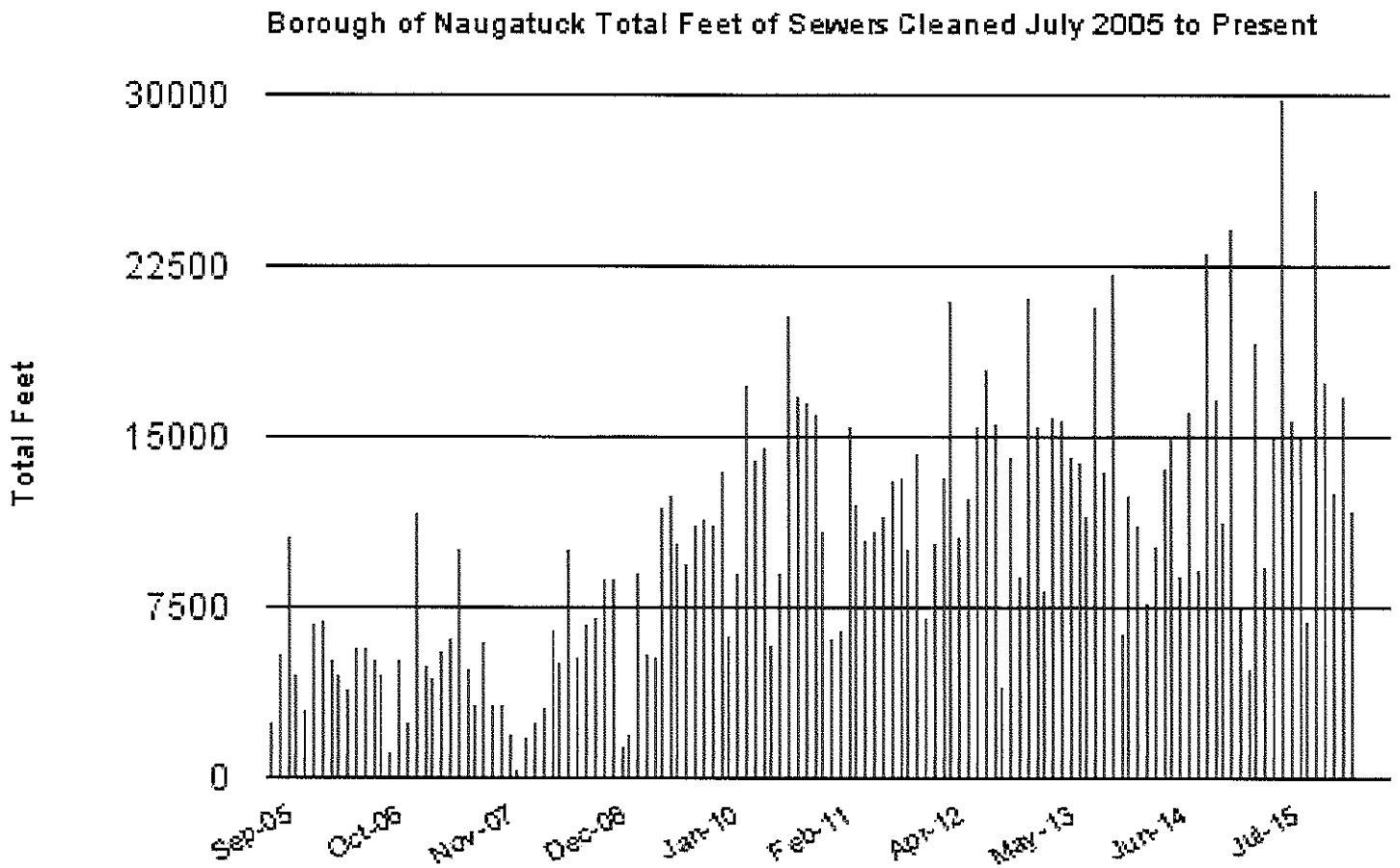
End of Pipe Permit = 18,450
End of Pipe Avg = 20,828

