



John Kasich, Governor
Paul H. Gearty, Lt. Governor
John J. Feltner, Director

May 17, 2013

Mr. Dave Liggett
Maintenance Superintendent
Northridge High School
6066 Johnstown-Utica Road
Johnstown, OH 43031

**Re: Northridge High School WWTP
NPDES Permit 4PT00108/ OH0124044
Compliance Evaluation Inspection
Licking County**

Dear Mr. Liggett:

On May 13, 2013, a compliance evaluation inspection was conducted at the Northridge High School wastewater treatment plant. Present for the inspection were you and Dave Liggett representing Northridge Schools and myself of the Ohio EPA, Central District Office, Division of Surface Water.

The purpose of the inspection was to evaluate compliance with the terms and conditions of your NPDES permit and to evaluate the operation and maintenance of the plant. The following items were discussed during the inspection:

- Operator must ensure flow is reported in million gallons per day (MGD) and not gallons per day (gpd).
- Facility was in significant non-compliance due to violations of bacteria limits. Changes in operator of record and maintenance practices have resulted in better disinfection and discontinuance of violations.
- A church is meeting regularly at the school on Sundays. Around 300 people attend. This should help provide enough waste to see the WWTP through the summer period when there is no school.
- See additional comments in the inspection report.

Mr. Dave Liggett
Maintenance Superintendent
Northridge High School
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If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3854 or e-mail at paul.vandermeer@epa.state.oh.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul Vandermeer", with a long horizontal flourish extending to the right.

Paul L. Vandermeer
Environmental Specialist II
Compliance and Enforcement Unit
Division of Surface Water
Central District Office

ec: Paul Vandermeer,
Eric Britenstein (eabrite@yahoo.com)

PLV/nsm Northridge HS WWTP 2013

NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

Permit #	NPDES #	Inspection Type	Inspector	Facility Type
4PT00108	OH0124044	CEI	S	1
Inspection Date	Entry Time	Exit Time	Notice of Violation	Significant Non-Compliance
5/13/2013	12:00 pm	12:30 pm	No	No

SECTION B: FACILITY DATA

Name and Location of Facility Inspected	Permit Effective Date
Northridge High School 6066 Johnstown-Utica Road Johnstown, OH	7/1/2008
	Permit Expiration Date
	6/30/2013
Name(s) and Title(s) of On-Site Representatives	Phone Numbers
Eric Britenstein, Contract Operator	(614) 207-9030
Name and Title of Responsible Official	Phone Number
Dave Liggett, Maintenance Supervisor	(740) 967-6631

SECTION C: AREAS EVALUATED DURING INSPECTION

Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated

M	NPDES Compliance	Improving. eDMR results now being submitted properly.
S	Operations & Maintenance	Chlorine and dechlorination monitored carefully.
S	Facility Site Review	
S	Collection System	
S	Flow Measurement	
S	Receiving Waters	
S	Laboratory	

Comments:

Signatures

	5/14/13		5/14/13
Paul L. Vandermeer, Inspector Compliance & Enforcement Division of Surface Water District Office	Date	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water District Office	Date

Compliance Data for Northridge High School between 1/1/2012 to 4/1/2013

Summary

Permit Effluent Limit Violations: 7
 Permit Effluent Code Violations: 0
 Permit Effluent Frequency Violations: 62
 Compliance Schedule Violations: 0

Limit Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
April 2012	001	Total Suspended Solids	30D Conc	10	10	4/1/2012
August 2012	001	Fecal Coliform	30D Conc	1000	1780	8/1/2012
September 2012	001	Fecal Coliform	30D Conc	1000	5400	9/1/2012
September 2012	001	Fecal Coliform	7D Conc	2000	5400	9/8/2012
October 2012	001	Fecal Coliform	30D Conc	1000	4100	10/1/2012
October 2012	001	Fecal Coliform	7D Conc	2000	4100	10/1/2012
October 2012	001	Chlorine, Total Residu	1D Conc	0.038	.06	10/17/2012

