Ohio | Environmental Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

1PT0003320080603

CLARK NORTHEASTERN HS LEIBFRITZ, SANDRA 2008/06/03

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Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

Tuesday, June 03, 2008

Richard Broderick, Superintendent
1480 Bowman Road
Springfield, OH 45502

Re: Northeastern High School – NPDES No. 1PT00033*AD/OH0040894
Notice of Violation – Self Monitoring Report – February through April 2008
Clark County

Dear Mr. Broderick:

On May 29, 2008, Sandra Leibfritz conducted an inspection at Northeastern High School located at 1414 Bowman Road, Springfield, Ohio. Joe and Brenda Sweeney were representing the school. All areas that were evaluated were rated as satisfactory. Details regarding the inspection may be obtained from the enclosed report.

This letter also serves as a Notice of Violation for the effluent violations reported for February through April 2008. During the inspection, we were informed that storm water is infiltrating into the underdrains of the sand filter causing total suspended solids violations. It is our understanding that the school will build a small berm on the north side of the plant to divert storm water around the plant to a small detention pond that ultimately discharges to a drainage ditch to the south side of the plant. We have reviewed your response addressing the reason for the violations and the action being taken to prevent further occurrences. No additional information is requested at this time except written notification to this office when the berm and pond has been construction.

During the period from April 1, 2007 through March 31, 2008, your flow data indicates that an average daily flow of 1,397 gallons per day is discharged from the plant. This seems unlikely since the plant was designed for 15,000 gallons per day based on the number of students and staff at your school. Please check your calculations on converting your water meter results from cubic feet to gallons per day. Please note that 1 cubic foot is equal to 7.48 gallons. Please note in the comment section of your e-DMRs, if necessary, when the flow calculations were corrected.

If you should have any questions about the inspection, please call Ms. Leibfritz at (937) 285-6104 or me at (937) 285-6034.

Sincerely,

Martyn G. Burt
Environmental Supervisor
Division of Surface Water

cc: Clark County Health Department
Joe & Brenda Sweeney, Operators

Permit # : 1PT00033*AD
NPDES #: OH0040894

State of Ohio Environmental Protection Agency
Southwest District Office

NPDES Compliance Inspection Report
Semi-Public Sewage Disposal Inspection Form

Section A: National Data System Coding					
Permit #	**NPDES#**	**Month/Day/Year**	**Inspection Type**	**Inspector**	**Facility Type**
1PT00033*AD	OH0040894	05/29/08	C	S	1

Section B: Facility Data		
Name and Location of Facility Inspected	**Entry Time**	**Permit Effective Date**
Northeastern High School 1414 Bowman Road Springfield, OH 45502	10:00 a.m.	July 1, 2003
	Exit Time	**Permit Expiration Date**
	11:45 p.m.	June 30, 2008
Name(s) and Title(s) of On-Site Representatives	**Phone Number(s)**	
Joe & Brenda Sweeney, Operators	*(937) 568-4534*	
Name(s), Address and Title(s) of Operator of Record	**Phone Number(s)**	
Brenda Sweeney 12121 Old Columbus Road South Vienna, OH 45369	(937) 568-4534	
Name, Address and Title of Responsible Official	**Phone Number**	
Richard Broderick, Superintendent 1480 Bowman Road Springfield, OH 45502	(937) 325-7615	

Ohio EPA Inspector	Ohio EPA Reviewer
Sandra D. Leibfritz 6/3/08	Martyn Burt 6/3/08
Sandra D. Leibfritz — Date Division of Surface Water Southwest District Office	Martyn Burt — Date Compliance & Enforcement Supervisor Division of Surface Water Southwest District Office

Average Daily Design Flow:	**15,000 Gallons/Day**
Plant Serves:	**N/E**
Average Daily Flow: (Period of Review):	**1,397 Gallons/Day (April 1, 2007 through March 31, 2008)**
Method of flow monitoring:	**Hour Meter on Dosing Pumps**
Type of alarms for plant:	**Visual (checked weekly)**

Equalization Basin

Two Pumps present: **Yes**
Both Pumps operational: **Yes**
Alarm present: **Yes**
Alarm operational: **Yes**
Maintenance of equalization basin is: **Satisfactory**

Comments/Status:

The alarm is visual. The alarm is check weekly by Joe Sweeney.

