



**Environmental
Protection Agency**

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

Re: Ashland County
Cinnamon Lake
NPDES Permit

July 27, 2012

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

Dear Mr. Sheridan:

On July 16, 2012, an inspection was made of the wastewater treatment facilities serving the Cinnamon Lake subdivision located at 1443 Laurel Drive, West Salem, Ashland County. Two members of the utility staff were present during the inspection.

At the time of the inspection, all major treatment units were in service and appeared to be functioning normally. The new flow equalization tank, sludge digesters, and UV system have been completed. The flow EQ tanks have been used at various times during construction and contained a minimal amount of water in the bottom. The new sludge digesters have yet to be used. The UV system was operational.

Removal of the sand within the filter beds has begun. It was determined that the gravel media beneath the sand appears to be in good shape and does not require replacing, except if questionable areas are discovered while removing the sand from the other beds. The former drain stand pipes in the filter beds should be cut off even with the gravel layer and glued shut with a permanent cap.

The new influent screen was installed but not yet operational. Several of the controls and electronics for the new equipment were installed but still need calibrated and quality checked. The new outfall pipe was put in service during the inspection. An outfall sign still needs constructed at the new discharge location.

It is anticipated the construction will be completed by August 1, 2012. You are required, as a condition of your National Pollutant Discharge Elimination System (NPDES) permit compliance schedule, to contact our office within seven days of construction completion.

A review of the facility's discharge monitoring reports submitted to our office for the months of April through June 2012 revealed numerous **violations** of the limits contained in your NPDES permit. A summary of these violations is enclosed on a separate sheet. Please be aware that the facility is currently in significant non-compliance with the effluent limits contained in the NPDES permit. The completion of the flow EQ tanks and other upgrades should help prevent future violations. If compliance does not improve, enforcement action is an option for our Agency to achieve compliance.

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

Get New Data		Cinnamon Lake WWTP NPDES permit limit violations April through June 2012						
Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	30D Conc	12.0	20.75	4/1/2012
2PR00009*KD	April 2012	001	80082	CBOD 5 day	30D Conc	10.0	19.	4/1/2012
2PR00009*KD	April 2012	001	00400	pH	1D Conc	9.0	9.12	4/6/2012
2PR00009*KD	April 2012	001	80082	CBOD 5 day	1D Conc	15.0	18.	4/11/2012
2PR00009*KD	April 2012	001	00400	pH	1D Conc	9.0	9.36	4/12/2012
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	1D Conc	18.0	64.	4/17/2012
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	1D Qty	10.2	12.112	4/17/2012
2PR00009*KD	April 2012	001	80082	CBOD 5 day	1D Conc	15.0	40.	4/17/2012
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	1D Conc	18.0	22.	4/18/2012
2PR00009*KD	April 2012	001	00400	pH	1D Conc	9.0	9.9	4/21/2012
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	1D Conc	18.0	25.	4/25/2012
2PR00009*KD	April 2012	001	80082	CBOD 5 day	1D Conc	15.0	24.	4/25/2012
2PR00009*KD	April 2012	001	00400	pH	1D Conc	9.0	9.79	4/28/2012
2PR00009*KD	April 2012	001	00530	Total Suspended Solids	1D Conc	18.0	56.	5/1/2012
2PR00009*KD	May 2012	001	00530	Total Suspended Solids	30D Conc	12.0	20.5	5/1/2012
2PR00009*KD	May 2012	001	00530	Total Suspended Solids	1D Qty	10.2	15.6850	5/1/2012
2PR00009*KD	May 2012	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.12	5/1/2012
2PR00009*KD	May 2012	001	80082	CBOD 5 day	1D Conc	15.0	26.	5/1/2012
2PR00009*KD	May 2012	001	80082	CBOD 5 day	30D Conc	10.0	15.5	5/1/2012
2PR00009*KD	May 2012	001	80082	CBOD 5 day	1D Conc	15.0	17.	5/2/2012
2PR00009*KD	May 2012	001	00400	pH	1D Conc	9.0	9.78	5/5/2012
2PR00009*KD	May 2012	001	00530	Total Suspended Solids	1D Conc	18.0	32.	5/8/2012
2PR00009*KD	May 2012	001	00530	Total Suspended Solids	1D Qty	10.2	12.2331	5/8/2012
2PR00009*KD	May 2012	001	80082	CBOD 5 day	1D Conc	15.0	16.	5/8/2012
2PR00009*KD	May 2012	001	00400	pH	1D Conc	9.0	9.5	5/11/2012
2PR00009*KD	May 2012	001	80082	CBOD 5 day	1D Conc	15.0	16.	5/15/2012
2PR00009*KD	May 2012	001	00530	Total Suspended Solids	1D Conc	18.0	22.	5/16/2012
2PR00009*KD	May 2012	001	00400	pH	1D Conc	9.0	9.55	5/18/2012
2PR00009*KD	May 2012	001	00400	pH	1D Conc	9.0	9.5	5/24/2012
2PR00009*KD	June 2012	001	00530	Total Suspended Solids	30D Conc	12.0	12.25	6/1/2012
2PR00009*KD	June 2012	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	1.01	6/1/2012
2PR00009*KD	June 2012	001	00530	Total Suspended Solids	1D Conc	18.0	28.	6/5/2012
2PR00009*KD	June 2012	001	00530	Total Suspended Solids	1D Conc	18.0	26.	6/6/2012
2PR00009*KD	June 2012	001	00530	Total Suspended Solids	1D Conc	18.0	22.	6/19/2012
2PR00009*KD	June 2012	001	00610	Nitrogen, Ammonia (NH3	1D Conc	1.5	1.99	6/21/2012