Frequency Violations						
Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
March 2012	001	Water Temperature	1/Week	1	0	3/1/2012
March 2012	001	Color, Severity	1/Day	1	0	3/1/2012
March 2012	001	Total Suspended Solids	1/Month	1	0	3/1/2012
March 2012	001	Nitrogen, Ammonia (NH3)	1/Month	1	0	3/1/2012
March 2012	001	Odor, Severity	1/Day	1	0	3/1/2012
March 2012	001	Turbidity, Severity	1/Day	1	0	3/1/2012
March 2012	001	CBOD 5 day	1/Month	1	0	3/1/2012
March 2012	001	Dissolved Oxygen	1/Week	1	0	3/1/2012
March 2012	001	Water Temperature	1/Week	1	0	3/8/2012
March 2012	001	Dissolved Oxygen	1/Week	1	0	3/8/2012
March 2012	001	Water Temperature	1/Week	1	0	3/15/2012
March 2012	001	Dissolved Oxygen	1/Week	1	0	3/15/2012
March 2012	001	Water Temperature	1/Week	1	0	3/22/2012
April 2012	001	Color, Severity	1/Day	1	0	4/6/2012
April 2012	001	Odor, Severity	1/Day	1	0	4/6/2012
April 2012	001	Turbidity, Severity	1/Day	1	0	4/6/2012
April 2012	001	Color, Severity	1/Day	1	0	4/11/2012
April 2012	001	Odor, Severity	1/Day	1	0	4/11/2012
April 2012	001	Turbidity, Severity	1/Day	1	0	4/11/2012

KEY: Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated, * Further comment included in attachment

April	2012	001	Color, Severity	1/Day	1	0	4/13/2012
April	2012	001	Odor, Severity	1/Day	1	0	4/13/2012
April	2012	001	Turbidity, Severity	1/Day	1	0	4/13/2012
April	2012	001	Color, Severity	1/Day	1	0	4/18/2012
April	2012	001	Odor, Severity	1/Day	1	0	4/18/2012
April	2012	001	Turbidity, Severity	1/Day	1	0	4/18/2012
April	2012	001	Color, Severity	1/Day	1	0	4/20/2012
April	2012	001	Odor, Severity	1/Day	1	0	4/20/2012
April	2012	001	Turbidity, Severity	1/Day	1	0	4/20/2012
April	2012	001	Color, Severity	1/Day	1	0	4/25/2012
April	2012	001	Odor, Severity	1/Day	1	0	4/25/2012
April	2012	001	Turbidity, Severity	1/Day	1	0	4/25/2012
June	2012	001	Water Temperature	1/Week	1	0	6/22/2012
June	2012	001	Dissolved Oxygen	1/Week	1	0	6/22/2012
July	2012	001	Total Suspended Solids	1/Month	1	0	7/1/2012
July	2012	001	Nitrogen, Ammonia (NH3)	1/Month	1	0	7/1/2012
July	2012	001	Fecal Coliform	1/Month	1	0	7/1/2012
July	2012	001	CBOD 5 day	1/Month	1	0	7/1/2012
July	2012	001	Color, Severity	1/Day	1	0	7/6/2012
July	2012	001	Odor, Severity	1/Day	1	0	7/6/2012
July	2012	001	Turbidity, Severity	1/Day	1	0	7/6/2012
July	2012	001	Water Temperature	1/Week	1	0	7/8/2012
July	2012	001	Dissolved Oxygen	1/Week	1	0	7/8/2012
July	2012	001	Color, Severity	1/Day	1	0	7/11/2012
July	2012	001	Odor, Severity	1/Day	1	0	7/11/2012
July	2012	001	Turbidity, Severity	1/Day	1	0	7/11/2012
July	2012	001	Color, Severity	1/Day	1	0	7/13/2012
July	2012	001	Odor, Severity	1/Day	1	0	7/13/2012
July	2012	001	Turbidity, Severity	1/Day	1	0	7/13/2012
July	2012	001	Chlorine, Total Residu	1/2Weeks	1	0	7/15/2012
August	2012	001	Color, Severity	1/Day	1	0	8/1/2012
August	2012	001	Odor, Severity	1/Day	1	0	8/1/2012
August	2012	001	Turbidity, Severity	1/Day	1	0	8/1/2012
August	2012	001	Chlorine, Total Residu	1/2Weeks	1	0	8/1/2012
August	2012	001	Color, Severity	1/Day	1	0	8/10/2012
August	2012	001	Odor, Severity	1/Day	1	0	8/10/2012
August	2012	001	Turbidity, Severity	1/Day	1	0	8/10/2012
September	2012	001	Chlorine, Total Residu	1/2Weeks	1	0	9/15/2012
November	2012	001	Color, Severity	1/Day	1	0	11/1/2012
November	2012	001	Odor, Severity	1/Day	1	0	11/1/2012
November	2012	001	Turbidity, Severity	1/Day	1	0	11/1/2012
December	2012	001	Water Temperature	1/Week	1	0	12/22/2012
December	2012	001	Dissolved Oxygen	1/Week	1	0	12/22/2012