Pretreatment

Type of Pretreatment: **Trash Trap**
Does the Trash Trap need pumped: **No**
Maintenance of pretreatment components is: **Satisfactory**

Comments/Status:

Septage is hauled by Joe Sweeney and disposed of at the City of Springfield WWTP. Septage was hauled in approximately April 2008. Septage is hauled at least yearly or more often if needed.

Secondary Treatment (Aeration)

Color of sludge: **Medium Brown**
Quality of Sludge: **Medium**
Foam: **Light (white)**
Odor: **No objectionable odor present**

	Yes	No		Yes	No
Aeration is taking place	☒	☐	Plant is septic	☐	☒
Blowers are operating	☒	☐	Blowers are on a timer	☒	☐
Skimmers are operating	☒	☐	Plant is flooded	☐	☒
Diffusers are operating	☒	☐	Grating is present	☒	☐
Sludge return is operating	☒	☐	Grating condition: **Satisfactory**		

Maintenance of aerating equipment is...**Satisfactory**

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Comments/Status:

Secondary Treatment (Settling)

Clarity:	**Clear**
Condition of Weir:	**Clean**
Weir is level:	**Yes**
Effluent in weir:	**Clear**
Clarifier walls need scraped:	**No**

Overall maintenance of settling components is: **Satisfactory**

Comments/Status:

Clarifier walls are scraped 3 to 4 day. Bloodworms were observed in the clarifier.

Tertiary Treatment

	Yes	No		Yes	No
Surface sand Filters: **Slow**	☒	☐	**Subsurface**	☐	☒
Distribution box operating	☒	☐	Beds alternated	☒	☐
Are filters ponding/flooding	☐	☒	Beds raked	☒	☐
Sand filters overgrown	☐	☒	Chlorination present	☒	☐
UV present	☐	☒	Dechlorination present	☒	☐

Overall maintenance of components is: **Satisfactory**

Comments/Status:

Filter beds were free of weeds. There were no visible signs of solids on the filter beds. Sand in the filter beds was level.

Total suspended solids (TSS) violations are suspected to be from surface water during heavy storm events. Storm water infiltrates into the ground on the north side of the sand filter's concrete wall, thereby entering the sand filters' underdrains. The contractor believes that constructing a dike and swale on the north side of the plant to divert the storm water will eliminate the TSS violations.

Sludge Handling/Storage Disposal

Hauler name:	**Joseph Sweeney**		
Disposal Site:	**City of Springfield**		
Sludge wasted from:	**Clarifier**		
How often is sludge wasted:	**Determined by settleometer.**		
Sludge drying beds:	**No**	Sludge holding tank:	**Yes**

Overall maintenance of components is: **Satisfactory**

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Comments/Status:

Solids were removed from the sludge holding tank in approximately March 2008. The sludge holding tank is cleaned out 1 to 2 times per year.

Plant Discharge

Discharge point is a: **Stream**
Name of discharge point: **Sinking Creek**
Discharge is visible: **Yes** Quality of Effluent: **Clear**

Comments/Status:

The discharge point is located on Sinking Creek. The discharge flows to Old Columbus Road via a tile, then parallels Old Columbus Road until it reaches the intersection of Mahar Road at which point the tile turns north. The tile is on the west side of Mahar Road for approximately 1,919 l.f. until it discharges to the creek at the bridge across from Brookside MHP. The discharge was clear and odor free. The creek was similar both upstream and downstream of the outfall.

EFFLUENT LIMIT VIOLATIONS
(Period of Review: February 2008 through April 2008)

7D = Weekly 30D = Monthly 1D = Daily Conc. = Concentration (mg/l) Qty.= Quantity (Kg/Day)

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2008	Total Suspended Solids	30D Conc	12.0	45.	2/1/2008
February 2008	Total Suspended Solids	7D Conc	18.0	77.	2/8/2008
March 2008	Total Suspended Solids	30D Conc	12.0	85.5	3/1/2008
March 2008	Total Suspended Solids	30D Qty	0.6	333.443	3/1/2008
March 2008	Nitrogen, Ammonia (NH3)	30D Qty	0.17	30.282	3/1/2008
March 2008	CBOD 5 day	30D Qty	0.57	60.5759	3/1/2008
March 2008	Total Suspended Solids	7D Conc	18.0	160.	3/8/2008
March 2008	Total Suspended Solids	7D Qty	1.02	666.16	3/22/2008
March 2008	Nitrogen, Ammonia (NH3)	7D Qty	0.26	60.56	3/22/2008
March 2008	CBOD 5 day	7D Qty	0.85	121.12	3/22/2008