



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

Re: **Notice of Violation**  
Ashland County  
Cinnamon Lake  
NPDES Permit

March 29, 2013

Mr. Eugene Sheridan  
Cinnamon Lake Utilities Association  
1443 Laurel Drive  
West Salem, Ohio 44287

Dear Mr. Sheridan:

On March 7, 2013, an inspection was made of the wastewater treatment facilities serving the Cinnamon Lake subdivision located at 1443 Laurel Drive, West Salem, Ashland County. Mr. Glenn Goff of the utility staff was present during the inspection. The inspection was made in response to a complaint our office received regarding the surface sand filters overflowing.

Mr. Goff indicated during the inspection and in a subsequent email that the treatment plant staff siphoned water off of the sand filter beds in an effort to drain them to allow for solids to be removed. The filters became plugged with solids following a high flow event on February 27, 2013. Water was being siphoned out of the filter beds and allowed to flow across the ground to the former tertiary pond. This is a **violation** of the conditions of your National Pollutant Discharge Elimination System (NPDES) permit. None of the treatment system units shall be bypassed. Following the completion of the upgrades and the flow rerouting, the pond is no longer considered part of the treatment plant. No flow or material of any kind should be allowed to enter the pond from the waste water plant.

On January 10, 2013, the waste water plant experienced a raw bypass event from the sanitary manhole upstream of the screening chamber that entered a storm sewer and subsequently Muddy Fork of the Mohican River. The bypass event was caused by high flows to the treatment plant. The bypass represents an unauthorized discharge from the treatment plant and is a **violation** of your NPDES permit, state, and federal laws.

A review of the facility's discharge monitoring reports submitted to our office for the months of September 2012 through February 2013 revealed several **violations** of the limits contained in your NPDES permit. A printout of these violations has been enclosed for your review. These violations can reasonably be attributed to the solids being "washed out" onto the filter beds. Once excessive solids flood the filters, they begin to decompose and release ammonia.

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As you can see from the above examples, continued diligence is required on behalf of Cinnamon Lake in order to address the causes and sources of the inflow and infiltration (I/I) that leads to excessive flows at the treatment plant. In order to assure that the I/I problem is corrected, our office is requiring a specific list of projects that Cinnamon Lake will be completing in the collection system. This list of projects shall be submitted to our office no later than April 30, 2013.

In 2004, Poggemeyer Design Group completed an I/I Study and Sewer Evaluation for the entire Cinnamon Lake sanitary sewer collection system. This report identified seven mini-basins within the collection system. Five of these seven mini-basins were identified as having excessive I/I and a Sanitary Sewer Evaluation Study (SSES) was recommended for these five mini-basins. The previous NPDES permit required that Cinnamon Lake complete an SSES for the five mini-basins. Annual reports submitted by Cinnamon Lake to our office under the previous NPDES permit appear to indicate that only a portion of this SSES work was completed. It will be beneficial to Cinnamon Lake to complete this SSES work and Ohio EPA will require that it be finished. It appears that a portion of three of the mini-basins was jetted and televised. No major sanitary main repair work appears to have been completed as a result of the previous investigations.

Included in the list of I/I projects that you are required to submit as stated above, our office is requiring a summary of the work completed on the SSES to date. We will also expect Cinnamon Lake to reinstate the SSES investigatory work of the remaining mini-basins. A timeline to complete the SSES should be included in your response to our office.

We look forward to working with you to continue your efforts on I/I removal and addressing high flows at the waste water treatment plant (WWTP). If you have any questions, please call me at 419-373-3070.

Sincerely,



Walter Ariss, P.E.  
Environmental Specialist II  
Division of Surface Water

/jlm

Enclosures

cc: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION  
 WWTP'S LESS THAN 150,000 GPD

NPDES Permit No. 21200009

Facility Name Cinnamon Lake WWTP Expiration Date 4/30/15  
 Facility Location 6065 Cinnamon Dr Date 3/7/13 Time 10:20 AM  
 City West Salem County Ashland Township \_\_\_\_\_  
 Name of Owner \_\_\_\_\_ Owner Phone \_\_\_\_\_  
 Person Contacted Oleg Goff Operator of Record \_\_\_\_\_  
 Flow Design 150,000 GPD WWTP Classification: \_\_\_ A or \_\_\_ I - class II  
 Trib. Pop. \_\_\_\_\_ (actual - estimated) Weather at time of inspection: Temp 35° - clouds  
 OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	Turbidity	Odor	Color
0	None	<input checked="" type="checkbox"/> Clear	<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> Colorless
1	Mild			
2	Moderate	Light Solids	Musty	Grey
3	Serious			
4	Extreme	Heavy Solids	Septic	Black

