



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Rd.  
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468  
www.epa.ohio.gov

Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

Re: Marion County  
Ridgedale Local schools  
NPDES Permit

December 2, 2009

Board of Education  
Ridgedale Local Schools  
3105 Hillman-Ford Road  
Morral, Ohio 43337

Dear Board of Education:

On November 19, 2009 an operation and maintenance inspection was made of the wastewater treatment plant serving the Ridgedale Local Schools. The treatment plant is located at 3105 Hillman-Ford Road, in Section 31, Grand Prairie Township, Marion County. This inspection was conducted as part of your facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PT00049\*AD.

At the time of the inspection, the treatment facility was in operation. The contents of the aeration tanks were brown with good roll. The final discharge from the plant was visually clear. However, we did not collect effluent samples to determine the water quality of the discharge during our visit.

Listed below are some of our recommendations to enhance the plant's operation:

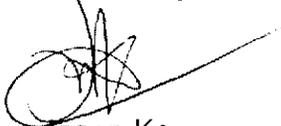
- 1) Continue to maintain a licensed/certified wastewater operator.
- 2) Continue to check the trash trap and pump it out as necessary.
- 3) The mixed liquor in the aeration tank appeared brown and is an indicator of a fairly healthy microbial population. Continue the current rate of aeration to maintain that color.
- 4) The skimmers must be adjusted so that they just break the surface tension of the liquid in the final clarifiers.
- 6) The weirs of the final clarifiers should be cleaned and leveled so that a moderate amount of liquid passes evenly over the total length of it.

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7) Continue to check that the sludge returns are returning activated sludge to the aeration tanks. If no activated sludge is being returned to the aeration tanks, then gently scrape the sides of the final clarifiers all around the hoppers with slow, easy, downward motions, just enough to help move the sludge toward the bottom of the hopper. This procedure should be done once a week and will increase the solids being returned to the aeration tanks and help turn the color in the aeration tanks to a darker brown.

Our review of your discharge monitoring reports (1/1/2008 to 11/1/2009) for this facility indicated a few effluent violations. Please refer to the enclosed violation table and share it with your operator of record. Our completed inspection form is enclosed for your review. Should you have any questions, please contact me at 419-373-3021.

Yours truly,

A handwritten signature in black ink, appearing to read 'Jason Ko', with a long horizontal line extending to the right.

Jason Ko  
Division of Surface Water

/csl

Enclosures

pc: Marion County Health Department  
NWDO File

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

NPDES Permit No. 2PT00049

Facility Name: Ridgedale Local Schools Expiration Date: March 31, 2011

Facility Address: 3105 Hillman- Ford Road Date: 11/19/2009 Time: 10:00 am

City: Morral County: Marion Township: Grand Prairie

Name and Address of Owner: Ridgedale School District Board of Education, 3105 Hillman-Ford Road, Morral, Ohio

Person Contacted: John Kincaid - Operator Owner Phone: (740) 386-3768

Flow Design: 20,000 GPD Present 8000 GPD (estimated)

Trib. Pop. \_\_\_\_\_ (estimated) Weather at time of inspection: Temp 50°F - cloudy

OEPA Personnel: Jason Ko District: NWDO

1. Plant Effluent - Mark Severity No.

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

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 X good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance  
 c. Sand filters have \_\_\_\_\_ excellent X good \_\_\_\_\_ fair \_\_\_\_\_ poor maintenance

d. Not operating at expected efficiency due to:

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

Disinfection: (Required May 1 thru Oct.31.)

IN      OUT  
 \_\_\_\_\_      \_\_\_\_\_ Chlorination Tablets  
 \_\_\_\_\_      \_\_\_\_\_ Dechlorination Tablets  
 \_\_\_\_\_      X      U.V

4. Yes \_\_\_\_\_ No X Compliance with NPDES Permit      Periodic Violations Yes \_\_\_\_\_ No X Parameters: see violation table  
 5. X \_\_\_\_\_ Adequate Plant Safety      Chronic Violation \_\_\_\_\_  
 6. X \_\_\_\_\_ Operation and Maintenance Service Name : John Kincaid

Frequency of Visits 1/week

Facility Name: Ridgedale Local Schools

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency: 2/year
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	2	Plant Timer ___Y ___X___ N Motor/ Blower Unit	Cycle Time: On ½ hour & OFF ½ hour
Secondary Treatment	2	Aeration Tank	Color : Brown; good roll Adequate Aeration: Y ___X___ N ___
Final Settling	2	Clarifier	w/ 3 hoppers
	3	Sludge Return	In ___X___ Out ___
	2	Surface Skimmer	In ___X___ Out ___
		Fixed Media Clarifier	
Tertiary Treatment	4	Surface Sand Filter	
		Polishing Pond	
		Other	
Disinfection		Chlorine Tube Feeder	
		Dechlorination Tube Feeder	
	1	Ultraviolet (UV)	OUT
Flow Metering	IN	Elapsed Pump Time	Hour meter at the dosing pumps
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	IN	Aerated Storage Tank	1 unit (2000 gallons)
		Sludge Drying Bed	
Sludge Disposal	IN	Municipal POTW	Haul to City of Marion
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Def. New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00049*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	4.52	2/5/2008
2PT00049*AD	February 2008	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3	4.52	2/1/2008
2PT00049*AD	September 2009	001	80082	CBOD 5 day	30D Conc	10	12.	9/1/2009