Equalized Permit = 9,148
Equalized Avg = 8,914

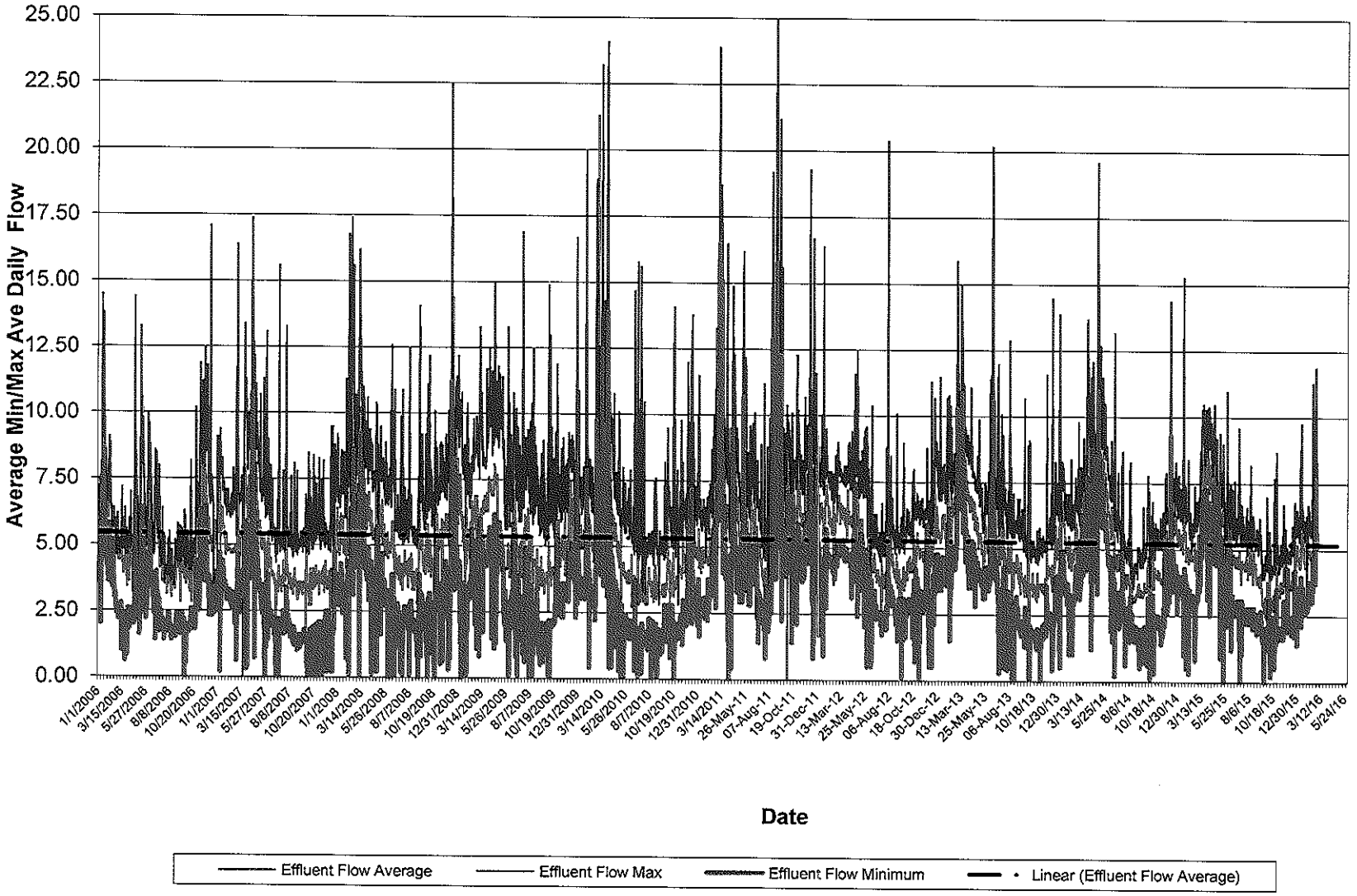
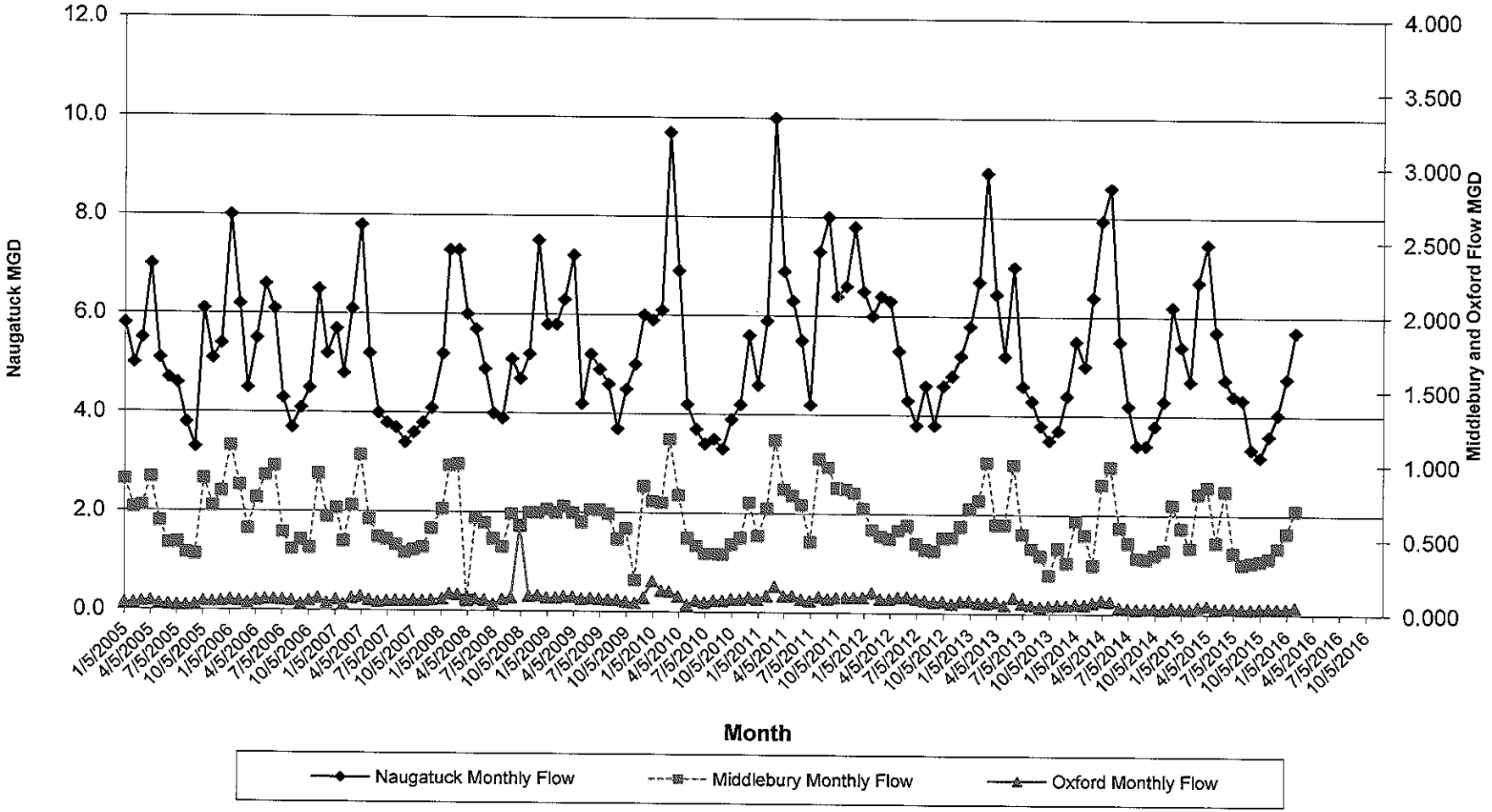




3/7/2016 2:29 PM


Borough of Naugatuck Total Feet of Sewers Cleaned July 2005 to Present
Total Feet
30000
22500
15000
7500
0
Sep-05
Oct-06
Nov-07
Dec-08
Jan-10
Feb-11
Apr-12
May-13
Jun-14
Jul-15

Naugatuck WPCF Daily Min/Max/Total Flow Data
2006 to Present MGD



Naugatuck, Middlebury and Oxford
2005 to Present
Monthly Average Flows