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PR00009

Facility Name Cinnamon Lake WWTP Expiration Date 4/30/15

Facility Address 6065 Cinnamon Dr Date 7/16/12 Time 10:30 am

City West Salem County Ashland Township _____

Name and Address of Owner _____

Person Contacted _____ Owner Phone _____

Flow: Design 150,000 GPD Present 40,000-100,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 80° sun

OEPA Personnel Walter Ariss District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	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

No.	Severity Description	No.	Turbidity	No.	Odor	No.	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

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

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
_____	_____ Chlorination Tablets
_____	_____ Dechlorination Tablets
<input checked="" type="checkbox"/>	_____ U.V.

Yes No

4. Compliance with NPDES Permit Y N Parameters: _____

Periodic Violations _____

Chronic Violations TSS, BOD, pH, NH₃, fecal

5. Adequate plant safety

6. Operation and Maintenance Service Name Operators from Lod!

Frequency of Visits 5/week

Facility Name: Chamorro Lake WWTTP

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: will be pumped before abandoning
		Grease Trap	Pumping Frequency:
	X	Bar Screen	1 manual / mechanical screen not in use yet in service
		Comminutor	
	X	Flow Equalization	Small amount of water in tank
Aeration Equipment		Plant Timer ___ Y ___ X N	Cycle Time:
	X	Motor/ Blower Unit	Blowers all okay
Secondary Treatment		Aeration Tank	Color: good color
	X		Adequate Aeration: Y X N ___
Final Settling	X	Clarifier - one air lift out for repairs	fairly good in all clarifiers
	X	Sludge Return	In X Out ___
	X	Surface Skimmer	In X Out ___
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	one bed in use / others having media replaced
		Polishing Pond	
		Other	
Disinfection		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	X	Ultraviolet (UV)	In use
Flow Metering	X	Elapsed Pump Time	
	X	Recorder (continuous total)	-Flow meters still need calibrated
Pumps	X	Raw Wastewater (type) submersible	okay - floats still need adjusted
	X	Sand Filter Effluent Dosing	okay
Sludge Handling	X	Aerated Storage Tank	new tanks complete low level tank full
	X	Sludge Drying Bed	okay - 2 beds fairly full
Sludge Disposal		Municipal POTW	
	X	Landfill	
		Land Application	
Advanced Treatment	X	Post Aeration	Serpentine weir
		Spray Irrigation	
		Other	