KEY: Y – Yes, N – No, N/A – Not Applicable, N/E – Not Evaluated, * Further comment included in attachment

Flow Data for Northridge High School between 1/1/2012 and 4/1/2013

	Date	Flows (MGD)
Ten Highest Flows	3/15/2012	12036.000
	3/8/2012	8754.000
	3/5/2012	6204.000
	3/6/2012	6204.000
	3/7/2012	5808.000
	3/14/2012	5808.000
	3/22/2012	5544.000
	3/13/2012	5280.000
	3/12/2012	4488.000
	3/19/2012	3696.000
Average Flow Rate		233.381

Method of flow monitoring:	<i>Dosing pump timer (double checked periodically)</i>
Type of alarms for plant:	<i>Visual</i>

SECTION D: PRELIMINARY TREATMENT

Type of Preliminary Treatment? <i>Trash Trap</i>		
	Yes	No
Does the unit require pumping or cleaning?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maintenance of preliminary treatment is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: *WESCO is contracted periodically to empty trap. Waste is hauled to Newark WWTP for disposal. They will be emptying trap once school is out for the season.*

SECTION E: AERATION

Color of MI SS?	Yes	No		Yes	No
Aeration is taking place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is septic	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Blowers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Blowers are on a timer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Skimmers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Plant is flooded	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Diffusers are operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Grating is present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sludge return is operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foam present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Overall maintenance satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Comments/Status:

SECTION F: CLARIFIERS

Clarity of water topping weir	<i>Clear, some minor pin floe</i>	
	Yes	No
Weir is clean?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weir is in good condition (i.e., level, free of corrosion, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is effluent present in weir channel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the sludge blanket visible?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do the clarifier walls need scraping?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is sludge settling properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance of the clarifier is satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status: **Sludge hauled recently and pumped from both the clarifier and digester.*

SECTION G: TERTIARY TREATMENT

	Yes	No		Yes	No
Surface sand filters:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Subsurface/Upflow	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Distribution box operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Beds alternated	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are filters ponding/flooding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Beds raked	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sand filters overgrown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UV present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dechlorination present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall maintenance satisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Frequency of sand filter cleaning: *As needed. Beds clean.*

Fixed media upkeep: *Alternated. One cleaned while other is operating.*

Comments/Status:

SECTION H: SLUDGE HANDING / STORAGE DISPOSAL

Sludge is periodically wasted from what component?	<i>Digester and clarifier</i>	
Sludge disposal contractor?	<i>WESCO</i>	
Sludge disposal location?	<i>Newark WWTP</i>	
	Yes	No
Does the WWTP have sludge drying beds?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the WWTP have a sludge holding tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is the maintenance on the sludge handling unit adequate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments/Status:

SECTION I: RECORD KEEPING / OPERATOR OF RECORD

	Yes	No
Operator of Record holds unexpired license of class required by Permit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted an ORC Notification form?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Copy of certificate of Operator of Record displayed on-site?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If a Staffing Reduction plan has been approved, are the stipulations of the plan being met?	<input type="checkbox"/>	<input type="checkbox"/>
Operator of Record log book provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum operator staffing requirements fulfilled (OAC 3745-7)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Log book kept onsite (in an area protected from weather)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Log book contains the following:		
Identification of treatment works	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Date/times of arrival/departure for Operator of Record and any other operator required by OAC 3745-7	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Daily record of operator and maintenance activities (including preventative maintenance, repairs and request for repairs, process control test results, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Laboratory results (unless documented on bench sheets)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Identification of person making entries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Has the Operator of Record submitted written notifications to the permittee, Ohio EPA and, if applicable, any local environmental agencies when a collection system overflow, treatment plant bypass or effluent limit violation has occurred	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Logbook Format	Computer log	Bound book

Comments/Status: **There is no place to display the certificate.*

SECTION J: PLANT DISCHARGE

Discharge point is:	<i>Unnamed tributary to Lake Fork Licking River</i>
Discharge is visible:	<i>Yes</i>
Name of discharge point:	<i>001</i>
Marker present:	<i>Yes</i>
Quality of effluent:	<i>Not discharging (dosing pump did not activate during visit)</i>
Contract laboratory:	<i>Advanced Analytical Laboratory</i>

Comments/Status: