



Environmental
Protection Agency

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

Re: Huron County
Christie Lane School/Workshop
NPDES Permit 2PT00041

April 20, 2011

Mr. John Schwartz
Christie Lane School
302 South Norwalk
Norwalk, Ohio 44857

Dear Mr. Schwartz:

On March 22, 2011, Jessica Heitman and I conducted an inspection of the wastewater treatment facilities serving the Christie Lane School and Workshop, currently operating under National Pollutant Discharge Elimination System Permit (NPDES) No. 2PT00041*BD. You and Mr. Darryl Young were present and provided information on the maintenance and operation of the plant. Our observations and recommendations are as follows:

1. At the time of inspection the aeration tank was being aerated. The contents were light brown and the amount aeration appeared adequate. It was indicated that blowers were recently serviced and that the plant is now being operated on a timer. Currently the timer shuts the blowers off at 10:p.m. each evening and restarts them at 4:00 a.m. the next morning.
2. The water in the clarifier appeared grey and murky. Mr. Young indicated that the clarifier had recently been pumped down in order to replace the sludge return piping which had recently broken and fallen to the bottom of the tank. The surface skimmer piping was also replaced.
3. The sand filters had recently been switched. At the time of our visit the south filter was in use and the north filter was drying out so the solids could be removed.
4. During the inspection Mr. Young indicated that there is not a good place to take a sample of the final effluent due to the de-chlorination unit being installed directly on the effluent pipe. To address this issue you may want to consider installing a sampling port of the chlorination/de-chlorination tank. Another possible solution would be to replace the current tablet chlorination/de-chlorination system with a small Ultra Violet (UV) light disinfection system.

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5. A UV light system could be retrofitted into the existing tank and would allow you to sample the effluent prior to its discharge from the tank. However, please be aware that a Permit to Install (PTI) needs to be submitted and approved by Ohio EPA prior to installation of a UV system.
6. During the inspection you indicated that the east plant blower system had not been operating properly. It was determined that there were some electrical issues that have since been repaired.
7. A review of the operators log book was conducted and it appeared to have all of the information required by OAC 3745-7-09. This includes a description of operation and maintenance activities as well as notation of the arrival and departure times of the operator of record. The log book is stored in the control panel box and is available onsite for inspection by Ohio EPA personnel.
8. A review of the September 2010, thru February 2011, discharge monitoring reports (DMR) shows effluent limit violations of Total Suspended Solids and Nitrogen Ammonia (NH3) parameters of your permit in November, January and February. A copy of the violations is enclosed.

We appreciate the recent efforts that have been made in order to improve compliance with the final effluent limits of the NPDES permit.

If you have any questions regarding the inspection or this letter, please contact me at (419) 373-3003 or via email at andrew.gall@epa.state.oh.us

Sincerely,



Andrew Y. Gall
Environmental Specialist II
Division of Surface Water

/llr

Enclosures

pc: Mr. Darryl Young
Huron County Health Department

~~DSW=NWDO File w/enclosure~~

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00041*BD	September 2010	001	31616	Fecal Coliform	7D Conc	2000	7200.	9/8/2010
2PT00041*BD	November 2010	001	00530	Total Suspended Solids	30D Conc	12	34.	11/1/2010
2PT00041*BD	November 2010	001	00530	Total Suspended Solids	30D Qty	0.28	.36677	11/1/2010
2PT00041*BD	November 2010	001	00530	Total Suspended Solids	7D Conc	18	34.	11/15/2010
2PT00041*BD	January 2011	001	00530	Total Suspended Solids	30D Conc	12	15.	1/1/2011
2PT00041*BD	February 2011	001	00530	Total Suspended Solids	30D Conc	12	16.	2/1/2011
2PT00041*BD	February 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	15.3	2/1/2011
2PT00041*BD	February 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.07	.17952	2/1/2011
2PT00041*BD	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	15.3	2/22/2011
2PT00041*BD	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.1	.17952	2/22/2011

OHIO ENVIRONMENTAL PROTECTION AGENCY
 OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PT00041

Facility Name Christie Lane School Expiration Date _____
 Facility Address 302 S. Norwalk Rd. Date 3/22/11 Time 10:00 am 1 pm
 City Norwalk County Huron Township Norwalk
 Name and Address of Owner 302 S. Norwalk Rd.
 Person Contacted Mr. John Schwartz Owner Phone 419-706-5137
 Flow: Design 6000 GPD Present 2000 GPD (metered - estimated)
 Trib. Pop. 150 - 200 people (actual - estimated) Weather at time of inspection: Temp _____ °
 OEPA Personnel Andrew Gall District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	<u>X</u>	Clear	<u>X</u>	None	<u>X</u>	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	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 X good _____ fair _____ poor operation
 b. Plant has _____ excellent _____ good X fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ good X 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		
_____	<u>X</u>	Chlorination Tablets	<u>Out of Season</u>
_____	<u>X</u>	Dechlorination Tablets	
_____	<u>X</u>	U.V.	

Yes No

4. X Compliance with NPDES Permit

Periodic Violations X N Parameters: TSS, NH3
 Chronic Violations _____

5. X Adequate plant safety

6. X Operation and Maintenance Service Name Darryl Young

Frequency of Visits At least 1/week

Facility Name: Christie Lane

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 750 gallons Feb 28
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	1	Plant Timer <u>X</u> Y <u> </u> N Motor/ Blower Unit 2 Blowers	Cycle Time: OFF on Sunday 4PM - 10 Blowers Recently serviced OFF at 10 AM on Sat 4 AM
Secondary Treatment	1	Aeration Tank	Color: Very Light Brown/Grey Adequate Aeration: Y <u>X</u> N <u> </u>
Final Settling	1	Clarifier Murky, Grey	Pumped clarifier and removed trash from bottom
	1	Sludge Return	In <u>X</u> Out <u> </u> Leg broke off and repair
	1	Surface Skimmer	In <u>X</u> Out <u> </u> Skimmer Replaced
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	South Filter now online / sand checked 2 years ago North Filter off line
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	Out of season
	1	Chlorine Tube Feeder	"
	1	Dechlorination Tube Feeder	"
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	Water Meter Reading
Pumps		Raw Wastewater (type)	
	1	Sand Filter Effluent Dosing	2 pumps
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	Jim and Darryl at plant
Advanced Treatment		Post Aeration	at least once/week
		Spray Irrigation	
		Other	TSS envly violation in February