2. Effect of Effluent on Receiving Stream Name: Muddy Fork Mohican - not observed

No.	Severity Description	Turbidity	Odor	Color
0	None	Clear	None	Colorless
1	Mild			
2	Moderate	Light Solids	Musty	Grey
3	Serious			
4	Extreme	Heavy Solids	Septic	Black

3. a. Plant has \_\_\_\_\_ excellent \_\_\_\_\_ good  fair \_\_\_\_\_ poor operation  
 b. Plant has \_\_\_\_\_ excellent  good  fair \_\_\_\_\_ poor maintenance  
 c. Sand filters have \_\_\_\_\_ excellent \_\_\_\_\_ good  fair \_\_\_\_\_ poor maintenance- N/A  
 d. Not operating at expected efficiency due to:

- (1)  hydraulic overload  
 (2)  organic/solids overload  
 (3) \_\_\_\_\_ personnel inefficiency  
 (4) \_\_\_\_\_ equipment failure  
 (5) \_\_\_\_\_ wastes  
 (6) \_\_\_\_\_

Disinfection: (Required May 1 thru Oct. 31)	
IN	OUT
_____	_____
_____	_____
_____	<input checked="" type="checkbox"/>

Chlorination Tablets  
 Dechlorination Tablets  
 Ultraviolet (U.V.)

Yes No

4.  Compliance with NPDES Permit

Periodic Violations  Y  N Parameters: ammonia overflows

Chronic Violations \_\_\_\_\_

5.  D & M logbook kept and available on site: Location at WWTP of Lab

6.  Staffing Requirement Met (Class A - 2 days per week for minimum 1 hour per week)  
 (Class I - 3 days per week for minimum 1.5 hours per week)

7.  Adequate Plant Safety: Deficiencies \_\_\_\_\_

Facility Name: Cinnamon Lake

Process	# Units	Unit	If Needed -- Description and Comments
Preliminary		Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
	X	<del>Bar Screen</del> Fine Screen	okay
		Comminutor	
Aeration Equipment	X	Flow Equalization being drained	about 3' of water
		Plant Timer <u>Y</u> <del>X</del> N Motor / Blower Unit <u>running</u>	Cycle Time:
Secondary Treatment		Aeration Tank	Color: good color Adequate Aeration <input checked="" type="checkbox"/> N
Final Settling		Clarifier	good clarity
		Sludge Return	In <input checked="" type="checkbox"/> Out
		Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter 3 beds packed - 1 bed being cleaned	evidence in grass of water pumped off filters
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	out
Flow Metering		Elapsed Pump Time	
	X	Recorder (continuous total)	okay
Pumps	X	Raw Wastewater (type) <u>submersible</u>	okay
	X	Sand Filter Effluent Dosing	okay
Sludge Handling	X	Aerated Storage Tank	hauling liquid to Ashland
	X	Sludge Drying Bed <u>mostly empty</u>	using first bed for sand filter sludge
Sludge Disposal	X	Municipal POTW	Ashland WWT
	X	Landfill	Noble Rd
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

## Cinnamon Lake WWTP NPDES permit limit violations September 2012 through February 2013

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00009*KD	January 2013	001	00530	Total Suspended Solids	1D Conc	18.0	36.	1/9/2013
2PR00009*KD	January 2013	001	00530	Total Suspended Solids	1D Qty	10.2	12.5359	1/9/2013
2PR00009*KD	January 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	4.56	1/16/2013
2PR00009*KD	January 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	2.6	2.7788	1/16/2013
2PR00009*KD	February 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	4.115	2/1/2013
2PR00009*KD	February 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	1.7	2.52905	2/1/2013
2PR00009*KD	February 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	8.29	2/12/2013
2PR00009*KD	February 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	2.6	4.42425	2/12/2013
2PR00009*KD	February 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	2.6	4.30445	2/27/2013