

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME WAUCONDA WWT/P, VILLAGE OF
 ADDRESS PO BOX 785
 101 NORTH MAIN STREET
 WAUCONDA IL 60084

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 ILO020109
 PERMIT NUMBER
 001 0
 DISCHARGE NUMBER

MAJOR (SUBR 02)
 F - FINAL
 STP OUTFALL
 EFFLUENT
 *** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

FACILITY WAUCONDA WWT/P, VILLAGE OF
 LOCATION WAUCONDA IL 60084

MONITORING PERIOD
 FROM YEAR 05 MO 05 DAY 01 TO YEAR 05 MO 05 DAY 31

VILLAGE OF WAUCONDA
 JUN 13 2005

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. OF ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	PERMIT REQUIREMENT	*****	*****		7.16	*****	7.49	0	252	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****		5.0 MINIMUM	*****	9.0 MAXIMUM	0	252	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	36.6	72.9	(26)	*****	2.52	4.40	0	252	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	400 MD AVG	BOI DAILY MX	(26)	*****	1.2 MD AVG	24 DAILY MX	0	252	COMPOS
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	20.9	59.9	(26)	*****	1.429	4.248	2	240	CP
00610 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	40 MD AVG	100 DAILY MX	(26)	*****	1.2 MD AVG	5.0 DAILY MX	0	252	COMPOS
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	0.3599	0.7111	(26)	*****	0.026	0.054	0	252	CP
01042 1 0 2 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1.1 MD AVG	1.8 DAILY MX	(0.3)	*****	0.0327 MD AVG	0.0544 DAILY MX	0	105	COMPOS
THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.677	2.569	(0.3)	*****	*****	*****	0	105	RC
50050 1 0 2 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MD AVG	REPORT DAILY MX	MGD	*****	*****	*****	0	252	GR
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	(26)	*****	0.02	0.05	0	252	GR
50060 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	LBS/DY	*****	*****	*****	0	252	GRAB
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	*****	LBS/DY	*****	*****	*****	0	252	GR
74055 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	0	252	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER										
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.										
Jacob M. Mann Water Reclamation Foreman										
TYPED OR PRINTED										
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
TELEPHONE										
DATE										
AREA CODE NUMBER YEAR MO DAY										
847, 5269612 05 06 09										

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 DMF LOAD LIMITS DISPLAYED.



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 FACILITY WAUCONDA WWTP, VILLAGE OF
 LOCATION WAUCONDA IL 60084

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 05 05 01 05 05 31

MAJOR (SUBR 02)
 F - FINAL
 STP OUTFALL
 EFFLUENT
 *** NO DISCHARGE ***
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PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
BOD, CARBONACEOUS	SAMPLE MEASUREMENT	51.0	108.0	(26)	*****	3.54	6.82	(19)	0	252	CP
05 DAY, 20C	PERMIT REQUIREMENT	334	657		*****	10	20				
80082 1 0 0	SAMPLE MEASUREMENT	MD AVG	DAILY MX	LBS/DY		MD AVG	DAILY MX	MG/L			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT										
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 YEAR MO DAY TO YEAR MO DAY
 05 05 01 TO 05 05 31

MAJOR (SUBR 02)
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 INTERMITT DISCH
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PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	*****	(26)	*****	*****	(19)			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	LBS/DY	*****	*****	MO AVG			
PH	SAMPLE MEASUREMENT	*****	*****		*****	*****	MO AVG			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	LBS/DY	*****	*****	MO AVG			
SOLIDS, TOTAL	SAMPLE MEASUREMENT	*****	*****	(26)	*****	*****	MO AVG			
SUSPENDED	PERMIT REQUIREMENT	*****	*****	LBS/DY	*****	*****	MO AVG			
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	(26)	*****	*****	MO AVG			
CHLORINE, TOTAL RESIDUAL	PERMIT REQUIREMENT	*****	*****	LBS/DY	*****	*****	MO AVG			
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	(13)	*****	*****	MO AVG			
COLIFORM, FECAL GENERAL	PERMIT REQUIREMENT	*****	*****	MG/L	*****	*****	MO AVG			
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	(13)	*****	*****	MO AVG			
FLOW, TOTAL	PERMIT REQUIREMENT	*****	*****	MGAL	*****	*****	MO AVG			
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	(3R)	*****	*****	MO AVG			
B2220 1 0 1	PERMIT REQUIREMENT	*****	*****	MGAL	*****	*****	MO AVG			
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	MGAL	*****	*****	MO AVG			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Jacob M. Mann
 Water Reclamation Foreman
 TYPED OR PRINTED
 COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 NUMBER OF DAYS OF DISCHARGE:
 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.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 [Signature]
 TELEPHONE
 847.152.6961
 DATE
 05 06 09

AREA CODE NUMBER
 847.152.6961

YEAR MO DAY
 05 06 09

VILLAGE OF WAUCONDA
WASTEWATER TREATMENT PLANT
OPERATION DATA

DATE	DAY OF WEEK	TIME	OUTSIDE TEMP	STREAM TEMP	DO (mg/l)	FECAL (CFU/100 ml)	DO (mg/l) BASIN	FLOW RATE MGD
1	S							
2	M	8:30	40.6	57.7	6.16	1	6.34	1.7
3	T	8:30	35.4	53.3	6.14		5.97	1.7
4	W	8:30	54.5	57.4	5.97	0	6.39	1.8
5	R	8:30	56.8	58	5.58		5.25	1.8
6	F	8:30	56.3	58.4	5.25	1	5.15	1.9
7	S							
8	S							
9	M	8:30	62.4	60.2	4.64	2	4.49	1.6
10	T	8:30	68	60.1	4.55		4.51	1.8
11	W	8:30	50.9	60.3	5.63	104	5.23	3.2
12	R	10:30	47.3	58.9	6.08		5.99	1.8
13	F	8:30	48.4	58.9	5.89	9	6.25	2.6
14	S							
15	S							
16	M	8:30	51.4	59.5	6.89	1	7.21	2.9
17	T	8:30	61.7	59.6	6.28		6.66	1.3
18	W	8:30	67.5	59.9	5.78	0	6.26	1.7
19	R	8:30	59.5	59.9	6.28		6.25	2.9
20	F	8:30	53.1	60.1	7.28	15	6.52	3
21	S							
22	S							
23	M	8:30	69.4	60.7	5.38	1	6.32	1.7
24	T	9:30	64.2		5.41		6.32	1.4
25	W	8:00	64.2	60.4	5.38	0	6.1	1.9
26	R	8:30	65.1	60.4	6.99		6.78	1.6
27	F	8:30	68.4	61.1	5.68	0	6.23	1.7
28	S							
29	S							
30	M							
31	T	8:30	68	62.2	4.58	2	5.96	1.5
TOT.					121.82	136		
AVE.					5.800952	10.46154		
MIN.					4.55	0		
MAX.					7.28	104		

Village of Wauconda

Public Works

Mayor
Salvatore J. Saccomanno

Administrator
Daniel E. Quick

302 Slocum Lake Road
Wauconda, Illinois 60084
Phone 847.526.9610
Fax 847.487-8029

Superintendent of Streets
Jeff Maute

Superintendent of Water &
Water Reclamation
Betty Harrison

Date: June 9, 2005

To: IEPA, Attn: Compliance Assurance Section
Cc: Chris Kallis, Environmental Protection Specialist

From: Jacob Mann, Water Reclamation Foreman

Subject: Excursions for May

This letter pertains to NPDES permit #IL0020109. This also serves as a follow up to the letter that was sent out on May 26th, regarding the ammonia violation that had occurred on May 24th. NPDES permit #IL0020109 requires the Village of Wauconda to meet an ammonia concentration on the final effluent of 3.0 mg/l on a daily maximum basis. For that day the Water Reclamation Facility had a concentration of 4.248. On May 25th the Water Reclamation Facility had a concentration of ammonia of 2.979 mg/l. The following week the ammonia had continued to decrease. At the end of the month the ammonia concentration was down to 0.55 mg/l.

As a result of the concentrations on the 24th and 25th, the Water Reclamation Facility was unable to meet the monthly average of 1.2 mg/l that is required under NPDES permit #IL0020109. The average for the month was 1.429 mg/l. Without the two entries of the 24th and 25th the Water Reclamation Facility was in compliance with an average of 1.19 mg/l for ammonia.

The letter that was sent out on May 26th has a detailed list of events, causes, dates, and corrective procedures to help prevent this situation from happening in the future. Included with this is a copy of the letter that was sent out on May 26th. As of the first week in June, the average ammonia concentration was 0.654 mg/l. If there are any further questions, please feel free to call me (847) 526-9612. Thank you for your time.

