



Environmental
Protection Agency

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

Re: Erie County
Edison High School
Berlin-Milan Middle School
NPDES Permit/ Notice of
Violation

May 17, 2011

Mr. Bill Pahl, Interim Superintendent
Berlin-Milan Local Schools
140 South Main Street
Milan, Ohio 44846

Dear Mr. Pahl:

On April 14, 2011, an inspection was made of the sewerage facilities serving the Edison High and Middle Schools. Mr. Chris Rankin, Maintenance was present and provided information on facility operations. My comments and recommendations are as follows:

Edison H.S.- At the time of my visit both operation and maintenance appeared good and a clear final effluent was observed being discharged to the receiving stream. Mr. Rankin informed me that a baffle was installed in the clarifier, low flow fixtures were installed in the school and more environmentally friendly cleaning products are now being used. These are all positive actions.

A review of your NPDES monthly discharge monitoring reports since last inspection, indicate continued ammonia violations despite the above noted actions. A copy is enclosed for your review, as well as a copy of the NPDES schedule of compliance requiring improvements in the form of flow equalization and sludge holding equipment by December 1, 2010. A permit to install was obtained in February 2010, but the improvements have not been installed. Note that this permit to install will expire August 9, 2011. If you do not anticipate construction beginning prior to August, a one-year extension can be requested in writing prior to that date.

Please be aware that that the board is in violation of the compliance schedule, and is subject to possible enforcement action from this agency. Please notify me in writing or email within 21 days of receiving this letter with your plans to install the improvements.

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Middle School – Adequate operation and maintenance at this facility has been lacking in the past, however, Mr. Rankin has made great efforts in improving all aspects of plant operations. Both sand filters are scheduled to be renovated, and a motor/blower unit and EQ pump have been replaced. Water reduction efforts and cleaning product replacement have also been implemented at this school. A very clear final effluent was observed prior to discharge. NPDES monthly discharge monitoring reports also continue to indicate violations.

We appreciate Mr. Rankin's efforts to improve operations at these facilities. Enclosed are the completed inspection reports and list of violations. I will await your response regarding the High School improvements. If you have any questions, or feel a meeting is necessary to discuss these issues, please call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us.

Sincerely,



Richard A. Zuzik, MSE
Division of Surface Water

/cs

Enclosures

pc: Erie County Health Department
- DSW, NWDO File.

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PT00016*CD

Facility Name Berlin-Milan Middle School Expiration Date 11-30-13
 Facility Address 20 Center St Date 4-14-11 Time 11:30 (am/pm)
 City Berlin Heights County Crie Township Milan
 Name and Address of Owner Berlin Milan Board of Ed (419) 499-4625
 Person Contacted Chris Rankin, Maintenance Owner Phone (419) 541-1342
 Flow: Design 15,000 GPD Present 2000 GPD (metered/estimated)
 Trib. Pop. 650 (actual - estimated) Weather at time of inspection: Temp 50° Cloudy
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<u>0</u>	None		Clear		None		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: C. Branch Old Women's Creek - 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 _____ 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	<u>N/A</u>
_____	_____	Dechlorination Tablets	
_____	_____	U.V.	

4. Yes No Compliance with NPDES Permit (1/10 = 4/11) log book on-site ✓
 Periodic Violations _____ N _____ Parameters: _____
 Chronic Violations Ammonia ✓ _____
 5. Adequate plant safety
 6. Operation and Maintenance Service Name AKE, Chris Rankin
 Frequency of Visits Daily - Chris

Facility Name: Berlin-Milan Middle School

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	<i>IN</i> - replaced pump
Aeration Equipment		Plant Timer <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Cycle Time:
	2	Motor/ Blower Unit	1 new unit
Secondary Treatment	3	Aeration Tank	Color: <i>Dilute</i> very light Adequate Aeration: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> <i>loaded</i>
Final Settling	2	Clarifier	
	2	Sludge Return	In <input checked="" type="checkbox"/> Out
	2	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	1 ponded, to be renovated in Spring
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	
	1	Chlorine Tube Feeder	
	1	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

Get New Data

Permit No.	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PT00016*CD	January 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	6.43	1/1/2010
2PT00016*CD	January 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	6.43	1/27/2010
2PT00016*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	21.	2/1/2010
2PT00016*CD	February 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	21.	2/24/2010
2PT00016*CD	March 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	8.85	3/1/2010
2PT00016*CD	March 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	8.85	3/24/2010
2PT00016*CD	June 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.34	6/1/2010
2PT00016*CD	September 2010	001	50060	Chlorine, Total Residu	1D Conc	0.019	.05	9/29/2010
2PT00016*CD	October 2010	001	31616	Fecal Coliform	30D Conc	1000	1320.	10/1/2010
2PT00016*CD	October 2010	001	80082	CBOD 5 day	30D Conc	10	11.2	10/1/2010
2PT00016*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	6.35	12/1/2010
2PT00016*CD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	6.35	12/15/2010
2PT00016*CD	February 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	16.	2/1/2011
2PT00016*CD	February 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	4.5	16.	2/16/2011