Sincerely,

Jacob Mann

Village of Wauconda

Public Works

Mayor
Salvatore J. Saccomanno
Administrator
Daniel E. Quick

302 Slocum Lake Road
Wauconda, Illinois 60084
Phone 847.526.9610
Fax 847.487-8029

Superintendent of Streets
Jeff Maute
Superintendent of Water &
Water Reclamation
Betty Harrison

Date: May 26, 2005
To: Chris Kallis, IEPA Specialist
From: Jacob Mann, Water Reclamation Foreman
Subject: Ammonia Violation


On May 25th, I notified you of the fact that we had an ammonia violation for the day of May 24th. NPDES permit #IL0020109 requires us to meet an ammonia level of 3mg/l for a daily maximum. The day of the violation the ammonia level was 4.248 mg/l. For the month of April 2005, our ammonia levels were on average 0.781 mg/l. The daily maximum for that month was 1.906 mg/l. The following is recent history of why the ammonia levels began to increase.

- Copper levels on our effluent for the month of April were 0.023 mg/l on average, and a daily maximum of 0.036 mg/l.
- Copper levels on our effluent for May 2nd were 0.054 mg/l. This was double of any daily maximum for this year. On the very same day, ammonia levels began to double in concentration on our trickling filters (this is our source of nitrification).
- By May 6th we began to see the effects of the trickling filters in our final effluent. The ammonia average doubled from 0.781 mg/l, to 1.433 mg/l. This took place on the week beginning May 2nd. During this week the Water Reclamation Staff began to increase the amounts of recirculation coming off each tower, and recirculation off one of the final clarifiers. Diluted flows would lessen the amount of BOD and ammonia loads to each filter. This is a troubleshooting practice used in past years that proved to be very successful in lowering amounts of ammonia of the tower effluent. This technique proved again to be successful because the ammonia levels began to decrease significantly.
- On average, the ammonia on the towers and final effluent is tested three times a week, by May 11th, the testing increased to every day.

- On May 16th, the Reclamation Facility began to have our sludge pressed and hauled off site by Synagro Midwest Inc. In years past the filtrated water that is generated (approximately 100,000 gals/day, all of which comes back to the head of the facility) is high in BOD and Ammonia levels. On average the BOD of the filtrated water is between 400-600 mg/l (two to three times higher than the raw influent), and the Ammonia is between 50-150 mg/l (two to seven times higher than the raw influent). To combat these levels one of the excess flow clarifiers was put on line. This would double the detention times of our primary effluent, lighten the load of BOD on each filter, and allow the operators better control of loading to each filter (50%-50% split to each filter). At this time recirculation was increased again.
- In subsequent days following the start of sludge pressing, our ammonia levels began to increase again on the towers and final effluent. By May 24th we had the ammonia violation.
- Through the use of microscopic examination performed by Environmental Quality Coordinator Cathy White, it was found that the towers were organically overloaded with BOD. As a result the nitrification process was inhibited. These tests were performed on May 13th, 20th, and 23rd. By May 25th and 26th the examinations began to provide information that the towers were beginning to recover from the upset. This was later proved by a decrease on our ammonia levels.
- It is my opinion that the nitrifying bacteria in the towers were stressed by a possible copper overload at the beginning of the month. As soon as the towers began to recover the towers were then put under additional stress by the heavy organic load that is provided by Synagro's sludge press. The operators made every attempt to limit the amount of load on the towers by doubling the detention time of our primary effluent, and by tripling the amount of recirculation to each tower.
- Corrective actions are: 1) Thought will be given to find the feasibility of having the final sludge hauled off site in a liquid form. This would eliminate the filtrated water generated by Synagro's sludge press. 2) Copper which is preserved and tested in bi-monthly batches will now be collected, preserved, and tested weekly to help in case there is a possible toxic load. This would allow the operators to make adjustments and prevent future violations. 3) Copper sampling on industries has already begun and will continue to intensify. The Reclamation Staff has already coordinated with Cathy White on possible industrial violators. Specific industrial zones have broken down into quadrants, and are being monitored for copper.

Please feel free to call if there are any questions. I can be reached at (847) 526-9612. Thank you for your time.

Jacob Mann



Cc: IEPA, Compliance Assurance Section
Salvatore Saccomanno, Village Mayor
Dan Quick, Village Administrator
Cathy White, Environmental Quality Coordinator
Betty Harrison, Water Reclamation Superintendent